# INSTRUCTION MANUAL

# Volume I

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Model DSRV-20-4 Diesel Engine Serial Nos. 75041-2803 75042-2804

SOUTHERN CALIFORNIA EDISON COMPANY San Onfre Nuclear Power Station, No. 1

CEO2



ENGINE AND COMPRESSOR DIVISION DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



# **ENGINE DATA SHEET**

Manufactured for:		Sales Order No. (
	Southarn California Edison Company	75041 & 75042
For Installation:		Purchase Order No.
	Sen Onofre Generating Station Unit No. 1	B-8273001

#### ENGINE DATA

Model	1:	Serial No(s).	· · · · · · · · · · · · · · · · · · ·		
DSRV-20	4	75041	2803, 75042-280	ļ	
	· D ·	Marine 🔀 Diese	il. Dust Fuel	Heavy Fuel	V-type
No. Cylinders	Bore	Stroke	Cycles T	otal Displacement	Controls
20	17 ir	n. <b>21 in.</b>	4 9	5,332 cu-in.	Bight Hand Left Hand
BMEP	Brake Hor	sepower	Crankshaft Rotatio	<b>N</b>	Starting System Pilot air,
154.6 psi	8375 (	@ 450 rpm	CW, viewed fro	m flywheel end	gear driven distributors
Firing Order			-		
1L–1	0R-3L-1	8R-5L-6R-7L-4	R-9L-2R-10L-	-1R-8L-3R-6L-5R-4	L-7R-2L-9R
Fuel Injection 1 Left B Right		BTDC, set _F	eft Bank / 18-7/8 light Bank 18-1/8	inches BTDC on a	90 in, diameter flywheel
Fuel Injection P	ump Rack a	at Full Load			A. A
		DIESEL	29 mm	PILOT OIL	NA
Valve Clearance	- Cold Eng	gine			
	INTAKE	NA	EXHAUST	NA Sequipped	with hydraulic valve lifters

#### FACTORY TEST RESULTS (Average Full Load Data)

Item	Diesel	Dual Fuel	
EXHAUST TEMPERATURE	880 <sup>0</sup> F		
AIR MANIFOLD PRESSURE	32.2 Inhg		
AIR MANIFOLD TEMPERATURE	125 <sup>0</sup> F		
	74 <sup>0</sup> F	· · · · · · · · · · · · · · · · · · ·	
BAROMETRIC PRESSURE	29.88 inhg		

Power

NOTE: Exhaust temperatures are the average for all cylinders during factory test under LOCAL AMBIENT CONDITIONS. Temperatures in the field, therefore, may exceed this average temperature. Always include serial numbers when communicating with DELAVAL Engine and Compressor Division concerning engine performance, or when ordering spare or replacement parts.

1/74

# GUARANTEE

Unless otherwise specifically stated, all machinery and equipment purchased hereunder is subject to the following warranty: DELAVAL TURBINE INC., Engine and Compressor Division (hereinafter called Company) warrants that machinery and equipment manufactured by Company and furnished and delivered to the Purchaser hereunder shall be of the kind and quality described in the Company's specifications, and no other warranty or guaranty except of title is made or shall be implied. If any part of said machinery and equipment thus manufactured by the Company fails because of defective workmanship or material within one year from the date of sturting the engine after delivery, but not exceeding fifteen months from the date of shipment, the Company will, provided such machinery and equipment has been used for the purpose and in the manner intended and the Company's examination shall disclose to its satisfaction that such parts are defective, replace such defective parts free of charge, f.o.b. cars at its warehouse in Oakland, California, but the Company will not be liable for repairs or alterations unless the same are made with its written consent or approval. The Company will not be liable for damages or delays caused by such defective material or workmanship, and it is agreed that the Company's liability under all guaranties or warranties, either express or implied, is expressly limited to the replacing of parts failing through defective workmanship or material within the times and in the manner aforesaid. Parts claimed to be defective are to be returned to the Company at its option, transportation. prepaid. The Company makes no guaranties or warranties whatsoever in respect to products other than that manufactured by the Company as they are sold under the regular warranties of the respective manufacturers, copies of which will be furnished if requested. All warranties and guaranties as to efficiency and capacity are based upon shop tests when operating under specified conditions, but do not apply to any condition varying from the foregoing. The liability of the Company (except as to title) arising out of the supplying of said machinery or equipment or its use, whether on warranties or otherwise, shall not in any case exceed the cost of correcting defects in the machinery or equipment as herein provided, and upon the expiration of said warranty, as herein provided, all such liability shall terminate.

# **PRODUCT IMPROVEMENTS**

The Company reserves the right, where possible, to include changes in design or material which are improvements. Also reserved is the right to furnish equipment of design modifications best suited to a particular installation, location, or operating condition, as long as such modification exceeds Purchaser's design specifications. The Company cannot be responsible for including improvements made after start of production on Purchaser's equipment.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

# TABLE OF CONTENTS

# SECTION 1 -- INTRODUCTION

																							'
Purpose								•	•	•			•		!			•	÷		•	•	1-1
Notes, Cautions and Warnings																							
Maintenance Practices		•	•	•	•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1-1
Customer Assistance	•	•	•	•		•	•	•	•	•.	•	•	•	•	•	٠	•	•	•	•	•	•	1-1
Parts Manual	•	•	۰.	•		•	•.	•	•.	•	•	•	•	•	• '	•	•	•	•	•	•	•	1-2
Associated Publications Manual	۱.		•	•	•		•	•	•	•	•	•	•	•	•	•	•	٠.	•	•	•		1-2
General Engine Description .		•	•	•	•	•	•	•	•	•	•	•	•	•'	•	•	:	•	•	•	•	•	1.2
						•													•			•	

#### SECTION 2-INSTALLATION

General	•	•		•		•	•		•	•,	•		•	•	•	•				· .		•	.•	2-1
Foundation Drawing			•	•		•			•	. •	•.	•					•		•	•		•		2-1
Installation Drawing			•				•	۰.	•			•		•			•							2-1
System Schematic Drawings	<b>.</b>			• ·			•	•	•		•		•			•	•	•			•		•	2-1
Handling and Shipment		•		•	•	•	•			•	•	•		•	•							•		2-1
Foundation																								
Foundation Bolt Assemblies																								
Preparation For Installation								•		•														2.3
Placing Engine Over Founda	ntion		•		•				•			•			•	•								2.3
Mounting Flywheel and Cor																							•	
Grouting			-																					
Piping Systems																								
Treatment of Piping																								
Jacket Water System																								
Raw Water System																								
Intercooler Lines																								
Fuel System																								
Fuel Gas System																								
Lubricating Oil System																								2.10
Flow Principle																								
Auxiliary Lubricating Oil Pu																								2-10A
Installation Precautions	mp	•	•	•	•.	•	. •	•.	•	•	•	•	•	•	•	•.	•	•	•	•	•	•	•	2-10A
Placing Lubricating Oil Syst																								
Intake System																								
Exhaust System																								
Starting Air System																								2-12
are configure adarces	•	•	•	٠	•	•	•	•	•	•	•	•	••	•	•	•	٠					•	•	2.13

# **SECTION 3 - OPERATING PRINCIPLES**

PART A -	GENERAL				• •										
	Working Principle	•	•	•	•	•		•				•	•		3-A-1
	Intake Stroke														
· (	<b>Compression Stroke</b>														
	Power Stroke														
	Exhaust Stroke														

. .

ii

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



5-1 5-3 5-6 5-6 5-7 5-7

5-7

5-7

5-7

.

.

.

. . . . .

# SECTION 3 - OPERATING PRINCIPLES (Continued)

FART B-	LUBRICATING OIL SYSTEM														
	General	•						• .				<i>.</i> .			3-8-1
•	Pressure Regulating Valves														3-B-1
	Filters and Strainers														
	FUEL SYSTEM														
FANIC-	General														2.0.1
	System Components							-							
	Operation	• •	•	•••	•	•	•••	•	•••	•	•	•	•	•	3-C-1
PART D -	CONTROL SYSTEM														
	General														3-D-1
	References	•						•							3-D-1
	Drawings														3-D-1
	Operating Modes														3-D-1
	Protective System														
	Panel Electrical Control														3-D-2
	Pneumatic Control														
	Local Engine Control Panel														
	Automatic Safety Shutdown Syste														
4 – ENGINE C															
4 – ENGINE C	FERALION														
General .	· · · · · · · · · · · · · ·											•			4-1
Definitions	5		•			•				•			•		4-2
Pre-Start P	rocedure		•			•									4-2
Manual Sta	art – Maintenance Mode					•		۰.							4-3
Manual Sto	pp – Maintenance Mode		•			•				•					4-3
Placing Un	it In Lockoff										<i>,</i> •				4.3
Placing Un	it In Maintenance Mode														4-3
Manual Sta	art - Standby (Operable) Mode														4.3
Manual Sto	р										•				4-4
Emergency	Stop														4-4
Starting, St	topping and Operating Precautions		•			•	• • •			•				•	4-4
		•	•												

				· ·						
General	•					•				
Preventive Maintenance										
Maintenance Schedules .										
Preserving Engine For Ship										
<b>Specification For Protecti</b>										
Preservation Equipment						•				
Torque Wrench Tightening										

. . . . .

.

Procedure . . . . . . .

. . . . .

• • •

Torque Values

Pre-Stressed Studs

SECTION

SECTION

iii

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



# SECTION 6 - DISASSEMBLY, INSPECTION AND REPAIR

PARIA -	GENERAL 6-4
	Rotation and Cylinder Designation
	Assembly of Parts
	the of Accombly Drawings
	Consider Toole
	Torquing
BADT D	CYLINDER HEADS AND VALVES
Antp	Cutioder Head Removal
	Valves
	Valves Spring Replacement (Cylinder Head Not Removed)
	Valve Inspection and Reconditioning
	Cylinder Head Installation
	Cylinder Head Installation
	Hydraulic Lifters
	Valve Lifter Maintenance
	Lifter Removal and Disassembly
	Assembly and Installation of Lifters
	Adjustment
ART C -	PISTONS AND RODS
	General
	Connecting Rod Bearing Shell Replacement
	Link Rod and Piston Removal
	Piston and Master Rod Removal
	Piston and Master Kod Removal
	Removal Of A Seized Stud
	Disassembly
	Inspection
	Piston Ring Replacement
	Piston Ring Gap and Side Clearances
	Piston Pin Bushing Replacement
	Link Pin Bushing Replacement
	Piston and Master Rod Installation
	Piston and Link Rod Installation 6
	- CRANKSHAFT AND BEARINGS
FARID.	
	Main Bearings    .
	Bearing Cap Nenioval
	Bearing Shell Replacement
PART E -	- CAMS, CAMSHAFTS AND BEARINGS
	General
	Cansiant Dearing replacement.
	Cam Replacement
	Timing Gears
	Assembly
	Camshaft Timing

iv -



Form E-1778

MANUAL FOR ENTERPRISE ENGINES

orm E-177.

INSTRUCTION ... DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



# SECTION 6 - DISASSEMBLY, INSPECTION AND REPAIR (Continued)

					·														
		FUEL SYSTEM Fuel Injection Equipment		•							•							. 1	6-F-1
•																			
•		Fuel Injection Nozzles . Nozzle Adjustment	• • •	•	• •	•	•	•	•••	•	•••		•					. 1	6-F-2
		Nozzle Adjustment Fuel Injection Pumps .	• •	•	• •	•	•	•	• •	•	• •	•	•					. (	6-F-2
		Fuel Injection Pumps	• •	•	• •	•	•	•	•.•	•	• •	•	•	•	·				6-F-3
		Fuel Injection Pumps Description of Operation	• •	•	• •	•	•	•	• •	•	• •	•	•	•	•	•.	•		6-F-4
1																			
•										-					•	•	•		• • •
		Pump Assembly Pump Installation and Ti	ming	•	•	•••	•	•	• •	•	• 1	•	• •	•	. •	•	•	•	0-1-0
	PART G -	ENGINE CONTROLS							•								• •		
								•		•	•	•		•	•	•	•	•	6-G-1
· .		Overspeed Trip Overspeed Trip Adjustme	ent .		•					•	÷	• .	•	•	•	•	٠	•	6-G-2
														i.					
	PART H -	ENGINE BALANCING General				•									•				6-H-1
	2	Fuel Injection Equipmer	• • •	•	•	• •	•	•	• •	-									6-H-1
		Engine Out of Tune	π	•	•	• •	•	•	• •	•	•	•							6-H-1
		Engine Out of Tune .	• • •	•	• .	• •	•	•	• •	•	•	•	•	• •					6-H-2
		Balancing Criteria	• • •	•.	•	• •	•	•	•. •	•	•	•	• .	• •	•	•	•	-	6-H-2
•		Preliminary Adjustment	<b>5</b>	•	•	• •	•••	•	•	•	•	•	•	• •	•••	•	•	•	6-H-3
		Balancing Engine	• • •	•	•	•	• •	•	•	•	•	•	•	•	•••	•	•	•	00
•	PART I -	STARTING AIR SYSTE	EM			-													611
· ·		General		•	•	•		•	•	• •	•	•	•	•	• •	•	•	•	0-1-1
		Ata Europhy				. ·					•	•		•		•	•	•	0-1-1
		Onaration	•								•	•	•	•		•	•	•	0-1-1
		Value Dissessmbly and /	۵ecomh	lv .						• •	•		•	•	• •	•	•	•	0.1.5
		The ten Ale Disselbutor															•	• •	0-1-2
		Air Filter Inspection				•		•	. •	• •	•	•	•	•	•		•	•	6-1-2
	•															·			•
	PART J -	COOLING WATER SY	SIEMS								•					·			6-1-1
·		General		•	•	٠	• •	•	•	• •	•	•	•	•	•	•••	•	•	6.1.1
		Jacket Water Treatment	t		٠	• .	• •	•	•	• •	•	•	•	•	•	• •	•	•	6.1.1
		Cleaning Jacket Water S	System	•	•	•	• •	• •	•	• •	•	•	•	•	•	• •	•	•	6.1.2
· · ·	•	Environmental Restrict	ions .	•	•	•	• •	••	÷	• •	•	•	•	•	•	• •	•	•	0.0.5
•	PART K -	- LUBRICATING OIL S	YSTEM	1	•			•											<b>C K 1</b>
	-	Filters and Strainers		•	•	•	•	• •	•	• •	•	•	•	•	•	•	•	•	0-1-1
		Lubrication Oil Pump					-				•	•	•	•	• .	•		•	0-K-1
		Removing Pump				•	•		•	• •	•	•	•	•	•	•	• •	•	0-1-1
		Pump Disassembly					•				•	•		•	•	•	• •	•	0-1-2
		Pumo Reassembly	•									•	•	•	•	•		•	6•K•3
		Duma Case Carsing Arts	mbly																D-V-J
	•	Disassembly and Assem	bly of	Gea	r Ca	arrie	er A	sserr	nbly	•	•	•	•	•	•	•	• • •	, <b>.</b>	6-K-4
• ·	DADT 1	- MISCELLANEOUS									• '		•						
	PARIL-	Crankcase Pressure .																	6-L-1
•			• •	•••	. •	•	•.	• •	•	•	•	•	•	-					6-L-1
		Manometer Measuring Vacuum .	• •	• •	•.	•	•	• •	•	•.	• •	•	•	•	•	•			6-L-1
		Measuring Vacuum	• •	•••	•	•	•	•	•	•	• . •	•	•	•	•	•	•	•	6.1.1
		Operation and Mainten	ance	•••	•	٠	•	• •	•	•	•••	•	•	•	•	•	•	, .	6.1.2
		Crankcase Ventilation	System	•	•	•	•	• •	•	•	••	•	•	•	•	•.	•	• •	6.1.2
•		Crankcase Vacuum .	• •	•••	•	•	•	• •	•	•	••	•	•	•	• `	•	•	• •	υ-L-2
																		. ´	•

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF 94621



8-7

8-8

8-9

# SECTION 7 - TROUBLE SHOOTING

	General .	•••••				7.1
· · ·	Records	• • • • • • •	• .• • • •		• • • •	7-1
SECTION 8 -	APPENDICES				•	
	Appendix I -	Torsional Stress and C	Critical Speeds		• • • •	8-2
	Appendix II -	<b>Operating Pressures a</b>	nd Temperatures		• • • •	8-3
	Appendix III -	Table of Clearances .		• • . • •		8-4
•		Torque Values				
•		Timing Diagram				

. .

. . . .

Appendix VI - Lubricating Oil Recommendations . . . . :

Appendix VIII - Fuel Oil Specifications . . .

Appendix VII - Alarms and Safety Shutdowns . . . . . .



101

INSTRUCTION DI MANUAL FOR CO ENTERPRISE 55 ENGINES OA

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

# LIST OF ILLUSTRATIONS

		Page
Figure	Title	-
1-1	Cross Section	1.0
2.1		
2.2	a the All-second Form D-1063	
2.3		
2-4	Turning Jacket Water Pining System	
2.5	- I the transfere Oil Suprem	2- IV
3-A-1		<b>U</b> (1) 1
3-B-1	Old Description Mahaa	
6-A-1	E the Develop and Cylinder Designation	• • • •
6-B-1		
6-B-2		
6-B-3		
6-B-4	The second se	
6-B-5	the device the Malue to form	0.04
6-C-1	River and Connection Rode	
6-C-2	Descine Declarement Tool Arrangement	
6-C-3	Tests teststed For Removing Pictor and Link Rod	
6-C-4	Listing Binger and Link Rod From Cylinder Liner	
6-C-5	Table Levelled For Diston and Master Rod Removal	
6-C-6	Littles Master Red and Riston From Cylinder Liner	
6-C-7		. 0.0.0
6-C-8	Binne and Red Installation	
6-C-9	time Cooling Dinge	. 0-0-9
6-D-1	Main Bearing Con	
6-D-2	Considerate Threat Rings	. 0.0.1
6-D-3	Bee Conserve Accomplise	. 0.0.4
6-F-1	Continuel View of Typical Nozzle and Holder Assembly	. 0.6.5
6-F-2	Burne Diverser and Barrel Arrangement	. Orres
6-F-3	Efforming Stroke	
6-F-4	Elizabed Timing Marks	. 0.1.0
6-F-5	Burne Bare To Tappet Adjustment	. 0.1.0
6-G-1		
6-H-1	Adjusting Fuel Injection Pump	. 0-11-3
<b>6-i-1</b>	Starting Air Value	
6-K-1	Lubricating Oil Pump Assembly	. 0.1.1
6-L-1	Manometer With Vacuum Pump	. 6-L-1
6-L-2	Reading Manometer	•
6-L-3	Crankcase Ventilation System	. 0.1.4



. .

vii \_

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DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



#### SECTION 1

#### INTRODUCTION

#### PURPOSE.

The purpose of this instruction manual is to assist the owner and operating personnel in the operation, maintenance, adjustment and repair of the DELAVAL Engine and Compressor Division's "Enterprise" engine. Maximum efficiency and continuous, trouble-free service will be the result of careful study and application of the contents.

# NOTES, CAUTIONS AND WARNINGS.

Notes, cautions and warnings, as used in this manual, are intended to convey the following meanings.

a. NOTES - Operating procedures, conditions, etc., which it is essential to highlight or emphasize because of their importance to the proper operation of the machinery.

b. CAUTIONS - Operating procedures, practices, etc., which, if not strictly observed, could result in damage to, or destruction of equipment.

c. WARNINGS - Operating procedures, practices, etc., which could result in personal injury or possible loss of life if not correctly followed.

#### MAINTENANCE PRACTICES.

Continuous design refinement and many years of experience in the manufacture of large diesel, dual fuel and spark ignited engines have become a part of the "Enterprise" engine. Each engine is thoroughly tested and inspected before shipment. To realize the longest operating life with a minimum of engine down time for unscheduled maintenance or repair, a program of cleanliness, inspection, preventive maintenance and record keeping is essential.

a. Cleanliness, because it makes a thorough inspection easier, helps keep dirt out of moving parts and indicates in large measure the care the machine receives in other ways.

b. Inspection, because areas of minor wear will be revealed before they become major and require repair or replacement.

c. Preventive maintenance, because it, in combination with cleanliness and inspection, will permit the repair or replacement of wearing parts before they can cause serious malfunction and/or damage to the engine.

d. Record keeping because, when kept on adequate forms and at regular intervals, records will keep operating personnel informed of the current running condition of the engine. Comparison of present and past log sheets will reveal gradual changes in temperatures, pressures, noise and performance, all indicators of the engine's condition which can be of assistance in the planning of overhaul and repair schedules.

#### CUSTOMER ASSISTANCE.

DELAVAL Engine and Compressor Division maintains a staff of factory trained service personnel who are available at nominal rates to assist or advise in the installation, overhaul and repair of "Enterprise" machinery. It is recommended that one of these service men be requested when extensive repairs are being made on the equipment. If assistance is required, write or wire DELAVAL Engine and Compressor Division, Service Department, furnishing complete information including serial numbers.

Form E-1778

1-1

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

# DEVAVAL

# PARTS MANUAL.

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RV(M/N/4V)-75

The Parts Manual furnished with the engine contains engine specifications, parts lists and part numbers for all furnished equipment together with instructions for ordering spare and replacement parts. Assembly drawings are also included in the manual to assist in the identification of parts, however, part numbers appearing on the assembly drawings should not be used when ordering parts. Always use the part numbers appearing on the appro, riate Group Parts List in the Parts Manual.

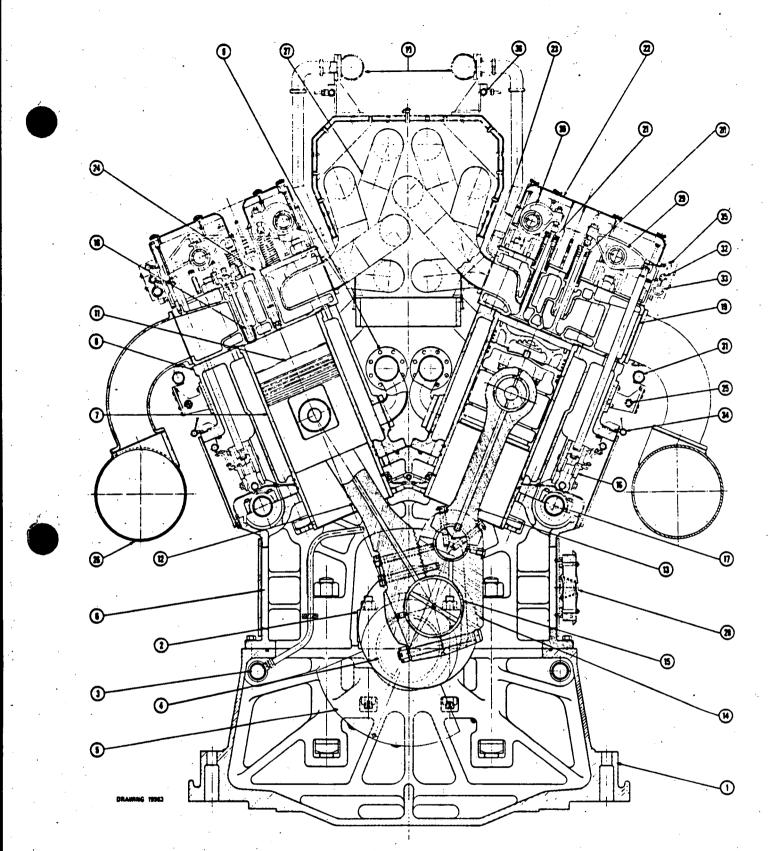
# ASSOCIATED PUBLICATIONS MANUAL.

The Associated Publications Manual is a companion publication to this instruction manual, and contains manufacturer's instructions, bulletins and parts lists applicable to parts and equipment not manufactured by DELAVAL engine and Compressor Division, but which are furnished with the engine and which require servicing and/or adjustment.

#### GENERAL ENGINE DESCRIPTION.

The Model RV engine is a four-stroke-cycle, turbocharged, aftercooled, V-type engine, built in 12, 16 or 20 cylinder arrangements. The engine is available in either diesel or dual fuel versions and may be equipped to operate on heavy (residual) fuel. The angle of the Vee is 45 degrees. Trunk-type pistons, removable wet-type cylinder liners, pressure lubrication and mechanical fuel injection are features of the RV engine. Individual fuel injection pumps are provided for each cylinder, and as they are of standard design, are interchangeable. The fuel lines are of equal length and are relatively short, reducing line surge to a minimum. Fuel pumps, nozzles and orifice size and angle are all carefully matched to the engine and the fuel to be used to give maximum thermal efficiency. A gear-driven starting air distributor provides a timed distribution of pilot air to open the air start valves, permitting the engine to be started cold in a few seconds with a 250 psi starting air supply. Engine rotation and cylinder bank designation are determined while facing the engine at the flywheel end, number one cylinders always being the pair farthest from the flywheel.

1-2



Item	Description	Group Parts Lis
1	Engine Base	305
2	Main Bearing Cap	305
3	Lubricating Oil Header	307
4	Crankshaft & Bearings	310
5	Crankshaft Counterweight	310
Ű	Crankcase Assembly	311
7	Cylinder Liner	315
8	Engine Block	315
9	Jacket Water Header (In)	315
10	Jacket Water Header (Out)	317
11	Piston	340
12	Master Rod	340

ltem	Description	Group Parts List
13	Link Rod	340
14	Connecting Rod Box	340
15	Connecting Rod Bearings	340
16	Tappets	345
17	Comshaft & Bearings	350
18	Air Starting Valve	359
19	Cylinder Head	360
20	Intake Valve	360
21	Exhaust Valve	360
22	Cylinder Head Cover	362
23	Cylinder Head Sub Cover	362
24	Fuel Injection Nozzle	365

ltem	Description	Group Parts List
25	Fuel Pump Linkage	371
26	Intake Manifold	375
27	Exhaust Manifold	380
28	Crankcase Rolief Valve	386
29	Rocker Arm, Intake	390
30	Rocker Arm, Exhaust	390
31	Starting Air Manifold	441
32	Fuel Oil Return	450
33	Fuel Oil Header	450
34	Fuel Oil Drain	450
35	Rocker Arm Oil Header	465
36	Pyrometer Conduit	630

**TYPICAL MODEL DMRV-4 ENTERPRISE DIESEL ENGINE** 

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DELAVAL ENGINE AND COMPRESSOR DIVISION 550-E5TH AVENUE OAKLAND, CALIF. 94621



# SECTION 2

# INSTALLATION

#### GENERAL.

The installation of a DELAVAL Engine and Compressor Division "Enterprise" engine may vary from site to site, therefore, the instructions contained in this section of the manual are representative of a typical installation and not necessarily the exact procedure for a specific site. Certified installation and foundation drawings are furnished to each customer which detail the dimensions and installation requirements for that particular unit.

# FOUNDATION DRAWING.

The foundation drawing will be accurately dimensioned and must be carefully observed. Carelessness in locating foundation bolts, pipes, conduits and drains will cause difficulty during installation and alignment. It is essential that the foundation be constructed to standards of the highest accuracy.

#### INSTALLATION DRAWING.

The installation drawing details the measurements for machinery location, distances required for normal maintenance tasks and the overhead clearances necessary for piston removal. In addition the drawing will indicate the location and size of connection points for pipes and the electrical requirements for alarm and control mechanism.

# SYSTEM SCHEMATIC DRAWINGS.

Electrical and flow diagrams are furnished for the various systems. Flow diagrams specify pipe sizes and the type and location of fittings and apparatus. These represent minimum requirements. To insure compatibility, any changes should be approved by DELAVAL Engine and Compressor Division engineers before installation.

# HANDLING AND SHIPMENT.

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Care must be exercised during the shipment and handling of the engine and associated equipment during installation to avoid damage. The unit should be lifted only from the lift pads on the side of the engine base (where provided) as indicated on the installation drawing. When securing the engine during shipment or other movement, make sure no binding stresses are imposed on the engine base or crankshaft.

2.1

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#### FOUNDATION.

INSTRUCTION

MANUAL FOR

ENGINES

Make a foundation bolt template, using the certified foundation drawing to determine the location of the equipment mounting bolts. See figure 2-1 for a suggested method of building the template. Exercise care in locating bolt centers. Place and support the template from the foundation forms. Anchor securely to prevent movement of the template. Thread foundation bolt into lower nut in pipe sleeve being careful not to damage cap at bottom of nut. Insert foundation bolts and sleeves in holes provided in the template then tighten the upper nuts. Sleeves must be securely held in correct position to prevent any movement when pouring concrete. A suggested method is to use reinforcing rods welded to each sleeve or on top of each anchor plate in both rows of bolts, running the length of the engine, and adding "X" bracing between the two rows of bolts. Another suggestion is to tie the bolt assemblies to other reinforcing rods already in the foundation. *Recheck template position, alignment and elevation before pouring concrete.* It is recommended that a DELAVAL Engine and Compressor Division service representative be present to check bolt layout. The foundation is to be poured monolithic and must be suitably reinforced with reinforcing steel: Let concrete set for 10 days before installing equipment, and 30 days before running equipment.

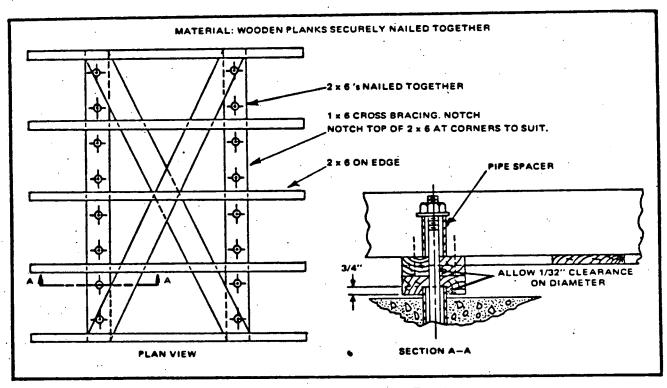


Figure 2-1. Suggested Foundation Bolt Template

#### FOUNDATION BOLT ASSEMBLIES.

The foundation bolts are so designed that the anchor studs can be removed from the anchors after the foundation has been poured. This permits the engine to be placed over the foundation without any interference or danger of damage to the studs. Once the engine is in place, the studs are installed and screwed into the anchor assemblies.

Form E-177a

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#### PREPARATION FOR INSTALLATION.

INSTRUCTION

MANUAL FOR

ENGINES

Before landing the unit on the foundation, the surfaces of the foundation must be roughened wherever grout is to be applied. Chip and clean as necessary to remove all laitance and foreign matter so that the clean, dry, sharp aggregate required for a good bond to epoxy grout is exposed. The machined surfaces of the sole plates and chocks must be thoroughly cleaned and the leveling screws waxed to prevent their sticking to the grout. The machined bottom faces of the engine base must also be cleaned thoroughly. Remove engine foundation bolts. Place steel plates at jacking screw locations, level plates and grout in place.

#### PLACING ENGINE OVER FOUNDATION.

Position engine over foundation and insert four toe jacks, one at each corner of the engine, inboard of the shipping skids. If engine is rolled into position, the ends of the jacking screw shields and foundation bolt shields must be protected to avoid damaging shield ends with the rollers. Do not place jacks in the center of the engine as this could cause damage to the engine base. Insure that the combined capacity of the jacks is at least fifty percent greater than the total weight of the engine. See Installation Drawing for weights.

a. Remove shipping skids, thoroughly clean mounting rails and then lower engine to grade. Be sure the foundation bolt holes in the engine base are correctly aligned with the foundation bolt sleeves in the foundation for easy installation of the foundation bolts.

b. Clean sole plates and chocks with a degreasing type solvent. It is recommended that after the sole plates are washed, they be primed with a primer recommended by the grout manufacturer. Lubricate the threads of the jacking screws with a mixture of powdered graphite and engine lubricating oil. The lower end of the jacking screws should be coated with wax to prevent the epoxy grout material from binding to the screws.

c. Place sole plates and chocks in position under the engine as shown in the foundation drawing. Install sole plate retainers on the front and rear sole plates, making sure the sole plates are forced tightly against the shoulder at the inner edge of the engine mounting rails.

d. Lubricate lower threads of the foundation bolts with standard graphite and oil mixture, install bolts in sleeves and screw firmly into the threads at the bottom of the sleeve. Lubricate threads at the upper end of foundation bolts with oil and graphite powder then place washers and nuts on bolts.

e. Level and align the engine, following the crankshaft alignment on DELAVAL Engine and Compressor Division Form D-1063. Record deflection readings on the form. Insure that all sole plate jacking screws are so adjusted as to distribute the weight evenly on all sole plates. When leveling and alignment is satisfactory, snug down the foundation bolt nuts to prevent movement of the engine during installation of the driven equipment and grouting.



2.3

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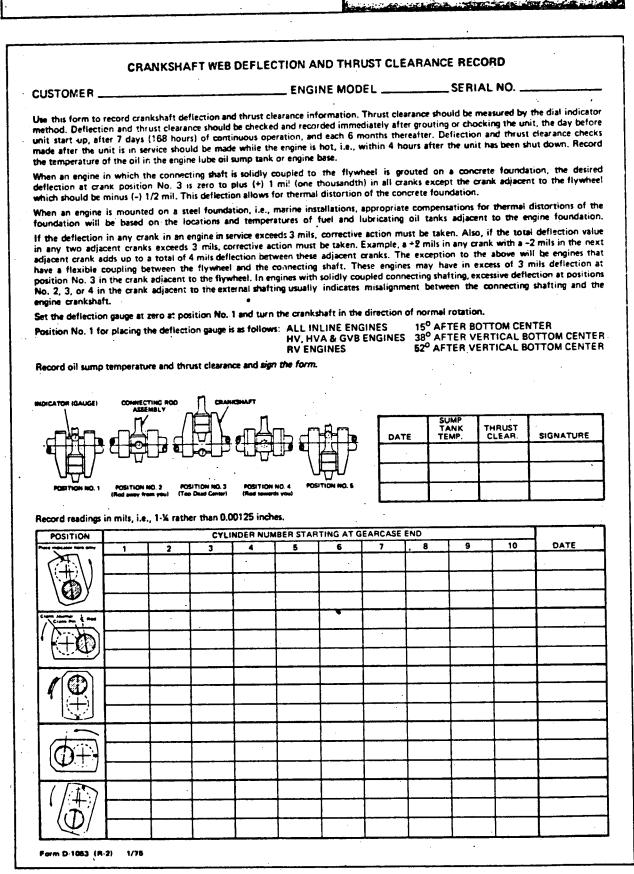


Figure 2-2. Crankshaft Alignment Record, Form D-1063.

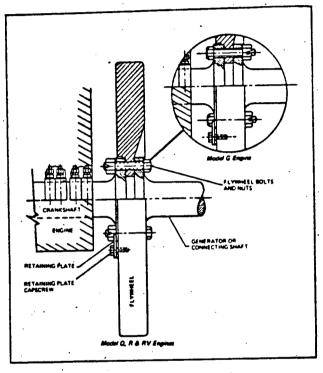
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Carefully clean and de-burr the bores and mating surfaces of the flywheel, the cranksheft flange and the connecting flange. Dirt or burrs will cause misalignment between the crankshaft and the connecting shaft.

a. Apply a thin coat of anti-seize lubricant such as "Molykote" or "Lubriplate" to the mating surfaces of the flywheel and the flange, then mount the flywheel on the engine crankshaft flange. Make sure no dirt is allowed between the mating surfaces while the flywheel is being mounted. Install three retaining plates (see figure 2-3) and draw the flywheel up on the flange until it is seated.

b. Bring the connecting shaft into position, lubricate the mating surfaces with anti-seize lubricant, align the half-inch locating hole in the connecting shaft flange with the locating hole in the flywheel and move the connecting shaft into engagement with the flywheel. Keep dirt from entering the mating area. Use two long one or one and one-quarter inch diameter temporary bolts with washers and nuts to draw the connecting shaft to the flywheel until it is seated. Check with feeler gauges between face of connecting shaft flange and flywheel to be sure the flange is fully seated and square with the flywheel.

c. Special tapered aligning dowels and a flywheel bolt reamer are available from the DELAVAL Engine and Compressor Division Service Department for use in aligning and fitting the flywheel bolts. Lubricate the two aligning dowels with a thin coat of anti-seize lubricant then tap them into two opposite flywheel bolt holes, aligning the bolt holes with those of the shaft flanges. Do not drive dowels up hard. Ream two flywheel bolt holes with the special reamer and measure diameter of reamed hole to the nearest 0.0005 inch, and compare diameter of reamed hole with diameter of bolt. Reamed holes should be approximately 0.0005





inch larger than the bolts to allow for an easy tap fit. Do not drive the bolts in with a sledge, hydraulic ram or jack. Coat bolts with an anti-seize lubricant and fit into reamed holes. Lubricate threads with powdered graphite and engine oil, assemble nuts on bolts and draw up tight. Remove two temporary bolts and aligning dowels and fit remaining bolts. Torque all bolts to the torque specified in Appendix IV.

#### **GROUTING.**

Check alignment of crankshaft, then align driven equipment. Tighten foundation bolts on driven equipment moderately with jacking screws in place, then recheck entire alignment including crankshaft. Record crankshaft deflections on Form D-1063, Crankshaft Alignment Record. A DELAVAL Engine and Compressor Division service representative must be present to supervise alignment procedures.

a. Pour and vibrate the grout under the engine and driven equipment. It is recommended that a representative of the grout supplier be present at the installation to be sure that grout is prepared and placed in accordance with specifications. Do not fill bolt shield holes with grout.

b. After grout has cured, back off the sole plate jacking screws one turn each and torque the foundation bolts to the specified value. Snug all bolts in a criss-cross pattern, then apply a light torque to each, using the same criss-cross pattern. Continue applying torque in increments and in the same pattern until the final torque value is reached.

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#### PIPING SYSTEMS.

DELAVAL Engine and Compressor Division furnishes suitable piping diagrams to the purchaser or his design agent, recommending minimum pipe sizes for all service lines. In addition, the following should be observed in the fabrication and installation of piping not furnished with the unit, but procured from other sources.

a. Piping must never cause deflection in the mounting of reciprocating or rotating auxiliary equipment, nor should heavy auxiliary equipment ever be supported by service piping.

b. Whenever there is a possibility of deflection, flexibility must be designed into the piping.

c. Chill rings should not be used in welded pipe joints as they tend to retain scale, welding slag and beads which can come loose as the pipe becomes hot during operation.

#### **TREATMENT OF PIPING.**

It is strongly recommended by DELAVAL Engine and Compressor Division that all lubricating oil and fuel gas system piping be pickled by a company specializing in this kind of work. Such a company will have the necessary equipment and possess the technical knowledge to completely clean and prepare the pipe for service. Piping which is furnished by DELAVAL Engine and Compressor Division with the unit will have been pickled at the time of fabrication. All piping procured from other sources should be pickled and prepared as follows:

a. Accessible welds inside carbon steel pipes and fittings must be visibly inspected and the welding beads ground off. All fabricated steel pipes, valves and fittings must be blown clean with steam or air to remove loose scale, sand and welding beads, and be cleaned by the following procedure before the pickling process.

(1) Wirebrush the entire surface, including the interior with boiler tube brushes or a commercial pipe cleaning apparatus, then blast thoroughly with air to remove loose particles.

(2) Depending on the degree of contamination, submerge parts for 15 minutes or longer in a solution containing seven to ten ounces of anhydrous trisodium phosphate or sodium hydroxide and one ounce of detergent, Military Specification MIL-D-16791 to one gallon of water at 200° F (93.3° C) to insure complete removal of paint and grease.

(3) Rinse parts in warm, fresh water at 120° F (48.9° C) to prepare them for the acid treatment.

(4) Pickle fabricated carbon steel pipes and fittings by submerging them for 30 to 45 minutes in an acid bath containing one part of sulphuric acid,  $66^{\circ}$  Baume to 15 parts fresh water, supplemented with an inhibitor. The acid bath must be maintained at a temperature between  $160^{\circ}$  F (71.1° C) and  $186^{\circ}$  F (82.2° C). While the parts are submerged, agitate the bath. At the end of the pickling procedure, rinse parts in warm, fresh water. After the rinse the parts must be momentarily submerged in a cooling solution containing four ounces of sodium carbonate per gallon of water, then rinsed in cold fresh water and dried by air blast.

b. Immediately following pickling and rinsing, coat both the inside and the outside of the fabricated steel pipes and fittings with a rust and corrosion preventive compound and seal the ends to prevent entry of dirt. The compound must be soluble in the lubricating oil that will be used, and compatible with it so as not to contaminate the oil. Ordinary lubricating oil will not prevent rust in the pipes. Mechanical cleaning will not completely clean the pipes, therefore, this method is not acceptable. Apply the compound by spraying or flooding the pipes—swabbing with rags or mops will leave lint.

### Note

The above procedure is a minimum requirement to produce acceptable clean piping. Substitute methods may produce pipes and fittings of equal or better cleanliness.

Form E-177a

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#### JACKET WATER SYSTEM (See Figure 2-4).

The jacket water system should be individual for each engine. The recommended water treatment is sodium dichromate and boiler compound. Refer to Section 6 of this manual for the method of treatment. The typical jacket water system consists of the following major components.

- a. An engine-driven pump to circulate the coolant.
- b. A heat exchanger for cooling the water. It may be either a shell and tube type, or a radiator.

c. A temperature control valve to regulate the temperature of the water out of the engine.

d. Passages within the engine through which the water flows and where heat is absorbed from the engine.

e. A surge tank or standpipe to maintain a constant head on the pump and also for expansion and bleeding of entrained air.

The pump, engine and heat exchanger are best connected in a series circuit and should be provided with a bypass around the exchanger. The standpipe must be installed above the highest point of the system and connected with vent lines from the top of the exhaust manifold and from any other points that may cause an air pocket. These pipes must be configured to avoid air pockets. Sizes are shown on the piping diagrams furnished with the engine. Vent and surge lines should be provided with globe valves that can be cracked to vent air from the system. Proper valving or thermostatic control around the heat exchanger must be provided to allow for jacket water temperature regulation. Drain valves must be installed at the lowest points in the system and are desirable at the heat exchanger. The system may be filled at the standpipe, or in the line between the surge tank and the pump suction.

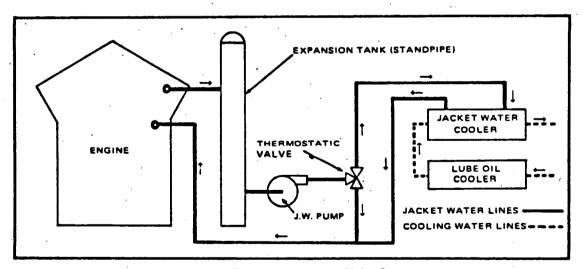


Figure 2-4. Typical Jacket Water Piping System

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#### RAW WATER SYSTEM.

The raw water system, if used, provides a cooling medium for various engine units and accessories as required. Raw water may be pumped from its source through a lubricating oil cooler and heat exchanger then returned to its sump. Provisions are necessary to maintain control over jacket water and lubricating oil temperatures. Such control can be achieved by means of bypasses in either the liquid-to-be-cooled, or in the raw water lines. In some applications it may be necessary to run raw water lines to accessory equipment coolers.

#### INTERCOOLER LINES.

Form E-1778

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When an intake air cooler is used, it is located between the turbocharger air discharge and the air manifold. Raw water is usually used as the coolant and is piped as indicated in the piping diagrams furnished with the engine.

2.8

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#### FUEL SYSTEM.

The fuel system must be maintained in as clean a condition as is possible. Every precaution must be taken to keep water from mixing with the fuel. Fuel injection on the engine is hand lapped to extremely close tolerances, and, therefore, fuel filtration equipment must be of the highest quality and carefully maintained. Engine mounted fuel system components will include:

a. A fuel oil strainer.

b. An engine driven booster pump with built in relief valve.

c. A duplex absorbent type filter.

d. Fuel oil supply and return headers.

e. Fuel injection pumps and nozzles, individual for each engine.

f. Pressure regulating valve at downstream end of header.

. Necessary drains and drip lines.

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#### LUBRICATING OIL SYSTEM.

The lubricating oil system is of the dry sumo type which has a sump tank for holding the lubricating oil supply. Lubricating oil is circulated through the system under pressure by a positive displacement, gear type pump. Refer to Figure 2.5 for an illustration of a typical system. Reference should be made, however, to the lubricating oil system schematic drawing provided in the drawing section of this manual for the specific details of the system used on this engine.

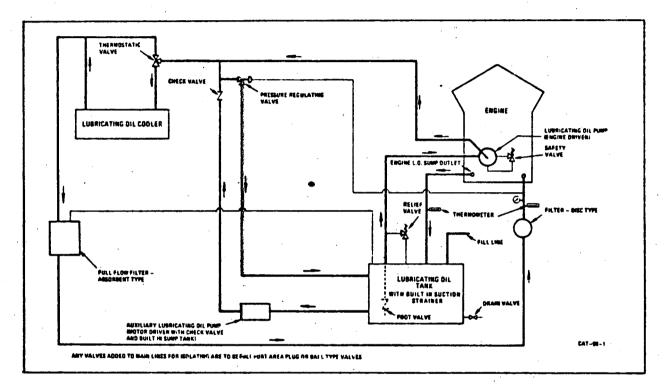


Figure 2-5. Typical Lubricating Oil System

### FLOW PRINCIPLE.

Pump suction draws the lubricating oil from the engine sump tank through a built in strainer and directs pump discharge to a thermostatic valve where, depending on the temperature of the oil, oil is either passed through the cooler, or sent directly to the full flow filter. From the filter oil flows through a pressure strainer to the engine lubricating oil header. Return flow is by gravity flow from the engine base to the sump tank. Branches from the main lubricating oil header in the engine provide for pressure lubrication of the working parts of the engine. To prevent damage to the pump and supply lines, a safety relief valve at the pump discharge opens as a preset pressure to bypass excess oil back to the suction side of the pump. Refer to Section 3, Part B of this manual for a description of the operation of the lubricating oil pressure regulating valve.



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#### AUXILIARY LUBRICATING OIL PUMP.

An auxiliary lubricating oil pump, sometimes called a Before and After (B&A) pump is normally furnished with the engine. It is motor driven and installed in the system to provide a means for pre-lubrication of the engine before starting and to aic in cooling the engine after it has stopped.

#### INSTALLATION PRECAUTIONS.

The following precautions are among those which must be considered in the procurement and installation of lubricating oil servicing equipment when that equipment is not furnished with the engine.

a. The lubricating oil pump must be of the positive displacement type and provided with adequate relief valves.

b. A strainer should be provided in the line where the lubricating oil enters the main lubricating oil header, and be of a type that can be cleaned without being disassembled.

- c. An auxiliary (B&A) lubricating oil pump is recommended for pre-lubricating of the engine before starting.
- d. Provisions should be made for controlling the temperature of the lubricating oil.
- e. Provisions should be included to temporarily bypass the oil cooler in the event of a leak in the cooler.
- f. Flexible connections are recommended wherever there is a possibility of deflection.

#### PLACING LUBRICATING OIL SYSTEM IN SERVICE.

Before the engine is first started, the assembled lubricating oil piping system must be thoroughly flushed with oil. Disconnect the pipe at the pressure strainer inlet and arrange a temporary bypass from this pipe to the sump tank. The bypass will permit oil circulation through the pipes without filling the internal lubricating oil system of the engine. Several thicknesses of cloth sack should be secured to the outlet of the bypass to catch debris as it is flushed out. The sump tank and engine base must be thoroughly cleaned before being filled. An auxiliary lubricating oil pump, or any other continuous duty pump of sufficient capacity, can be used to pump oil during flushing operations. Flushing should continue for at least eight hours if care was exercised during fabrication of the system. As much as 24 hours of flushing may be required for a dirty system. When oil is circulating through the system, the pipes should be thoroughly pounded several times with a heavy hammer to loosen dirt and debris. Hot flushing oil will clean better than cold oil. Piping around the oil cooler requires special attention to insure that the pipes and oil cooler are properly flushed. Precautions must be taken to insure the complete removal of testing fluids, water or other liquids before attempting to flush the cooler.

#### Note

Engines may be received with the strainer mounted on the engine and connected to the engine lubricating oil header. If it is certain that the connections between the strainer and the engine oil header have not been disconnected since the engine left the factory, the following paragraph may be omitted.

Disconnect jumper tubes between the engine lubricating oil header and the main bearings, and between main headers and auxiliary headers. Secure a fins screen such as a nylon stocking over each main header fitting to catch debris that may be washed through as the system is flushed. Cover main bearing fittings and open ends of auxiliary header feeders to prevent the entry of dirt. Engine oil should be pumped through the open system for at least four hours to be sure that any foreign material remaining in the headers is removed. Reassemble internal tubes and brackets as required.



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#### INTAKE SYSTEM.

Each engine has an independent intake system, the combustion air being piped from outside the engine room through a remotely installed air filter. An inline silencer is fitted in the pipe just ahead of the turbocharger air inlet. The air filter protects the working parts of the engine from the entry of dust. Filters should be cleaned at regular intervals to maintain adequate protection against abrasion and wear.

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#### EXHAUST SYSTEM.

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Each engine is provided with an individual, independent exhaust system. The water jacketed, multi-pipe passage manifold discharges directly into the engine mounted turbocharger(s), and the gas then discharges from the turbocharger(s) through exhaust piping and a silencer to atmosphere. As few bends as possible should be used when Jaying out exhaust piping. Necessary bends should be of long radius. If three to six bends are used, the entire pipe should be increased to the next nominal size. If more than six bends are necessary, pipe size should be increased two nominal sizes. The length of exhaust piping is not critical, however, if an unusually long pipe is used, the pipe size should be increased to reduce back pressure. A length of flexible metal tubing should be installed in the exhaust line as near the engine as possible to allow for movement, heat expansion, and for isolation of vibration. The exhaust line should be lagged to minimize heat radiation in the engine room. A separate support should be provided so the weight of the exhaust silencer and line is not borne by the engine.

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# STARTING AIR SYSTEM.

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Compressed air from the starting air tanks at 250 psi (17.6 kg-cm<sup>2</sup>) is applied to the upstream side of the starting air admit valve where it is blocked until a starting signal is applied to the pilot of the starting air admit valve. When a start signal is applied to the starting air admit valve pilot, the valve opens and admits starting air to the starting air manifold on the engine and to the gear-driven starting air distributor. Timed pilot signals are sent to the air start valves on the engine in the correct sequence, and as each air start valve opens, starting air is admitted to the cylinder, causing that piston to be forced downward, rotating the crankshaft. The starting air tanks are provided with isolating valves and pressure relief valves. Refer to the starting air schematic drawing for the location of filters, strainers, regulators and valves, and for the direction of air flow.

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# SECTION 3

# OPERATING PRINCIPLES

# PART A - GENERAL

# WORKING PRINCIPLE.

ENTERPRISE engines operate on the four stroke cycle principle. The complete cycle for each cylinder consists of the intake, compression, power (or expansion) and exhaust strokes, and requires two complete revolutions of the crank-shaft.

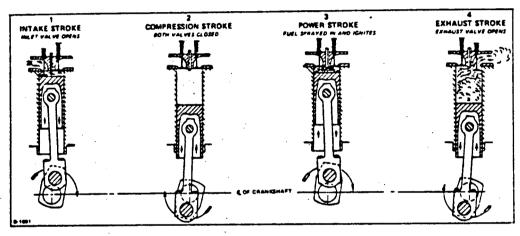


Figure 3-A-1. Diagram of Working Principle

#### INTAKE STROKE.

During the downward movement of the piston on the intake stroke, the intake valve is open and combustion air enters the cylinder. The exhaust valve remains open during the early part of the stroke to scavange the cylinder of any unburned gases from the previous power stroke. Combustion air enters the cylinder from the turbocharger under pressure.

#### COMPRESSION STROKE.

Shortly after the piston passes bottom center and starts upward, the intake valve closes and the air is compressed, raising the temperature of the air to well above the ignition temperature of the diesel fuel. Just before the piston reaches top center, diesel fuel is injected into the combustion chamber by a nozzle which atomizes the fuel and sprays it in a pattern that will achieve optimum combustion efficiency. The heat of compression ignites the fuel.

#### **POWER STROKE.**

The burning fuel-air mixture expands and forces the piston downward. This downward thrust transmits power through the connecting rod to the crankshaft, causing it to rotate. Towards the end of the power stroke the exhaust valve opens and exhaust gases start to leave the cylinder.

#### **EXHAUST STROKE.**

As the piston moves upward, past bottom center, exhaust gases are forced out of the cylinder through the open exhaust valves. During the last half of the exhaust stroke the intake valve opens to admit combustion air into the cylinder for scavenging purposes.

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# PART B - LUBRICATING OIL SYSTEM

#### GENERAL.

An engine-driven pump draws oil from the sump through a strainer, and discharges it to a thermostatic valve where, depending on the temperature of the oil, it is either passed through the lubricating oil cooler, or directly to the filter. Filtered oil is then passed through a strainer to the engine lubricating oil header. Oil return to the sump tank is by gravity flow. An integral safety valve on the pump prevents excess discharge pressure, and a pressure regulating valve controls the pressure in the engine lubricating oil header. Refer to the lubricating oil system schematic drawing for the relative location of components and for the direction of flow.

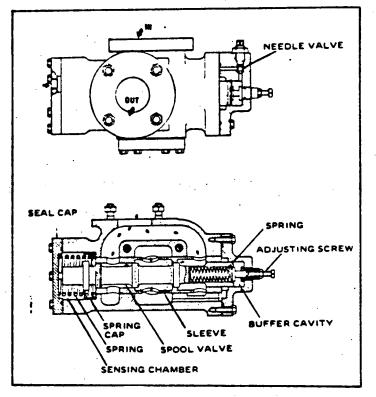


Figure 3-B-1. Oil Pressure Regulating Valve

#### PRESSURE REGULATING VALVE.

Lubricating oil header pressure in the engine is regulated by a pressure regulating valve, mounted on the pump discharge piping so that the pump discharge is directed to this valve before reaching any other system components. Set at 50 psig, it senses header pressure and regulates the bypass volume to maintain the set header pressure. Besides regulating header pressure, the valve protects the system from excessive pressure during starts with cold oil, or when flow in the system is restricted between the pressure regulating valve and the header pressure sensing point. The functioning of the valve is as follows.

a. The "IN" port of the value is connected to the pump discharge line and the "OUT" port is connected to a bypass line leading back to the engine base. A sensing tube, connecting the value seal cap to a point on the main engine oil header, applies header pressure to the value pressure sensing chamber.

b. The pressure in the sensing chamber acts against the end of a spool valve, compressing a spring at the adjusting screw end of the assembly. If the sensed pressure rises above the set point, the lands of the spool valve will clear the lands on a sleeve. Oil then flows from the inlet section to the outlet-section of the regulating valve and back to the engine base to bypass a part of the pump discharge to reduce the pressure in the header.

Form E-177a

# PART B - LUBRICATING OIL SYSTEM (Continued)

A drilled passage connects the inlet section of the valve to the annular space around the spool valve at the C. adjusting screw end. This allows pump discharge pressure to act against the end of the sleeve and oppose the spring force at the other end. When an excessive pressure differential exists between the pump discharge and the header pressures, such as when starting with cold oil, or because of an obstruction in the system between the regulating valve and the header pressure sensing point, the sleeve is forced towards the sensing chamber end, compressing the spring. This will uncover the lands of the spool valve and the excess oil will bypass through the spool valve and the excess oil will bypass through the outlet side of the valve back to the engine base.

The oil in the annular space around the spool valve, at the adjusting screw end, will leak past the sealing d. grooves of the spool valve and into a cavity in the cap. This cavity functions as a buffer chamber. To stop valve oscillation, an adjustable needle valve controls oil spillage from the buffer cavity to the outlet-section of the valve.

The oil header pressure is set by increasing or decreasing the spring force acting against the header pressure e. in the valve sensing champer. Turning the adjusting screw in will increase header pressure, and backing it out will decrease pressure.

#### FILTERS AND STRAINERS.

The full flow filter continuously filters all of the lubricating oil from the pump before it passes to the oil strainer. The length of time that the lubricating oil and the filter elements may remain in service can best be determined by carefully watching the result of oil analysis and the pressure drop across the oil filter. Change periods will vary with the operating conditions to which each individual engine is subjected. During the first two or three days of engine operation after initial installation, or after a major overhaul, the basket-type strainers at the pump suction and at the oil header inlet should be checked and cleaned as necessary to remove any debris and foreign matter that may be present. If at any time the oil pressure gauge shows a low reading, the following should be done to the degree necessary to correct the situation.

Check the oil level in the sump tank, or engine base.

Inspect strainer, filter and lubricating oil cooler. A leak in the cooler may be detected by a sudden increase b. in oil consumption, and by the presence of oil in the cooling water system. Leakage may occur in the packing between the tubes and the tube sheet, or may be due to tube erosion, depending on the construction of that particular cooler.

Inspect all external and internal piping for tightness and freedom from obstructions. Ĉ.

d.

Dismantle and inspect pump. Refer to manufacturer's instructions on the Associated Publications Manual.

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# PART C - FUEL SYSTEM

#### GENERAL.

Fuel oil snould be maintained in as clean a condition as is possible. Every precaution must be taken to keep water from mixing with the engine fuel. The fuel injection equipment on the engine is hand lapped to extremely close tolerances and, therefore, fuel filtration equipment must be of the highest quality and carefully maintained.

#### SYSTEM COMPONENTS.

Engine mounted fuel system components include the following:

- a. A duplex fuel oil strainer.
- b. An engine driven booster sump with built in relief valve.
- c. A duplex absorbent type filter.
- d. A d-c motor driven fuel of booster pump.
- e. Fuel oil supply and returnheaders.
- f. Fuel injection pumps and nozzles, individual for each cylinder.
- g. Pressure regulating valve at downstream end of header.
- h. Necessary drains and drip fines.

#### **OPERATION.**

Fuel is drawn from the day tank by the engine driven booster pump and the d-c motor driven booster pump, operating in parallel. The engine driven pump draws fuel through the strainer and discharges it through the filter to the engine headers. The d-c motor driven pump dischargers directly to the filter. The fuel pumps, actuated by fuel cams on the camshafts, deliver fuel to the cylinders, depending on the position of the fuel control racks of the pumps. In the event of engine driven pump failure, an isolation valve and a check valve prevents fuel from being pumped back to the engine driven pump. Return flow is back to the day tank. A fuel waste return pump on the fuel oil waste tank returns waste fuel oil to the day tank.



DELAVAL ENGINE AND COMPRESSOR DIVISION 550-35TH AVENUE OAKLAND, CALIF, 94621



# PART D - CONTROL SYSTEM.

#### GENERAL.

The following is a description of the local engine control system and its operation. The system will start, stop, protect, operate and monitor the integrity of the diesel generator in the various modes of operation under guidelines specified by various regulatory and standards committees.

#### **REFERENCES.**

The Associated Fublications Manual contains manufacturer's literature covering the various components of the system. Of special significance are the ARO Corporation's publications which give a clear, concise explanation of the functions of the various logic elements as well as a parts breakdown and repair procedures. When ordering spare and replacement parts for the system, refer to the Parts Manual for the correct part numbers.

#### DRAWINGS.

The drawings provided with these instructions include system schematics, layouts and connections pertaining to the logic board assembly, showing the location and orientation of the components on the board, the circuit diagram and checkout procedures. Refer to the control panel group parts list 02-500 for 75041 in the *Parts Manual* for a listing of drawings applicable to the system.

#### **OPERATING MODES.**

There are two base modes incorporated into the system, the STANDBY mode and the MAINTENANCE mode. In the STANDBY mode the unit may be started in response to an emergency start signal, or manually to exercise it on a routine basis. The MAINTENANCE mode permits routine maintenance, or repair.

a. While in the STANDBY mode the unit will accept a manually injected starting signal from a local or remote location. If the unit's entire protective system is permissive, it will start, come up to speed and build voltage automatically. Controls provided by the owner are then used to load the unit onto an energized bus. While running in this mode, both the speed/load and voltage setpoints are adjustable from either the local or remote location. Provided the generator circuit breaker is open, the unit can be stopped from either location by momentarily pressing a guarded stop button.

b. If an emergency "Start Diesel" signal is generated by the owners equipment while the unit is in the STAND-BY mode, the unit will start with only overspeed and generator differential protection permissive, and if d-c power is available. The unit will come to speed and voltage as required and a "Ready To Load" signal will be generated for use in the owner's sequencing equipment. No other protective device is functional under this condition, and control air need not be available to effect a start.

c. If the unit is undergoing its periodic "Exercise Test" at the moment a "Start Diesel" signal is received, whether it is starting, running disconnected, running loaded, tripping on a fault other than overspeed or generator differential, or coasting to a stop, the control system will cause the unit to return to its rated speed and voltage, and will disarm all protection except overspeed and generator differential. The "Ready To Load" signal will be sent to the sequencer as above.

d. While running as a result of a sequencer signal, both speed/load and automatic voltage setpoints are adjustable, either locally or remotely. Every time the engine is shut off, or given a sequencer start signal, the setpoint of the governor and the automatic setpoint of the voltage regulator are reset to normal. Fifteen seconds after going to normal, the reset signal is released to allow the operator to control voltage and speed.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



# PART D - CONTROL SYSTEM (Continued)

e. To change the unit from the STANDBY mode to the MAINTENANCE mode, the circuit breaker must be locked out. This is accomplished by turning the circuit breaker control switch to "Trip" and pulling the handle out. It will remain in this position until manually returned to "Normal". While in the "Trip/Lockout" position, the circuit breaker cannot be closed, either manually or automatically, and the "Unit In Maintenance" light is lighted. The engine may be run manually while the circuit breaker is locked out.

f. When in the MAINTENANCE mode the unit may be "Locked Off", i.e., prevented from starting. To place the unit in "Engine Lockoff", the two "Engine Lockoff" pushbuttons, one in the local engine control panel and one in the remote diesel generator panel, must be pressed simultaneously. A light in the remote panel indicates when the unit is in "Lockoff". Return to "Engine Operative" is accomplished by turning the handle of the "Engine Operative/ Lockoff" switch in the local engine panel to the "Operative" position. While in "Lockoff" the "Engine Roll" pushbutton or barring device may be engaged to rotate the engine for maintenance purposes.

g. Mode selection is accomplished so as to afford maximum protection for the plant and also for maintenance personnel. If the system is in "Engine Lockoff", only the local operator can place it back in "Engine Operable". If the unit is in the MAINTENANCE mode, simultaneous operation of pushbuttons, local and remote, is required to place the system in "Engine Lockoff". Status lights report the system's status in the remote location. Furthermore, the barring device cannot be engaged in the STANDBY mode. While in the "Engine Lockoff" position in the MAINTENANCE mode, the barring device must be disengaged and locked out in order to switch back to the engine operable state.

#### PROTECTIVE SYSTEM.

The unit's protective system is a hybrid electro-pneumatic system. Since pneumatic devices function better than other types in the diesel environment, vital shutdown functions are performed pneumatically. All faults, both alarm and shutdown, are displayed on a solid state, dual rate flashing annunciator with horn silence provisions. Handoff contacts for use with a remote annunciator or mimic display are provided. When running as a result of a sequencer start signal, even though most of the shutdown system is not able to effect a unit trip, the action of the individual tripping devices is monitored and displayed on the annunciator so that the operator will be aware when a vital device has acted. Status lamps, separate from the annunciator, are used to show the condition of the unit as it proceeds through a starting sequence. The engine starting circuits are duplicated in total, and can receive d-c power from two separate conduit entries, if desired. Further, ancillary devices are arranged so that, even if they fail to function as intended, the unit will start and generator voltage will build up. It is possible that starting air will not be shut off as intended after a start if certain devices fail, but the balanced design of the engine's air start valves will keep them closed as soon as combustion occurs.

# PANEL ELECTRICAL CONTROL (See Drawing 52189).

The local engine control panel electrical circuitry is shown in schematic form on sheets 1 of 4 through 4 of 4 on the referenced drawing.

a. Starting circuitry is shown on the left side of sheet 1. Note that there are two redundant circuits, each having a separate d-c power source. These circuits are physically spaced as far apart as possible on the panel. Solenoid valves SOL-1R, SOL-1L, SOL-2R and SOL-2L are located on the engine, and when energized admit starting air headers on the engine, and when energized admit starting air to the starting air headers on the engine. They are controlled by contacts of relays R3, R4, R6 and R7. Relays R3 and R6 are the emergency start relays, and R4 and R7 are for normal starting.

b. The redundant "Start Diesel" signal (SDS) contacts are from the owner's equipment. When either set of contacts close, an emergency start is initiated, provided SS-1 is closed (i.e., if the unit is not running at rated speed), and if pressure switch PS-7 or PS-8 is closed, indicating at least 150 psi starting air is left in the receivers. These pressure switches are present so that, if for some reason the unit does not fire (valve closed in fuel supply line, for instance), there will be enough starting air left for several manual starts.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

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# PART D - CONTROL SYSTEM (Continued)

c. Note that when relay R3 or R6 is energized, R9 or R10 is also energized. Contacts of these relays operate solenoid valves SOL-6 or SOL-7, either of which cause the shutdown system to disarm instantly except for overspeed and generator differential protection. Also, if SS-1 fails to transfer, or if the device is faulty and fails to function at all, SS-1 remains closed and the unit will start. If SS-1 fails to open at the prescribed speed, combustion pressure will close and the air start valves and engine operation is not affected.

d. For a manual start, either of the switch contacts (local or remote) are closed which causes relay R4 or R7 to energize for three seconds. The shutdown system deactivating relay is not operated. Rather, solenoid valve SOL-3 is activated by either relay which arms the shutdown system. The "Engine Operable/Lockoff" must be in the "Engine Operable" position for any of the above to take place. If it is in the "Engine Lockoff" position, the "Engine Roll" button on the local panel only is operative. If the barring device is locked out, the pressure switch shown will be closed and the unit can be turned over on starting air without starting – a useful maintenance procedure.

e. When the unit receives a start signal, either of the four start relays will latch the four run relays, R1, R1A, R1B or R1C if pressure switch PS-33 or PS-34 shows the unit not tripped. Note that a SDS will cancel trips and the pressure switches will remain latched. In the generator shunt trip circuit, relays R1 and R1A contacts are connected in series in such a manner that if either relay latches, the generator circuit breaker may be closed. The contacts are connected in parallel to allow the field to be flashed through either relay R13 or R14. As in the start circuit, SS-2 failure will not prevent field flashing. At normal voltage and/or 430 rpm engine speed, the VR-1 and/or SS-2 series contacts will open to prevent energizing time delays TD-5 or TD-4. Time delays TD-4 and TD-5 are present to reset relay R1 should the unit fail to achieve "Ready To Load" status for any reason. Once voltage is close to normal, VR-1 and VR-2 energize relays R11A and R11B, the "Ready To Load" relays. One normally open contact of each relay should be connected in parallel to the owner's sequencer so that when either closes, the power delivery cycle is initiated.

f. The three R2 relays shown are responsive to the latching of relay R1 or R1A, but there is a 20 second time delay (TD-3) before R2 latches. Contacts of R2, R2A and R2B are used to disarm various alarm functions which are normally in a fault state when the unit is stopped, starting or stopping.

#### PNEUMATIC CONTROL.

The shutdown system is a network of vent-to-fault pneumatic devices which are arranged in the various systems on the engine. The venting of such a device is sensed by the pneumatic logic circuitry. This circuitry then produces a 60 psi pressure signal which operates a cylinder on the engine to shut off fuel. This showdown signal is automatically vented after the unit has rolled to a stop, retracting the cylinder and readying the unit for a restart. Note that the sensor network is always pressurized; it is merely the shutdown signal which is inhibited in the emergency condition. This allows sensors to be electrically monitored under any condition. Upon application of starting air, several things occur directly from the air start header. The governor oil pressure is pneumatically boosted, and the stop/run valve on the engine is pressure driven to the run position. Only the overspeed trip remains active.

# LOCAL ENGINE CONTROL PANEL (See Drawing 52191).

The engine local control panel houses those control components which are not engine or remotely mounted. Access to the panel is through hinged doors in the back and removable access panels on either side. A 60 point annunciator is mounted in the upper portion of the face of the panel. Beneath this, and at eye level, are ten pressure gauges which monitor lubricating oil, fuel oil, jacket water, combustion air and starting air systems. An electronic temperature indicator with digital readout and integral linearization and cold junction compensation is used to monitor thermocouples inserted in the engine exhaust, lubricating oil and jacket water systems. Temperature alarm sensing is done in the lubricating oil and water systems.



DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF, 94621



### PART D - CONTROL SYSTEM (Continued)

- a. Status lamps are provided as follows:
  - 1. DC Control Power ON Lights if all d-c circuits are energized.
  - 2. AC Power ON.
  - 3. Unit Available For Start Lights when following conditions are met.
    - (a) DC Booster Pump in AUTO.
    - (b) Mode selector in STANDBY.
    - (c) DC power available sufficient circuits to start.
    - (d) Starting air pressure available.
    - (e) Overspeed device not tripped.
    - (f) Generator lockout relay not tripped.

4. Unit Starting - Lights when any of the four starting relays energize.

5. Unit Loaded – Lights when generator breaker closed.

6. Ready To Close Generator Breaker – Lights when voltage normal.

- 7. Test Trips Set Lights when armed and functional.
- 8. Unit Stopped Lights when fuel shut off on the engine.
- 9. Engine Lock Off Lights when mode selector is in ENGINE LOCK OFF.

b. There are three level gauges used, one to indicate fuel oil day tank level, one to indicate lubricating oil sump tank level, and one to indicate main fuel oil tank level.

c. An engine hour meter is provided which is responsive to relay R1. A tachometer is also included, reading the speed in rpm directly from the speed transmitter. A remote output is available from this transmitter by removing the burden resistor and connecting on the 4-20 MA terminals.

# Note

Since overspeed protection and generator fault tripping are the only active trips during an emergency, "two out of three" logic is not used. Overspeed shutdown is inherently safe from nuisance tripping. Generator fault tripping is derived from the owner's protective relaying.

d. De Laval engines are arranged so that the engine-driven fuel oil pump is driven from the free end of the overspeed trip drive assembly. For nuclear service, a d-c booster pump is used in parallel with the engine driven pump. If the drive fails the operator would have no indication that there is no longer overspeed protection. An annunciator is provided which senses loss of engine driven fuel pump pressure and, therefore, alerts the operator of possible loss of overspeed protection.

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# PART D - CONTROL SYSTEM (Continued)

# AUTOMATIC SAFETY SHUTDOWN SYSTEM (See Drawing 52187).

The engine/generator set is protected by an automatic system which senses certain operating conditions and, when any of these sensed parameters exceeds a pre-set trip point, an automatic shutdown sequence is initiated. During emergency operations in response to a "Emergency Start Diesel" signal, however, the engine will stop only due to an engine overspeed or a generator differential, all other shutdown sensors being disabled in this mode of operation. There are other monitored conditions that will alarm when they reach their alarm point to inform operating personnel of adverse operating conditions which, though not of sufficient gravity to cause a shutdown, nevertheless should be attended to. Shutdowns are placed into two groups, Group I shutdowns are those which must be "GO" in order for the engine to start, and Group II shutdowns are those that would be in a shut down (venting) condition until the engine is running. Lubricating oil pressure, for instance. Group II shutdowns are locked out during engine starts for a fixed time period. The Shutdown Logic Board, 1A-5907 (3) functions to provide the necessary shutdown signals to the engine and, when operating in an emergency situation, prevents the engine from shutting down while still giving panel indications of an existing shutdown condition. During a start, Port 12 of the board is momentarily pressurized which results in an output from Ports 2, 9 and 10, and 90 seconds later an output from Port 3 and a loss of output from Port 9. Ports 2 and 10 pressurize the shutdown sensor circuits. If an unsatisfactory condition should develop which would trip one of the shutdown sensors, there will be a loss of pressure at either Port 10 or Port 2, resulting in an output from Port 8. This pressure is transmitted through a shuttle valve (21) to connection E-89 to the pilot of a pressure actuated valve (13, Dwg. 52186) then through a shuttle valve to extend the shutdown cylinder (6, Dwg. 52186) which moves the fuel rack to the "No Fuel" position, shutting the engine down. A shutdown due to engine overspeed is accomplished in a different manner. Air pressure supply at 60 psi from connection E-53 is applied through an orifice (12, Dwg. 52186) to the overspeed trip valve (11, Dwg. 52186) and, as the trip valve is blocking flow, the pilot of a three-way valve (13, Dwg. 52186) is pressurized, venting the air shutoff cylinder (8, Dwg. 52186). Tripping of the overspeed trip valve will extend the air shutoff cylinders, moving the air butterfly valve in the intake air manifold. The shutdown cylinder (6, Dwg. 52186) is also extended, moving the fuel rack to the "No Fuel" position. The engine is stopped due to both fuel and air starvation. During operation in the emergency mode, solenoid valves SOL-6 and SOL-7 are energized, allowing 60 psi air to be applied to Port 7 of the Shutdown Logic Board. This blocks output from Port 8 and there will be no shutdown signal. Shutdown indications, however, will still be displayed on the control panel to inform the operator that a shutdown condition does exist. Overspeed and generator differential protection are retained, however.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



# SECTION 4

### **ENGINE OPERATION**

#### GENERAL.

If the engine is being started for the first time, remove any preservative materials that may have been applied to the control and exterior surfaces of the engine. Rust preventive which has been sprayed inside the engine will mix with the lubricating oil without causing contamination. To reduce the amount of preservative absorbed by the oil charge, however, it may be desirable to wash and clean the interior surfaces of the engine before circulating oil for the first time. Do not attempt to wash connecting rods, crankshaft or pistons as this may deposit dirt between the bearing surfaces. The following inspections and checks are recommended prior to starting the engine for the first time, or after a long shutdown or major overhaul.

a. Check bolts, nuts and capscrews, both inside and outside the engine to insure that all locking wires, clips and cotter pins are in place and secure.

b. Inspect all piping systems. Trace out each system to insure that all connections are secure and that all valves and other control devices are properly positioned for engine operation.

c. Check lubricating oil strainers and filters for cleanliness and proper assembly.

d. Check that lubricating oil and cooling water systems are clean and filled to the proper level.

e. Check starting air system for cleanliness and absence of moisture.

f. Check all control linkages for proper adjustment and freedom of movement.

g. Check crankshaft alignment (see Section 2).

h. Open indicator cocks on cylinders and bar engine over four revolutions to make sure cylinders are clean, and that engine is ready to run.

CAUTION

Any resistance to free turning must be investigated and corrected before engine is started.

With the indicator cocks open, fuel controls off, crank engine several revolutions.

j. Close indicator cocks. If all conditions for starting are satisfied, the engine may be started, using the procedures contained in subsequent paragraphs.

i.

DELAVAL ENGINE AND COMPRESSOR DIVISION 530-85TH AVENUE OAXLAND, CALIF 94621



#### DEFINITIONS.

Certain terms used in these instructions require definition to ensure that their exact meaning is understood.

a. STANDBY MODE - The "Operable" mode in which the unit will accept an "Emergency Start Diesel" signal from the owner's equipment, or a manual start signal from either the local or remote position for periodic test.

b. MAINTENANCE MODE - The routine maintenance or repair condition. Unit may be run in this mode, or prevented from starting, depending on the positioning of controls.

c. LOCKED OUT - The engine is locked out while in the MAINTENANCE mode by positioning the main circuit control switch in "Trip". Unit may be manually operated, the circuit breaker cannot

d. LOCKOFF – When the engine is in LOCKOFF, in the MAINTENANCE mode, the engine cannot be started. Simultaneous action by both the local operator and the remote location is required to place the unit in LOCKOFF. Only the local operator can place the unit back in the "Engine Operable" (STANDBY) condition.

#### PRE-START PROCEDURE.

When starting a cool engine after a shutdown, it is very important that the following procedure be carried out prior to attempting a start in the MAINTENANCE mode, or prior to placing the unit in the STANDBY (Operable) mode.

a. Ensure unit in MAINTENANCE mode.

b. Place unit in LOCKOFF.

- c. Barring device interlock locked out.
- d. Open indicator cocks on all cylinder heads.

e. Push the "Engine Roll" pushbutton on local engine control panel, allow engine to roll at least two revolutions, then release pushbutton.

f. Inspect all indicator cocks. If liquid has been ejected from any of the cocks, the source must be found and the defect corrected before proceeding.

g. Close indicator cocks.

#### MANUAL START - MAINTENANCE MODE.

The following actions must be performed by the local operator to start the unit in the MAINTENANCE mode.

- a. Ensure pre-start checks have been completed.
- b. Open all flow valves.
- c. Electrical power (a-c and d-c) ON.
- d. Control air ON.
- e. Lockoff/Operative selector in OPERATIVE.

f. Rotate keyed Manual Test Start switch to START position. As soon as the engine has fired once or twice, release switch.

DELAVAL ENGINE AND COMPPESSOR DIVISION 550-85TH AVENUE CAKLAND, CALIF. 94621



#### MANUAL STOP - MAINTENANCE MODE.

Depress "Stop" pushbutton on local control panel.

#### PLACING UNIT IN LOCKOFF.

To place the unit in Lockoff while in the MAINTENANCE mode, perform the following.

- a. Simultaneously depress the "Engine Lockoff" pushbuttons on both the local and remote panels.
- b. A light on the remote panel will show the unit in lockoff.

#### PLACING UNIT IN MAINTENANCE MODE.

Turn the main circuit breaker control switch to "Trip" and pull handle out. It will remain in this position until manually returned to "Norma!". The "Unit In Maintenance" light on the control panel should light.

#### PLACING UNIT IN OPERABLE (STANDBY) MODE.

The following must be performed to return the unit to the STANDBY (Operable) mode from the MAINTENANCE mode.

- a. Check levels of fuel oil and lubricating oil day tanks.
- b. Select fuel oil transfer pump to be used if day tank requires filling. Select either AUTO or HAND operation.



If HAND operation is selected, operator attendance is required to prevent overfilling of tank.

- c. Lubricating oil heater, jacket water heater and fuel oil standby pump in HAND or AUTO as desired.
- d. Check lubricating oil and jacket water keep warm pumps ON.
- e. Check a-c and d-c power ON.
- f. Check starting air pressure.
- g. Place Lockoff/Operative control to OPERATIVE.
- h. Place main circuit breaker control switch in NORMAL.
- i. Check "Unit Available For Start" light ON.

#### MANUAL START - STANDBY (OPERABLE) MODE.

To start the unit manually, either locally or from the remote location, while in the STANDBY mode, perform the following.

- a. Rotate keyed Manual Test Switch to START. As soon as the engine has fired once or twice, release switch.
- b. If unit's entire protective system is permissive, it will start, come up to speed and build voltage automatically.

#### Note

If an "Emergency Start Diesel" signal is received while the unit is being manually operated, whether starting, running disconnected, running loaded, tripping on a fault other than overspeed or generator differential, or coasting to a stop, the control system will cause the unit to return to its rated speed and voltage, and will disarm all protection except overspeed and generator differential.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



#### MANUAL STOP.

The unit is manually stopped by opening the main circuit breaker then depressing the "Emergency Stop" pushbutton on either the local or the remote panel.

#### EMERGENCY STOP.

Perform one of the following actions to stop the engine in an emergency situation.

- a. Open main circuit breaker and depress "Stop" pushbutton.
- b. Manually place the Stop/Run valve on the engine to STOP.

c. If none of the above procedures work, the engine may be stopped by pushing a fuel pump lever towards the engine block. This will rotate the fuel shaft and cut off pump delivery. Hold the lever until the engine stops.

#### STARTING, STOPPING AND OPERATING PRECAUTIONS.

As soon as the engine is running, all gauges should be checked for proper operating pressures and temperatures as shown in Appendix 11. If running in other than the STANDBY (Operable) mode, and in response to an "Emergency Start Diesel" signal from the owner's equipment, shut down engine and determine cause before restarting if conditions are not normal.



Use only compressed air for starting. Substitution of compressed gasses, especially oxygen, may result in a violent explosion.

DELAVAL ENGINE AND COMPRESSOR DIVISION 55C-85TH AVENUE OAKLAND, CALIF. 94621



#### **SECTION 5**

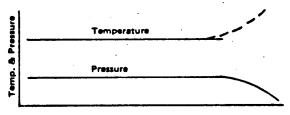
#### ENGINE MAINTENANCE

#### GENERAL.

The DELAVAL Engine and Compressor Division does not recommend the type of progressive maintenance system practiced by railroad maintenance shops, nor is any specific time interval between major overhaul or cylinder head valve reconditioning recommended. The inspection and maintenance schedules outlined in this section are intended as guides only. Experience and operating conditions will dictate the actual frequency of upkeep, overhaul and repair actions.

#### PREVENTIVE MAINTENANCE.

The following is intended as a supplement to the normal maintenance schedule which provides up to date information concerning the mechanical condition of the engine. When the following curves are maintained daily, then summarized monthly and plotted on a yearly curve, small troubles can be detected and corrected before they become major problems. The data for the curves should be taken at the same load each time. This load should be selected according to average operating conditions and be in the range of 75% to 100% of the rated load.

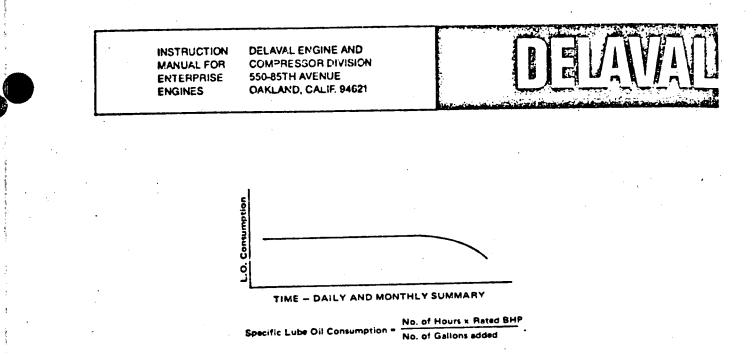




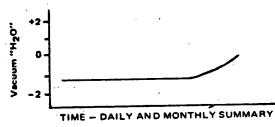
a. If lubricating oil pressure starts to fall off but the temperature holds constant, it would indicate that the bearings are starting to wear to excessive clearances, that the lubricating oil pump is wearing excessively, or that the relief value is not functioning properly. It could also indicate excessive fuel oil dilution. If the lubricating oil pressure falls off and the lubricating oil temperature increases, it might indicate that the heat exchanger equipment is plugging up.



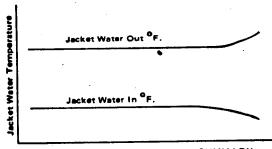
A sudden increase in lubricating oil temperature with an increase in the amount of vapor from the crankcase ventilation discharge can indicate some overheated internal part of the engine. This could signal an approaching piston seizure and a possible crankcase explosion. A sudden increase in lubricating oil temperatures requires immediate reduction or removal of the load and an investigation of the cause.



b. If the lubricating oil consumption starts to increase, it could mean that the piston oil control rings are starting to foul or have excessive wear. If this is the case, the oil is being burned and should show up in the exhaust gases as a light blue or grey smoke. It could also mean that the inlet or exhaust valve guides have worn excessively. A third possibility is a leak in the lubricating oil cooler which can be checked by looking for signs of oil in the cooling water.



c. If the crankcase vacuum starts to reduce and go towards a positive pressure, it would indicate that the compression rings on the piston have worn excessively. This can be checked by taking a set of compression cards.



TIME - DAILY AND MONTHLY SUMMARY

d. If the jacket water temperature starts to increase it could mean that the cooler is starting to foul. However, it must be remembered that the Amot thermostatic valve starts to open  $5^{\circ}$  F before the set point and is not fully open until  $10^{\circ}$  F above the set point. This means that the controlled outlet temperature can vary  $15^{\circ}$  F, depending upon ambient weather conditions. If the inlet temperature starts to drop, indicating a greater temperature differential across the engine, it could mean the following.

(1) Poor combustion.

(2) Leaky head gasket.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621 DELAVAL

- (3) Scuffed piston.
- (4) Faulty venting of the jacket water system.
- (5) Faulty water pump.

## MAINTENANCE SCHEDULES.

The daily operating report is the basis for the preparation of the weekly and monthly charts and curves, recording temperatures, pressures and other significant data. Comments and remarks which clarify any abnormal readings or conditions should be entered at the bottom of the sheet. Inspection frequency may be keyed to either calendar time or engine operating hours, and may vary for certain items due to local conditions. The following maintenance schedules are suggested for use with the preventive maintenance system.

#### a. HOURLY INSPECTION

- (1) Read all instruments carefully and record in engine log. Note any unusual change in readings, and investigate.
- (2) Walk around the engine and listen for any unusual noise. Also check for any fuel, lubricating oil, and water leaks.
- (3) Check level in lubricating oil tank, governor, turbocharger, pedestal bearing, and thrust bearing if marine.
- (4) Turn handles on all knife edge strainers at least once every eight hours.
- (5) Check lube oil filter differential pressure at least once every eight hours.

#### DAILY INSPECTION

- (1) Drain water or sludge from lubricating and fuel oil filters and strainers, and air tanks.
- (2) Oil linkage pins and shaft bearings on the governor and fuel controls.
- (3) On reversible engines, also, oil starting and reversing mechanism through holes in housing.
- (4) Plot daily engine data on Preventive Maintenance curves. Plotted data should be selected at the same engine load daily for best results.

#### c. WEEKLY (168 Hour) INSPECTION

- (1) Clean strainer screens in fuel oil and lubricating oil strainers. (Lube oil suction strainer inspection for babbitt material is a check on conrod and main bearing condition.)
- (2) Check and clean air inlet filter system as required. Visually check air inlet piping system for leaks.
- (3) Check lube oil for fuel dilution with a Viscosimeter.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621 DEVAVAL

## MONTHLY (720 Hour) INSPECTION

- (1) Remove the alternate left side door covers and examine the inside of engine for any abnormal conditions. Check with light for any babbitt flakes. If excess water or sludge is present, drain crankcase and determine cause.
- (2) Check PH factor of the cooling water and correct as recommended by chemical supplier (suggested PH 8.25 to 9.75).
- (3) Lube oil sample should be taken and sent out for analysis as to viscosity at 210° F and 100° F, T.B.N., B.S. & W. and Flash Point ° F.
- (4) Plot the summary of this month's operating data on the Preventive Maintenance curves. Note any deviation from normal and take corrective action if necessary.
- (5) When equipped with Brown Boveri Turbocharger, drain lube oil, clean, examine for any abnormal condition and refill with lube oil. See Brown Boveri Instruction Manual (Approximately 1000 hours.)

## . THREE MONTH (2190 Hour) INSPECTION

- (1) Adjust all valve clearances by the "go" and "no go" feeler gage method. Excess clearance indicates the possibility of a worn cam roller bushing.
- (2) Remove, clean, and reset fuel injector nozzles as determined by operating data.
- (3) On dual fuel and spark engine, check adjustment of gas admission timing.
- SIX MONTH (4380 Hour) INSPECTION
  - (1) Review the Preventive Maintenance curves and take necessary steps to correct the engine if so indicated.
  - (2) Check connecting rod clearance by the bump method with dial indicator. (On RV engines also check link rod clearances.) Main bearing clearances cannot be satisfactorily checked by the bump or feeler gage method. However, main bearing condition can be checked by web deflection indications, babbitt in the lube oil suction strainer (weekly inspection) and noting a drop in lube oil pressure with a B & A pump.
  - (3) Take crankshaft web deflections and record. On marine engines check Kingsbury thrust clearance.
  - (4) Check foundation for breaks in bond between the base or soleplate and the grout.
  - (5) Check foundation bolts for proper torque, after which recheck web deflections and compare with deflections taken before torquing. (See (2) above.) If retorquing is necessary see Appendix IV.
  - (6) Inspect gears, check backlash of all gears and note general appearance. Check gear lubrication oil jets for plugged or broken lines.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-55TH AVENUE OAKLAND, CALIF. 94621



(7) Inspect valve lifting mechanism. Remove cam covers, cylinder head covers and inspect cams, tappets, rollers, rocker arms, push rods, springs, valve guides; and rotators. Operation of rotators can be checked by wear on end of valve stem made by the swivel pad. Cam roller bushings can be checked by placing a pry bar under the tappet and lifting the roller off the cam to check the freeness of the roller. Excess up and down movement between the roller and pin is an indication of bushing wear and must be replaced.

- (8) On direct reversing marine engines, check for excess clearance between the reversing piston thrust hub and the camshaft gear thrust ring. Also for excess clearance in the reverse mechanism interlock pins. Excess clearance in either allows the camshaft to float fore and aft thereby damaging both cams and interlock pin cone-tips and seats. See Appendix III.
- ANNUAL (8760 Hour) INSPECTION
  - (1) Review the Preventive Maintenance curves and take necessary steps to correct the engine if so indicated.
  - (2) Inspect and clean the entire engine. Dismantle only those parts that indicate further checking is necessary.
  - (3) On turbocharged engines, remove the turbocharger, disassemble and clean thoroughly. Inspect bearings and replace if worn as per turbocharger instruction manual.
  - (4) Remove governor, drain, clean, flush-out, and refill with new lube oil. (Twice a year, if located in a humid climate.)
  - (5) Check cold compression, maximum firing pressure, and take an indicator card. If indications are such, remove cylinder head, grind valves, check valve guides, liners, and remove carbon.
  - (6) Replace worn gear if backlash between any pair of gears exceeds clearance given in table of clearances.
  - (7) Repack all glands.
  - (8) Remove all fuel injection pumps. Check to see if the racks are free and depress the plungers to see that they are free. If either the rack or plunger is not free on a pump, disassemble, clean, check for scored, worn or broken parts. Replace the necessary parts and reassemble.
  - (9) Remove end plates from heat exchangers and intercoolers. Examine and if necessary remove scale from tube bundles with a rod. Check the zinc discs and replace as required.
  - (10) On any major overhaul or problem, it is recommended that a Factory Service Man be called for engine check and personnel instruction.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

## PRESERVING ENGINE FOR SHIPMENT OR STORAGE.

The following instructions are for preserving an operable engine for shipment, storage or inactivating for an indefinite period of time.

a. COOLING SYSTEM AND WATER PUMPS – Before shutting an engine down, add a water soluble liquid such as Texaco Soluble Oil "C", to the water system and circulate for about 15 minutes, then drain. Disconnect the water line from its source and seal with a blind flange to prevent water seepage into the system. Remove engine water header and make sure all water has been removed from around the liners. Drain all water lines and when sure the system is dry, reconnect all lines and engine header to form an airtight system.

b. FUEL SYSTEM – To preserve the fuel system, disconnect the fuel line ahead of the engine fuel transfer pump and allow engine to burn about five gallons of Tectyl No. 502-C before shutting down. Cap the fuel line to the engine. Drain all fuel tanks and spray insides with Tectyl No. 502-C. Drain all other fuel lines.

c. LUBRICATING OIL SYSTEM — Using an auxiliary lubricating oil pump, circulate a mixture of 50% lubricating oil and 50% Tectyl No. 502-C, then drain. If the turbocharger has a separate lubricating air system, circulate a 50-50 mixture of lubricating oil and Tectyl No. 502-C, then drain.

d. CRANKCASE, CAM GALLERY, CYLINDER HEADS AND FUEL INJECTION PUMPS – Remove camshaft covers and spray cams, tappets, etc. with 100% Tectyl No. 502-C and replace cam covers. Remove crankcase doors and spray 100% Tectyl No. 502-C all over the inside of the crankcase then replace covers. Remove cylinder head covers and spray 100% Tectyl No. 502-C on rocker arms, etc. Remove fuel injection pumps and spray 100% Tectyl No. 502-C down on the tappet parts and up on the fuel pump cup (plunger follower) then reassemble. For all non-painted parts, such as the fuel rack shaft on the outside of the engine, Tectyl No. 502-C can be sprayed on if protection is required for only a short time, that is two or three months. Be sure the exposed parts are cleaned and dryed before spraying. This makes a good seal for such parts as heim joints. Fuel pump racks require a little grease on the edge of the pump body to prevent the compound from entering the pump body and sticking the pump racks.

e. GOVERNOR - The engine governor lubricating oil should be drained and refilled with new oil.

f. OPENINGS - Air intake and exhaust openings to the engine should be sealed with gaskets and blind flanges of the metal type. All other such openings to the engine should also be sealed with gaskets and blind flanges.

g. SHIPPING AND STORAGE — In addition to the above instructions, the engine must be stored in a building out of the weather elements. While in shipment the engine must be protected by a tarpaulin or boxed when shipped overseas.

#### SPECIFICATION FOR PROTECTIVE MATERIALS

#### MATERIAL

## MANUFACTURE Valvoline Oil Company

Freedom, Pennsylvania

Tectyl No. 502-C

Soluble Oil "C" - Use 3 to 5% mixture in the cooling water

Texaco, Inc.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



## PRESERVATION EQUIPMENT

In the foregoing instructions it is recognized that many times it is necessary to apply protective materials under difficult field conditions. A common paint brush may be used for applying preservative to accessible parts, and a hand operated pump sprayer with a pointed discharge nozzle of the type commonly used to spray insecticides may be used for inaccessible points. If desired, a small oil pump may be rigged with a motor drive to make a convenient mechanical pressure spray unit. Shop compressor air lines usually carry too much moisture to be safe for this purpose, and should not be used.

## TORQUE WRENCH TIGHTENING PROCEDURES AND VALUES

Torque figures given in this manual are based on the use of a thread lubricant composed of equal parts by volume of engine lubricating oil and Dixon Number 2 powdered medium flake graphite, or equal. They do not apply to dry threads, or to threads lubricated with "Super Lubricants." Dry thread torque readings can be as much as 50 percent in error.

#### PROCEDURE

a. Lubricate threads with oil and graphite mixture and tighten nuts hand tight.

b. Tighten all nuts by snugging the first nut, then moving to the one farthest removed and continuing in a crisscross pattern until all nuts are snug.

c. Unless otherwise specified, apply 20 percent of the required torque to each nut in the same sequence as described above, then repeat procedure for 40, 60, 80, and 100 percent of the prescribed torque value.

d. Active nuts which are locked with cotter pins must be brought to the specified torque value before attempting to align the cotter holes. If the cotter pin hole in the bolt is halfway between the slots in the nut, or beyond, the nut should be tightened to make alignment. If the cotter pin hole in the bolt is short of the halfway point the nut may be backed off to the nearest point where it will align.

#### TORQUE VALUES

See following page for torque wrench values to be used when torquing the various engine parts.

#### PRE-STRESSED STUDS

Cylinder head studs and main bearing cap studs on Model RV engines are pre-stressed when installed rather than torqued with a wrench because of their size, location and high torque requirements. This is accomplished by stretching the studs with a hydraulic tool, then tightening the stud nuts. When the tool is removed a pre-determined stress remains in the stud. For this type application pre-stressing offers certain advantages.

a. Less physical effort is required.

b. It is easier to accomplish in confined areas.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



## SECTION 6

# DISASSEMBLY, INSPECTION AND REPAIR

## PART A - GENERAL

## ROTATION AND CYLINDER DESIGNATION.

Crankshaft rotation and cylinder bank designations are determined while viewing the engine from the flywheel end. Number one cylinder on each bank is that nearest the gearcase, or auxiliary end, on the opposite end of the engine from the flywheel (see figure 6-A-1). Engines are designated as either right hand or left hand according to the side of the engine on which the controls are mounted.

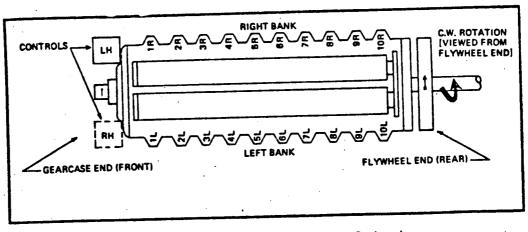


Figure 6-A-1. Engine Rotation and Cylinder Designation

#### ASSEMBLY OF PARTS.

Before starting any disassembly of the engine, observe that many parts are match-marked and identified by part or assembly number. Engine parts which have been in service should be returned to the same position in the same engine from which they were removed. This applies principally to cylinder liners, pistons, connecting rods and bearing caps. New parts should be marked in the same way as the parts which they replaced. Safety clips, cotter pins and safety wire, where specified, must be re-installed correctly to insure that the parts remain secure in use.

#### USE OF ASSEMBLY DRAWINGS.

Reference may be made to the assembly drawings in the Parts Manual to assist in the disassembly and assembly of various engine components.

### Note

Do not use the part numbers on these drawings for ordering replacement parts. The Parts Manual should always be used for this purpose.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



## PART A - GENERAL (Continued)

#### SPECIAL TOOLS.

Refer to the 590 Group Parts List in the Parts Manual for a listing of the special maintenance tools and equipment furnished with the engine.

#### CLEANLINESS.

Care must be exercised to keep dirt, grit or other debris from entering any of the lubricating oil or cooling water system as well as from the bearing surfaces of pistons, shafts, etc.

#### TORQUING.

Make reference to Section 5 for the correct method of torquing nuts and bolts, and to Appendix V for thespecified torque values.

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DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



## PART B - CYLINDER HEADS AND VALVES

#### CYLINDER HEAD REMOVAL.

Each cylinder head may be removed from the block independently of the other cylinder heads. The cylinder head has two intake and two exhaust values, together with their associated springs, wedges, retainers, etc. Value springs may be replaced with the cylinder head installed on the engine provided the piston is at top dead center to prevent the values from falling into the cylinder. To remove a cylinder head from the engine, proceed as follows.

Drain jacket water from engine.

b. Remove cylinder head cover.

c. Remove air jumpers.

d. Disconnect exhaust and intake air manifolds.

e. Disconnect fuel injection lines and nozzle drain fittings.

f. Remove rocker assemblies and push rods. Remove hydraulic valve lifters if engine is so equipped.

g. Remove fuel injection nozzles and holder assemblies.

h. Remove cylinder head sub-cover.

i. Attach lifting fixture to the fuel injection studs as shown in Figure 6-B-1. Attach an overhead hoist to the lifting ring of the fixture.

j. Remove cylinder head stud nuts and washers.

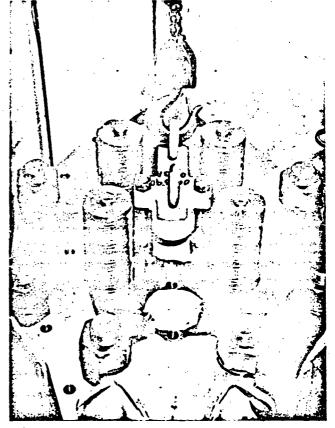


Figure 6-B-1. Cylinder Head Lifting Fixture

k. Lift head from block. If head sticks it may be necessary to take a strain on the hoist and break the head loose by striking the sides with a babbit or lead hammer.

#### **INSPECTION.**

Clean inside of combustion chamber. Bar engine over until piston is at bottom dead center and clean and inspect upper portion of cylinder bore. Clean gasket surfaces of engine block and cylinder head. Remove intake and exhaust valves. Reface and reseat as necessary, following the procedures outlined in subsequent paragraphs.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF 94621



## PART B -- CYLINDER HEADS AND VALVES (Continued)

#### VALVES.

Intake and exhaust valves are constructed of alloy steel, however, the steel alloy specifications differ. Valves may be identified by the marking "IN" for intake valves and "EX" for exhaust valves, stamped on the valve stem. The intake valves on dual fuel engines also serve as gas admission valves and are so constructed that an enlarged portion of the valve stem fits into the lower portion of the valve guide to form a gas admission valve. At the proper point of the intake valve opening stroke, gas is admitted through ports in the valve guide to mix with the intake airstream.

#### VALVE SPRING REPLACEMENT (Cylinder Head Not Removed).

Valve springs may be replaced without removing the cylinder head from the block. Remove rocker arms assemblies then bar engine over until piston of cylinder being worked on is at top dead center. Attach valve spring removal tool to the two fuel injector studs as shown in Figure 6-B-2. Make sure the nuts are rundown far enough on the studs to hold securely. Tighten nut on cross arm, making sure the cross arm is not bearing on the top of the wedges. Tighten nut until valve springs are compressed. Lift the valve by its stem and remove the two keepers from each valve. Back off on compression nut on tool, then remove tool from cylinder head. Springs may be lifted off valve stems. Spring installation is the reverse of removal.

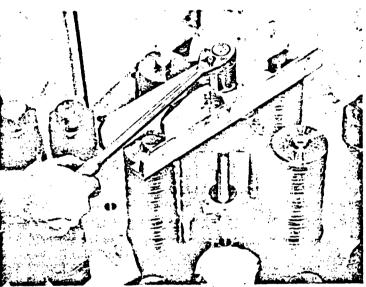


Figure 6-B-2. Valve Spring Removal Tool

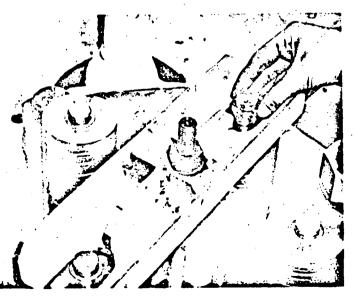


Figure 6-B-3. Removing Valve Keepers.

### VALVE REMOVAL FROM CYLINDER HEAD.

With cylinder head removed from engine, install valve spring removal tool as shown above, and remove valve springs. Remove valves from combustion side of cylinder head.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



#### PART B – CYLINDER HEADS AND VALVES (Continued)

#### VALVE INSPECTION AND RECONDITIONING.

The seating surface of valves, particularly exhaust valves, may have the appearance of pitting due to small carbon particles which may have been trapped on the seats and impressed on the metal. This condition has no effect on operation unless there is an indication of blowby, in which case the valves should be reseated. Valves may be re-faced on a standard valve re-facing machine, or on an ordinary lathe. The seating should be exactly 45 degrees. If done on a lathe with a cutting tool, be sure to use very fine feed and a sharp tool for the final cut. If a grinding wheel is used, the wheel should be dressed for exact trueness before the final grinding cut is taken. Remove just enough material to eliminate pits and to make the seat run exactly true with the stem. If the valve guide is worn, a new guide should be installed before re-facing valve seats. Re-seat head with a valve grinder. If a grinder is not available, use a 45 degree hand reamer. Face just enough for trueness and removal of pits. Limit width of valve seat to  $19/32 \stackrel{+}{=} 1/64$  inch  $(1.51 \stackrel{+}{=} 0.04 \text{ cm})$  with a 45 degree tool. If the engine is equipped with valve rotators, the rotators must be replaced whenever the valves are serviced.

#### CYLINDER HEAD INSTALLATION.

Use new seals when the cylinder head is installed on the engine block. Make sure all areas are clean and free of dirt or other foreign matter.

a. Attach lifting fixture to cylinder head and hoist head in place over cylinder head studs.

b. Carefully lower head into place, taking care not to damage stud threads or seals.

c. Lubricate cylinder head studs and nut threads with a 50-50 mixture of graphite and lubricating oil. Assemble washers and nuts on studs and run down on the threads.

d. Tighten nuts in increments, and in a criss-cross pattern, following the sequence shown in figure 6-B-4. Torque to the specified torque value. This procedure will pull the head down evenly.

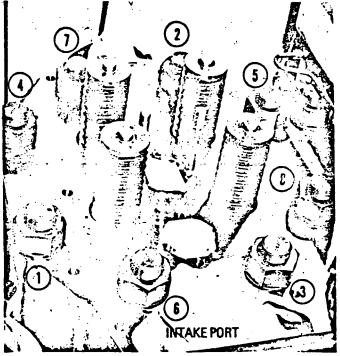


Figure 6-B-4. Tightening Sequence For Cylinder Head Stud Nuts.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE DAKLAND, CALIF, 94621

## PART B - CYLINDER HEADS AND VALVES (Continued)

#### **HYDRAULIC VALVE LIFTERS.**

If the engine is equipped with hydraulic valve lifters, the lifters are installed in both the exhaust and intake valve rocker arms, between the adjusting screw and the swivel pad. Pressure oil from the engine lubricating oil system is

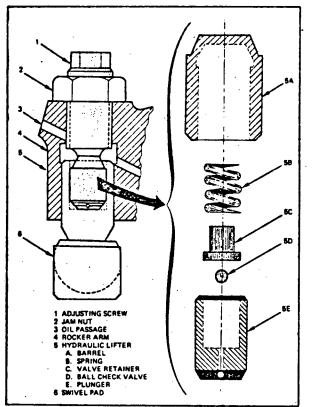


Figure 6-B-5. Hydraulic Valve Lifter

- Incorrect adjustment screw setting.
- d. Dirt in the lifter mechanism.

supplied to the lifters by means of drilled passages in the rocker arms. When the cam follower rollers are on the base circle (off the lobes) the plunger in the valve lifter assembly is extended by a combination of internal oil pressure and plunger spring force. As the valve is lifted from its seat by the rocker arm, the valve lifter plunger is forced into its barrel, increasing the spring force and slightly increasing the internal oil pressure. This causes the lifter check valve to close and trap the oil in the pressure chamber. When the cam follower roller returns to the base circle, force on the valve lifter plunger is reduced, internal oil pressure and spring force extend the plunger, the check valve comes off its seat and oil flows into the pressure chamber to replace any that was lost when the plunger was depressed.

#### VALVE LIFTER MAINTENANCE.

The valve gear should require little maintenance under normal operating conditions. Since hydraulic lifters compensate for small amounts of wear in the valve mechanism, it is not necessary to make valve adjustments as often as would be necessary with solid valve lifters. If noise should develop in the valves it is usually due to one of the following reasons.

a. Insufficient oil supply to lifters.

b. Air or air bubbles in the lifter mechanism.

e. Lacquer or varnish deposits in the valve lifter mechanism due to the lubricating oil conditions.

It is not necessary to remove the lifters from the rocker arm assemblies to perform a routine adjustment. When such an adjustment is to be made, omit the following two paragraphs and proceed directly to the paragraph on adjustment.

#### LIFTER REMOVAL AND DISASSEMBLY.

If it is necessary to remove the lifters from the rocker arms for inspection and/or cleaning, or when installing new lifter mechanisms, the following procedure should be followed.

a. Remove the adjusting screws and pull valve lifter assemblies from cavity in swivel pad with a magnetic pickup tool.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-25TH AVENUE OAKLAND, CALIF. 94621



#### PART B – CYLINDER HEADS AND VALVES (Continued)

b. Insert a soft wire in one of the plunger fill holes then slide the plunger out of the barrel, taking care not to let the ball check valve and the valve retainer drop. Remove the spring from the barrel cavity and wash all items in kerosene. Use lacquer thinner to remove lacquer and varnish deposits caused by lubricating oil conditions. Do not use grinding compound or a hard tool to clean the barrel or plunger as this may scratch the surfaces which are built to close tolerances. Wipe all parts with a clean, lint-free rag.

c. The condition of the unit may be best determined by performing a leakdown test. Specifications for a new unit require that, with the unit completely assembled and filled with kerosene, the plunger should travel 0.125 inch in one and one-half to three seconds when subjected to a 50 pound load. Plungers are not interchangeable in the barrel as the units are factory assembled for a specific leakdown rate.

#### ASSEMBLY AND INSTALLATION OF LIFTERS.

Assemble lifters in the reverse order of disassembly. Insure that all parts are clean, free of dirt or other foreign matter, and do not stick or bind. Fill and purge the assembled unit then install in the engine as follows:

a. Hold the check value off its seat by inserting a soft wire about 3/8 inch into one of the fill holes, then submerge the unit in clean SAE-10 or SAE-20 grade oil. Push in and release the plunger repeatedly until air is no longer expelled from the assembly. This will purge the unit of air and fill it with oil.

b. Remove the wire from the fill hole and remove the assembly from the oil. The plunger should extend 1/8 inch from the barrel and should not compress when pushed in by hand.

c. With the rocker arms completely assembled and installed on the cylinder except for the hydraulic valve lifter assemblies and adjusting screws (the swivel pad assembly is held in the rocker arm by a roll pin), fill the cavity of the swivel pad with clean oil.

d. Insert the value lifter into the swivel pad cavity. The rocker arm must be kept in a near horizontal position after the lifter has been inserted to keep the lifter submerged in oil. Install the adjusting screw and locknuts.

#### ADJUSTMENT.

After the lifters have been installed, or if a periodic adjustment is to be made, bar the engine over to position the cylinder being worked on at top dead center on the compression stroke and adjust lifters by one of the following methods. The first method (Method "A") involves advancing the adjusting screw until it just contacts the lifter, but does not compress it, then advancing the screw one additional turn. The alternate method (Method "B") is to completely collapse the lifter, then back off one full turn from the point where the valve just seats. Either method, if properly done, will accomplish the same thing. It must be kept in mind, however, that cold oil will increase the time required for the lifter to leak down to complete collapse when using the latter method.

#### a. METHOD "A".

(1) Hold the rocker assemblies tight against the pushrods to remove all play, then advance adjusting screw by hand until the end of the screw just contacts the lifter under it, taking up all the slack in the valve operating gear. Make sure the swivel pad rests squarely on the valve stem. Due to variations in threads, the feel of turning the adjusting screw is not sensitive enough to make an accurate determination as to when all slack has been removed, therefore, the feel for taking up the slack has to be on the pushrod or cross (intermediate) rod and the swivel pad on the adjusting screw. Lift each swivel pad by hand to make sure that all clearance is removed between the swivel pad and the valve stem.

## PART B - CYLINDER HEADS AND VALVES (Continued)

(2) Turn the adjusting screw one full turn (0.070 inch) with a wrench and tighten the locknut. This will locate the lifter plunger near the middle of its 1/8 inch travel.

b. METHOD "B".

(1) Advance adjusting screw with a wrench until the valve begins to lift off its seat, then advance adjusting screw at least two additional turns.

(2) Wait approximately ten seconds (longer if oil is cold) then back off on adjusting screw until valve seats. The point at which the valve seats may be easily felt by the reduced torque required to turn the screw.

(3) Note the position of the wrench at the point where the valve just seats, then advance screw at least one-half turn.

(4) Back out adjusting screw until valve just seats. If the position of the wrench is the same as (3) above, the lifter is fully collapsed. If not, repeat procedure until the position of the wrench is the same each time the valve seats.

(5) Back out adjusting screw one full turn from position where valve seated then tighten locknut.

c. Swivel pads should now be free to be rotated by hand. If they cannot be rotated, the adjusting screw has collapsed the lifter to the end of its 1/8 inch travel and the valve has been lifted off its seat.

d. Swivel pad clearance should be such that the pad cannot be rocked on top of its valve stem. If the swivel pad can be rocked it means that the lifter is either fully extended and not at the mid point of its travel, or that it has not been completely purged of air. This may be due to an improper adjustment caused by burrs or dirt on the adjusting screw threads, or because of incomplete purging of air from the assembly.

6-R-6

DELAVAL ENGINE AND INSTRUCTION COMPRESSOR DIVISION MANUAL FOR 550-85TH AVENUE OAKLAND, CALIF. 94621 COMPRESSORS



## PART C - PISTONS AND RODS

ENTERPRISE

#### GENERAL.

Pistons and their attached rods may be removed from the engine by lifting them straight out of the cylinder, liners. To prepare the engine for piston removal, remove the cylinder heads and the engine side doors adjacent to the pistons and rods to be pulled. If, however, it is only desired to remove or inspect the connecting rod bearings, the cylinder heads need not be removed. Follow the procedure in the next paragraph.

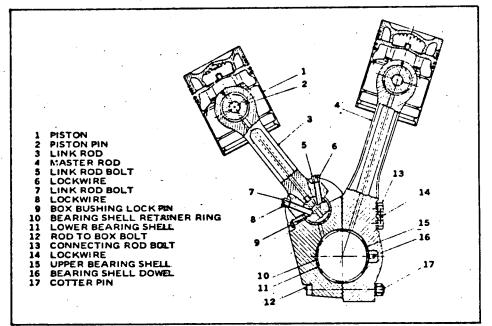


Figure 6-C-1. Pistons and Connecting Rods

#### CONNECTING ROD BEARING SHELL REPLACEMENT.

With engine side door covers adjacent to the bearing to be replaced removed, proceed as follows.

Loosen all connecting rod bolts slightly, but do not remove. a.

b. Block crankshaft to prevent further movement.

C. Install connecting rod saddle and plate on master rod side of engine. Adjust jacking screw to hold master rod in place against crankpin.

Attach chain puller bracket to side of crankd. case, then attach chain puller.

**e**. Attach chains to each end of tink pin with capscrews. Attach chain puller to chain and take up slack as necessary to hold the link rod firmly against the crankpin.

f. Place a piston holder spacer ring in the lower end of each cylinder liner, then install two jacking assemblies in each cylinder liner and bolt in place to retain the spacer rings.

Adjust locking ring assembly jasking screws a. until spacer ring is snug against skirt of piston, holding it in place in the liner.

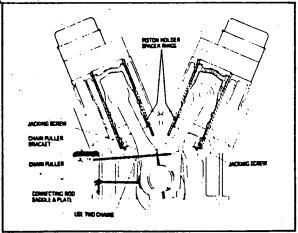


Figure 6-C-2. Bearing Replacement Tool Arrangement

6-C-1

INSTRUCTION DELAVAL ENGINE AND MANUAL FOR COMPRESSOR DIVISION ENTERPRISE 550-85TH AVENUE COMPRESSORS OAKLAND, CALIF. 94621

## PART C – PISTONS AND RODS (Continued)

h. Remove six bolts which attach link rod box to master rod. Slack off chain puller to allow link rod box to swing clear of bearing shell. Adjust locking ring assembly jacking screw as necessary to prevent binding.

i. Back off on connecting rod saddle jacking screw until master rod is clear of crankpin.

. Support lower bearing shell by hand and remove locking clips, then remove both bearing shells.

k. Inspect, clean and replace bearing shells before working on any other bearings. Only one set at a time should be removed.

I. Install bearing shells and lock in place with clips.

m. Use connecting rod saddle jacking screw to position master rod firmly against bearing shell. Locking ring assembly and jacking screws may be used to adjust vertical position of rod. It may be necessary to rotate the bearing shells slightly to help with dowel engagement.

n. Tighten chain puller and guide link rod box into engagement with the crankpin and the serrated joint of the master rod.

. Install connecting rod bolts and torque to the value specified in Appendix IV.

p. Remove all tools and blocking from engine.

#### LINK ROD AND PISTON REMOVAL.

With the cylinder heads removed and the engine side doors removed, bar engine over until master rod piston is at top dead center, then block crankshaft to prevent further movement. Refer to figure 6-C-3 for installation of the special tools that are required for piston and rod removal.

a. Attach piston pulling tool to the crown of the link rod piston.

b. Place a piece of one-half inch plywood vertically on inner side of outer cylinder head studs to prevent piston from coming into contact with studs.

c. Suspend a one-ton capacity chainfall from plant crank hook and attach hook to side lifting hole of pulling tool.

d. Attach chain puller bracket and chain puller to master rod side of crankcase.

e. Install connecting rod saddle and plate to master rod side of crankcase. Adjust to hold rod snug against crankshaft.

f. Attach a chain to each end of link pin with capscrews and connect other ends to chain puller and take up all slack in chain.

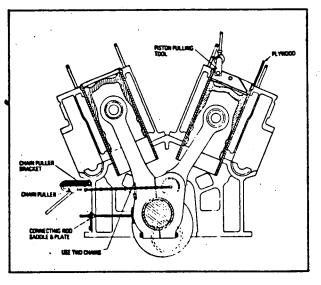


Figure 6-C-3. Tools Installed For Removing Piston and Link Rod.

RV-74

INSTRUCTION DELAVAL ENGINE AND MANUAL FOR COMPRESSOR DIVISION ENTERPRISE 550-85TH AVENUE COMPRESSORS OAKLAND, CALIF. 94621

## PART C - PISTONS AND RODS (Continued)

g. Remove six bolts (see figure 6-C-1) which hold link rod box to master rod then slack off on chain puller, allowing link rod box to swing clear of crankpin.

h. Use chain puller as necessary to position connecting rod while clearing box from crankshaft. Adjust until link rod is in line with the axis of the cylinder liner.

i. Coat walls of cylinder liner with clean lubricating oil then place a piece of 3/32-inch compressed asbestos gasket material between link rod box and liner wall to prevent box from scoring liner wall. Coat side of gasket material which contacts liner wall with clean lubricating oil.

j. Carefully hoist piston and rod out of liner with 1 ton chainfall taking care not to allow piston to bind in liner (see figure 6-C-4).

k. When bottom end of connecting rod box is clear of liner, move piston and rod clear of engine and lower to floor or a suitable stand.

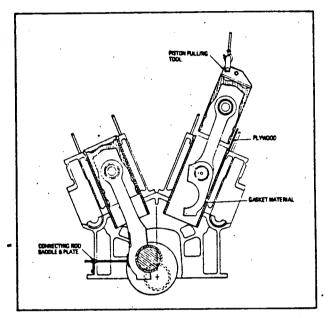


Figure 6-C-4. Lifting Piston and Link Rod From Cylinder Liner.

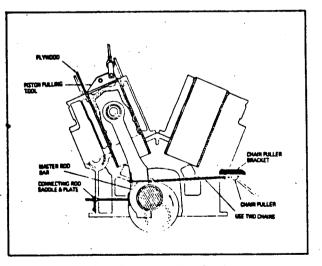
#### PISTON AND MASTER ROD REMOVAL.

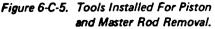
Attach special tools as shown in figure 6-C-5 and take up slack with chain puller to hold master rod in place against the crankshaft.

a. Loosen connecting rod saddle assembly then slack off on chain puller until master rod swings clear of crankshaft and is in line with the cylinder liner bore. It may be necessary to adjust the position of the piston and rod with the chainfall.

b. Rotate crankshaft approximately 30<sup>0</sup> past top center, away from master rod to permit rod to clear crankshaft journal.

c. Pull piston and rod in the same manner as piston and link rod were pulled (see figure 6-C-6).





Form E-177

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

## PART C - PISTONS AND RODS (Continued)

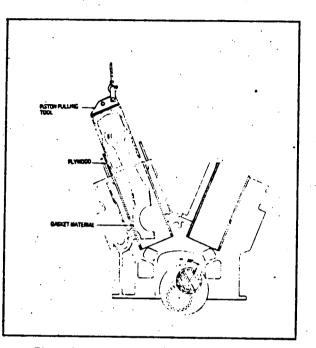


Figure 6-C-6. Lifting Master Rod and Piston From Cylinder Liner.

## REMOVAL OF A SEIZED STUD.

When it is evident that a bolt has seized in the connecting rod box, do not attempt to force it. The following procedure is recommended for the removal of a seized connecting rod bolt.

a. Position the crankshaft to place the connecting rod at its closest point to the engine side door and block the crankshaft to prevent movement.

b. Leave at least one good bolt in position to hold the master rod and connecting rod box together while the seized bolt is being removed.

c. Form a shield of asbestos gasket material around the master rod to catch molten metal and slag and prevent it from falling into the engine base.

d. Cut off the head of the siezed bolt with an oxy-acetylene cutting torch. Exercise great care not to damage the master rod with the cutting frame.

e. Clean out the slag and burned metal and remove the gasket shield.

f. Install a master rod retaining bar and plate assembly to hold the master rod firmly against the connecting rod bearing and crank journal.

g. Install the tools and fixtures necessary to remove the link rod and piston.

h. Remove the remaining bolts and carefully disengage the link rod and connecting rod box from the master rod. Carefully guide the headless bolt stud through its hole in the master rod. Allow the link rod and box to rest against the lower edge of the cylinder liner.

i. Place a shallow pan of water beneath the stub of the seized bolt to catch the molten metal and slag when the stub is cut off, then cut the stub off approximately one inch from the surface of the connecting rod box.

1. Clean the debris from the area then remove the link rod and piston assembly from the engine in the normal manner. Remove the connecting rod box from the link rod.

k. Set the connecting rod box up on a good radial drill and drill out the remainder of the seized bolt. Exercise care to drill the bolt on dead center to prevent damage to the threads in the tapped hole in the connecting rod box.

I. Try a new bolt in the hole to be sure the threads are good, and that the bolt will run free in the tapped hole.

m. Reassemble the link rod and connecting rod box and place the piston and connecting rod assembly in the engine in the normal manner. Use new locking devices when assembling the link rod to the link pin.

6-C-4

INSTRUCTION DELAVAL ENGINE AND MANUAL FOR COMPRESSOR DIVISION ENTERPRISE 550-85TH AVENUE COMPRESSORS OAKLAND, CALIF. 94621



## PART C - PISTON AND RODS (Continued)

### DISASSEMBLY.

a. With piston and rod assemblies suspended from a hoist and with the weight of the assembly resting lightly on the piston crown, remove piston pin retainer rings from grooves on ends of piston pins then slide piston pin out of piston. Lift rod assembly (or rod and box assembly) clear of piston.

b. Place link rod and connecting rod box on a suitable support and remove four link rod to pin bolts. Separate rod from box then slide link pin out of link pin bushing.

c. Remove two bearing shell retainer rings from bearing shells and carefully remove bearing shells from crankshaft journal.

#### INSPECTION.

Carefully inspect the pistons, rods, pins and bushings for wear and/or damage.

a. Inspect connecting rod bearing shells for evidence of scratches, nicks, burrs, excessive heat and wear. Clearance tables should be consulted for the required bearing shell wall thickness.

b. Inspect pistons for wear or abnormal conditions. Remove all carbon and varnish deposits from pistons and accessible areas of the ring grooves. Unless they are to be replaced, do not remove piston rings from grooves. If necessary, disassemble pistons as follows.

(1) Remove roll pin and remove four slotted nuts and spherical washers.

(2) Separate crown from skirt.

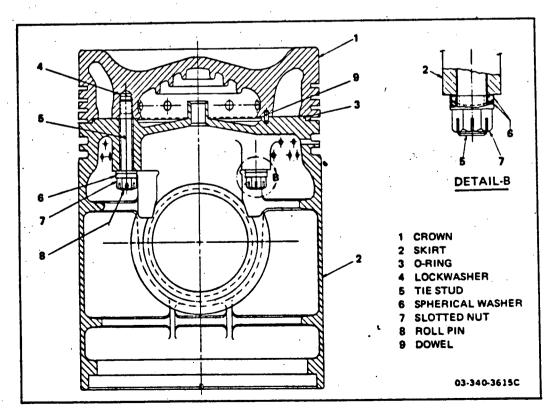


Figure 6-C-7. Piston Assembly\*

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#### PART C – PISTONS AND RODS (Continued)

(3) Clean parts thoroughly. If crown is to be replaced, place a 3/8-inch steel lockwasher in each of the four tie stud holes, making sure they are resting square in the bottom of the hole. Install four tie studs and bottom out against lockwasher in the hole. Torque studs to 215 ft-lb. Install dowel in dowel hole in crown.

(4) Assemble new O-ring on the crown, then lower skirt over the four tie studs. Correct position is determined by the dowel in the crown.

(5) Install spherical washers on studs. The convex half of the washer must be installed first, flat side against the piston skirt. The concave half is then installed with the flat side towards the nut end of the stud. See Figure 6-C-7.

(6) Assemble the slotted nuts and torque to 120-160 ft-lb. Install roll pin through each slotted nut.

#### **PISTON RING REPLACEMENT.**

If piston rings require replacement, remove and install as follows.

a. Starting with top ring, spread and slide piston rings up and off piston. Four brass strips, measuring approximately 1/32" x 1/2" x 8" may be inserted under rings to protect piston during removal and installation of rings.

b. Replace piston rings in reverse order of removal. Intermediate compression rings are marked "UP" on the upper sides. Top compression rings may be installed with either side up. The oil cutter rings must be installed with the cutting edge down.

c. Rotate the rings in the grooves so gaps are staggered around circumference of piston.

#### PISTON RING GAP AND SIDE CLEARANCES.

Piston ring gap may be measured by inserting piston ring into cylinder liner and sliding it down squarely, measuring the gap at various levels in the liner. The gap clearance should be determined at the smallest diameter, usually near the bottom of the liner. Piston ring wear is usually indicated by excessive ring gap clearance. Refer to "Appendix III" in Section 8 for correct gap clearance. If the recommended gap clearance is exceeded by 1/16-inch or more, the bore of the liner should be measured with an inside micrometer. If the bore at any point is worn more than shown in "Appendix III" the liner should be replaced. Liner wear is usually limited to the last few inches of ring travel near the top.

#### PISTON PIN BUSHING REPLACEMENT.

Use the following method to replace the piston pin bushing in the connecting rod.

a. If an arbor press is available, press the bushing from the rod, otherwise, carefully split the bushing with a hacksaw and drive it out of the rod. Remove all burrs and clean the connecting rod.

b. Place the new bushing in a suitable container such as a bucket or a deep pan.

c. Fill the container with liquid nitrogen. Nitrogen level should be approximately one inch from the top of the bushing to allow for handling.

d. Lay connecting rod on its side on a suitable support. Both ends of the piston pin bushing bore should be accessible.

6-C-6



PART C - PISTONS AND RODS (Continued)



Wear asbestos gloves when handling bushing to avoid injury to the hands.

e. When the nitrogen stops boiling, remove the bushing from the container and insert in the bore, taking care to align the oil holes with the oil passages in the connecting rod. Insure that the bushing protrudes the same distance on both ends. The operation must be done quickly before the bushing expands due to heat pickup.

#### LINK PIN BUSHING REPLACEMENT.

If the link bushing requires replacement, proceed as follows.

a. Remove the bushing lock pin, split the bushing with a hacksaw to relieve stress, then drive bushing out of connecting rod box.

b. Clean the connecting rod box, removing all burrs and rough surfaces.

c. Place new bushing in a suitable container such as a bucket or a deep pan.

d. Fill container with liquid nitrogen. Nitrogen level should be approximately one inch from the top of the bushing to allow for handling.

e. Lay the connecting rod box on its side on a suitable support. Three pieces of 1-1/2 inch rough stock, laid parallel on a piece of metal plate, will provide adequate support for the box and act as a stop for the bushing so that it will be flush with the side of the box when it is inserted.



Wear asbestos gloves when handling bushing to avoid injury to hands.

• f. When the nitrogen stops boiling, remove the bushing from the container.

g. Insert the bushing in the connecting rod box, taking care to line up the bushing cutouts with the internal surface contour of the box. Insure that both ends of the bushing are aligned with the side of the box. This must be done quickly before the bushing expands due to heat pickup.

#### PISTON AND ROD ASSEMBLY.

8.

Assemble pistons, rods and connecting rod box as follows. Make sure pistons and rods are reassembled in the same relative position as they occupied before disassembly.

Insert link rod pin in connecting rod box bore and position link rod on link pin.

b. Apply a lubricant consisting of a 50-50 mixture of powdered graphite and lubricating oil to the threads of the link-rod-to-pin bolts. Torque bolts to specified torque and secure with lockwire.

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#### PART C - PISTONS AND RODS (Continued)

c. Place piston upside down, resting on its crown. Lift connecting rod with rod turning plate then lower end of connecting rod into piston, aligning piston pin hole in rod with that of piston.

d. Insert piston pin through piston and rod. Clean piston groove and the outside end of the piston pin retainer rings and insert retainer rings into piston grooves at either end of piston pin. Apply "Locktite" to ends of retainer rings to prevent rings from rotating in the grooves.

## PISTON AND MASTER ROD INSTALLATION.

Install a piston pulling tool on piston crown then suspend piston and rod from an overhead hoist then proceed as follows.

a. Lubricate walls of cylinder liner with clean lubricating oil.

b. Install piston ring fixture on top of cylinder liner.

c. Place a piece of one-half inch plywood vertically on inner side of outer cylinder head studs.

d. Position crankshaft with crankpin approximately 30° past top center, away from master rod side.

e. Position piston and rod over cylinder liner.

f. Lubricate one side of a piece of 3/32-inch asbestos gasket material with clean lubricating oil. Wrap around lower end of connecting rod with oiled side towards liner wall.

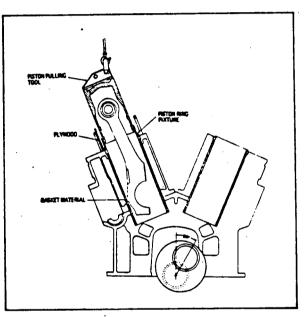


Figure 6-C-8. Piston and Rod Installation

g. Lower rod into cylinder (see figure 6-C-8). Hold piston rings in place as they enter the piston ring fixture. Insure ring gaps are staggered around circumference of piston.

h. Continue to lower piston until connecting rod bore is opposite crankpin. Remove gasket material.

i. Attach chain puller bracket, chain puller, chains and master rod bar then rotate crankshaft towards rod. By adjusting rod and crankshaft positions, bring master rod into engagement with crankpin. Make sure dowel seats in dowel hole – rotation of bearing shell may be necessary.

j. Install connecting rod saddle and plate on master rod side (see figure 6-C-5) and set to hold master rod tight against crankpin.



Do not rotate crankshaft until link rod has been assembled and bolted to master rod. Block crankshaft to prevent movement.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

# PART C - PISTONS AND RODS (Continued)

## PISTON AND LINK ROD INSTALLATION.

Use same procedure used for master rod and piston installation to install link rod, connecting rod box and piston in engine, then use the following procedure to attach connecting rod box to master rod.

Attach chain puller bracket to master rod side of crankcase and attach chains in same way as was done for removal (see figure 6-C-3) and draw connecting rod box into engagement with crankpin and master rod. Make sure serrated joints are properly engaged.

Apply graphite and lubricating oil mixture to threads of connecting rod bolts and washers and install bolts and washers and tighten bolts to the specified torque. Secure bolt heads with lockwire (see figure 6-C-1).

Install connecting rod-to-box bolts in lower holes and assemble washers and nuts that are lubricated with oil and graphite lubricant. Torque nuts as specified and insert cotter pins. C.

Remove all installation tools, brackets, fixtures and other installation equipment. d.

## CYLINDER LINERS.

The water contact type cylinder liners fit into the cylinder block. Three sealing rings are recessed in grooves at the lower end of the liner, preventing water from entering the crankcase. The silicone seal goes into the lower sealing ring groove.

## LINER REMOVAL.

Remove the cylinder head, piston and connecting rod, then disconnect lubricating lines from lower end of liner. Install liner pulling tool, Part No. 00-590-01-OV to bottom of liner and attach a chain hoist to the lifting pad on the tool. Pull liner straight out of the block. It may be necessary to use blocking and a hydraulic jack to break the liner free of the cylinder block.

## LINER INSTALLATION.

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Installation of the liner is the reverse of removal. To. prevent damage to the seals, they should be installed in the grooves after the liner has been lowered approximately two-thirds of the way into the cylinder block. Use new sealing rings and coat them with a

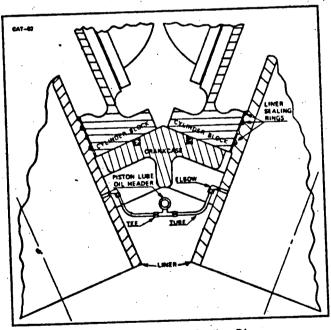


Figure 6-C-9. Liner Sealing Rings

liquid dishwashing soap, or a tire installing lubricant before installing. The bottom seal is silicone and should be handled carefully to prevent tearing or nicking. It is essential that liners be replaced in their original positions in the block and that the scribe marks on top of the liner be aligned with the mark on the block.

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## PART D - CRANKSHAFT AND BEARINGS

#### MAIN BEARINGS.

Main bearings are made of aluminum alloy, the upper and lower bearings being interchangeable. The upper shell is held in place on the bearing cap by two lock rings and socket head capscrews. Main bearings are front, intermediate and rear, the number of intermediate bearings being determined by the number of cylinders. Bearing caps are secured to the engine base by studs (see figure 6-D-1). Oil passages through the bearing cap provide for bearing shell lubrication. To prevent axial movement of the crankshaft, thrust rings are attached to the rear bearing caps, each secured with button head capscrews (see figure 6-D-2).

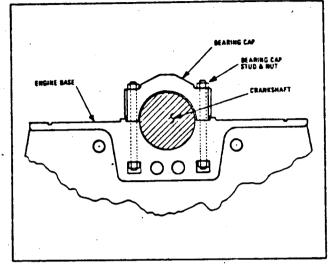
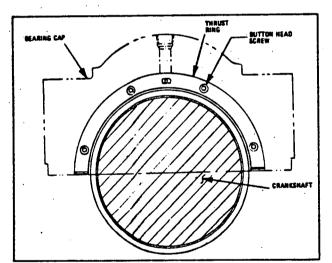


Figure 6-D-1. Main Bearing Cap





#### BEARING CAP REMOVAL.

Main bearing caps are pre-stressed by means of a special tool, normally furnished with the engine. The tool consists of a pre-stresser assembly (Part No. 1A-1801), and adapter (Part No. 00-590-01-0K) and a spacer (Part No. 00-590-01-0J).

a. Remove lubricating oil fittings, temperature sensing devices and locking plates from stud nuts.

b. Attach adapters to pre-stresser assemblies and place a spacer over each of two diagonally opposite stud nuts.

c. Use jacking screws on micrometer bar to force piston flange against top of cylinder, then back off jacking screws one-quarter inch.

d. Assemble a pre-stresser to each of the two main bearing cap studs, running them down on the stud threads until pre-stressers are snug against adapters.

e. Attach hydraulic hose between two pre-stressers, and between one pre-stresser and a suitable hydraulic pumping unit. Bleed air from system by opening pipe plug on second pre-stresser then operating pumping unit to supply a small pressure. When all air bubbles disappear, tighten pipe plug.

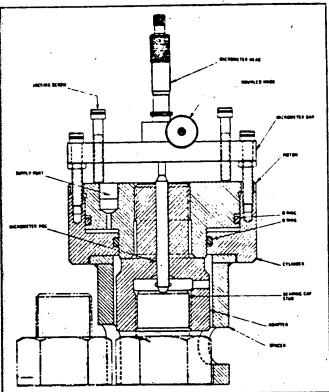
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f. Slowly apply hydraulic pressure to prestresser assemblies until bearing cap studs have stretched sufficiently to permit stud nut to be loosened. Approximately 10,500 psi pressure will be required. Use a brass drift pin through the spacer side opening to loosen nut. Do not turn nut up tight against lower face of adapter as it will bind when hydraulic pressure is released. Do not exceed maximum allowable pressure of 11,500 psi.

g. Relieve hydraulic pressure on prestressers, remove pre-stressers, spacers and adapters from stud. Remove stud nuts.

h. Repeat procedure on remaining studs, following a criss-cross pattern. Remove all stud nuts and lift bearing cap from crankshaft.



#### BEARING SHELL REPLACEMENT.

#### Figure 6-D-3. Pre-Stresser Assembly

If it is necessary to remove the main bearings, remove the two socket head capscrews and lock rings that hold the upper bearing shell to the main bearing cap and carefully remove the shell from the cap. Install a bearing shell removal tool (Part No. 00-590-01-AE) in the crankshaft journal oil hole then slowly rotate the crankshaft until the tool is bearing against the bearing shell. Slowly continue to rotate the crankshaft and roll the bearing shell out of the journal. To remove the thrust rings from the rear bearing caps, remove the button head screws and pull the thrust rings. Reverse the procedure to install thrust rings and bearing shells.

#### BEARING CAP INSTALLATION.

Install bearing cap in position in the reverse order of removal. Take care not to damage the bearing shells. The bearing cap studs are tightened as follows.

a. Install pins to lock lower stud nuts to studs, then place wedges between lower nuts and the base cavity bottom and side walls. Check that height of stud end is 11-3/16 inch above cap mounting surface to permit proper engagement with the pre-stresser assembly.

b. Lubricate threads with 50-50 mixture of oil and graphite and tighten upper stud nuts hand tight. Place spacers (Part No. 00-590-01-0K) to the pre-stresser assemblies. Use jacking screws to force piston flange tight against top of cylinder. Back off jacking screws 1/4 inch.

c. Install pre-stresser assemblies on two diagonally opposite studs and assemble the micrometer bar on the units.

6-D-2

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## PART D - CRANKSHAFT AND BEARINGS (Continued)

d. Insert micrometer head into the hole in the micrometer bar, making sure that it is fully seated. Tighten knurled knob to hold micrometer head in place.

e. Attach hoses to pre-stressers and apply pressure to bleed air.

f. Run micrometer spindle against the micrometer pin until the pin is snug against the end of the bearing cap stud. Observe and record the micrometer reading.

g. Loosen knurled knob and remove micrometer head from the micrometer bar. Insure that jacking screws on pre-stressers and backed off one-quarter inch for each stud.



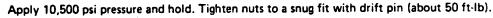
Failure to back off on micrometer spindle will result in damage to the micrometer.

h. Apply 10,500 psi pressure to pre-stressers and hold while using brass drift pin through spacer opening to tighten nut snugly (about 50 ft-lb). Relieve pressure.

#### Note

This operation is necessary to insure proper seating of parts and to minimize the effect of dirt or high spots on future readings.

i.





Do not exceed maximum allowable pressure of 11,500 psi.

j. Relieve hydraulic pressure and install micrometer head in the micrometer bar. Run spindle snug against micrometer pin and record reading. Subtract the first reading from this reading. This is the amount the stud has stretched. Stud should stretch 0.056"-0.051". Repeat operation if stretch is not within specified range.

k. Remove pre-stresser assemblies and repeat operation on next pair of diagonally opposite studs.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF, 94621



## PART E - CAMS, CAMSHAFTS AND BEARINGS

#### GENERAL.

The induction hardened steel cams are shrink fit on the precision ground camshaft, using hydraulic expansion of the cam bore to position them on the camshaft. Camshaft bearings are aluminum alloy and are pressure lubricated. Cams, camshafts and associated operating gear should be checked periodically for wear and/or damage.

#### CAMSHAFT BEARING REPLACEMENT.

Should it be necessary to inspect and replace camshaft bearings, do the following.

- a. Remove covers over camshaft.
- b. Disconnect lubricating oil line from bearing cap.
- c. Remove bearing cap, lock rings and upper bearing shell, then roll lower bearing shell out of its saddle.
- d. Inspect bearings for evidence of damage or wear. Refer to Appendix III for permissible wear limits.
- e. Installation is the reverse of removal.

#### CAM REPLACEMENT.

Cams are positioned on the camshaft at the factory by hydraulically expanding the cam bore and sliding the cam into position on the shaft. If it ever becomes necessary to remove and replace cams in the field, the following procedure is recommended.

a. Cams are located on the camshaft by scribe marks on the cams and the camshaft, placed there during manufacture. Circumferential marks locate the cams longitudinally on the camshaft, and longitudinal marks locate the cams circumferentially. Cams have a radial scribe mark on the side of the cam which passes through the center of the hole in the side of the cam.

b. Make a sketch of the camshaft assembly, indicating the location of the cams and the distance between each. Make sure the camshaft and all cams are scribed.

c. Clean the camshaft and place on Vee blocks on top of a clean workbench. Make sure all burrs, dents and other irregularities are reduced to the common diameter of the camshaft. Irregularities will prevent removal of the cams.

d. Obtain a hydraulic pump unit, such as a "Porto-Power", complete with a hose and fittings, and a pressure gauge capable to reading up to 20,000 psig.

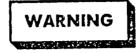
e. Remove camshaft gear from camshaft, then connect hydraulic unit to the first thrust ring. Raise pressure to approximately 2000 psig and slide thrust collary off camshaft. Repeat procedure to remove other thrust ring.

f. Connect hydraulic unit to first cam nearest the tapered end of camshaft. Apply approximately 16,000 psig pressure (or pressure that will allow the cam to slide on the camshaft) and move the cam towards the drive end of the shaft.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



PART E - CAMS, CAMSHAFTS AND BEARINGS (Continued)



The camshaft has a taper near the drive end which serves as a starting ramp when installing the cams. As the cams reach the taper there is a strong tendency for them to shoot off the shaft with considerable velocity. Arrange a stop plate at the end of the shaft to keep the cams from shooting off the camshaft.

g. Remove all cams in order.

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h. Wash and dry the camshaft and the replacement cams. Check that scribe marks are clean, sharp and clearly visible. Lay cams out on a clean surface in the correct sequence and orientation for installation. Refer to the sketch and make sure the cams are facing in the proper direction.

i. Choose the carn which will be farthest from the drive end of the carnshaft and slide it up on the starting ramp as far as it will go.

j. Attach the hydraulic unit to the cam and start raising the pressure. A vigorous effort will be required to move the cam up the starting ramp to the straight part of the shaft. Approximately 16,000 psig pressure will be required.

k. Move the carn to its correct location on the shaft. Align the edge of the carn bore with the circumferential scribe mark and align the radial (longitudinal) scribe mark on the shaft with the mark on the carn. Release the hydraulic pressure when the carn is correctly aligned.

6-E-2

I. Install and position the remaining cams in order, then replace the thrust rings.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



# PART E - CAMS, CAMSHAFTS AND BEARINGS (Continued)

#### TIMING GEARS.

Timing gears are enclosed in the gearcase, and are lubricated by jets of oil. Gearcase covers should be removed periodically, and the gears inspected for wear and for backlash. Refer to Appendix III for backlash clearances. If the prescribed backlash clearance is exceeded by 0.006 inch, or if damage is discovered, perform the following disassembly steps to the degree necessary to accomplish the required inspection and repair. Accessories are doweled at assembly. If it is necessary to remove a dowel to reposition an accessory, drill and ream another dowel hole of the proper size in the accessory mounting flange and in the gearcase.

a. Remove the governor, overspeed trip, pumps and other accessories which would interfere with gearcase removal. As the pumps are removed, cover the shaft, drive gears and openings in the pump housing to exclude dirt and to prevent damage. Cover the open ends of connecting pipes and tubing.

b. Remove gearcase from engine. The gearcase is heavy and difficult to handle, therefore, rigging must be done very carefully to insure that it is under control at all times.

(1) Rig chainfalls and slings for handling gearcase.

(2) Remove bolts and capscrews, then lift gearcase from engine. Do not let it drop or swing. Set aside, secured in such a manner that it cannot fall.

c. Remove the governor drive assembly, and the overspeed trip and fuel booster pump drive assembly.

d. Insure that the crankshaft, camshaft and idler gears are match-marked for proper positioning at reassembly. If a new gear is to be installed, check both cylinder banks to insure that the number one fuel injection pumps are correctly timed. Fuel injection pump timing marks will serve as a reference point when reinstalling the gears.

e. Remove idler gear and bracket assemblies.

(1) Rig a small chainfall and wire rope sling to lift the idler gear and bracket assembly from the engine.

(2) Straighten locking clips. Remove top bracket retaining capscrew and replace with a long capscrew to serve as a guide and safety device while removing the gear and bracket assembly.

(3) Remove remaining capscrews and take a strain on the chainfall.

(4) Carefully pry bracket assembly free of the aligning dowels at the top and bottom of the bracket.

(5) Slide gear teeth clear of other gears, taking care not to damage any teeth.

(6) Remove long guide capscrew, and move bracket assembly clear of engine.

f. Remove camshaft gear assemblies.

(1) Remove cotter pins from camshaft gear hub retaining nut. A gear puller may be needed to start the gear hub off the shaft. The gear assembly will usually jump when it breaks free of the taper. If the initial movement is too great the ram effect may cause displacement of camshaft collars or upset thrust clearance. To prevent this, loosen hub retaining nut only far enough to limit this initial movement to 1/16 inch.

6-E-3

## PART E - CAMS, CAMSHAFTS AND BEARINGS (Continued)

(2) If the gear assembly will not come loose with a gear puller, use an oxy-acetylene torch and quickly apply heat to expand the hub. Protect the front camshaft bearing from the torch flame. *Do not overheat.* 

(3) Remove camshaft gear hub retaining nut and slide gear off shaft.

g. Remove camshaft gear.

(1) Protect the front main bearing with a wet asbestos heat dam.

(2) Make two 3/4-inch diameter handling rods, 24 inches long with 3/4-10 threads at one end, and screw rods into the two tapped holes in the gear.

(3) Use two "Rosebud" type heating torches to quickly heat the gear until it can be slipped off the crankshaft with the handling rods. Be sure the exposed end of the crankshaft is clean and free of burrs.

#### INSPECTION.

Inspect gears for broken teeth, or other damage. If gears are damaged, inspect camshaft with dial indicator to determine if shaft is bent.

a. Clean camshaft tapers and check fit of drive keys in hubs.

b. Clean gear seat area of crankshaft.

c. If it is necessary to remove the idler gear from the bracket, cut the safety wire and remove the four bolts that hold the idler gear stub shaft in the bracket. Remove the stub shaft then carefully slide the gear out of the bracket. When reassembling the idler gear in the bracket take care not to damage the bushings or the gear teeth.

#### ASSEMBLY.

a. Install camshaft gear.

(1) Lubricate camshaft taper with white lead and lubricating oil. If a new gear hub is being installed, fit a new key in the key slot.

(2) If a new gear and hub are being installed, position the slotted holes in the hub over the drilled holes in the gear. Install camshaft gear to hub bolts, washers and nuts. Tighten to hold gear and hub together.

(3) Using a chainfall and sling, lift gear assembly into position and slide onto camshaft taper. Assemble washer and nut, tighten, and install cotter pin.

b. Install crankshaft gear.

(1) Heat camshaft gear to 350° F in hot oil. Do not overheat.

(2) Screw two handling rods into tapped holes in gear. Lift gear out of the oil with rods, and with one smooth, continuous motion, position heated gear against the shoulder. This must be done quickly before the gear cools. Allow gear to cool, then proceed.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

PART E - CAMS, CAMSHAFTS AND BEARINGS (Continued)

(3) Set the flywheel to the left bank fuel injection point (see Engine Data Sheet in front of manual).

(4) Set the left bank camshaft so that number one fuel injection pump timing marks are matched.

c. Install idler gear and bracket assembly.

(1) Camshaft, idler and crankshaft bears are match-marked at the factory. If the original gears are being replaced, install and align gears with these marks. If a new gear is being installed, the following procedures must be used to insure correct camshaft timing and engine firing order.

(2) Lift the gear and bracket assembly into position with a chainfall and suitable sling. Align with matchmarks (if present) and mesh teeth. The camshaft bear may be moved part of a tooth to allow gears to mesh.

(3) Install a long capscrew through the top bracket mounting hole to serve as a guide. Seat bracket on engine block and install all capscrews.

(4) Rotate flywheel in the direction of normal engine rotation to the right bank fuel injection point. (See Engine Data Sheet in front of manual or engine nameplate).

(5) Set right bank camshaft with number one fuel injection pump timing marks matched.

(6) Lift right idler gear and bracket assembly into place and install capscrews. The camshaft gear may be moved part of a tooth to allow the three gears to mesh.

Adjust backlash clearance between gears.

(1) Make four brass shims, 0.010 inch thick by one-half inch wide and six inches long. Insert shims between crankshaft gear and idler gears, and between idler gears and camshaft gears.

(2) Loosen capscrews holding idler gear bracket to engine block, and lift idler gear assemblies until shims are held tight between gear teeth. This will establish the required backlash between each gear. Tighten idler gear retaining capscrews on each idler assembly.

(3) Rotate the flywheel and check backlash clearance in at least four places around each gear. Refer to the Table of Clearances. If backlash is within tolerances, tighten all idler assembly retaining capscrew to torque values shown in Appendix IV. Remove shims.

(4) Drill and ream two holes in each idler bracket, install No. 108-2 dowels in holes, and stake in place.

#### CAMSHAFT TIMING.

d.

The camshafts of four-valve head model engines must be timed to the engine crankshaft by the fuel injection pump tappet lift method only. These camshafts are equipped with hydraulically expanded keyless cams and cannot be timed by the cam key method. Failure to observe the proper camshaft timing sequence can result in an altered firing order and an incorrectly operating engine.

a. Remove number one fuel injection pump on master rod bank.

b. Bar the flywheel over until the tappet roller for number one fuel injection pump, master rod bank, is on the base circle of its cam.

DELAVAL ENGINE AND COMPRESSOF DIVISION 550-85TH AVENUE DAKLAND, CALIF, 94621

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# PART E - CAMS, CAMSHAFTS AND BEARINGS (Continued)

c. Set up a one-inch travel dial indicator on the pump base for number one fuel injection pump with the spindle of the indicator bearing on top of the tappet pin for number one fuel tappet, master rod bank, and zero the indicator.

d. Bar the flywheel in the direction of normal rotation until the tappet roller for number one fuel injection pump starts up the lifting ramp of its cam.

e. Continue barring the flywheel until the degree mark for fuel injection for number one master rod bank is directly in line with the flywheel pointer. This degree mark is shown on the Engine Data Sheet in front of the manual, and on the engine nameplate.

f. Observe the dial indicator to determine the lift of the fuel tappet at this point. Lift should be 0.197 inch. If lift is other than 0.197 inch, camshaft timing must be corrected.

(1) Loosen two fitted bolts that fasten camshaft ring gear to gear hub.

(2) Loosen remaining four bolts and rotate camshaft gear within ring gear to raise or lower the tappet as necessary.

(3) If there is not enough travel in the slotted holes in the gear hub to allow the required correction, it will be necessary to lift the gear end of the camshaft until the cam gear teeth disengage from the idler gear teeth, and slip the mesh one or more teeth as judged necessary. Re-engage the teeth of the cam gear and idler.

(4) Observe dial indicator to find tappet lift after correction. Make final correction by rotating the camshaft gear hub within ring gear.

(5) When correct tappet lift is obtained, lock up the four bolts in the slotted holes and drill and ream for two fitted bolts. New holes for fitted bolts should be moved approximately one inch from the original holes.

(6) Torque six bolts that fasten ring gear to hub to a torque value of 70 ft-lb, plus or minus 20 ft-lb as required to align cotter pin holes. Tighten and lock camshaft bearing cap bolts if they were loosened to slip gear tooth mesh.

g. Replace number one fuel injection pump, master rod bank.

h. Bar flywheel to place fuel injection timing point for number one, master rod bank, directly under flywheel pointer.

i. Remove number one, link rod bank fuel injection pump. Set up dial indicator in same manner as was done for master rod bank.

j. Bar the flywheel in the direction of normal rotation approximately 315 degrees to position the degree mark for fuel injection for number one, link rod bank cylinder directly in line with the flywheel pointer. Refer to Engine Data Sheet or engine nameplate for the correct degree mark. This will place the timing and firing order of the master rod bank and the link rod bank in the correct relationship.

k. Time the number one, link rod bank fuel injection pump in the same manner as used to time the master rod bank pump.

I. When both banks are timed, recheck fuel injection pump timing and cylinder head valve lash for both banks.

6 6

MANUAL FOR ENTERPRISE ENGINES

INSTRUCTION

DELAVAL ENGINE AND COMFRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF, 94621

# DELAVAI

#### PART F - FUEL SYSTEM

#### FUEL INJECTION EQUIPMENT.

Each cylinder is fitted with an individual fuel injection pump and nozzle. The fuel supply to the pumps is from a common header, and a separate high pressure line connects each pump to its respective nozzle. As was stated in Section 2, fuel injection equipment is built to extremely close tolerances and, therefore, requires a great deal of care when being worked on to avoid damage to the parts. Only trained fuel injection equipment mechanics should be allowed to perform this work.

#### FUEL INJECTION NOZZLES.

Because nozzles and tips are subjected to extremes in pressure and temperature, they normally are the first source of engine trouble. A nozzle in good condition must pop open at the proper pressure without dribble, then close completely almost immediately. When subjected to a steady pressure at the opening pressure, it should "chatter", that is, open and close rapidly. The spray form should be a uniform, finely atomized mist pattern, never a solid stream. If the fuel nozzle is suspected of malfunctioning, remove from engine and test as follows.

a. Disconnect high pressure line and drain connections.

b. Remove nuts from injector studs and remove nozzle retainer.

c. Lift or pry the nozzle holder assembly from the cylinder head.

d. Close opening in cylinder head to prevent dirt or other foreign matter from entering the combustion chamber.

e. Test the nozzle holder and tip assembly on a suitable nozzle tester, checking for the following.

(1) Apply pressure and check nozzle valve for popping action. The valve should chatter if it is seating properly.

(2) Raise pressure slowly to determine pressure at which valve opens. The valve should open at 3000 psi (211 kg-cm<sup>2</sup>) pressure. The opening pressure is adjusted by means of shims in the valve assembly, requiring disassembly of the unit. See figure 6-F-1 and "Nozzle Adjustment" instructions.

(3) Dry off spray tip and raise pressure to within 100 psi of the opening pressure and observe tip for dribbling of fuel.

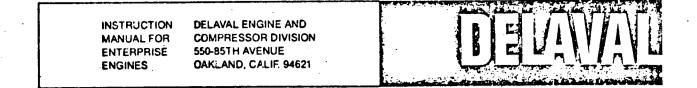
(4) Check to see if any spray tip holes are plugged.

(5) Place a clean piece of paper under nozzle tip and check spray pattern for uniform density and a symmetrical pattern.

(6) Nozzles that fail to perform satisfactorily should be repaired or replaced. Refer to manufacturer's instructions in the Associated Publications Manual for overhaul instructions.



The penetrating power of atomized fuel under high pressure is sufficient to puncture the skin and serious injury can result. To avoid this danger, the hands must be kept away from a spraying nozzle.



#### PART F - FUEL SYSTEM (Continued)

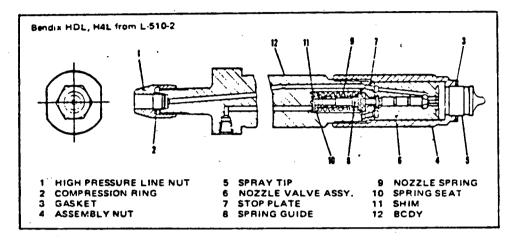


Figure 6-F-1. Sectional View of Typical Nozzle and Holder Assembly

#### NOZZLE ADJUSTMENT (See Figure 6-F-1).

Nozzle opening pressure is adjusted by means of shims (11), located between the body (12) and the spring seat (10). If the opening pressure does not conform to 3000 psi (211 kg-cm<sup>2</sup>), adjust as follows.

a. Install nozzle and holder assembly on a pop tester then rapidly actuate pop tester handle four to six times to allow needle to seat properly. Pump the pressure up to the point where the pressure gauge needle falls away quickly. This point is the nozzle opening pressure.

b. If pressure is not correct, do the following.

(1) Disassemble the holder.

(2) Add shims if opening pressure is too low, or remove shims if opening pressure is too high.

(3) Reassemble and check opening pressure. If fuel leaks around the assembly nut, it indicates poor lapped fits. Re-examine the parts.

(4) Always use a new gasket (3) when installing nozzle and holder assembly on engine.

#### FUEL INJECTION PUMPS.

The fuel injection pumps are of the constant stroke, variable output type. Equally important with clean, properly adjusted fuel nozzles are clean, properly adjusted and timed fuel injection pumps. Refer to the manufacturer's instructions in the Associated Publications Manual for complete details of the fuel injection pump installed on this engine.



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DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF, 94621

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#### PART F - FUEL SYSTEM (Continued)

#### DESCRIPTION OF OPERATION.

The following is a general discussion of the operation of the fuel injection pumps.

a. The pumps are of the constant stroke design, but the effective stroke, or that portion of the plunger movement in which fuel is actually delivered, is governed by a fuel metering helix in the plunger (see figure 6-F-2). On some pumps there is a second helix to retard the point of delivery at low fuel settings.

b. To pump fuel at high pressure it is necessary to bring it into a pressure chamber through an inlet, close the inlet and apply pressure for injection, terminate injection pressure and re-open the inlet to admit more fuel. The fuel injection cycle is accomplished by the location of inlet

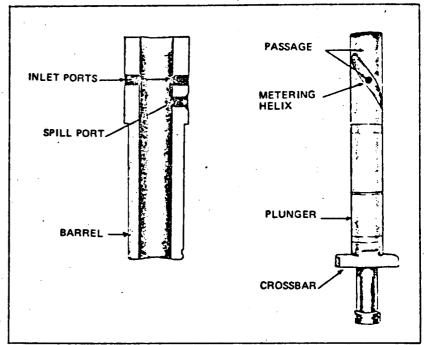


Figure 6-F-2. Pump Plunger and Barrel Arrangement

and spill ports in the barrel. It is further accomplished by the metering helix and a passage in the plunger that extends from the end of the plunger to the metering helix on the side of the plunger. This passage allows fuel in the pressure chamber to spill into the inlet chamber when the helix uncovers the spill port.

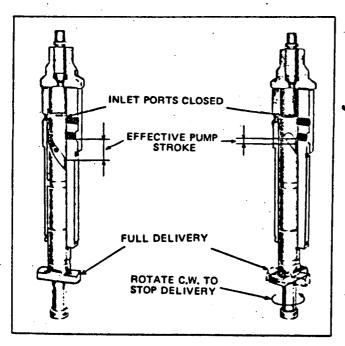


Figure 6-F-3. Effective Stroke

c. When the plunger is at its lowest point, fuel enters the barrel through the inlet port. As the plunger rises, it closes off the inlet port, pressure starts to rise and the delivery valve opens. Fuel injection continues until the upper edge of the metering helix reaches the lower edge of the spill port. Pressure is then release through the passage in the plunger to the spill port and delivery stops. The delivery valve closes. The effective stroke is the distance between the upper edge of the helix and the lower edge of the spill port at the moment the inlet port closes. The rotation of the plunger and its helix, then, determines the duration of fuel injection.



DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



#### PART F - FUEL SYSTEM (Continued)

#### MALFUNCTIONING PUMP.

Should a fuel pump be suspected of malfunctioning, the following checks should be made before removing the pump from the engine for inspection and repair, unless it is known for certain that the pump is defective.

a. Check to insure that fuel oil is being delivered to the pump. With the fuel oil system pressurized, loosen air bleed screw on pump. Fuel should flow freely with complete absence of air bubbles.

b. If air is present in fuel oil, loosen nuts on high pressure line connection at nozzle holder end and bar engine over until all bubbles disappear.

c. If fuel oil flow is sluggish at the pump, it is a good indication that the fuel filters are clogged. Check and clean filter.

d. If fuel oil does not flow, check fuel level in tank and for closed valves in lines.

e. Having made certain of fuel oil flow, operate engine and if pump still does not function properly, remove and replace with spare pump.

#### PUMP REMOVAL.

Fuel injection pumps are removed from the engine as follows.

- a. Disconnect high pressure line fitting and remove high pressure line from pump.
- b. Disconnect supply and return lines from fuel pump.
- c. Disconnect fuel control rack from linkage.
- d. Remove hold down nuts and lift pump off mounting studs.

#### PUMP DISASSEMBLY.

The manufacturer's instructions contained in the Associated Publications Manual provide detailed instructions for the overhaul and repair of fuel injection equipment, and should be consulted when any work is being done on fuel injection pumps. Pumps may be disassembled as follows.

a. Secure pump in the inverted position in a soft jawed vise. Depress the plunger follower and insert a 1/8 inch diameter pin in the hole in the pump flange.

b. Remove lock ring by prying it out with a screwdriver. Again depress follower and remove 1/8 inch pin.

c. Remove plunger follower. Take lower spring seat from plunger, then carefully remove plunger from barrel. Carefully submerge plunger in spindle oil.

d. Remove plunger spring, then pull control sleeve using a specially fabricated puller, or a pair of pliars whose jaws are wrapped with masking tape. The upper spring plate will come out with the control sleeve.

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## PART F - FUEL SYSTEM (Continued)

e. Remove pump from vise and re-secure in an upright position.

- f. Remove delivery valve flange and delivery valve holder. Remove and discard preformed packing.
- g. Remove delivery valve stop and spring, then, using a delivery valve puller, carefully remove delivery valve.

h. Remove barrel locating screw then slide barrel from housing.

i. Remove control rack locating screw and control rack. Do not remove timing indicator or shims unless pump is to be re-calibrated.

#### PUMP ASSEMBLY.

Assemble the pump as follows, observing the manufacturer's instructions in the Associated Publications Manual.

a. Secure pump housing in a vise in an upright position.

b. Position control rack in housing with teeth facing center of pump. Install lockwasher and control rack locating screw, making sure the screw enters the rack locating groove.

c. Insert barrel in pump housing. Locating groove must be aligned with locating screw hole. Install lockwasher and locating screw.

d. Invert pump and install control sleeve so that tooth directly under timing mark meshes between two teeth indicated by timing dot on control rack.

e. Install upper spring plate and plunger spring then carefully start plunger into barrel. It should settle in of its own weight. Turn plunger so marked end of crossbar will go into control sleeve slot that has a mark adjacent to it.

f. Position lower spring plate on end of plunger. Fit plunger follower into housing. Compress and insert pin in housing flange. Install lock ring and remove pin.

g. Install delivery valve assembly in pump housing. Lubricate and install preformed packing and install delivery valve stop. Assemble flange in housing.

h. Install pressure screw and new copper gasket. Install bleed screw and new gasket.

i. After pump is completely assembled, hold it horizontally with the control rack vertical. The rack should settle to its lower extreme by its own weight.

j. If pump will not be immediately installed, fill inlet and outlet with clean, anti-corrosive lubricating oil and close openings with caps.

DELAVAL ENGINE AND INSTRUCTION COMPRESSOR DIVISION MANUAL FOR ENTERPRISE 550-85TH AVENUE OAKLAND, CALIF. 94621

#### PART F - FUEL SYSTEM (Continued)

ENGINES

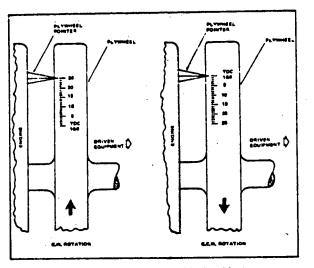


Figure 6-F-4. Flywheel Timing Marks

#### PUMP INSTALLATION AND TIMING.

Refer to the Engine Data Sheet in the front of the manual, and to page 6-A-1 for determination of engine rotation, bank designation (V-type engines) and cylinder numbering. The flywheel is marked to locate top dead center (TDC) of each cylinder, and is laid out in one degree increments for the twenty-five crankshaft degrees preceeding TDC (see figure 6-F-4). For instance, on a six cylinder inline engine, there will be marks "TDC 1&6", "TDC 2&5" and "TDC 3&4", each preceeded by degree marks. On eight cylinder inline engines the markings will be for cylinder pairs 1&8, 2&7, 3&6 and 485. Markings on the flywheel for V-type engines follow the same pattern, except that the banks are also designated. Refer to the Engine Data Sheet in the front of the manual for the fuel injection point. Install and time fuel pumps as follows.

Before mounting pump on engine, and with the fuel tappet roller on the base circle of the fuel cam (see figure 6-F-5), measure distance from the fuel pump mounting surface on the base assembly to the tappet with a depth micrometer. Add or remove shims from the top of the base assembly to obtain a measurement of approximately 0.197 inch.

Place pump on base assembly and install nuts on studs. Torque nuts as specified in Appendix IV. b.

Bar engine over in the direction of normal rotation C. until the flywheel pointer is aligned with the fuel injection point (degrees BTDC specified on Engine Data Sheet) for the cylinder served by the fuel pump being installed.

Observe plunger follower timing mark in pump timing d. window. If the plunger follower timing mark does not line up. with the index mark on the timing window, remove pump and add or remove shims between the pump and the pump base assembly as necessary so that the marks will line up. Re-install the pump and bar engine through one complete injection cycle to insure that marks do align at the fuel injection point.

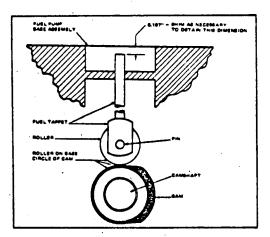


Figure 6-F-5. Pump Base To Tappet Adjustment.



The timing mark on the plunger follower must never go beyond the upper or lower edge of the timing window. If it does, the pump may be severely damaged.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

#### PART G - ENGINE CONTROLS

#### OVERSPEED TRIP (See Figure 6-G-1).

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A Woodward Model SG overspeed trip governor is mounted on the gearcase end of the engine. At a pre-set engine speed (10% above rated speed) it will initiate positive engine shutdown by tripping a dump valve which vents the automatic safety shutdown system. Operation of the overspeed trip governor is as follows.

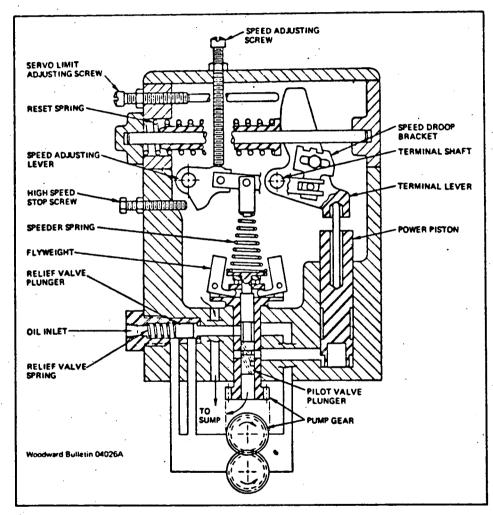


Figure 6-G-1. Overspeed Trip Governor

a. Oil enters the overspeed trip at the oil inlet, drops down into the cavity on the suction side of the pump gears, then around to the pressure side of the pump. If the supply of pressure oil is greater than required, the pump builds up pressure until the relief valve plunger is pushed to the left against the force of the relief valve spring. This uncovers the bypass hole in the relief valve sleeve and oil is recirculated through the pump. If the overspeed trip requires more oil than is being recirculated, pressure will be reduced and the spring will move the relief valve to the right, blocking the recirculating passage to maintain operating pressure. Additional oil, as needed, will enter the pump through the inlet port.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



#### PART G - ENGINE CONTROLS (Continued)

b. The pilot valve plunger controls the movement of the power piston by directing oil to or from the area beneath the power piston. The power piston in turn controls the position of the terminal lever, and, therefore, the position of the terminal shaft. Two opposing forces act upon the pilot valve plunger - the speeder spring force tends to push the plunger down and the centrifugal force developed by the rotating flyweights tends to lift the plunger.

c. When the engine is operating below the trip set point the speeder spring force holds the pilot valve plunger down and connects the oil under the power piston to drain. The reset spring, pushing the reset rod against the terminal lever, holds the power piston down.

d. If engine speed rises above tripping speed the centrifugal force of the flyweights overcomes the speeder spring force and lifts the pilot valve plunger. As the plunger rises, pressure oil flows to the underside of the power piston, forcing the piston up. As the terminal lever is rotated by the upward movement of the power piston, the pin in the speed droop bracket raises the right end of the floating lever. This decreases the downward force of the speeder spring and the flyweights move to their extreme out position. The power piston then moves to the top of its stroke, as allowed by the terminal lever, which rotates the terminal shaft. The external lever on the terminal shaft then actuates the trip valve.

e. When engine speed drops back below the reset speed the speeder spring pushes the pilot valve plunger down and the area under the power piston is again connected to the sump. The reset spring rotates the terminal lever and pushes the power piston down. Oil is then recirculated through the pump as before.

#### OVERSPEED TRIP ADJUSTMENT.

The speed at which the unit trips is determined by the position of the speed adjusting screw. Turning the screw into the cover raises the tripping speed, and turning it out lowers tripping speed. The overspeed set point is adjusted at the factory, and under normal conditions should not be changed in the field. If it becomes necessary to reset the trip point, follow these steps.

a. Back out servo limit adjusting screw so that it does not limit travel in the power piston.

b. Make tentative speed droop bracket setting at approximately one-half its travel from minimum to maximum droop.

c. Make preliminary tripping speed adjustment with speed adjusting screw.

d. Readjust speed droop bracket to obtain approximately ten percent excess range, then readjust tripping speed. The speed adjusting lever can be locked in place by tightening the high speed stop screw against the speed adjusting lever.

e. Reset overspeed trip at a speed slightly below the desired reset speed. The servo limit adjusting screw affects only the reset speed. Turn in to raise the reset speed to the desired value.



DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



#### PART H - ENGINE BALANCING

#### GENERAL.

The load must be equally divided between all cylinders when the engine is loaded between 75 and 100 percent of its rated capacity. If it is not, one or more cylinders will be forced to carry an overload while the others loaf with resulting loss of operating economy, and possibly one or more of the following conditions.

- a. Scored pistons and liners.
- b. Excessive vibration which may cause loose foundation bolts, cracked grout and broken pipe connections.
- c. Excessive piston, valve, bearing and crankshaft wear.
- d. Excessive fuel consumption.
- e. Excessive use of lubricating oil.
- f. Frequency swings.

All temperature and pressure gauges required for proper operation of the engine are provided. The operator must be able to interpret gauge readings, know why any given pressure or temperature must be maintained, and how or when to make corrections if any change is noted. An engine log is an excellent tool to assist in achieving optimum operating efficiency. Readings should be taken and recorded hourly, and be supplemented with written observations. This will permit a complete evaluation of operating conditions, and provide information for oncoming operators.

#### FUEL INJECTION EQUIPMENT.

Clean fuel is essential. Injection equipment has close working tolerances, therefore, dirt or other impurities in the fuel can cause pumps or spray nozzles to malfunction. Small depressions in injector valve seats, some so small that they are not visible to the naked eye, may be caused by small particles of dirt and will affect spray patterns in the combustion chamber. Pumps and valves must be checked and cleaned periodically. The frequency of cleaning can best be determined from experience, however, care must be taken not to wait too long before cleaning. Fuel pumps should deliver exact amounts of fuel oil according to the millimeter setting of their fuel pump racks. If one pump requires a two or more millimeter variation from the setting of other cylinders to maintain the desired temperature or pressure, it indicates something wrong with that cylinder as a unit. The engine and pumps are designed to operate and maintain proper temperature with less than one millimeter difference in rack settings.

#### ENGINE OUT OF TUNE.

Spray nozzles are usually suspect if an engine is out of tune, or is smoking. There are other factors which may also contribute to these conditions. All of these must be considered when evaluating engine performance.

- a. Ignition or injection timing.
- b. Long or short burning lag in some fuels.
- c. Cetane rating of the fuel.
- d. Low compression pressure due to leaking valves.
- Worn piston rings and/or liners.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



# PART H - ENGINE BALANCING (Continued)

- A change in fuel oil. £
- Defective fuel injection pumps: a.
- Incorrect air-fuel mixture. h.
- Maladjustment of valves or linkage. i.

#### BALANCING CRITERIA.

The normal values used for balancing an engine, whether diesel or dual fuel, are exhaust temperatures and firing pressures. If there is any question as to the accuracy of thermocouples or pyrometers, they should be calibrated.

At full load, the individual cylinder exhaust temperatures should not vary more than 50 degrees fahrenheit 2. (10° C).

Firing pressures will vary in direct proportion with exhaust temperatures, and should vary no more than b. 30 psi (2.11 kg/cm<sup>2</sup>) between cylinders.

The closer each cylinder is balanced to the next the better the engine performance. Time and patience c are necessary to properly balance an engine - there is no short cut.

The timing of fuel delivery in relation to piston position in the cylinder, will determine the pressure in the cylinder. Each cylinder is an engine in itself and must be treated as such to insure that it is carrying its share of the load. Exact timing will always depend on engine speed, type of fuel, altitude, etc., therefore, final timing must be done under actual field conditions at the installation site:

#### PRELIMINARY ADJUSTMENTS.

Before operating the engine for the first time, or after an overhaul, the engine should be checked over, and preliminary adjustments made to the diesel fuel system as follows.

Adjust valve clearances or, if the engine is equipped with hydraulic valve lifters, check lifter adjustment. **a**. Refer to Part B of this section of the manual for procedures.

Check fuel injection equipment as follows. Ь.

Remove all nozzle holder assemblies, clean and if necessary, readjust nozzle opening pressure. The correct opening pressure of nozzle holder valves should be maintained within 50 psi (3.52 kg/cm<sup>2</sup>) of each other. See page 6-F-1 for opening pressures. Adjustment may be made with an adjusting screw or with shims, depending on the particular installation. Refer to the manufacturer's instructions in the Associated Publications Manual. Any great difference in nozzle opening pressure will affect engine balance, nozzle spray patterns, temperatures and smoke.

Check proper spray pattern. This may be done by placing a piece of paper under the nozzle while (2) it is in the test stand. This will reveal non-uniform patterns and plugged nozzle holes.

Nozzle holder assemblies must not dribble under pressure, or after popping open under the set (3) pressure.

Re-install nozzle holder assemblies in cylinder head. Carefully tighten nuts with a torque wrench (4) to the value shown in Appendix IV. Improper installation can result in malfunctioning.

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DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

# PART H - ENGINE BALANCING (Continued)

#### BALANCING ENGINE.

It is advisable to construct a chart or graph which will show engine load, governor load indicator position, intake manifold pressure and temperature, and individual cylinder pressures and temperatures which are observed while making balancing adjustments. This chart or graph will be very helpful in determining adjustments and corrections required to properly tune and balance the engine. If possible, keep intake manifold air temperature below 100° F while balancing engine to minimize detonation tendencies.

a. After all preliminary adjustments have been completed, start engine and run at idle speed. Record exhaust temperatures and firing pressures for all cylinders to determine condition of injectors. Temperatures should not vary more than  $10^{\circ}$  F (5.55° C) and firing pressures should be within 10 psi (0.7 kg/cm<sup>2</sup>) between cylinders. If a larger spread is recorded, stop engine and remove injectors. Clean, inspect, repair or replace. Install injectors and start engine.

b. If over 10° F (5.55° C) difference is experienced between cylinders after injectors have been cleaned, fuel pumps must be adjusted (see figure 6-H-1).

(1) Cylinders with the lowest firing pressures and exhaust temperatures will be the ones which are not carrying their full share of the load, therefore, they should be adjusted to increase pressure and temperature. This will usually cause the high cylinders to come down as the low cylinders take up their share of the load.

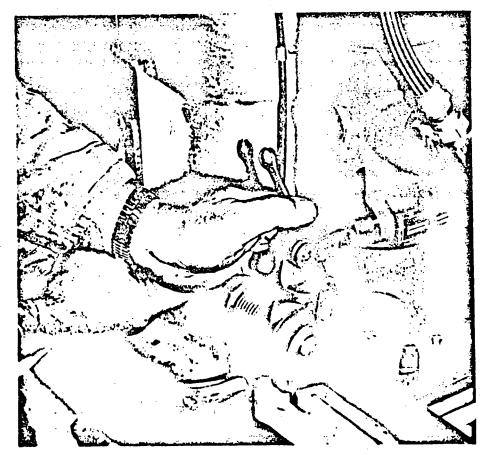


Figure 6-H-1. Adjusting Fuel Injection Pump

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-65TH AVENUE OAKLAND, CALIF. 94621

#### PART I - STARTING AIR SYSTEM

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#### GENERAL.

The engine is started by the timed admission of high pressure starting air to the power cylinders during the equivalent of the power strokes of the respective cylinders. The air is admitted at approximately top center of the power stroke, and admission continues until approximately the opening of the exhaust valves. The pressure is then relieved, thereby creating rotation of the engine comparable to the normal power stroke. As the engine accelerates on starting air, the heat of compression of the combustion air plus the starting air develops sufficient temperature to ignite the injected fuel within a few revolutions and the engine then initiates normal combustion and begins to accelerate under its own power without further aid of starting air.

#### AIR SUPPLY.

There are two separate, independent air supply systems, each consisting of a motor driven air compressor, a refrigerant drier and a storage tank. Each supply is available to the engine, independent of the other. The Starting air supply is stored at 250 psig (17.57 kg/cm<sup>2</sup>), and the full 250 psig pressure is available to the starting air header without reduction to provide maximum acceleration for extremely fast and reliable starting.

#### **OPERATION.**

The on-engine portion of the air starting system includes a header, two solenoid control valves, two gear-driven distributors, and a pilot operated air starting valve (figure 6-1-1) for each cylinder. During engine starts, starting air is admitted to the header when the solenoid valves are opened. There is a solenoid valve at either end of the header, each provided with a check valve on the header side to prevent pressure

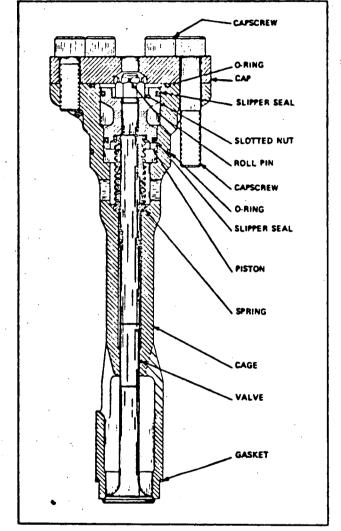


Figure 6-1-1. Starting Air Valve

loss should either supply be low, or inoperative. Pressure in the starting air header is supplied to the starting air valves in each cylinder, and to each of the two starting air distributors. The pressure in the distributors cause spool valves to engage and follow the profile of the starting air cams on the ends of the camshaft. The cam profiles are so designed that at least one spool valve is always in position to emit a pilot signal to the proper cylinder, causing that cylinder's starting air valve to admit 250 psig air into the combustion chamber, forcing the piston down to rotate the crankshaft. As the engine rotates, timed and sequenced pilot air signals are emitted, starting five degrees before top dead center and ending at 115 degrees after top dead center. When the starting signal is cut off, the spool valves lift off the cam.





DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



# PART I - STARTING AIR SYSTEM (Continued)

# VALVE DISASSEMBLY AND ASSEMBLY (See Figure 6-1-1).

Remove value from cylinder head then remove socket head capscrews and lift cap from value. Remove roll pin and slotted nut from value stem then slide value out through bottom of cage. Remove piston from top of assembly. Remove slipper seals and O-rings, taking care not to damage them. Inspect all surfaces of value assembly. O-rings and slipper seals. Replace any defective parts. Assembly is the reverse of disassembly.

#### TIMING AIR DISTRIBUTOR.

•The timing of the starting air distributor should be checked if the distributor is replaced, or if the engine camshaft has been replaced or retimed.

a. Position engine flywheel with number one cylinder (the bank the distributor is mounted on) five degrees before top dead center (BTDC) on the compression stroke.

b. Position starting air distributor so that centerline of spool valve for number one cylinder is in line with the TDC scribe mark on the opening ramp of the starting air cam. Note direction of engine rotation.

c. The spool value for number one cylinder will not be in position to just start emitting an air signal. Shop air at 125 psig (9.79 kg/cm<sup>2</sup>) can be connected to the distributor supply to verify the value position.

#### AIR FILTER INSPECTION.

The air filter in the supply line to the air distributor should be inspected and cleaned at regular intervals. The frequency of inspection and cleaning should be determined by operating conditions and experience.

#### STRAINERS.

Low point water collectors, "Y" strainers and air receiver tanks must be drained daily whether engine-generator is run or not. Inspect and clean "Y" strainers weekly. If the fouling of the strainers are such that more frequent inspections are warranted, then shorten the inspection interval.



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#### PART J - COOLING WATER SYSTEMS

#### GENERAL.

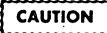
If, for any reason, there is a disruption in the circulation of the cooling water flow, the engine should be shut down as soon as practicable to prevent a build up of temperatures and possible serious damage to the engine. To avoid thermal shock which could cause damage to the engine, do not admit cold water to the cooling system until the temperature of the cooling surfaces in the engine have dropped to approximately that of the inlet water. All cooling surfaces must be kept free of scale or other deposits as any such accumulation will degrade the cooling capability of the system and, therefore, cooling water temperatures will not accurately indicate the extent of cooling. Any coating of the cooling surfaces will act as an insulating material and will prevent transfer of heat. A check of the pressure differential between the inlet and outlet of coolers will indicate the need for cleaning of the tubes.

#### JACKET WATER TREATMENT.

It may be advisable to consult a commercial water treatment company concerning the treatment of jacket water to insure that local conditions are taken fully into account. A suggested water treatment material for jacket water systems is sodium dichromate and boiler compound. Sodium dichromate is an inexpensive source of alkaline chromate (CrO<sub>4</sub>) which has been found to form a protective film on metallic surfaces that prevents attack by the corrosive elements found in the jacket water. Sodium dichromate is an acid compound which must have an alkaline compound such as boiler compound added to convert the dichromate to an effective alkaline chromate form. The alkaline chromate concentration must be maintained between 700 and 1700 parts per million (ppm). Less than 700 ppm can result in accelerated corrosion while more than 1700 ppm serves no useful purpose and is a waste of material. The pH value of the water must be maintained within a range of 8.25 and 9.75. The minimum pH value is necessary to prevent acid attack on the metallic surfaces, and the 9.75 maximum value will prevent corrosion due to high alkaline content in the water. The chloride content must not be allowed to exceed 100 ppm as the effectiveness of alkaline chromate decreases as the chloride content increases. When initiating alkaline chromate water treatment for the first time, or after the system has been refilled, the water should be tested daily for alkaline chromate concentration and pH value. When the treatment becomes stable, the test interval can be extended to weekly tests. After each addition of chemicals, the water should be circulated through the system then tested to insure that the required limits are met. Where necessary, an anti-freeze coolant solution such as ethylene glycol or similar may be used.

#### CLEANING JACKET WATER SYSTEM.

Rust can be removed from the jacket water system by filling the system with a solution of 75 pounds of ammonium nitrate in enough fresh water to make 100 gallons of solution. Make enough solution to fill the jacket water system then operate the engine for two hours. The jacket water system must then be flushed with fresh water and neutralized. Scale can be removed from the system by using a scale solvent solution composed of 7 gallons of 20° Baume muratic (hydrochloric) acid, one-half gallon of liquid inhibitor and 92½ gallons of fresh water at 160° F. Make enough solution to fill the system. Circulate the acid solution through the system for one or two hours, depending on the extent of the scale deposit. The temperature of the acid solution must be maintained at 160° F during circulation. After circulating the acid solution, drain the jacket water system and then fill with clean fresh water and flush it thoroughly. After flushing, neutralize the system with a solution composed of 20 pounds of soda ash (sodium carbonate) and enough fresh water at 160° F to make 100 gallons of neutralizing solution. Fill the jacket water system with the neutralizing solution and circulate it through the system for one-half hour. Maintain the temperature of the solution during circulation.



The above methods of cleaning must not be used for systems which have components containing aluminum.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-857H AVENUE OAKLAND, CALIF. 94621



# PART J - COOLING WATER SYSTEMS (Continued)

# ENVIRONMENTAL RESTRICTIONS.

Alkaline chromate water treatment compounds, such as sodium dichromate, may be considered environmentally objectionable in some locations, or may be prohibited. In these instances, nitrate compounds such as sodium nitrate (NaNO<sub>2</sub>) are suggested as adequate substitutes. When using NaNO<sub>2</sub>, the concentration must be 500 ppm with a pH of 7.5 to 8.5 to achieve effective corrosion control. Nitrate compounds for treating engine jacket water systems are available from most commercial chemical supply houses, and instructions for their use are available from the chemical supplier.



00-75

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



# PARTK – LUBRICATING OIL SYSTEM

#### FILTERS AND STRAINERS.

The full flow filter continuously filters all of the lubricating oil from the pump before it passes to the oil strainer. The length of time that the lubricating oil and the filter elements may remain in service can best be determined by carefully watching the result of oil analysis and the pressure drop across the oil filter. Change period will vary with the operating conditions to which each individual engine is subjected. During the first two or three days of engine operation after initial installation, or after a major overhaul, the strainer at the pump suction and the strainer at the oil header inlet should be checked and cleaned as necessary to remove any debris and other foreign matter that may be present. If at any time the oil pressure gauge shows a low reading, the following should be done to the degree necessary to correct the situation.

a. Check the oil level in the sump tank.

b. Inspect strainer, filter and lubricating oil cooler. A leak in the cooler may be detected by a sudden increase in oil consumption, and by the presence of oil in the cooling water system. Leakage may occur in the packing between the tubes and the tube sheet, or may be due to tube erosion, depending on the construction of the cooler.

- c. Inspect all external and internal piping for tightness and freedom from obstructions.
- d. Dismantle and inspect pump.

#### LUBRICATING OIL PUMP.

A Roper positive displacement, internal gear type pump is used. The pump is mounted on the engine gearcase by means of an adapter, and is driven by the idler gear through a gear carrier assembly. A spline on the pump shaft engages the internal splines on the gear carrier shaft coupling. The pump is a "gear-within-a-gear" design. With every revolution of the pump shaft a definite amount of oil is drawn into the pump through the suction port. The pump rotor, driven by the rotor shaft, in turn rotates the idler. As the teeth draw away from the rotor teeth, a suction is created which draws oil into the pump through the suction port. The space between the rotor teeth and the idler teeth is completely filled with oil which is then carried by the teeth past a crescent which devides the flow. As the teeth mesh again, oil is forced out of the discharge port and the meshed teeth form a barrier between the discharge and the suction ports.

#### **REMOVING PUMP.**

To remove the pump from the engine, do the following.

- a. Remove the inlet and discharge piping as well as any other interfering piping or accessories.
- b. Position a sling on the pump and attach to a chainfall and take up the slack.

c. Remove the capscrews that secure the pump to the adapter and pull the pump directly away from the engine until it is clear.



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# PART K - LUBRICATING OIL SYSTEM (Continued)

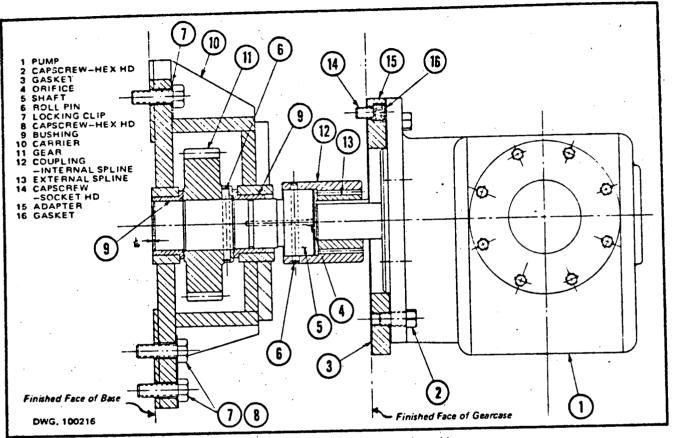


Figure 6-K-1. Lubricating Oil Pump Assembly

#### PUMP DISASSEMBLY (See Figure 6-K-1).

If it is necessary to disassemble the pump, exercise care to keep the parts clean so that no dirt, grit or other foreign matter will be present when the pump is assembled. Disassemble as follows.

a. Remove spline from pump shaft, taking care not to exert any internal forces on the pump parts.

b. Remove hex head screws from the faceplate end of the pump and remove the faceplate which contains two bearings.

c. Remove idler gear and shaft, then the drive gear and shaft.

d. Remove hex head screws from backplate end of pump housing and remove backplate which contains two bearings.

e. Carefully examine the surfaces of the gears. Slight burrs or feather edges may be removed with a hand stone.

f. Examine bearings and clean oil grooves and passages.

g. Remove burrs and foreign matter on gasketed surfaces of end plate and case.

h. Check bearing wear, using the table of clearances provided on next page.



DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

## PARTK - LUBRICATING OIL SYSTEM (Continued)

#### TABLE OF CLEARANCES Roper Pump Company Figure 2877 Type 1

								•						2.0050" - 2.0055
de Diameter			5.											2.0000" - 1.9995
learance														0.0050'' - 0.0055
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occur in bear	ing l	ID or	sha	ift	0D									
	то	CAS	EB	OR	E*							•		
de Diameter .						•		•			•	•	•	5.658" - 5.657"
rance	•	• •	•	•	•	•	•	•	•	•	•	•	•	0.009'' - 0.012''
	:E++	•												
					•				•	•	•			8.751'' - 8.750''
							•							8.750" - 8.749"
oressed Gaske	t Th	ickne	55			•								0.014" - 0.016"
l 1 steral Clea	ranc	e.												0.018" - 0.014"
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#### PUMP REASSEMBLY.

Assembly is the reverse of disassembly. The spline must be mated to the shaft without exerting any internal forces on the pump parts. The tapered end of the idler gear should be meshed to the opposite end of the drive gear. Taper ends are designated by the letter "T" appearing in the root area of the gear teeth.

#### INSTALLATION OF PUMP.

Before mounting pump on engine, make sure pump rotates freely. Mount pump to adapter, engaging dowel and the pump shaft spline with that of the gear carrier shaft. Use a gasket between the pump and the adapter. Assemble nuts on studs, and capscrews. Tighten. Lubricate pump through ports with any good grade of light weight oil to insure pump will not be dry at the time of initial starsing. When installing piping, do not force as the strain imposed will cause undue wear on the pump. No external lubrication is required as the pump is self lubricated by the oil it pumps during operation.

#### PUMP GEAR CARRIER ASSEMBLY.

The pump gear carrier assembly consists of a shaft, supported by two bronze bushings, pressed in the carrier assembly with their flanges to the inside. The pump end of the shaft has an internally splined adapter, attached to the shaft with a roll pin, which accepts the spline on the pump shaft. The drive gear is mounted on the shaft between the two bushings and engages the idler gear. The carrier assembly is secured to the engine block by capscrews and locking clips.



6-K-3

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



PART K - LUBRICATING OIL SYSTEM (Continued)

DISASSEMBLY AND ASSEMBLY OF GEAR CARRIER ASSEMBLY.

To remove the pump gear carrier assembly, the pump must be removed as outlined above, then the gearcase removed.

a. Remove lubricating oil lines from carrier assembly.

b. Bend back locking clips and remove capscrews. Remove carrier assembly.

c. To remove gear, shaft and bushings from carrier assembly, remove gear-to-shaft roll pin then press shaft out of gear. With shaft and gear removed, press bushings out of drive bracket.

d. Assembly is the reverse of disassembly. Use new locking clips.



6-K-4

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



#### PART L - MISCELLANEOUS

#### CRANKCASE PRESSURE.

The crankcase is fully enclosed and theoretically air tight. To remove gases and vapors from the crankcase and to reduce the possibility of fresh air or oxygen being present, crankcase pressure is maintained at a level slightly below atmospheric, measured in inches  $H_2O$  by a standard U-type manometer. An electric motor driven blower draws off crankcases and vapor through a draw off pipe and an oil separator to maintain a negative crankcase pressure.

#### MANOMETER.

The U-type manometer is a primary standard for the measurement of pressure. No other device offers a higher degree of accuracy of result. The vertical distance between the two levels of fluid in the U-tube is a measurement of the difference in pressure between the two sides of the manometer. The difference may be expressed in linear units of the indicating fluid, such as inches of water or inches of mercury. Because the pressure being measured acts directly on the indicating liquid in the tube rather than through any mechanical devices, the column will respond directly and immediately to the slightest change in applied pressure. For example, if water is the indicating medium, a pressure change of one ounce per square inch will change the indicating levels approximately one inch. As standard scales are graduated in tenths of an inch, very accurate readings are possible.

#### MEASURING VACUUM.

Vacuum and pressure, in the sense used here, are the same thing, vacuum being merely the degree to which the pressure has been brought below atmospheric pressure. Vacuum is normally read in inches of mercury. If a vacuum pump were to be connected to one leg of a U-type manometer while the other leg remained open to atmosphere (see figure 6-L-1), the pressure on the pump side would be reduced as the pump works. Atmospheric pressure, then being the greater pressure, will force the column of mercury down on the open side and consequently, the column of the leg will rise. The resultant difference in the height of the column is the measure of vacuum in inches of mercury created by the pump.

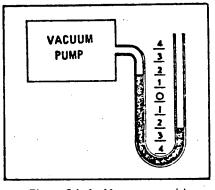


Figure 6-L-1. Manometer with Vacuum Pump

#### **OPERATION AND MAINTENANCE.**

With both legs of the manometer open to atmosphere as shown in figure 6-L-2, indicating fluid is placed in the tube until the level is at the center, or zero graduation of the scale. If the level of the two columns is less than zero, fluid

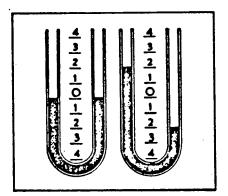


Figure 6-L-2. Reading Manometer

should be added. If the reading is more than zero, fluid should be removed. Minor adjustments may be made by moving the scale to obtain an exact zero reading. Application of pressure to the right leg will force the fluid column down in the right leg and up in the left. The instrument is then read by noting the deflection from zero in both legs, then adding the two. In the case of the manometer illustrated on the right side of figure 6-L-2, the difference is the sum of two inches below zero and two inches above, or four inches.

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#### PART L - MISCELLANEOUS (Continued)

#### CRANKCASE VENTILATION SYSTEM.

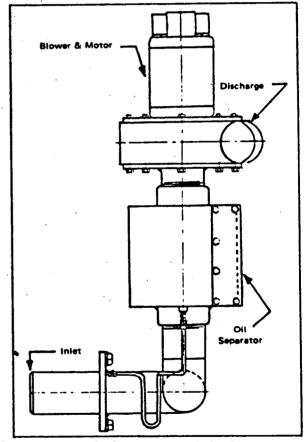
If vapors and gases were allowed to accumulate in the crankcase they could be ignited by an abnormal condition within the engine with a resultant crankcase explosion. Such an explosion could cause serious damage to the engine, surrounding structures and to personnel. The crankcase ventilation system is designed to reduce the amount of fresh air and oxygen present in the crankcase and to minimize the possibility of an accidental hot spot from causing a crankcase flash or explosion. The system will also assist in indicating the general condition of the engine, particularly piston ring and liner wear. If piston ring and/or liner wear becomes excessive, piston blowby will cause a rise in crankcase pressure and, therefore, be evidenced by a change in the manometer reading towards a positive reading. A single motor driven blower is used to draw directly from the crankcase and discharges through an oil separator where oil vapors are removed. The discharge should be piped outside the building, or otherwise disposed of to prevent the presence of explosive vapors in the atmosphere surrounding the engine.

a. Air flowing through the separator passes through the filter element where any oil particles are trapped. The oil then drains down the side walls of the filter element to the bottom of the separator where it then drains back to the engine crankcase.

b. The blower motor is normally controlled by a pressure switch, actuated by lubricating oil pressure. The switch, sensitive to rising lubricating oil pressure, reaches a preset pressure during starts and the system is turned on. Refer to the control system drawings for the pressure at which the switch closes.

c. The filter element in the oil separator should be removed periodically and washed in a solvent. After washing, allow the element to dry before placing it back in the separator. Under normal conditions, the filter element should require cleaning no oftener than 1500 hours of engine operation.

d. Crankcase vacuum is controlled by an orifice in the discharge line. The orifice size is determined in the field at the time of installation to suit the specific conditions at the site by the Service Representative.



#### CRANKCASE VACUUM.

Figure 6-L-3. Crankcase Ventilation System

a. While operated at rated load and speed, crankcase vacuum of 0.2 to 0.5 in.- $H_2O$  (0.508 to 1.27 cm- $H_2O$ ) should be maintained.

b. Crankcase vacuum readings must be carefully taken, logged hourly, and compared with past readings. In this way, gradual changes can be detected and investigated so that minor problems can be corrected before they reach major proportions. Should the logged readings indicate a loss in crankcase vacuum, the cause should be promptly determined and corrected.

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# PART L - MISCELLANEOUS (Continued)

c. Crankcase vacuum readings should be carefully observed during heavy load operations. Should the pressure go from a vacuum to a positive reading, the engine should be shut down immediately. The engine should never be operated with a positive pressure inside the crankcase as this indicates that the suction source for purging the crankshaft has been plugged and/or otherwise obstructed, or that some condition exists that is creating abnormal heat. If a hot spot develops in the engine and the oil flows or splashes over it a considerable amount of oil vapor will be formed. This vapor is explosive and the engine must be stopped immediately. Allow engine to rest for fifteen minutes to allow fumes and vapors to dissipate before removing any engine covers. Determine the cause and correct before continuing operation.

1. 2

6-L-3

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



#### SECTION 7

#### TROUBLE SHOOTING

#### GENERAL.

Maintenance trouble shooting, to be effective, demands a sound knowledge of the engine in both a theoretical and a practical sense. The mechanic must analyze the causes and effects, and where the cause is not readily apparent, he must employ a fine sense of logic based upon the use of all tools available. Section 1 discussed preventive maintenance. The technique of that program is, to varying degrees, applicable to trouble shooting as well. To assist in determining the causes of improper performance, this section contains a listing of some of the more common engine malfunctions their probable causes and the logical remedies.

#### RECORDS.

All possible malfunctions and their probable causes cannot be accurately foreseen and recorded in advance. Each engine will develop and display characteristics which may not be common to all engines of the same model or type. Also, the same operator or mechanic will not always perform the trouble shooting and repair work. It is, therefore, suggested that the owner establish a detailed repair and trouble shooting record system. Each malfunction should be recorded in a readily usable form, listing the indications and findings for each malfunction encountered together with the repair action required. This record will be of assistance in determining the cause of any future malfunctions and will be a valuable training aid for all operators and mechanics.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND. CALIF. 94621 DELA

TROUBLE	POSSIBLE CAUSE	ACTION
<ol> <li>Engine fails to turn over when air start valve turned ON.</li> </ol>	a. Air line valves closed. b. Air pressure too low.	Check air line valves. Check pressu 1.
	c. Air start valve leaking or stuck.	Check for clogged strainer, Release cylinder pressure by opening indicator cocks. Remove air start valve
	d. Air distributor timing (if so equipped).	and examine. Adjust timing.
	<ul> <li>e. Power to control system OFF.</li> <li>f. Camshaft not fully shifted.</li> </ul>	Turn ON. Check and correct controls.
2. Engine turns on air but will not	a. Fuel line valve closed.	Open all fuel valves. Fill tank.
start.	<ul> <li>b. Fuel low in day tank.</li> <li>c. Air in fuel system.</li> </ul>	Vent system by opening fuel pump bleeder screws,
	d. Fuel lines clogged.	Clean lines. Clean filters.
	e, Fuel filters plugged or dirty. f. Water in fuel oil.	Drain and fill system with clean oil.
	<ul> <li>g. Fuel control linkage sticking.</li> <li>h. Fuel oil relief valve stuck open.</li> </ul>	Free and lubricate. Free valve.
	i. Fuel oil shutdown cylinder not retracting.	One of the shutdown elements leaking air, or pneutrol orifice upstream of
		accumulator tank open - open and hold reset valve (if so equipped).
	j. Stuck valve	Free, clean and lubricate,
. •	k. Air intake blocked. I. Valves riding open.	Check and clean line, Adjust velve clearance.
	m. Valve seats worn.	Reseat valves, Replace with new gaskets,
	n. Cylinder head gaskets leaking. o. Piston rings stuck.	Replace rings as required, using oversized
		rings if necessary. Replace liners if scored or worn.
3. Running engine slows or stops.	a. Fuel low in day tank.	Fill tank. Drain and fill with clean oil.
	<ul> <li>b. Water in fuel oil.</li> <li>c. Fuel filters plugged and dirty.</li> </ul>	Clean filters.
	d. Engine overloaded. e. Exhaust line restricted.	Reduce load. Clear obstruction.
	f. Intake air blocked.	Check and clear line.
	g. Piston seized.	Actual piston seizure makes a high pitched, squeking noise. Stop engine
		immediately. Check pistons, liners and cooling system.
•	h. Safety shutdown system.	Check indicators and investigate.
4. Engine fires irregularly when	a. Low fuel in day tank. b. Air in fuel system.	Fill tank. Vent system by opening fuel pump
running.		bleeder screws.
	c. Water in fuel oil. d. Fuel lines clogged.	Drain and fill with clean oil. Clean lines,
	<ul> <li>e. Fuel filters plugged and dirty.</li> <li>f. Fuel nozzle stuck, clogged, damaged</li> </ul>	Clean filters. Replace with spare and examine.
	or worn. g. Injection tube connectings leaking.	Clean joints and tighten.
	h. Fuel nozzle bleeder valve open. I. Injection pump dirty, damaged or worn.	Close valve- Replace with spare and examine.
	J. Injection pump out of time. k. Injection pump delivery out of balance	Adjust timing. Check exhaust temperatures of all
	k. Injection pump delivery dut of balance with others.	cylinders until temperatures are within
	1. Lack of compression.	50° F of one another, See paragraph 2 above.
· · · · · · · · · · · · · · · · · · ·	m. Excessive manifold air pressure.	Reduce pressure.
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7-2

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



TROUBLE	POSSIBLE CAUSE	ACTION
5. When running, engine has black	<ul> <li>Fuel nozzle stuck, clogged, damaged or worn,</li> </ul>	Replace with spare and examine.
exhaust.	b. Injection pump out of time.	Adjust timing.
· · ·	c. Injection pump delivery out of balance	Check exhaust temperatures of all cylinders
	with others.	Adjust control linkage until temperatures
		are within 50° F of each other.
	d. Air intake blocked.	Clear.
	e. Engine overloaded.	Check load. Reduce if necessary.
6. Engine has smoky (blue) exhaust.	a. Piston rings stuck.	Free, clean ring grooves and oil drain holes.
	<ul> <li>b. Piston rings or liners worn.</li> </ul>	Replace rings as required. If necessary, use
		oversized rings. Replace liners if scored or
	· · · · ·	worn. Check piston rings, ring grooves and liner.
	c. Loss of lubricating oil.	Replace piston.
	d. Crack or hole in piston.	Replace piston:
7. Engine knocks while running.	a. Fuel nozzle stuck, clogged, damaged or	Replace with spare and examine.
	worn.	
	b. Injection pump out of time.	Adjust timing.
	c. Poor grade of fuel being used.	Check specifications of fuel being used
		against standard.
	d. Defective fuel tappet.	Check, replace worn parts. Shut off fuel to suspected cylinder. If
	e. Piston loose in liner.	knock decreases, check piston and ring
		clearances. Replace worn parts.
		Place piston at bottom dead center. With
	f. Loose piston pin or pin bushing.	pry bar, check piston for loose fit. Replace
		pin or bushing as necessary.
		Check clearances.
	g. Bad connecting rod bearing.	Check clearances.
	h. Defective main bearings.	Check clearances.
8. Low lubricating oil pressure.	a. Low oil level in sump.	Add oil.
	b. Lubricating oil suction clogged.	Check and clean.
	c. Loose piping.	Check and tighten as necessary.
	d. Loaded filter elements.	Clean or replace.
	e. Sticking relief valve.	Free and clean valve.
	f. Defective lubricating oil pump.	Inspect pump. Repair or replace.
	g. Relief valve set too low.	Adjust. Check clearances.
	h. Loose or worn bearings.	Check clearances.
9. Excessive lubricating oil pressure.	a. Relief valve stuck.	Free and clean.
	b. Dirty lubricating oil cooler or filter.	Clean.
	B. Dirty lubricating on cooler of finter.	
	c. Relief valve improperly adjusted.	Adjust.
	c. Relief valve improperly adjusted.	Adjust. Check and tighten connections.
0. High jacket water inlet temperature	c. Relief valve improperly adjusted. a. Jacket water pressure low.	
0. High jacket water inlet temperature	c. Relief valve improperly adjusted.	Check and tighten connections. Check water pump — bleed air. Check and clean.
10. High jacket water inlet temperåture	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> </ul>	Check and tighten connections. Check water pump — bleed air. Check and clean. Open vents on pump or on top of suction.
10. High jacket water inlet temperäture	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent.
0. High jacket water inlet temperäture	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> </ul>	Check and tighten connections. Check water pump — bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary.
0. High jacket water inlet temperature	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent.
0. High jacket water inlet temperäture	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger coolant.</li> </ul>	Check and tighten connections. Check water pump — bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load.
10. High jacket water inlet temperäture	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate hest exchanger coolant.</li> <li>g. Dirty hest exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Loose piping.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten.
0. High jacket water inlet temperäture	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate hest exchanger coolant.</li> <li>g. Dirty hest exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Loose piping.</li> <li>j. Inadequate raw water supply.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load, Check and tighten. Check.
10. High jacket water inlet temperäture	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger coolant.</li> <li>g. Dirty heat exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Loose piping.</li> <li>j. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped)</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check.
10. High jacket water inlet temperäture	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger coolant.</li> <li>g. Dirty heat exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Loose piping.</li> <li>j. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped) defective.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check. See Manufacturer's Instructions in Associa Publications Manual.
	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger coolant.</li> <li>g. Dirty heat exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Loose piping.</li> <li>j. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped)</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check. See Manufacturer's Instructions in Associa Publications Manual.
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	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger coolant.</li> <li>g. Dirty heat exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Loose piping.</li> <li>j. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped) defective.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check. See Manufacturer's Instructions in Associa Publications Manual. Check fuel injector nozzles, fuel pump, ge admission valve, cylinder fuel cutoff.
11. Excess vibration	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger coolant.</li> <li>g. Dirty heat exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Loose piping.</li> <li>j. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped) defective.</li> <li>a. Cylinder misfiring.</li> <li>b. Stuck valve.</li> <li>c. Mechanical problems.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check. See Manufacturer's Instructions in Associa Publications Manual. Check fuel injector nozzles, fuel pump, ge admission valve, cylinder fuel cutoff. Free, re-face and re-seat, or replace. Investigate all systems and auxiliaries.
11. Excess vibration 12. Excessive exhaust temperatures,	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger.</li> <li>b. Engine overloaded.</li> <li>i. Loose piping.</li> <li>j. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped) defective.</li> <li>a. Cylinder misfiring.</li> <li>b. Stuck valve.</li> <li>c. Mechanical problems.</li> <li>a. Engine overloaded.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check. See Manufacturer's Instructions in Associa Publications Manual. Check fuel injector nozzles, fuel pump, ge admission valve, cylinder fuel cutoff. Free, re-face and re-seat, or replace. Investigate all systems and auxiliaries. Reduce load.
11. Excess vibration	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Loose piping.</li> <li>j. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped) defective.</li> <li>a. Cylinder misfiring.</li> <li>b. Stuck valve.</li> <li>c. Mechanical problems.</li> <li>a. Engine overloaded.</li> <li>b. Low manifold air pressure.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check. See Manufacturer's Instructions in Associa Publications Manual. Check fuel injector nozzles, fuel pump, ge admission valve, cylinder fuel cutoff. Free, re-face and re-seat, or replace. Investigate all systems and auxiliaries. Reduce load. Increase pressure.
<ol> <li>Excess vibration</li> <li>Excessive exhaust temperatures,</li> </ol>	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger coolant.</li> <li>g. Dirty heat exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Loose piping.</li> <li>j. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped) defective.</li> <li>a. Cylinder misfiring.</li> <li>b. Stuck valve.</li> <li>c. Mechanical problems.</li> <li>a. Engine overloaded.</li> <li>b. Low manifold air pressure.</li> <li>c. Piston sticking.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check. See Manufacturer's Instructions in Associa Publications Manual. Check fuel injector nozzles, fuel pump, ga admission valve, cylinder fuel cutoff. Free, re-face and re-seat, or replace. Investigate all systems and auxiliaries. Reduce load. Increase pressure. Remove, clean, check clearances.
<ol> <li>Excess vibration</li> <li>Excessive exhaust temperatures,</li> </ol>	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Loose piping.</li> <li>j. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped) defective.</li> <li>a. Cylinder misfiring.</li> <li>b. Stuck valve.</li> <li>c. Mechanical problems.</li> <li>a. Engine overloaded.</li> <li>b. Low manifold air pressure.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check. See Manufacturer's Instructions in Associa Publications Manual. Check fuel injector nozzles, fuel pump, ge admission valve, cylinder fuel cutoff. Free, re-face and re-seat, or replace. Investigate all systems and auxiliaries. Reduce load. Increase pressure.
<ol> <li>Excess vibration</li> <li>Excessive exhaust temperatures, all cylinders.</li> </ol>	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger coolant.</li> <li>g. Dirty heat exchanger.</li> <li>h. Engine overloaded.</li> <li>i. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped) defective.</li> <li>a. Cylinder misfiring.</li> <li>b. Stuck valve.</li> <li>c. Mechanical problems.</li> <li>a. Engine overloaded.</li> <li>b. Low manifold air pressure.</li> <li>c. Piston sticking.</li> <li>d. Bearing failure.</li> <li>e. Dirty air cleaner.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check. See Manufacturer's Instructions in Associa Publications Manual. Check fuel injector nozzles, fuel pump, ga admission valve, cylinder fuel cutoff. Free, re-face and re-seat, or replace. Investigate all systems and auxiliaries. Reduce load. Increase pressure, Remove, clean, check clearances. Inspect and check clearances. Clean.
11. Excess vibration 12. Excessive exhaust temperatures,	<ul> <li>c. Relief valve improperly adjusted.</li> <li>a. Jacket water pressure low.</li> <li>b. Air in water system.</li> <li>c. Pump suction or discharge clogged.</li> <li>d. Pump airbound.</li> <li>e. Water passage clogged with scale.</li> <li>f. Inadequate heat exchanger coolant.</li> <li>g. Dirty heat exchanger.</li> <li>h. Engine overloaded.</li> <li>l. Loose piping.</li> <li>j. Inadequate raw water supply.</li> <li>k. Vapor phase system (if so equipped) defective.</li> <li>a. Cylinder misfiring.</li> <li>b. Stuck valve.</li> <li>c. Mechanical problems.</li> <li>a. Engine overloaded.</li> <li>b. Low manifold air pressure.</li> <li>c. Piston sticking.</li> <li>d. Bearing failure.</li> </ul>	Check and tighten connections. Check water pump - bleed air. Check and clean. Open vents on pump or on top of suction. Clean with recognized solvent. Inspect and clean as necessary. Inspect and clean. Reduce load. Check and tighten. Check. See Manufacturer's Instructions in Associa Publications Manual. Check fuel injector nozzles, fuel pump, ga admission valve, cylinder fuel cutoff. Free, re-face and re-seat, or replace. Investigate all systems and auxiliaries. Reduce load. Increase pressure. Remove, clean, check clearances. Inspect and check clearances.

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ACTION POSSIBLE CAUSE TROUBLE Check and adjust valve. Ges admission valve. 14. Rising exhaust temperature in Replace valve. Burned exhaust valve. Ь. one cylinder. Reduce load. High pre-turbine exhaust temper-Engine overloaded. 15. 8. Increase pressure. Low manifold air pressure. ature. ь. Remove, clean, check clearances. Piston sticking. C. Inspect and check clearances. Searing failure. d. Dirty air cleaner. Clean. •. Check lines and clear. Obstruction in gas supply. 16. Low exhaust temperature in one 8. b. Ges cutoff in header closed. Open cutoff. cylinder. Time pump. tajection pump improperly timed. 17. Erratic speed variations (hunting). Clean nozzle. Injection noticle tip closed. Ь. Adjust. triection nozzle improperly adjusted. Free plunger. interview pump plunger stuck. đ. Fill governor. Distevel in governor low. . Increase pressure. Fuel oil pressure low. f. Check and adjust regulator. Feel control regulator. g. Refer to manufacturer's instructions. h. Governor or linkage sticking. Lubricate linkage with engine oil. See manufacturer's bulletins. a. Governor. 18. Constant engine speed fluctuation. Clean and lubricate with engine oil. b. Linkage. Check system and air supply. c. Speed signal air pressure. Check valves, repair or replace. 19. Excessive venting and/or vapors a. Lesking air start valves. from vent holes in each end of starting air header. Check and repair. a. Defective water pump. 20. Low jacket water pressure. Bleed air. b. Water pump airbound. Check and repair. 21. Low raw water pressure. Defective water pump. ۵. Bleed air. Air in system. ь. Clean. c. Dirty strainer. Replace. Worn piston rings. 22. Low compression pressure. 8. ь. Surned valves. Regiace. Adjust valve clearance. Walve tappets improperly adjusted. c. Check and clean. Dirty filters or strainers. 23. Low fuel oil pressure **a**. Free and check. Relief valve stuck open. ь. Check and repair. Defective pump. c. d. Air leak in suction line. Repair. a. Worn piston rings or liners, Check clearance - Replace if clearance is 24. Excessive lubricating oil excessive. consumption. Repair. b. Leak in sump or piping. Check tubing for leaks or obstructions. 25. 'Loss of crankcase vacuum. a. Faulty manometer indications. b. Blower motor defective Repair or replace. c. Defective pressure switch. Replace. Repair. đ. a cost electrical connection. e. Air leak around cylinder head covers. Check for gasket condition and that cover is tightened evenly. Check grommet and fuel line gaskets. ŧ. Air leak at fuel line entrance to cylinder sead sub covers. Air leak past valve guides. Check clearances, h. Fiston blowing by. Check for stuck piston rings. Check for excessive piston ring wear. i. Lubricating oil furning. Check for hot spots. WARNING 1.47 This heavy vapor is very explosive and the engine should be stopped imme-diately. Allow to rest for 15 minutes to allow fumes and vapors to dissipate be

G/R/RV-74

fore removing any engine covers,

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621 DELAVAL

TROUBLE	POSSIBLE CAUSE	ACTION
6. No fuel pump delivery or insuffi- cient delivery.	a. Fuel tank empty or valve in line closed.	Refill tank with fuel. Check whether transfer pump delivers fuel to tank.
	b. Fuel inlet pipe clogged or third stage	Open all valves in line. Clear pipe. Clean filter element.
	filter element dirty.	
	c. Air lock in pump.	Vent pump and nozzle,
	<ul> <li>Pump plunger remains suspended in barrel.</li> </ul>	Thoroughly clean all parts, particularly
*		plunger and barrel. If either are damaged, replace both with spares.
	e. Plunger spring broken.	Replace with spare.
-	f. Delivery valve does not seat properly.	Clean delivery valve and seating. If either
		are damaged, replace with spares.
	g. Delivery valve spring broken.	Replace with spare.
	h. Leakage back to suction chamber from	Clean faces. Remove burrs and scratches
	surfaces between top of barrel and	from delivery valve seat and barrel.
	delivery valve seat. I. Worn or defective plunger or barrel.	Replace with spare.
· · · · ·	I. Dirt causes pump plunger to jam, or	Dismantle and clean.
· · · · ·	control rod rack is coated with dirt.	cristiancia and cristia.
	k. Supply connection leaks.	Install new gasket or replace connection
· · · · · · · · · · · · · · · · · · ·		if damaged.
	I. Leakage past spring guide caused by worn	Replace defective parts with spares.
	plunger or improper seal of barrel in	•
<i>,</i>	main body.	
	m. High pressure connection leaks.	Install high pressure tube only on the cylinder for which it was factory fitted.
	- · · · ·	Replace line if cone is damaged.
7. Injection nozzle valve sticking.	a. Dirt in nozzle.	Remove and clean nozzle.
in injection nozzie vere sticking.	b. Poor lubricating qualities in fuel oil.	*Change to fuel or proper specifications.
	c. Nozzle body and valve corroded or	Replace nozzle body and valve with spare
	eroded due to acid, water or dirt in	Check fuel and filters.
1	fuel oil.	
	d. Joint between nozzle holder and nozzle	Clean faces. Remove burrs and scratches
	not tight.	from nozzle body and holder.
	<ol> <li>Nozzie valve worn and loose in nozzie body.</li> </ol>	Replace nozzle body and valve with spare Check fuel and filters.
	f. Nozzle valve stuck in closed position or	Remove and clean nozzie.
	nozzie orifices closed.	
· ·	g. Carbon deposits on nozzle.	Clean nozzle.
		· .
	×	•
		Personal duration and day and the
and the second		*Check fuel being used for conformance t
		approved specifications. Introduce addit

7-5

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF, 94621



#### SECTION 8

#### APPENDICES

The purpose of this section of the manual is to provide a single location for specific data which, if located within the body of the manual, would be more difficult to locate. As a general rule, specific values have been omitted from the text and, where appropriate, reference is made to the applicable appendix. The following appendices are contained in this section.

8-1

Appendix 1	Torsional Stress and Critical Speeds
Appendix II	Operating Temperatures and Pressures
Appendix III	Table of Clearances
Appendix IV	Torque Values
Appendix V	Timing Diagram
Appendix VI	Lubricating Oil Recommendations
Appendix VII	Alarms and Safety Shutdowns
Appendix VIII	Fuel Oil Recommendations
Appendix IX	Power Engine Factory Test Logs

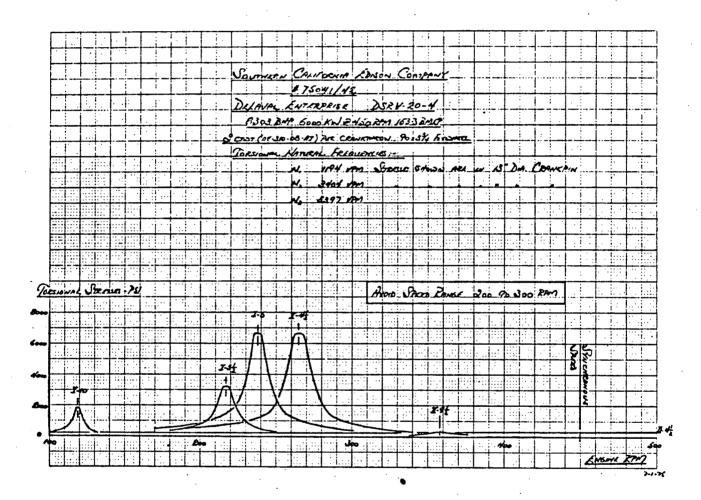
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DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

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#### APPENDIX I

#### TORSIONAL STRESS AND CRITICAL SPEEDS



DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



## **OPERATING PRESSURES AND TEMPERATURES**

#### PRESSURES

The following pressures should be present for starting:

Starting Air Supply	250 osi	•			
Starting Air Header	250 psi	••••	• • • •	• • • • • •	17.6 kg/sq cm
Starting All Header	250 psi	• • • •			17.6 ka/sa.cm

While running at rated speed, the operating pressures should be as follows:

	psi			inhg	kg/sq-cm
Lubricating Oil*	45 — 55	• • •		91.6 - 112.0	3.16 - 3.87
Lubricating Oil at Turbocharger Inlet	25 - 35	• • •		50.9 - 71.26	1.76 - 2.46
Jacket Water Fuel Oil	10 – 30	• • •	• • •	20.4 - 61.1	0.70 - 2.11
	20 - 30	• • •	•••	40.7 - 61.1	1.40 – 2.11

#### TEMPERATURES

While running under rated load, the outlet temperatures should be as follows:

Lubricating Oil out of Engine*	170 <sup>°</sup> F – 180 <sup>°</sup> F (76.6 <sup>°</sup> C – 82.2 <sup>°</sup> C)
Jacket Water out of Engine	$170^{\circ} \text{ F} - 180^{\circ} \text{ F} (76.6^{\circ} \text{ C} - 82.2^{\circ} \text{ C})$

#### **EXHAUST TEMPERATURE**

The exhaust temperatures shown on the title page are the average for all cylinders during factory test under local ambient conditions. Temperatures in the field, therefore, may exceed this average temperature.

Pressures and temperatures listed are established as a guide to proper operation. They should be held within plus or minus 10 percent. Sudden changes in reading require immediate investigation and correction.

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\*With SAE 40 lubricating oil in engine.

8-3

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



# APPENDIX III

#### TABLE OF CLEARANCES MODEL RV ENGINE

······································		Clearance V	men New		Replac	e When		
	Mini	mum	Max	imum	0	ver	Notes	
Position	Inches	Centimeters	Inches	Centimeters	Inches	Centimeters		
Intake valve in guide	0.0035	0.009	0.005	0.013	0.025	0.063	(1)	
Exhaust valve in guide	0.0055	0.014	0.007	0.018	0.025	0.063	(1)	
Air valve piston	0.0055	0.014	0.0075	0.019			(1)	
Rocker arm bushing on shaft	0.002	0.005	0.0035	0.009	0.010	0.025	(1)	
Tappet in guide	0.002	0.005	0.004	0.010	0.015	0.038	(1)	
Tappet roller on pin	0.0015	0.004	0.0030	0.008	0.005	0.013	(1)	
Conrod link pin to bushing	0.0039	0.010	0.0085	0.022	0.012	0.031	(1)	
Idler gear bushing on shaft	0.003	0.008	0.005	0.013	0.010	0.025	(2)	
Idler gear bushing to bracket		1				· ·		
thrust face	0.005	0.013	0.009	0.023	0.012	0.031	(2)	
Piston pin in piston	Push fit a	at 70° F (21.	° C)		0.002	0.005	(1) or (2)	
Piston pin in bushing	0.0095	0.024	0.0105	0.027	0.020 0.051		(1) or (2)	
BEARING SHELLS*							•	
Main bearing to crankshaft	0.012	0.031	0.0164	0.042	0.614	0.042	(1)(4)(5)	
Rear main thrust bearing	0.022	0.056	0.030	0.076	0.611	1.552	(2) .	
Conrod bearing to crankshaft	0.011	0.028	0.0154	0.039	0.616	0.041	(3)(6)	
Camshaft bearing to camshaft	0.0035	0.009	0.0065 0.017		0.193 0.490		(1)(4)(5)	
SKIRT CLEARANCE IN LINER		•						
Top (land tapered)	0.120-	0.305-	0.126-	0.320-				
	0.074	0.188	0.077	0.196			(1) or (2)	
Bottom (skirt)	0.018	0.046	0.021	0.053			(1) or (2)	
Liner bore					17.060	43.332	(1)	
PISTON RING GAP CLEARANC	ES			-				
Top compression rings	0.090	0.229	0.115	0.291	0.200	0.508	(2)	
Intermediate compression rings	0.075	0.191	0.100	0.254	0.200	0.508	(2)	
Oil control rings	0.040	0.102	0.065	0.165	0.200	0.508	(2)	
PISTON RING SIDE CLEARAN	CE IN GRO	OVE						
Top compression rings	0.008	0.020	0.011	0.028	0.020	0.051	(2)	
Intermediate compression rings	0.006	0.015	0.009	0.023	0.020	0.051	(2)	
Oil control rings	0.004	0.010	0.007	0.018	0.020	0.051	(2)	

Notes: (1) Use micrometer and snap gauges.

- (2) Use feeler gauge.
- (3) Use dial indicator (bump test).
- (4) Use plasta-gauge.
- (5) Measure at bottom of lower shell.
- (6) Measure at top of upper shell.

\*Bearing replacement figures are based upon wall thickness, measured as indicated by note.

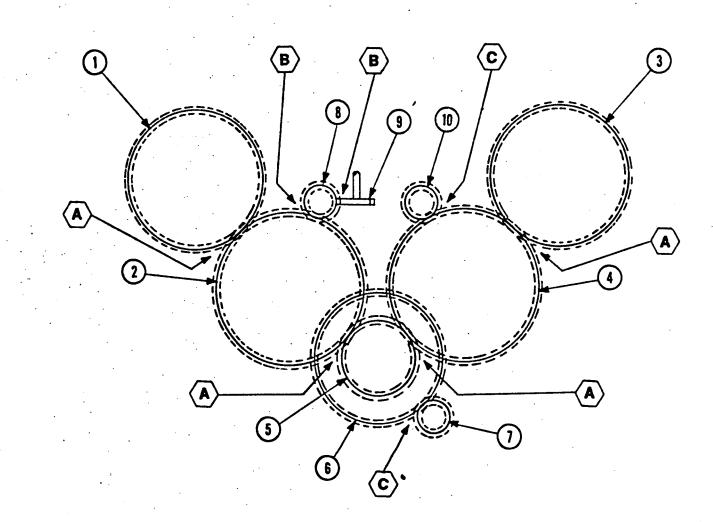
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DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



### APPENDIX V-1

#### GEAR SET AND BACKLASH CLEARANCES MODEL RV ENGINE



ITEM	DESCRIPTION	GPL
1	CAMSHAFT GEAR, LEFT HAND	350
2	IDLER GEAR, LEFT HAND	355
3	CAMSHAFT GEAR, RIGHT HAND	350
4	IDLER GEAR, RIGHT HAND	355
6	CRANKSHAFT GEAR	310
6	LUBRICATING OIL PUMP DRIVE GEAR	355
7	LUBRICATING OIL PUMP DRIVEN GEAR	420
8	GOVERNOR & TACHOMETER DRIVE GEAR	411
9	GOVERNOR DRIVE AND DRIVEN GEAR	411
10 [	FUEL OIL PUMP & OVERSPEED TRIP DRIVE GEAR	410

Ľ	BACK	LASH
POS	INCHES	CENTIMETERS
A	0.008 - 0.010	0.020 - 0.025
B	0.004 - 0.006	0.010 - 0.015
c	0.005 - 0.008	0.013 - 0.025

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DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND. CALIF. 94621

#### APPENDIX IV

#### TORQUE VALUES Model RV Engine

The torque values listed below are based upon the use of the lubricant specified on page 5-7 under "Torque Wrench Tightening Procedures". All values are given both in foot pounds and in kilograms per meter. Where applicable, bolt sizes are shown in parenthesis.

																_			
liem																-	org	ue	k
······												•				<u>ft-lb</u>			<u>ko m</u>
NUT, Foundation Bolt (heat treated steel																			
NUT, Main Bearing Cap Stud (1%")**	•	•	•		•	•	•	•		•				•		3000.			415
NUT, Base to Crankcase Thru-Bolt		•	•		•	•					•		. •			7000.			968
CAPSCREW, Crankcase to Base (1")	•		•			•				•	•					285.			39.4
NUT, Cylinder Block to Crankcase Thru-I	Boł	t (2	!% <b>'</b>	)												4500.			622
84	••	- (	2")		•											3000.			425
NUT, Connecting Rod Bolt (1%") " " " (1-7/8") .									•							1600.			221.3
<b>" " "</b> (1-7/8") .					•	•	•									1800.			248.9
BOLT, Link Connecting Rod to Link Pin	(1)	4")														735			101.5
	(1-	1/8	(**)							_	_					1050	•	•	145.2
NUT, Cylinder Head Stud (2-8NC)**	•					•		÷	÷	•				•	•	3300	•	•	456.4
NUT, Spark Plug Tube Retainer									·	÷	·	M	lini			60			8.29
	•	•	-	•	•	•	•	•	•	•	•				Jm		•		8.98
NUT, Fuel Injection Nozzle Retainer	_	•															•	•	
	•	•	•	•	•	•	•	•	•	•	•				um.			•	10.37
NUT, Fuel Pump Stud																80	•	•	••
CAPSCREW, Fuel Pump Base (Allen)	•	•	•	•	•	•	•.	•	•	•	•	٠	•	•	•	- 00 . • 00	•	•	11
NUT, Camshaft Bearing Cap Stud	•	•	•	•	•	•	•	•	•	•	·	•	•	•	•	120.	•	-	16.6
CAPSCREW Idler Gear Mount Brooket	•	•	•	•	•	•	•	•	• -	•	•	•	•	•	• - '		•	•	27.6
CAPSCREW, Idler Gear Mount Bracket	•	•	•	• .	•	•	•	•	•		•	٠	•	•	٠	120.			16.6
NUT, Flywheel Bolt	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	4500.	•.	•	622.3
NUT, Crankshaft Counter Weight	•	•	•	•	•	•	•	•	•	•	•.	.•	•	.•	•	1000.			138
CAPSCREW, Rocker Shaft	•	•	•	•	•	:	•	•	•	•	•	•	•	•	•	365.			50.5
CAPSCREW, Sub-Cover to Cylinder Head		•	•	•	•	•	۹.	•	•	٠	•	•	•	•	•	120.	•	•	16.6

\*Heat treated bolts are identified by the figure "4" stamped on end of bolt. \*Not applicable if pre-stressing method is used.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

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# GENERAL TOROUE VALUES

The torque values given on the preceeding page are for specific applications and are to be used. The following torque values are for general application where no specific values are given.

Bolt Size &															·				I	orq	ue	·
No. Threads									•								!	(ft·lb)				<u>(Kq·m)</u>
3/8-16				•						•		•			•	•	•	12			•	1.66
3/8-24				•									•			•		15			•	2.08
1/2-13					•									•		·.	•	30	•	•	•	4,15
1/2-20						•									•			35		•	•	4.74
5/8-11						•			•				•	•			•	60	•	•	•	8.29
5/8-18													•		•		•	70	•	•		9.68
3/4-10													•			•		100			•	13.83
3/4-16																		115.				15.90
7/8-9															۰.			160				22.13
7/8-14		•														•.	•	180				24.89
1-8	,	•	•	•	•	·		Ż										245				33.78
1-14	•	•		•	•	•	•	•	÷									290				40.11
1-1/8-7	•	•		•	•	•	•	ľ										335				46.33
1.1/8-8	•	•	•	•	•	•	•	•	•	•	ľ	·	÷			-		355				48.00
1.1/8-12	•	•	•	•	•	•	•	•	•	•	•	•	•	•		Ū.		395	Ż			54.53
	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		480	·			66.38
1.1/4-7 .	•	•		••	•	•	•	•	•	•	•	•	•	•	÷	•		500	•	•		69.15
1-1/4-8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		550	•.	•	•	76.07
1-1/4-12	•	•	•	•	•	•	•	•	٠	•	•	•	•	.*	•	•		620	•	•	•	85.75
1-3/8-6	•	•	٠	•	•	٠	•	٠	•	•	•	•	•	•	•	•	-	680	•	•	•	94.04
1-3/8-8	•	•	٠	•	•	•	•	. •	•	•	•	•	•	•	•	•			•.	•	•	
1-3/8-12	•	•	•	•	•	۰.	•	•	•	•	`•	•	. •	•	•	•	-	745	•	•	•	103.03
1-1/2-6	• '	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		735	•	•	•	101.65
1-1/28	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		800	•	•	٠	110.64
1-1/2-12	•	•	•	•	•	•	•	•	•	•	•	••	•	•	•	•	•	865	•	•	•	119.63



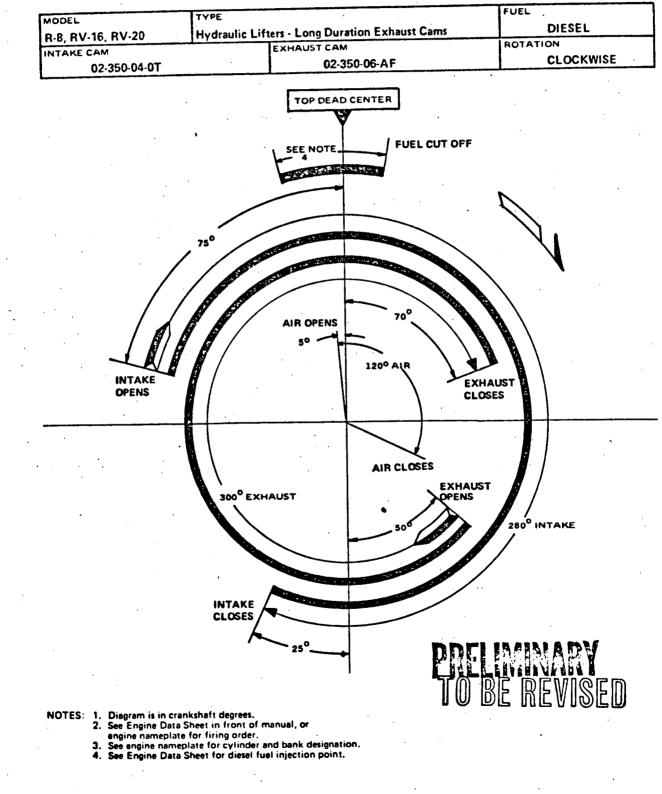


DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



#### APPENDIX V

#### TIMING DIAGRAM



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- Uresel.

Power Engines

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DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



#### APPENDIX VI

#### LUBRICATING OIL RECOMMENDATIONS

The DELAVAL Engine and Compressor Division does not recommend lubricants by brand name. The final measure of the quality of an oil is its performance in service. The lubricant supplier must work with the fuel oil supplier to insure the use of the proper lubricant. The consistent quality and performance of a suitable heavy duty oil must, therefore, be the responsibility of the company making the lubricant.



It must be the concern of the operator to consult with the oil supplier concerning the proper selection of a lubricant which will perform compatibly with the type of fuel to be used in order to insure the most satisfactory performance and life with overall economical operation. In the case of unresolved questions, the DELAVAL Engine and Compressor Division should be consulted.

To determine the condemning limits for oil in service, have the oil supplier take representative samples at regular intervals for oil analysis. His recommendations, then, for either further service or for condemnation will be based on qualitative factors. The following applies to new oil only.

#### RECOMMENDED LUBRICATING OIL CHARACTERISTICS

#### SAE GRADE 40 OIL

	<u>Maximum</u>	<u>Minimum</u>
Viscosity Index (ASTM D567)	-	70
Gravity, A.P.I. at 60°F (25.6° C) (ASTM D287)	30	20
Flash Point <sup>o</sup> F (ASTM D92)	-	425 (218 <sup>0</sup> C)
Pour Point <sup>O</sup> F (ASTM D97)	_	10 (5.6 <sup>0</sup> C)
		below coldest
	•	oil starting
		temperature

#### **OIL RECOMMENDATIONS**

DUAL FUEL ENGINES: Use low ash lubricating oil of the following specifications.

Engines rated 205 bmep and below - API/SAE Classification "CC" or better.

Engines rated 206 bmep and above - API/SAE Classification "CD" or better.

DIESEL ENGINES (Using fuel oil with less than 1.05% sulfur):

Engines rated 205 bmep and below - API/SAE Classification "CC" or better.

Engines rated 206 bmep and above - API/SAE Classification "CD" or better.

#### **HEAVY FUEL ENGINES:**

Engines using fuel oil with less than 1.5% sulfur - Use classification "CD" oil only.

Engines using fuel oil with more than 1.5% sulfur – Use classification "CD" lubricating oil, worked out for high sulfur service in conjunction with lubricating oil supplier.

8-7

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF, 94621



### APPENDIX VII

## ALARMS AND SAFETY SHUTDOWNS

The following sensed parameters will initiate an alarm and/or an automatic safety shutdown as indicated.

	ITEM	ALARM SETTING	SHUTDOWN SETTING
	Jacket water (outlet)	_	200° Frising
	Engine lubricating oil		200 <sup>°</sup> F rising
Ì	Engine main bearings		228 <sup>0</sup> F rising
	Jacket water	X	220 i Hallig
ŝ	Stator winding	X	
۱s	Lubricating oil	x	
TEMPERATURES			· · · · · · · · · · · · · · · · · · ·
۳.			
ž			<u>+</u>
16			<u>+</u>
			<u> </u>
	Engine lubricating oil	40 psi falling	
	Turbocharger lubricating oil	20 psi falling	30 psi falling
	Crankcase pressure		15 psi falling
	Engine fuel oil	20 psi falling	High
	Engine fuel oil filter $\triangle$ P	15 psi rising	
ŝ	Lubricating oil filter $\Delta$ P	20 psi rising	
PRESSURES	Transfer line G74A, G74B (G75A, G75B)	Owner's Equip.	· · · · · · · · · · · · · · · · · · ·
S	Starting air	210 psi falling	
PR	G74A, G74B (G75A, G75B) strainer △ P	Owner's Equip.	
-	Instrument Air Receivers	Low	
		L0w	
		······	
	Engine overspeed (10% above rated speed)		495 rpm rising
	Generator 4160 V bus breaker	Tripped	495 rpm rising
	Generator Differential		Eutota-
1	MCC Switchgear	Tripped	Existing
	Lockout Relay	Trip position	
	Generator	Under Freg.	
~	Engine	Tripped	
HE	Motor feeder	Tripped	
El	Day tank level	H/H or L/L	
-	Crankcase door	Open	
	Jacket water level	Low	
	Lubricating oil day tank level	High	
	Storage tank level		
	Engine vibration	Low	
- Г	Overcurrent with voltage restraint	Existing	Excessive

# These are only trips operative when unit running in response to an emergency start diesel signal from owner's equipment.

DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



## APPENDIX VII (Continued)

	ITEM	ALARM SETTING	SHUTDOWN SETTING
	Field excitation	Loss of	
	Stator Ground	Present	
	Direct current bus	Low voitage	
	Phase sequence	Negative	
	Fuel pump/overspeed drive	Failure	
	Direction power	x	
[	Battery charger	Failure	
	Generator	Over excitation	
	Generator	Over voltage	
	Voltage balance	X	
[	Exciter semi conductor	Failure	
	Lubricating oil standby pump	ON	
~	Space heater	Trouble	
OTHER	Switchgear switch 3, DC	Under voltage	
Ē	Direct current bus 1	Ground	
Ŭ.	Missile resistant doors	Open	
	Direct current bus 1 ( or 2 )	DC/ACB tripped	
		or low voltage	
	Unit in maintenance	Yes	
	Fire protection system	Activated	
	Alarm contacts	Grounded	
	Panel rear doors	Open	
	Drainage sump level	High or H/H	
	Diesel generator battery room	Below 60 <sup>0</sup> F	
	Barring device	Engaged	
		·	
	·····	<u> </u>	





DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

### APPENDIX VIII

### FUEL OIL SPECIFICATIONS

	Maximum	<u>Minimum</u>
Viscosity, S.S.U. at 100 <sup>0</sup> F	45	32
*Gravity, Deg. A.P.I.	· 38	26
Sulphur, %	1.05	
Sulphur, Corrosion Test (Copper Strip, 3 hrs. at 212° F)	Pass	Pass
Conradson Carbon, %	0.20	· _
Ash, %	0.10	-
Water & Sediment, %	0.50	. –
Flash Point, <sup>O</sup> F (P.M.C.C.)		150 or legal
Pour Point, at least 10 <sup>0</sup> F below coldest fuel oil temperature		
DISTILLATION, <sup>o</sup> F		
90% Point	675	·
-	675	

IGNITION QUALITY Cetane Number

\*Heat Value - determine from A.P.I. gravity limits shown to determine total or net Btu/lb or gallon.

The above specification covers fuel oils classed as Grade F.S. No. 2.

Fuels heavier than the above can be burned in Enterprise engines provided proper treating and pre-heating facilities are available. In the event it is desirable to use such fuels, DELAVAL Engine and Compressor Division should be consulted for advice as to the arrangements that need to be made. An analysis of the particular fuel to be used must be provided.

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For lubricating oil recommendations, refer to Section 2, Page 5.



G/R/RV/GVB-74

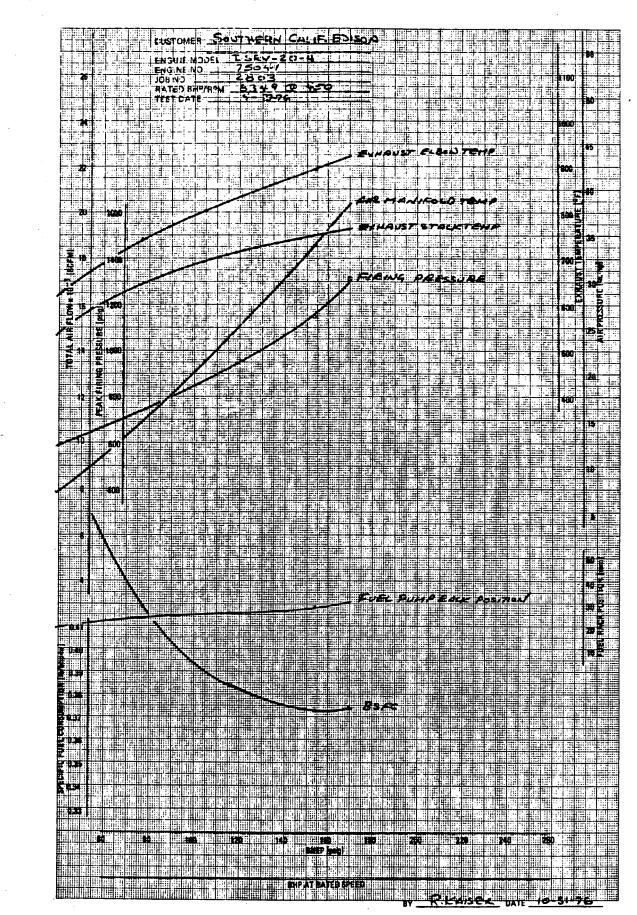
DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



### APPENDIX IX

## POWER ENGINE FACTORY TEST LOGS

Copies of the Power Engine Factory Test Logs are provided in this appendix to assist operating personnel in becoming familiar with the operating characteristics of the engine. The data included is that recorded during actual factory test of the engine.



Form D-4261 (Dissel) (R-1) 8/76

HILD-4261 (Dialas) (14-1) 6/76

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   | ARB  | 370  <br>358  <br>497  <br>578  <br>652  <br>729   | 352<br>352<br>574<br>574  | 114451<br>11<br>13<br>173<br>173<br>153<br>15<br>159<br>0<br>15<br>159<br>0<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15<br>15   
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  | 41<br>340<br>377<br>408<br>605<br>704   | 14<br>361<br>572<br>691<br>777<br>836  | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | 383.3<br>449.4<br>547.5<br>646.4<br>749.7  
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  | POWER EF<br>DIRECTION<br>DIRECTION<br>21<br>23<br>23<br>23<br>35<br>507<br>35<br>507<br>35<br>507<br>35<br>507<br>47<br>709<br>5029<br>7 8 10   | 195<br>374<br>487<br>578<br>664<br>819   | 41<br>340<br>377<br>406<br>405<br>704<br>624<br>819   | 14<br>361<br>361<br>361<br>572<br>691<br>777<br>836<br>829  
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  | 63<br>85<br>26<br>57<br>1.8<br>88   |
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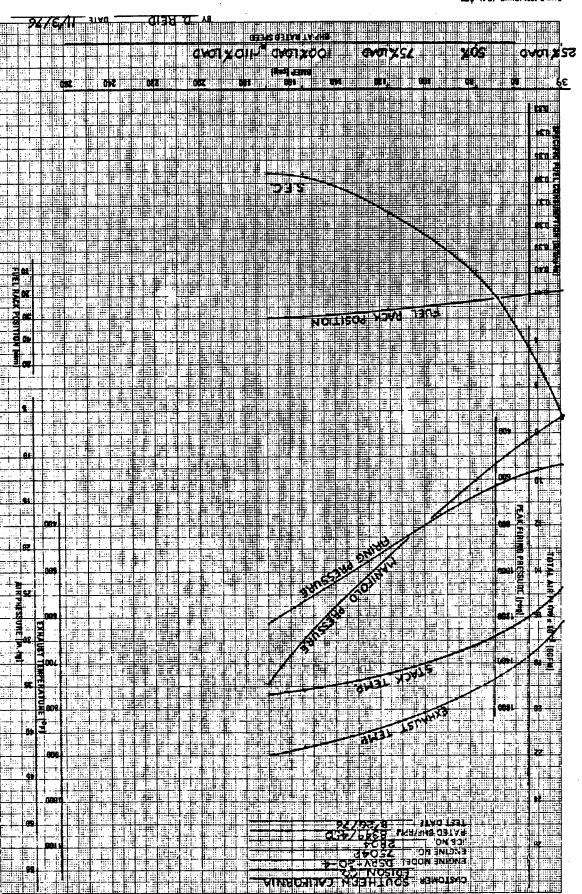
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  | een <u>0</u><br>55<br>55<br>5<br>5<br>6<br>5<br>6<br>87<br>5<br>6<br>87<br>5<br>6<br>87<br>5<br>5<br>5<br>5<br>6<br>87<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5   | 42<br>120005<br>142<br>120005<br>14<br>405<br>405<br>411<br>4<br>546<br>5<br>678<br>6   | G. 8<br>POMEN<br>DIRECT<br>11 21<br>00 43<br>14 43<br>21 53<br>48 45   | 150NE<br>Exame /<br>Tran of a<br>1 38<br>17 4/5<br>17 4/5<br>17 531<br>1 531<br>1 66 2  
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   | 26 HO<br>10 HO<br>10 HO<br>11<br>4/6<br>430<br>523<br>645  | 280<br>LOG  | 1<br>   | 18 1<br>10 4<br>11 5<br>15 6   |
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  | EAR<br>ATURES<br>34<br>3526<br>454<br>5750   | 41<br>37/<br>411<br>37/<br>411<br>545<br>681<br>780  | H<br>38/4<br>424 4<br>542 5<br>683 6<br>763 7  | a 3<br>40 4<br>63 5<br>47 6<br>76   | Engine<br>WThe<br>Bucard II<br>50 365<br>20 39<br>20 39<br>29 52<br>50 67,5<br>50 67,5<br>50 67,5<br>50 67,5  
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  | EAR<br>1/1 VWH<br>ATUARE<br>31<br>360<br>1 397<br>3 526<br>6 54<br>6 750<br>7 939  | 41<br>37/<br>411<br>37/<br>411<br>545<br>681<br>780<br>86/   | 14 22 4<br>54 2 5<br>68 3 6<br>76 3 7<br>84 7 7  | u 3<br>40 4<br>63 5<br>47 6<br>64 7<br>63 8   | Engine<br>untrie<br>50 363<br>20 34<br>20 34<br>29 52<br>30 475<br>30 br>40<br>40<br>400<br>400<br>400<br>400<br>400<br>400<br>400<br>40   | acen D.<br>333<br>340<br>750<br>817<br>1395<br>0517<br>5687<br>875<br>975<br>975   
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  | EAR<br>ATUREL<br>2 3400<br>1 397<br>3 526<br>4 54<br>5 750<br>7 939<br>9 8/8<br>9 8/8<br>9 875   | 41<br>41<br>37/<br>411<br>545<br>681<br>780<br>847<br>849<br>898<br>897  | 14 14 14 14 14 14 14 14 14 14 14 14 14 1   | 40 4;<br>63 5;<br>64 6;<br>64 7;<br>64 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7; | Encine<br>WTTHE<br>BOCOME II<br>IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII   | no 750<br>n 750<br>n 8<br>7 395<br>0 517<br>5 687<br>4 795<br>0 875<br>5 1865<br>7 932<br>1 920  
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                                    | T<br>  | 14 / 18<br>394<br>4/8<br>543<br>678<br>748<br>834<br>818<br>873<br>864   | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | 711<br>4/6<br>430<br>523<br>645<br>80/1<br>80/1<br>80/1<br>837<br>850<br>850<br>850<br>850<br>850<br>850<br>850<br>850  
  | 2.80<br>1.00  | 1<br>   | 18 1<br>10 4<br>17 1<br>15 6<br>14 1<br>17 1<br>17 1<br>17 1<br>17 1   |
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   | RLET IT  | 4VIESON<br>4   | . (JAKLA<br>EDISC)<br>- BOTTO<br>I (RB   |  
  |   |              | u<br>(44<br>734   | TURBE<br>NI<br>714<br>753<br>751   | 657<br>718<br>721<br>756<br>747   | AST<br>RA<br>74<br>774<br>774  
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   | NUCI<br>122<br>NUCI<br>122<br>NUCI<br>137<br>14<br>37<br>14<br>37<br>16<br>37<br>10<br>10<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12<br>12   
  | EAR<br>ATUREL<br>2 3400<br>1 397<br>3 526<br>4 54<br>5 750<br>7 939<br>9 8/8<br>9 8/8<br>9 875   | 41<br>41<br>37/<br>411<br>545<br>681<br>780<br>847<br>849<br>898<br>897  | 14 14 14 14 14 14 14 14 14 14 14 14 14 1   | 40 4;<br>63 5;<br>64 6;<br>64 7;<br>64 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7;<br>65 7; | ENGINE<br>WITHE<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOCALL<br>BOC | R<br>2 376<br>7 395<br>0 517<br>5 687<br>4 795<br>0 75<br>5 1865<br>7 932<br>1 920<br>0 647  
  | 42<br>1100057<br>405 4<br>407 4<br>411 4<br>546 5<br>678 6<br>772 7<br>877 8<br>855 8<br>928 8<br>911 8<br>587 6  | G. 8<br>Pome n<br>Dene c<br>11<br>10<br>11<br>11<br>11<br>11<br>11<br>11<br>11<br>11   | 15 ON 6<br>15 ON 6<br>1 11<br>17 4/5<br>17 4/5<br>17 4/5<br>17 4/5<br>17 4/5<br>19 53<br>19 64 2<br>5 73 5<br>19 80<br>19 85<br>19 85<br>15 85<br>16 85   
                                    | T<br>  | 14 / 18<br>394<br>4/8<br>543<br>678<br>748<br>834<br>818<br>873<br>864   | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10   | 711<br>4/6<br>430<br>523<br>645<br>80/1<br>80/1<br>80/1<br>837<br>850<br>850<br>850<br>850<br>850<br>850<br>850<br>850  
  | 2.80<br>1.00  | 1<br>   | 18 1<br>10 4<br>17 5<br>15 1<br>14 7<br>17 1<br>17 1<br>18 1   |
|  |  | 974<br>4 AAD 1<br>4 E A<br>7 T<br>170   |  
   |  | AVESION<br>AFE   | , OAKLA<br>EDISC<br>IIII<br>IIII<br>IIII<br>IIII<br>IIIII<br>IIIII<br>IIIII<br>IIII  |  
  |   |              | 444<br>734  | 714<br>753<br>751<br>529   | 657<br>718<br>721<br>756<br>747<br>538  | na<br>na<br>na<br>na<br>na<br>na<br>na<br>na<br>na<br>na   
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DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621



### DRAWINGS

The drawings provided in this manual are intended for the customer's use in the installation and operation of the unit. They include installation, foundation (where applicable) and system piping schematic drawings. Control system drawings are also included. Assembly drawings may be found in the Parts Manual, Volume 11.



DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND. CALIF. 94621



### **PIPING SYMBOLS**

LEVEL GAUGE PRESSURE REDUCER L MANOMETER PLUGGED  $\bowtie$ GATE VALVE Х P PRESSURE SWITCH E GLOBE VALVE U STRAINER DIAL THERMOMETER DIRECTION OF FLOW 区 PLUG VALVE T TEMPERATURE SWITCH -D-BUTTERFLY VALVE WELD REDUCER Ø SIGHT FLOW GAUGE S (Tight Sealing Type) ENGINE SHUT DOWN SCREWED CAP AND CHECK VALVE כ– T SP PRESSURE SWITCH NIPPLE **⊣|⊢** UNION  $\otimes$ STOP COCK (PYR) PYROMETER WELD CAP SAFETY OR RELIEF  $\square$ PRESSURE SHUT DOWN ELEMENT 沟 VALVE PRESSURE CONNECTION -TEMPERATURE CONNECTION -Requires 1/2" coupling, nipple, stop cock, 1/2" x 1/4" bushing Requires 4" haif coupling for all dial thermometers and separable socket -<u>P</u>d thermometer wells and 1/2" half couplings and 4" plug. (Field locate -0as directed by owner.) for temperature switches, etc. (Field locate as directed by owner.) S STRAINER "Y" SOLENOID VALVE TEMPERATURE SHUT DOWN DRESSER COUPLING HH ELEMENT EXPANSION JOINT ---- ELECTRIC WIRING 1 ORIFICE - CAPILLARY TUBING **(A)** ALARM CIRCUIT Q (P) PRESSURE GAUGE THERMOMETER M TEMPERATURE GAUGE METER **(T**) FLOAT VALVE F OFLOAT SWITCH Ŵ THERMOSTATIC TEMP. This form same as DIAPHRAGM CONTROL  $\bowtie$ CONTROL VALVE VALVE Form D-4313

Form CAT 123 3/75

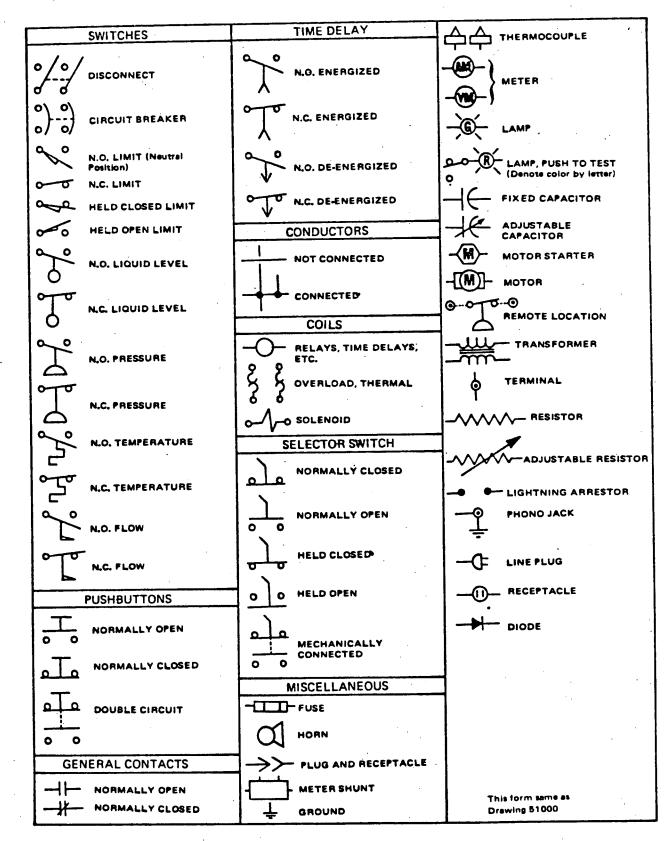
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# DELAVAL

## ELECTRICAL SCHEMATIC SYMBOLS



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### DELAVAL ENGINE AND COMPRESSOR DIVISION 550-85TH AVENUE OAKLAND, CALIF. 94621

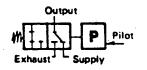


### VALVE SYMBOLS

TWO POSITION VALVE (W/O ACTUATOR)	ACTUATORS
Basic two position	Spring return
Two way, two position	Manual push a tuator
Three way, two position	Manual pull actuator
Four way, two position	Detented manual actuator
Five way, two position	Pressure actuator
THREE POSITION VALVE (W/O ACTUATOR)	Solenoid actuator
Basic three position	
Three way, closed center, three position	Flow actustor
Three way, open center, three position	L Liquid level actuator
Four way, closed center, three position	Temperature actuator
Four way, open center, three position	<ol> <li>Actuators (there may be one or two) are shown attached to either end of valve symbol.</li> </ol>
Five way, open center, three position	<ol> <li>Valve symbols are always shown in non-actuated, i.e., "Normal, relaxed" condition.</li> <li>The tube or pipe connections to the valve are considered</li> </ol>
Five way, closed center, three position	to be immoveable, while the internal passage blocks are mentally shifted between the external connections to visualize valve action.

EXAMPLES:

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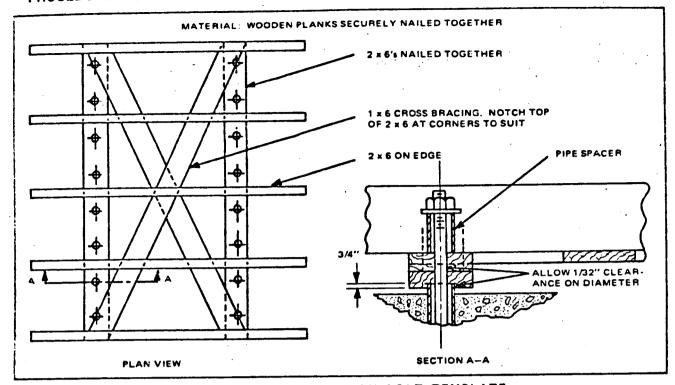


Three-way valve, two position, pressure actuated, spring return

Valve connected normally closed (supply shut off when no pilot pressure exists). Note output is connected to exhaust.

Valve shown with pilot pressure applied (actuated). Supply is now connected to output, and exhaust is blocked. Note that connections have not moved, and valve body is shifted to the left, causing the right passage block to come beneath the connections. Also note, this view will not show up on drawings.

## PROCEDURE NOTES FOR MOUNTING ENTERPRISE ENGINES ON CONCRETE FOUNDATIONS



SUGGESTED FOUNDATION BOLT TEMPLATE

OBSERVE THE FOLLOWING SEQUENCE OF OPERA-TION:

- 1. Construct a foundation bolt template, using certified foundation drawing to determine positioning of foundation bolt holes. See sketch for a suggested template design. Exercise great care in locating bolt centers.
- 2. Position and support template from foundation forms, securely anchoring it to prevent movement.
- 3. Thread foundation bolt into lower nut in shield assembly, being careful not to damage cap at bottom of nut. Insert foundation bolts and shields in holes provided in template, then tighten upper nut. Shields must be securely held in correct position to prevent any movement during pouring of concrete. A suggested method is to use reinforcing rods, welded to each sleeve, or on top of each anchor plate in both rows of bolts running the length of the engine, and then adding "X" bracing between the two rows of bolts. Another method is to tie the bolt assemblies to other reinforcing rods already in the foundation.
- 4. Recheck template positioning, alignment and elevation before pouring concrete. It is recommended that a DELAVAL Engine and Compressor Division Service Representative be present to check bolt layout.

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- Foundation is to be poured monolithic and must suitably reinforced with reinforcing steel. Let concrete set for 10 days before installing equipment and 30 days before running equipment.
- 6. Top surface of foundation must be roughened wherever

grout is to be applied to remove laitance, oil stains, etc., and to provide a rough, dry surface for good bonding of epoxy grout to foundation.

- 7. Remove engine foundation bolts from shields and set aside where they will not be damaged. Place jacking screw plates in position at each jacking screw location. Plates should either be imbedded in foundation before concrete sets, or grouted in place.
- 8. Bring engine into position over foundation. If engine is rolled into position, ends of foundation bolt shields must be protected to prevent damage.
- 9. Insert toe jacks at four corners of engine, just inboard of shipping skids to support engine while skids are being removed. CAUTION: To avoid damage to base casting, do not locate jacks at center of engine. Remove shipping skids, clean engine mounting rails and lower engine to grade. Be sure foundation bolt holes in engine base are correctly aligned with foundation bolt sleeves in foundation for easy installation of foundation bolts.
- 10. Clean sole plates and chocks with a degreasing type solvent. After cleaning, it is recommended that sole plates be primed with a primer recommended by grout manufacturer. Lubricate threads of jacking screws with a mixture of powdered graphite and engine lubricating oil. Lower end of jacking screws should be coated with wax to prevent epoxy grout material from binding to screws.
- 11. Place sole plates and chocks in position under engine as shown on foundation drawing. Install sole plate retainers on front and rear sole plates, making sure sole plates are forced tightly against shoulder at inner edge of engine

mounting rails (The front and rear sole plates at each side of the engine are designed to make contact with the mounting rail shoulder and are intended to restrain side movement of the engine.)

- 12. Lubricate threads at lower end of foundation bolts with standard mixture of engine oil and powdered graphite, then replace bolts in sleeves and screw firmly into threads at bottom of sleeve. Lubricate upper threads with oil and graphite mixture then place washers and nuts on bolts.
- 13. Level and align engine, following crankshaft alignment instructions on DELAVAL Engine and Compressor Division Form D-1063 (Revised 12/71). Record deflection readings on form. Insure that all sole plate jacking screws are so adjusted as to distribute the weight evenly on all sole plates. When leveling and alignment is satisfactory, snug down foundation bolts to prevent movement of engine during generator installation and grouting.
- 14. Attach sole plates to generator and outboard pedestal bearing, using approximately 1/8 inch of shimming material between each sole plate and generator or pedestal. To provide insulation protection against circulating currents, 1/16 inch of the shimming between the sole plates and the pedestal bearing must be insulation material.
- A DELAVAL Engine and Compressor Division Service Representative must be present to supervise the alignment of the engine. See Instruction Manual, Section 2, Page 1, Paragraph B, "Placing and Aligning Engine on the Foundation".
- 16. If not already installed, attach flywheel to crankshaft. Carefully clean and de-burr all mating surfaces of flywheel, crankshaft coupling flange and driven equipment coupling flange, including bolt holes. Lubricate crankshaft flange and flywheel counter bore with a light coat of anti-seize lubricant such as "Molykote" or "Lubriplate" and mount flywheel on crankshaft flange. Insure one-half inch locating holes are aligned. Make sure no dirt or other foreign matter is present between mating surfaces. Attach three retainer plates to flywheel and draw flywheel up on crankshaft flange until seated.
- 17. Bring generator and pedestal into position and attach generator shaft to flywheel. Lubricate bore in flywheel and connecting shaft flange with a light coat of anti-seize lubricant. Align half inch locating hole in flange with hole in flywheel and bring connecting shaft into engagement with flywheel. Be sure no dirt is allowed to get between mating surfaces. Insert two long 1 or 1% inch diameter bolts through two opposite flywheel bolt holes and draw connecting shaft flange until flange is seated. Check with feeler gauges between face of connecting shaft flange and flywheel to be sure flange is fully seated and square with flywheel. Lubricate two special aligning dowels with a thin coat of anti-seize lubricant (dowels and special flywheel bolt reamers are available from DELAVAL

Engine and Compressor Division Service Department), and tap them into two opposite flywheel bolt holes. *Do not drive dowels up hard*. Ream two flywheel bolt holes with the special reamer and measure diameter of reamed hole to the nearest 0.0005 inch. Compare diameter of reamed hole with diameter of bolt. Reamed holes should be approximately 0.0005 inch larger than the bolts to allow for an easy tap fit. Flywheel bolts *must not* be driven with a sledge, jack or "Porto-Power". Fit bolts into two reamed holes, screw nuts on bolts and draw up tight. Use anti-seize lubricant on bolts and powdered graphite and engine oil on threads. Remove two temporary bolts and aligning dowels, ream holes and fit remaining bolts. Torque all bolts to the specified torque.

- 18. Check crankshaft alignment, then align outboard pedestal bearing. Line stator up with rotor and moderately tighten stator and pedestal foundation bolts with jacking screws in place. Check entire alignment, including crankshaft alignment. Record crankshaft deflections on Form D-1063.
- 19. Pour and vibrate grout under engine, generator and pedestal bearing. Carter Waters No. 604 or Ceilote No. 648 grout may be used. It is recommended that a representative of the grout supplier be present at the installation to be sure the grout is prepared and place in accordance with manufacturer's specifications. Do not fill bolt shields with grout. If a ramming strap is used, its movement should be slow so as not to entrain excess air in the grout.
- 20. After grout has cured, back off sole plate jacking screws one turn each and torque foundation bolts to recommended torque value. Snug all bolts in a criss-cross pattern, then apply a light torque to each, using the same criss-cross pattern. Continue applying torque in increments and in the same pattern until final torque value is reached. Foundation bolts should be torqued to the following values:

Er	ngine Model	Torque (ft-lb)
	G	650
	HV, HVA, HA	480
	<b>Q, R</b>	1400
	RV	3800

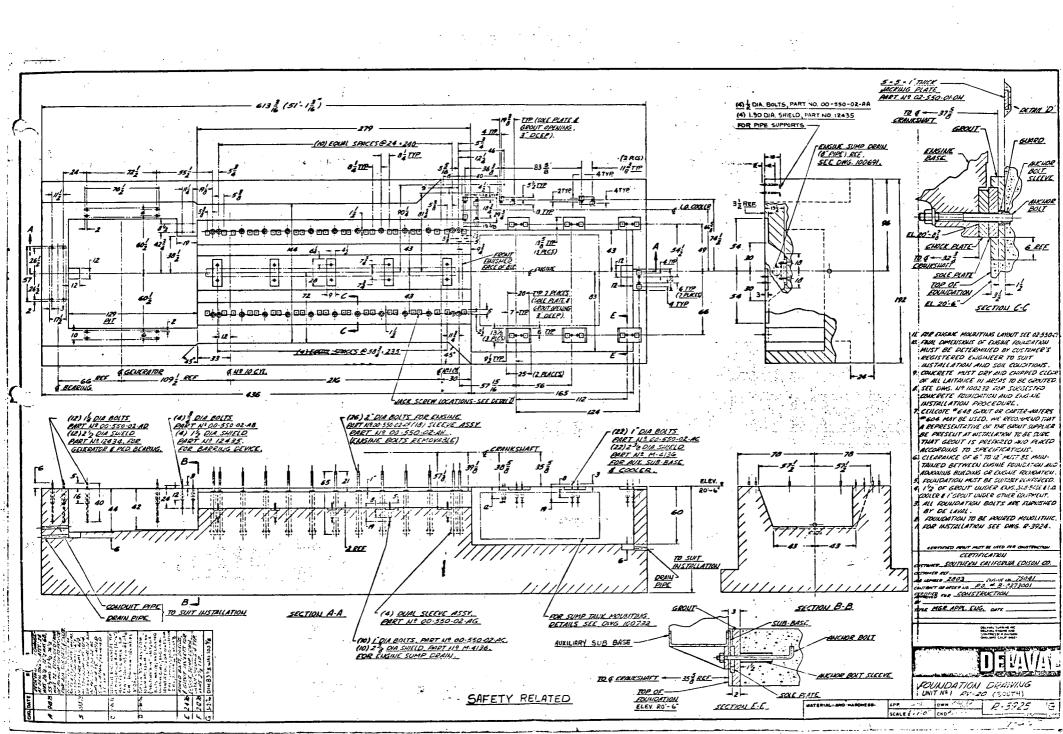
- 21. If foundation bolts are re-tightened at a later date, the nuts must be removed and re-lubricated in order to get accurate torque values. Dry thread torque readings can be as much as 50 percent in error.
- 22. Recheck entire alignment of equipment and check crankshaft deflections (record readings on Form D-1063). Remove or add shims to pedestal bearing and generator as necessary. Dowel generator and pedestal bearing to sole plates when alignment is necessary.
- Crankshaft alignment should be rechecked after engine start up when engine and concrete foundation are at their normal operating temperatures. Record deflection on Form D-1063.

DELAVAL ENGINE AND COMPRESSOR DIVISION OAKLAND, CALIFORNIA Form D-4848 (Back)

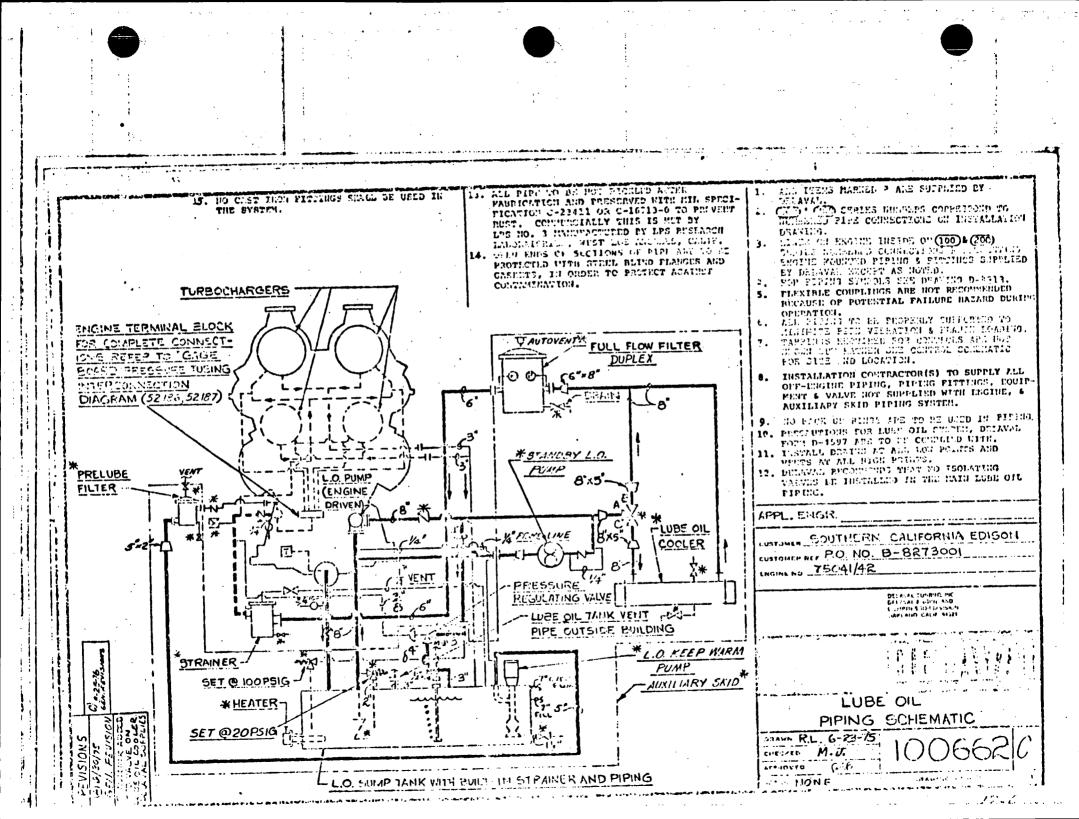
## ENGINE LUBRICATING OIL PIPING PROCEDURE

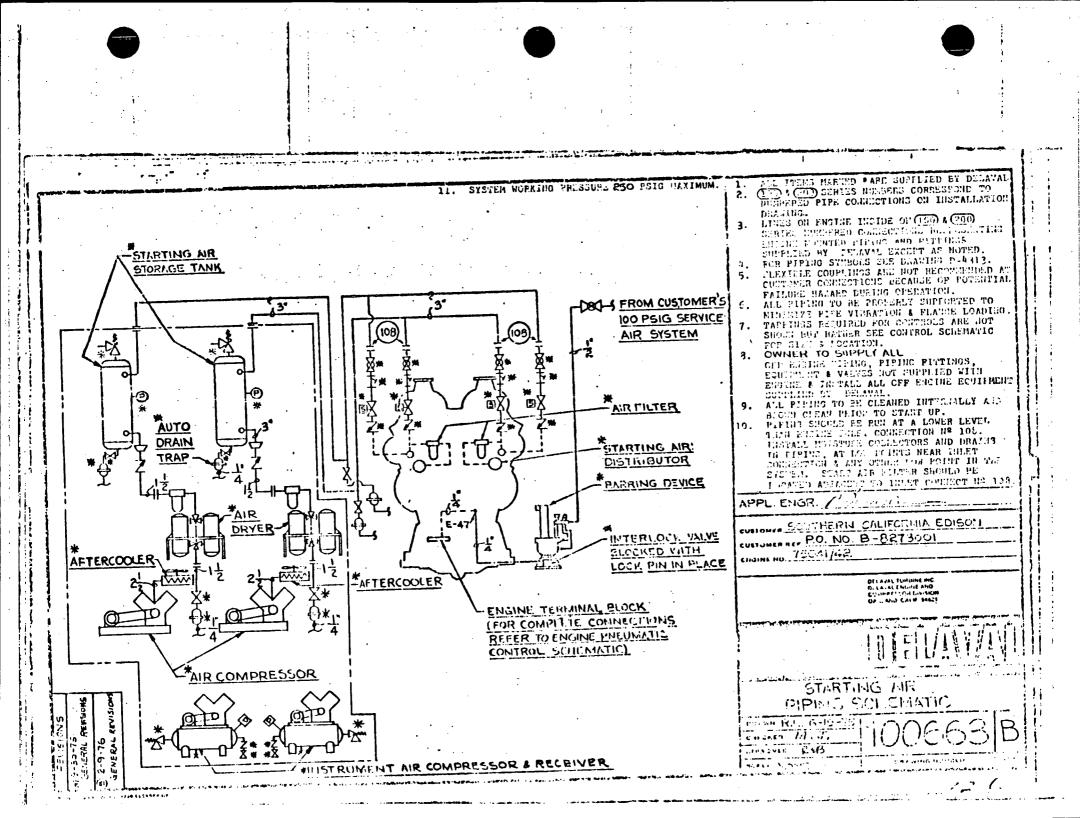
## 1. PRECAUTIONS TO BE OBSERVED DURING CONSTRUCTION OF THE LUBRICATING OIL SYSTEM, AND BEFORE STARTING ENGINE

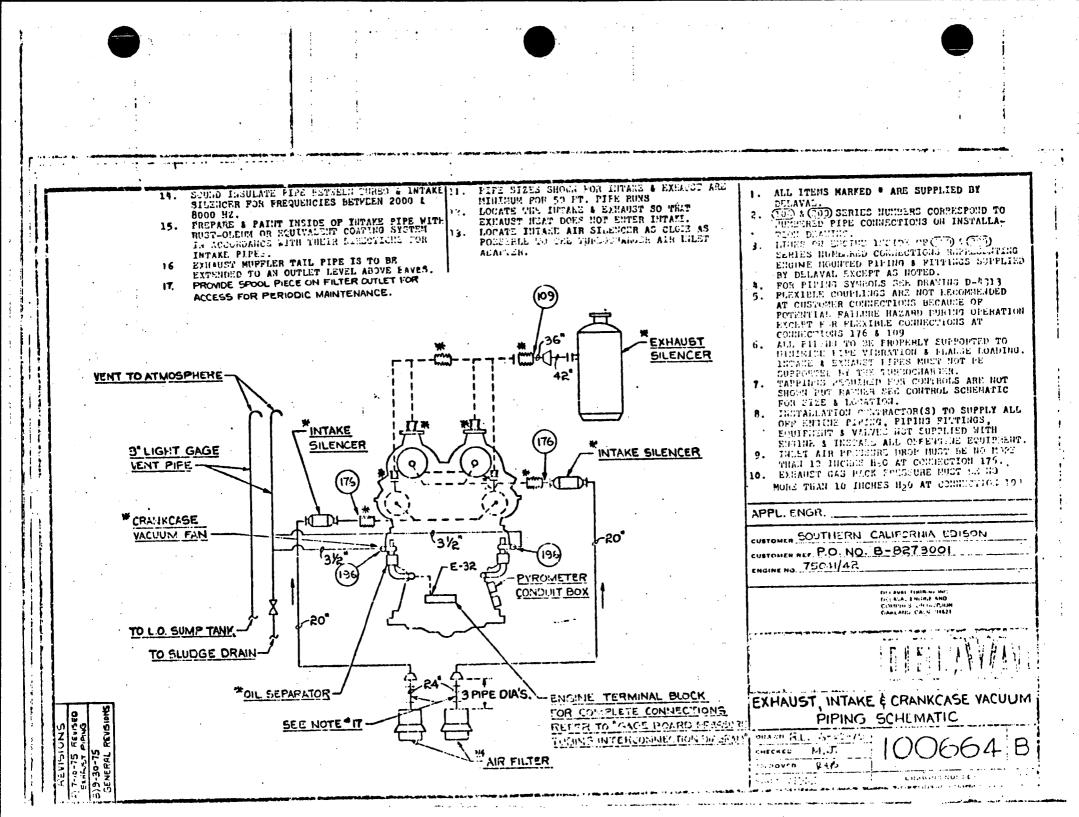
- 1.1. Chill rings should not be used in welded pipe joints because of their tendency to retain scale, welding slag and beads which can come loose as the pipe becomes hot during operation of the engine.
- 1.2. All lubricating oil system piping must be pickled after fabrication to remove varnish, mill scale, welding debris, dirt and grease. The pickled surfaces of the pipe must be coated with a rust preventive compound immediately after pickling to protect them from rust. The compound must be soluble in the lubricating oil that will be used in the engine, and compatible with it so as not to contaminate the oil. Apply the compound by spraying or flooding the pipes — swabbing with rags or mops will leave lint. Ordinary lubricating oil will not prevent rust in the pipes.
- 1.3. Mechanical cleaning will not completely clean the pipes, therefore, this method is not acceptable.
- 1.4. Before the engine is started, the assembled lubricating oil piping system must be thoroughly flushed with oil. Disconnect the pipe at the pressure strainer inlet, (item 168 on installation drawing) and arrange a temporary bypass line from this pipe to the sump tank, or engine base as appropriate. The bypass will permit oil circulation through the piping system without filling the internal lubricating oil system of the engine. Several thicknesses of cloth sack should be secured to the outlet end of the bypass line to catch debris as it is flushed out of the system.
- 1.5. The piping around the lubricating oil cooler requires special attention to insure that the pipes and the cooler are properly flushed. Precautions must be taken to insure the complete removal of testing fluids, water, or other liquids before attemping to flush the cooler.
- 1.6. The oil sump tank and engine base must be carefully cleaned before being filled with oil.
- 1.7. The auxiliary lubricating oil pump, or any continuous duty pump of sufficient capacity, can be used to pump oil during flushing operations. If care was exercised during fabrication of the piping system it should be flushed for at least eight hours. As much as 24 hours of flushing may be required for a dirty system. While the oil is circulating through the system the pipes must be thoroughly pounded several times with a heavy hammer to loosen dirt and debris. Hot flushing oil is recommended as it does a better job of cleaning.
- **1.8.** After flushing is completed, reconnect the piping system for normal operation. Examine all strainers, and filters for cleanliness and for proper assembly.
- 1.9. Disconnect the jumper tubes between the engine lubricating oil header and the main bearings, and be tween the main headers and the auxiliary headers. Secure a nylon stocking over each main header fitting to catch debris that may pass through the system as it is flushed. Cover the main bearing fittings and the open ends of the auxiliary header feeders to prevent entry of dirt. Engine oil should be pumped through the open system for at lease four hours to be sure of removing any foreign material that may have entered the headers during construction.
- 1.10. Reassemble the internal tubes and brackets as required.
- 1.11. The pressure strainer at the engine oil inlet will catch any debris that may remain in the piping system. It may require several cleanings during the first few hours of engine operation.
- 1.12. The utmost caution must be observed in the fabrication and preparation of the lubricating oil system for service. Foreign material of any kind can do a great deal of damage to the crankshaft, bearings, pistons, and cylinder liners.
- 1.13. NOTE, There may be instances where an engine is shipped with the pressure strainer mounted on the engine and connected to the engine lubricating oil header. If it is certain that the pipe connection between the pressure strainer and the engine lubricating oil header has not been disconnected since the engine left the factory, steps 9 and 10 above may be omitted.

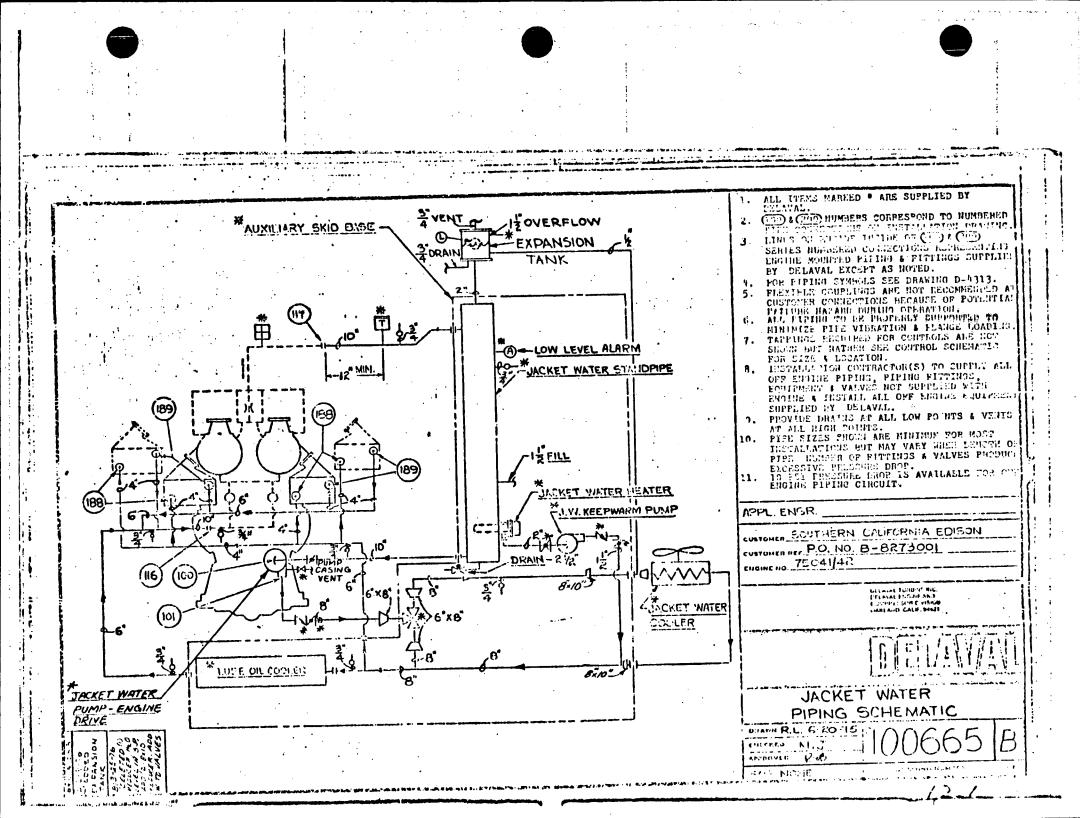


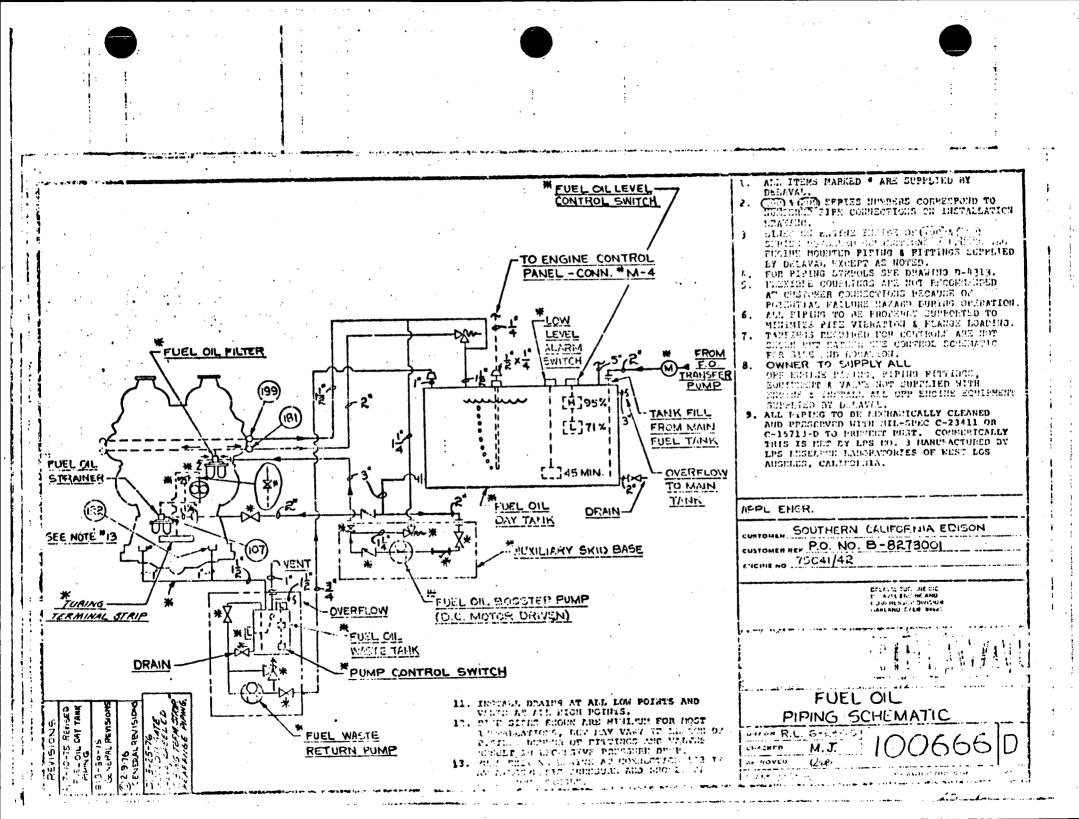
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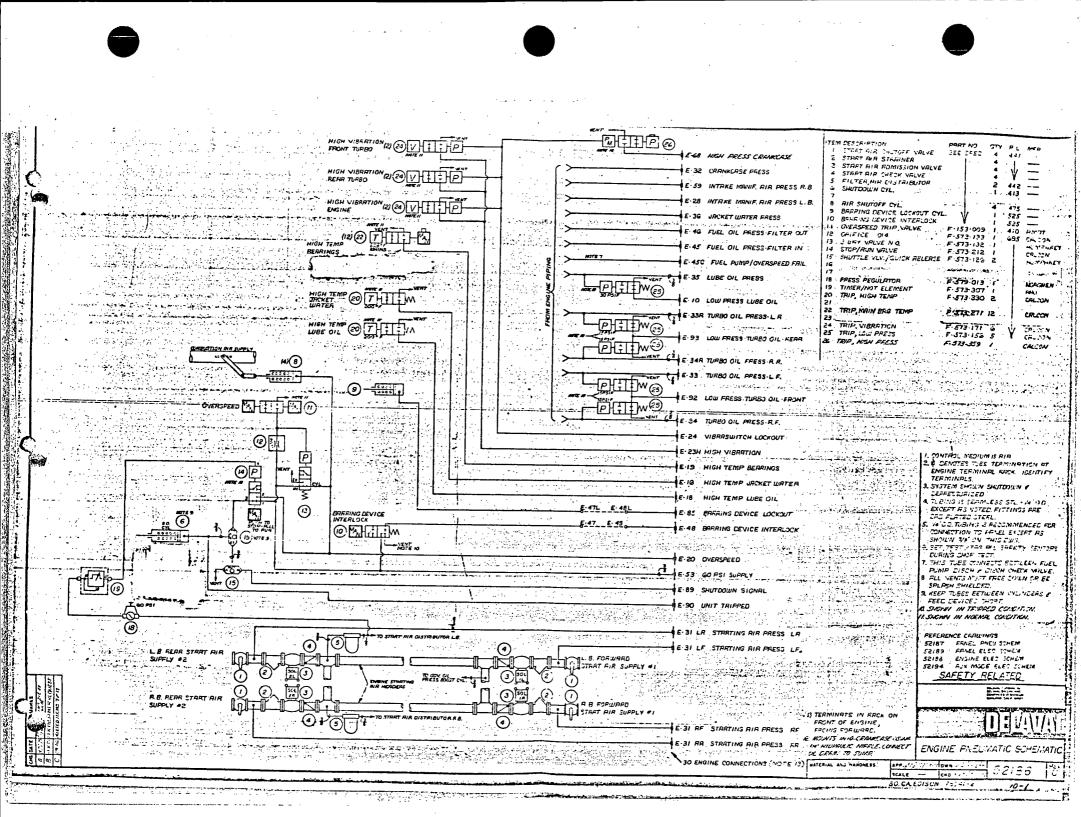






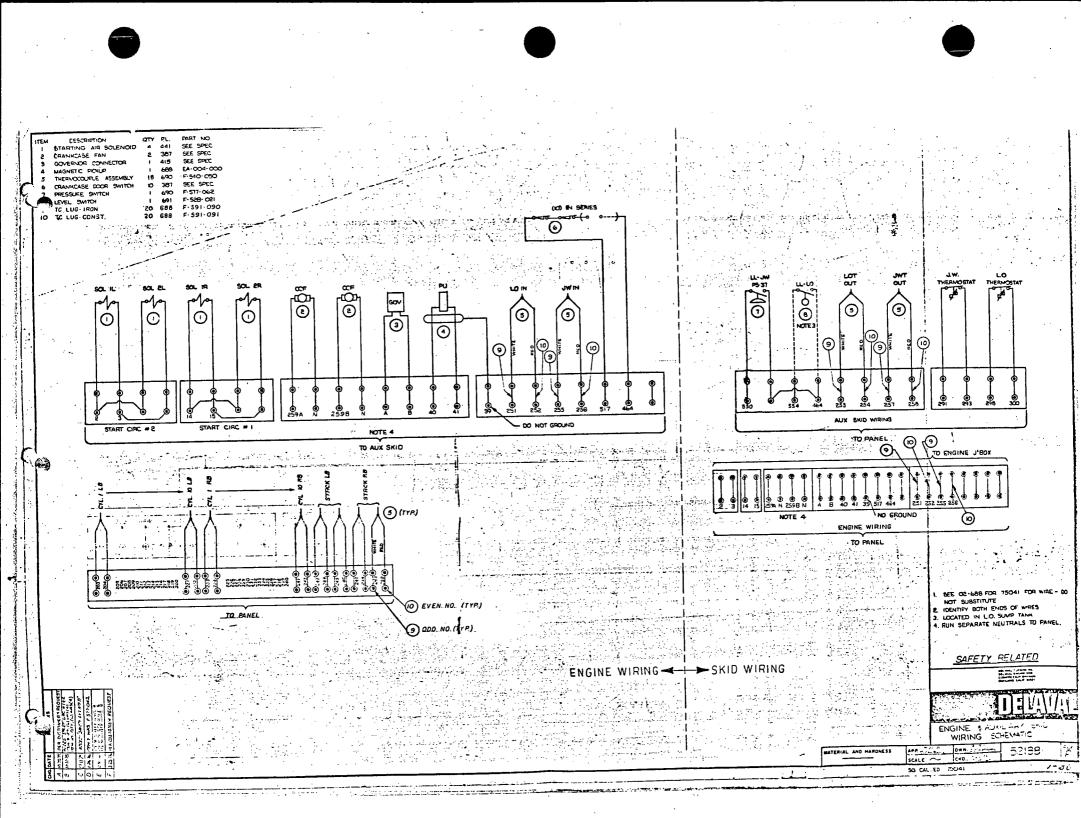






TEM DESCRIPTION PRETIN TRIP- HIGH CRANKLASE FEESS E-68 F 327 532 . . . SETTING FUNCTION + F \_ TEF  $\sim$ . . . . . . 210FOIR ALAAM SENSOR LOW PRESS-STRATING RIR-LF 2 FRESS FEGULATOR F-579-061 Personal Press 3 CRANKCASE FRESS E 32 210PSIR SHUTDOWN LOSIC BD 18-5507 11.000 F-577 045 ZIOPSIR FRESS SUITCH main Pola INTRKE MANIF FIR PRESS P 8 E-59 F-577 046 ZIOPSIR 2. ψ·· 1 ISGPSIF DESIGN BASIS EVENT START CANCEL CIFFERENTIPL F 517-053 INTAKE MANIF AIR PRESS L.B. E.28 ISCPSIF DESIGN BASIS EVENT STERT CANCEL PRESS SPUGE O 300 CUPLEX F 537-129 6:00:01.51 -00 WACKET WATER FRESS E. 36 SOPSIR ALARM SENSOF UNIT TRIPPED F-530 (25 C- GO DUPLEX PS 28 į, UNIT IN MAINT F-530 479 RI BRM 0.100 ♦  $\bigcirc$ OVERSPEED SHUTDOWN F 530 479 ALPAM 0.60 FUEL OIL PRESS FILTER OUT E-46 ASPSIF INTERLOCK V BAPRING DEVICE 20 0 100 HS F-530 400 F7+6+44 (5) 12 REARM SENSORHIGH TEMP LUPE DIE SHUTENEN ñ., co F-470-340 Will 713 JHCKET WATER SHUTLEWN and the second second second second second second second second second second second second second second secon F-598-021 73 SOLENDIC VALVE ESVOC NO HUND HAEY . . . . . V BERRINGS SHUTDOWN 15 14 FUEL OIL PRESS FILTER IN E 451 F-573-132 NYTOHEE HIGH VIBRATION SHUTDOWN 15 3 WAY VALVE NO 16 (17) HIGH DIFF PRESS LLEE FILTER F-573-347 N:153 SOLSIB IR CHECK VALVE 17 FUEL PUMP/OVERSPEED FAILUPE E. 45C LOW PRESS TURBO OIL FF 0.475.277 (5) Z= F= 2% Z= (=) 20PDIF 17 INVEREP F 575.774 3 18 FRONT SHUTE OWN F-577 194 4.754 19 4:PSIF MANDMETER VALVE LUBE OIL PRESS E 35 1 F 19 ROUSMULATOR IS S'IN<sup>3</sup> F 573-825 FINE-20PSIF 50 NE= 44 00 F 522-001 ZOPSIF LO MANOMETER LUBE OIL PRESS FILTER IN M-2 21 REAR SHITDOWN F-573-120 ML : SHIEY 21 SHITTLE VALVE 22 45FSIF F-573-123 Sec. 2.44 March 1 20PEIF A. . 18 22 CHIFICE SI4 53 TRIP LOW LOW PRESS LUBE OIL E-10 P 23 LUBE OIL SHUTDOWN F 573 375 45PSIF CHECK VALVE 24 25 23. ------E-533-443 45FSIF LUBE OIL 21#F PP293 3P138 3-30 TURBO CIL PRESS L.R. E 33R 35 PSIF RIX LUEE PUMP CONTROL DIFT PRESS GAUSE G-30 LEVELOMETER LUES OIL F-530 498 A.S.CFOFT 22 25 45 PSIF - PLRAM SENSOR HIGH FRESS CRANKCASE SHUTDOWN F-530-439 50000 27 22 20 PSIF PLARM SENSOR LOL POET FIFL OIL LEVELOMETER CAL TANK JIA/HONS TPIE-LOW LOW PRESS TURBO OIL FERR E SE F-530-493 27 28 45PSIR STATUS SENSOR OVERSPEED TRIPPED () F5 21 59 HIGH LIFF PRESS FUEL FILTER F-579-054 WITTE 2 CONSTRUCT DIFF FELRY ISPEIR 30 31 39 FUEL PUMP/ WERSPEED TRIP FRILLIRE  $\mathfrak{D}(\mathfrak{g})$ IOPSIF F-584-024 MAGNEE SOLENCID VALVE N.C. 2 JUREO OIL PRESS R 4. E. 34R ASPSIR INTERLOCK ENGINE PULL CIF UIT BOPSIR STATUS SENSE UNIT TRIPPED (5) 20 PS 20 32 33 TURBO CIL PRESS L F. E-33 UNIT TRIPPED 34 35 30PSIR SHUTCOLLAS ACTIVE . 45FSIR 25PSIF MOTOR CONTROL DC FUEL PUMP 36 37 TRIP-LOW-LOW PRESS TURBO OIL FRONT E-92 40"HLO F RLARM SENSOR L'ULEVEL UR DIET L'ATER (dus ro. 22199) 45PSIF RLARM SENSOR EARPINS DEVICE ENGRSED × × × TUPBO OIL FRESS P.F. E-34 NIBRESUITCH LOCKOUT . E-24 LIGHTROL MEDILMIC AIR. ග≥් 1 TUBING IS 14 00 DEVER ENCIFT AS MOTED, FITTINGS REI BRADIC, MELDE M-3 LUBE TPAK LEVEL TRIP HIGH VIERATION E-23H TEN • (5) 🔁 FS-15 NEENOTES SWASSIGK EXPLANT IS ENT TRIP-HIGH TEMP REFENSE E 19 H () 23 TERMINATION AT COTTON OF CARINET. M-4 DAY TONE # /EL SYSTEM SHOLN SHUTLO'L'Y P د ا TPIP-HIGH HIGH TEMP-JACKET LATER E-IG · (5) 2 PS 13 (16 CEFFESSIAIZED SET, TEST THE FICENTIFY ALL STRETT WIS MAIN FUEL TOW BUBBLER <u>S</u> TRIP HIGH HIGH TEMP LUBE OIL E. IB SENSOFC. SEE dug to SBIGG FTH RECOMMENDED INTERCOMMENTING TURNI I THERE REE 35 CONNEUTIONS, 38 THE BARRING DEVICE LOCKOUT E 85 2 PS 38 () FS 10 () PS- 32 PS 12 BARRING CEVICE INTERLOCK E 48 14 1 2 OPE Ste. ) - FS 29 ( - FS 11 6) () OMIT P S 38 EXTERNAL CONNECTIONS SEE "TELVENT DRANTIS 15. 5816. ZD the state of the state ALCENTES 60 PSI CONTACE AR TRIP-OVERSFEED E 20 2 D. PSIE INDUCATES ACTUATION AT SETTING 1. e. 14 ON FALLING PRESSURE. GAPSI SUFPLY E-53 ESIR INDICATES ACTUATION AT SETTING MAINTENANCE Den TIO LOCK ON RISING PRESSURE. SHUTDOWN SIG. E-89 SHUTDOWN BD. 14-5957 20,053 À 22.34 2 PS-9 A 15.35 FEFTERNE COR WINES SEIST FRIEL ASTRUCTION UNIT TRIPFED E-90 (5) ZÞ SEINS PRIEL ELEC SCHEM SZISA ENGINE SIZO SCHEM STISS ENGINE PHEN COMEN rQJ टीवनी NOT STRATING RIR FRESS L.P. E- BILR SZI94 BUY MOLE ELEU SUMEM SZI90 WTEPTIMAETTUNIELEC SAFETY RELATED STARTING AIR FRESS L F E-SILF (23) (2) (1) PS-5 õ 3. 0 Ø 0.300 X (X) 0 00 (4) 17 11504 P5.6 200 (OALL C'S (13) (13) ENGINE LOCAL SHUTDOWN STARTING AIR PRESS R.F. E. 3IRI FANEL PREUMATIC SCHEMATIC DEACTIVATE STRETING RIR PRESS F R SERVICE ------MATERIAL ANCHARCHESS lappi lo est SCALE INSTRUMENT RIR SUPPLY MI I INCASI

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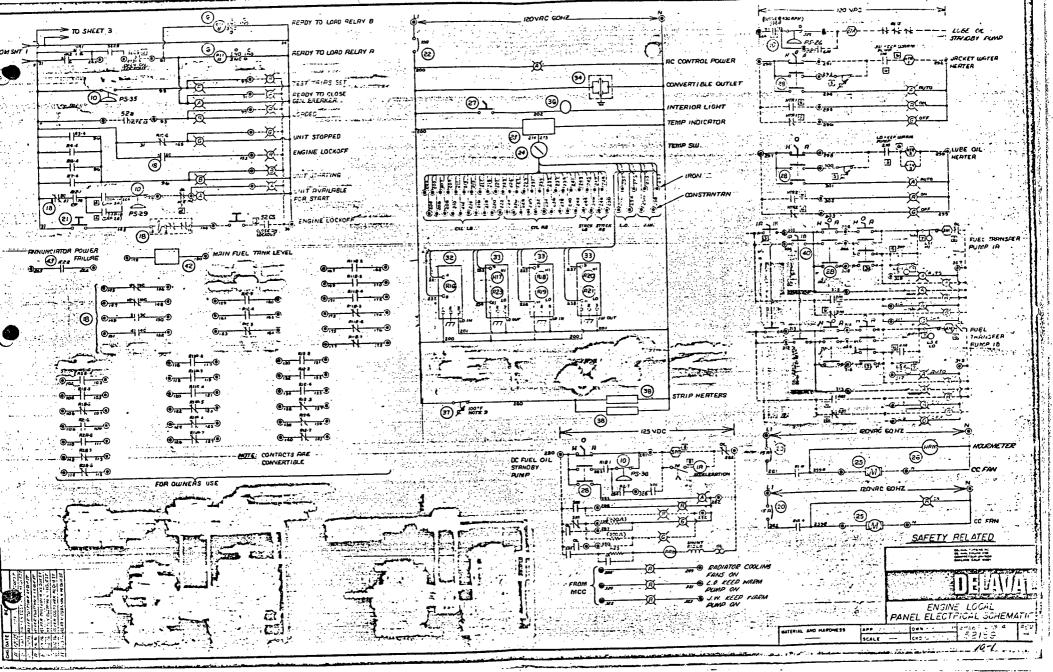


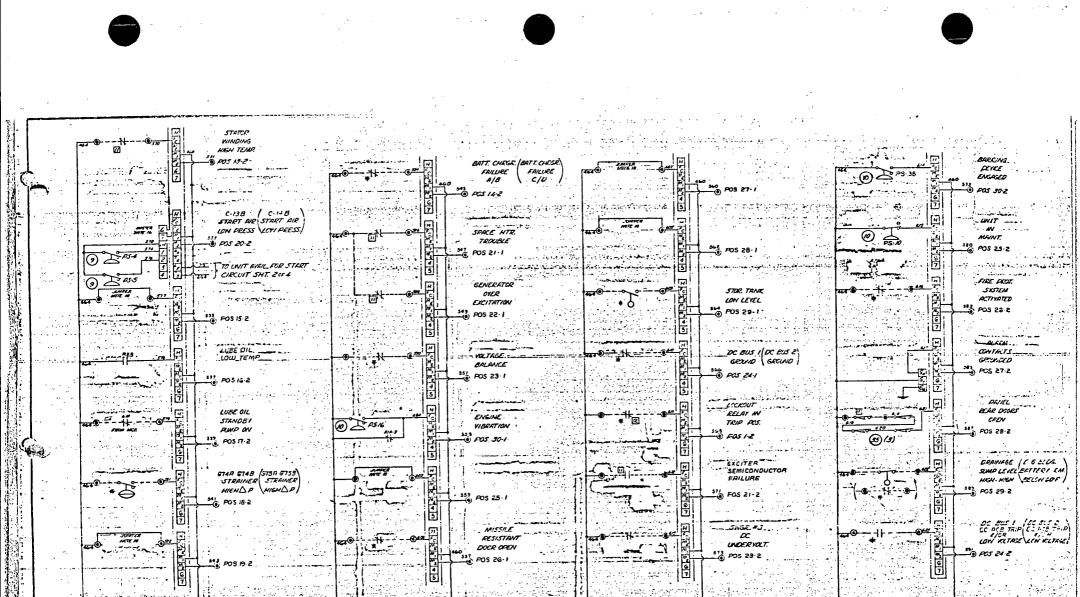
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		STARTING PIR BOMISSION SOL.	200 	DC CONTROL POWER O	B TIME DELAN PRESS SWITCH	F-580-081 5 F-530-114 2 SYRPUSE F-530-116 3 SYRPUSE F-577-045 6 PERSINE F-577-046 27 Findes:246 F-580-061 3 WUMPREY
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		MANUAL TESTING START RELAY MANUAL TESTING START RIA TIMER		SOL 5 MRINTENRNCE LOCKOU TRONOMETER	22 CIACUIT EREPARE AC	K F 376-005 6 FURNES 10 F 511-001 1 HEINEMAN F 578-044 1 DUNIC
		SHUTDOWN DERCTIVATING SOL.		THCN TRANSMITTER R	24 THERMOSOUPLE SELECT 25 CRANKORSE FRN 26 MCURNIETER 27 TOGOLE SWITCH 28 SEL SWI 760 29 FUSHEUTTON SWI RED 30 HORN	PR         F-253-120         I         DMEGR           SEE         SEE         367         2           F         561-014         SCG         I         UESTINGHOUSE           F-585-123         I
		STRATING AIR Admission Sol.			31 ENNUMERTOR 32 TC SETPOINT RELAY 33 TC CURL SETPOINT REL 34 DUPLEX RECEPTIONE 35 MICOS SWITCH 24 LAMP ASS	F-501-C33 I ADMRN F-540-068 I ACTION FAK F-580-C24 I NUEPEL F-125-038 M:55 F-555-C45 I CASLE ADD F-555-C45 I CASLE ADD F-555-004 I DEALSONE
		SHUTDOWN DE RETIVATING HELAY EMERGENCY DIESEL START FELRY FILD FLASH RELAT		DELAY ON TO STRAT TIME	37 -TEMP SUITCH 38 - STAIP HEBTER 39 DIFF PRESS SUI 45 SE SI 2 PDS 41 STLONDO VALVE 42 LEVEL GRUGE 42 LEVEL GRUGE 43 RELAT 2 FULL DC	F. 533.004 F. DANSUNE F. 533.505 Z. GE F. 577.033 Z. ESERCIALE F. 586.032 F. SENT F. 560.033 F. MANUMER F. 560.034 F. MANUMER F. 560.034 F. MANUMER
		MANUAL TESTING START RELAY MANUAL TESTING START RIK TIMER		RIN RELAY	44 POWER SUPPLY CHOUDED BY CUNER CHOUDED BY CUNER 1 ON ENGINE 2 PARTUR ITEM 12 3 IN CONTROL FOON PRNEL	F 596-010 I ALG FIX I. THCH RELEY CONTRATS SHOUN WITH POWER OFF, WHEN FOUR IS REFLED, RELEY CONTRATS FERMIN R5 CH JUN, 2. SYSTEM SHOUN CE ENERGIZEC. I WARNS TO BE SHITTH-UCCTIVE (PPC)
		SNUTDOWN DE RETIVITING SOL CONTROL FOWER RELEYY		A C C C C C C C C C C C C C C C C C C C	A RUX CONTRET OF ITEM 31 S CN HEFITER G IN NICC 7 FERT OF ORY TENK LEVEL SU 8 FRAT OF OC STARTER, RUX SKID	A USE THESE NO CONTACTS TO STAAT AUX. FULL FLOW LUBE OUL PUME S. ESNING CONTRA IF RECOVERNT ISNOUT IT USED IN THIS INSULT. S. JULL SENSOR TO BE IST FELOW & OF JULINET FLANGE IN STRACHPE. JULINET FLANGE IN STRACHPE. T. THIS CONTRACT DE CLOSED WHEN
		CIRCUIT EREARCE CLISSE TO TRIP		GR II RUGRM	9 FART OF LUBE TANK SUL 10 ON PAR MODULE 11 IN GENENDTOR PRHEL 12 IN SUITZHGERR 14 ALL ALAGM FIELD CONTRCTS	1. THIS CONTRELL'IS RETER. LOCKONT FELLA'S RETER. R. MODE SUI SACUM JATUSED, DEPARTIONAL 9 MOUNT MICH IN JESURET CENTRELISED. 10. RETIONE JUSTER IS SEAR FELLATI HOUSE 10. ON THE SATA COUNCER CONTROL & CONTRETS FOR COUNCER CONTROL &
				ALE C JAC Proc A L RLARM	RESTRICT IN A SELATED OF DE CONSECLED STATE REES- LEE (LEEL SWITCHES WITH THE ELECTION OF PS-11 ES-10 E LIS (MISH COLL) HE STORY WITH REATING FIELD CONTRETS REL OTHER CONTRETS REE	DLETM CEFECTIVELY 22 MANERLATES IN SUT 354 IN DEPEN- THESES ABE FOR DIEL SCHERATER DANEL 42. 13 RAN CONTRET OF CENERATIR BEFENER. CONTRETS TRANSFER MEN BUGGE LIDES
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		UNDERVOLTAGE RELAY		FOR SUBSEQUENT PENTS AFTER <u>MAN</u> (SEE SHEET 4 FOR RELITIONEL WITES.)	MATERIAL AND MARDNESS APP	

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+B									•			+DC SUPPLY
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iesel Local	Engine	Local	VR	н	Neutral	Gen.	Remote	Comp.	MCC	Swgr.	Panel	
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86				B-								······································
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APP.	52190 2

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Diesel Local	Engine	Gen. Local	VR	н	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
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Diesel Local		Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	MCC	Swgr.	Panel	·
	Engine						196					SHIELDED
101 1							279D					
							203					
183							337					
							1				R7-A	
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203 TO 258	28 PR. Fe/Const.											
259A	259A								<u>                                     </u>		Į	
259B	259B								ļ			· · · ·
263										<u> </u>		(IF USED)
265							_			x	<u></u>	
266								ļ		×	<u> </u>	P.F
273							302		. <b>X</b>		ļ	(IF USED)
280									X		ļ	DC PUMP
281						·			X			DC PUMP
282								ļ	X		R8-B	DC PUMP
286									X		R8-A	DC PUMP
287		1							x			DC PUMP
288	1								x			RAD. FAN
289		1	1						X			RAD. FAN
290			1						<u>x</u>	_		J.W. HEATER
291 -	291								x			J.W. HEATER
292						T			x			J.W. HEATER
. 293	293	1										
295	1	† †							x			J.W. HEATER
296	1 .								x			J.W. HEATER
297	1	<u> </u>	1						x			L.O. HEATER
<u>297</u>	298	1				1			X			L.O. HEATER
299	200	1							x			L.O. HEATER
200	300			1								
	300			+	-			1	X			LO. HEATER
202	+		1			1			X			LO. HEATER
304	<u> </u>		-				192C		x			FUEL TRANSFER
	- <del> </del>	1		•		1	405A					FUEL TRACSFER
. <u></u>	+	+		1		1	407C					
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APP.	52190	2

Diesel Local	Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	MCC	Swgr.	Relay Panel	
305							193C			<u> </u>	ļ	FUEL LEVEL SW.
306							190C			·		FUEL TRANSFER
307							423		· X		ļ	PUMP
							389C			<u> </u>		
308							319C			· ·		·
309		-					186				ļ	· · · · ·
							188					
							387C					
310							408A		x	<b>_</b>		FUEL TRANSFER
311					·		410A		x	L		
							412A				<u> </u>	
312							192B	ļ	x			FUEL TRANSFER
							405C					
							411C		·			
· <u></u>	1						405B					
							407B					•
							409B					
•							411B					
313	1						193B					FUEL LEVEL SW
314							1908				·	
315		1					427		x			FUEL TRANSFER
	1	1					389B					•
316	1						319B					
317	1	1	1			1	420					
	1		1				424					
- <u></u>		1	1				387B					
318				1	•		408B		x			FUEL TRANSFER
319				1		1	410B		X			FUEL TRANSFOR
	1					1	412B	1				
320	1	1		1		1			x			L.O. KEEF
321	1	1	1	1		1			×			L.O. KEEP AA AM PUM
322	1								x			J.W. KEEP
323				1.			1		X			PUM-
324		1				1			x			L.O. STAN IN
325	1	1	1		-	1	1		X			L.O. STAN
327		-	1	1			1	1	X			L.C. STAN
328	-	1	1	1	-	1		1	X			DC PUMP
329		1		1	-	1		1	X		R9-A	×
330	+	1	1	+		+	+	1	X		R10-4	x

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ELECTRICAL INTER	RCONNECT DIAGH	. VI
CKD.	SHT. 5 OF 24	REV.
АГР.	52190	2

Diesel Local	Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
332			<u> </u>		'		388C	<b>↓</b> ′	1	ļ	<u> </u> '	L
334	· · ·		· · · · · · · · · · · · · · · · · · ·		· []	[	388B	['	l	·		
339	†,		· · · · · · · · · · · · · · · · · · ·				189				<u> </u>	LOW-LOW FUEL SWITCH
340			· · · · · · · · · · · · · · · · · · ·		· · ·		187					LOW FUEL SW.
341	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		<u> </u>		406A	<u> </u>				
342	· · · · · · · · · · · · · · · · · · ·				<u> </u>		425	['				LOW-LOW FUEL SWITCH
343	' <u>'</u> '		<u> </u>		'		421					LOW FUEL SW.
344	·′		<u> </u>		T		406B				_	1
345	'		<u> </u>		<u> </u>		422		<u>[</u>			
	<u> </u>						408C	· ·				
	<u> </u>						410C	<u> </u>	<u> </u>			
346	′		'			<u> </u>	426					<u></u>
	<u> </u>		′				406C					<u> </u>
	'						412C	<u> </u>	·			
451	;					<u> </u>	217P	<b>_</b>	· · · ·			
·	•						217R					
	'				<u> </u>		217S				_	<u></u>
	<u> </u>						217T		<b>_</b>			<u></u>
~~··	<u> </u>					<u></u>	с					
452							352					СНІМЕ
453A	'						217G	<u> </u>			4	4
1	· · · · · · · · · · · · · · · · · · ·						392					
	· · · · · · · · · · · · · · · · · · ·						393					
454	<u> </u>						218T					
455							218P					· · · · · · · · · · · · · · · · · · ·
456							218R		<u> </u>		<u> </u>	
457	<u> </u>						218S					
461							125		1			
464	464	104	56		•		201	x		x		DAY TANK
	ĺ '	106	<u> </u>			· .	<u> </u>				-	
	'	108										
	'	130							4	<u>_</u>		
		132						<u> </u>	4			
		142								1	<u> </u>	
<u> </u>		145									<u> </u>	
		166					· · · ·				_	
	'	170					<u> </u>				_	
		172	1					<u> </u>	<u> </u>			
	Γ.	173			T	T_		1				l

ELECTRICAL	INTERCONNECT DIAGRAM
CKD.	SHT. 6 OF 24
.APP.	52190 2

Diesel Local	Engine	Gen. Local	VR	ну	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
(464)		298										
465									۰.	x		4160v BUS ACE
466										×		GEN. DIFF.
467							126					
469							127					
471							134					
473							129			ļ		
475							130			<u> </u>		
477							131					· · · · · · · · · · · · · · · · · · ·
479							132					
481		-					133					
483							128					
485							135					
487							136					
489							137					
491		•					144					
493				-			139				<u> </u>	
495							382					
497							141					
499							142				•	
501							143					
503		•					138					
505							145					
507							364					
509							365					
510										x		MCC SWGR TR
511							154					
513					1		367				1	
514		177			1		1					
515		174					1					
516							368					·
517	517							i				
518							151					
520							152					
522						l	153			,	<u>i</u>	
524							368					
526							369				1	
528					1		370	1			1.	
531			1		1		371	<u> </u> -	i	1	1 .	

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ELECTRICAL INTERCONNECT DIAGFAM						
CKD.	1 SHT. 7 OF 24	REV.				
.APF.	52190	2				

Diesel Local	Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	MCC	Swgr.	Relay Panel	
								· ·	<u></u>			DAY TANK SW.
532			•				164					
<u>533</u> 534										· · · · ·		DAY TANK SW.
535							394			· · ·		
536					1							MOTOR FEEDER TRIP
537				•			395		· · ·			,
538		. <u></u>			·					x		51-V
539							161					
540										x		FIELD
541					1		162					
542					1					x		STATOR GRD.
543			ļ	·			163	· · · · · · · · · · · · · · · · · · ·				
<u>545</u>							372			1		
<u> </u>							165				· ·	
<u> </u>					+		166					
550	550	· · · · · · · · · · · · · · · · · · ·	1				1.00			1		
551	330			<u>}</u>			167			1		
553		<u> </u>	· · · ·				174					
554	554		· · · ·	<u> </u>								
<u>554</u>							169			1	1	
556	<u> </u>			÷								TRANS. LINE PRESS
557		· · · ·	1	1	1	<u> </u>	170				1	
<u> </u>	<u> </u>				1				1	1 .		TRANS. LINE PRES
559				<u> </u>					1		1	TRANS. LINE PRES
560			· · · · ·				171	·				
562				<u> </u>			172			1		
563				1				<u>.</u>			1	D.C. BUS LOW
564			1	·		<u> </u>	173		<u> </u>		1	
565	<u> </u>							1	1	x	-	NEG. PHASE SEC
566				<u> </u>			168	1	<u> </u>	1	+	
567	<u> </u>			<u> </u>	+	<u> </u>	+			x	1	REV. PCOER
568	1	+	+				175				+	
570		105			-	1	1	1	1	1		
	+	107	<u> </u>	1		Ì —				· · · ·		
<u></u>		131			-+	1		†	1			
	1	141			1			+			1	
- <del></del>		143				1				1	1	
	1	147	1	+	+	<u> </u>		1		1	1	
571		+	1	1	+	<b>†</b>	176	+		1	-	
573	+	<u>+</u>	1	1	+	1	177	1	+	-	1	1

ELECTRICAL INTERCONNECT DIAGRAM							
CKD.	SHT. 8 OF 24	REV.					
APP.	52190	2					

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liesel Loca	I Engine	Gen. Local	VR	н∨	Neutral	Gen.	Gen. Remote	Air Comp.	MCC	Swgr.	Relay Panel	
575							184		<u> </u>			
577							368				ļļ	LO STANDRY
579									X			L.O. STANDBY PUMP
580							179				<b></b>	······
581						-						STRAINER $\Delta$
582										ļ		·
583							180			ļ		
584										ļ	<u> </u>	BATT. CHGR.
585							181	L				
586	_	129									<b></b>	
	- · · ·	176										
587							182		ļ			
588			50							ļ		······
589							183		ļ			
590			1				<u> </u>			X		VOLTAGE BAL
591							178					
605			1					X	ļ	<u> </u>		
606								L	ļ			MISSILE DOOR OF
607				· .						<u> </u>		
608												
609		297	· ·						ļ			· · · · · · · · · · · · · · · · · · ·
610												D.C. BUS GRD.
611										X		186
612		1	57	1						_		
613			1									D.CU.V. SWG-
615		1					350		1			
616		1	1									FIRE SYSTEM
618			1	·			235					
622		1	1		1	1						DRAIN. SUMA
623		1	1	1								
L1-1		1	1					<u> </u>				120v SUF": 1
L1-2			1	1								120v SUFF
N-1			1							_ <b>_</b>		120V SUFFLY
N-2						1			 			120 v SU 284.Y
4	A	178							1			
В	A	179	1	1		7						
 L1			1									
N		1	1			1	1	ĺ			R7-B	120v SUP3_Y
		109 (128)	1			DET. 1-N	1		- <u>                                     </u>			

ELECTRICAL INTER	CONNECT DIAGEA	(v)
CI(D.	SHT. 9 OF 24	REV.
,AFP.	52190	2

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											r	
iesel Local	Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
		110				DET. 1-W						
		111				DET. 1-W						. <u></u>
		112				DET. 1-R					ļ	
		113				DET. 2-W		· · · ·				<u></u>
		114				DET. 2-W		-				
·		115				DET. 2-R						·
		116				DET. 3-W						
		117				DET. 3-W						
	1	118				DET. 3-R				L		
		119				DET. 4-W						
		120				DET. 4-W				ļ		
		121	•			DET. 4-R				<u> </u>		
		122				DET. 5-W						
		123				DET. 5-W						
	1	124				DET. 5-R				Ļ		
<u></u>		125				HTR. 1-W				· ·		
<u></u>	1	126				HTR. 2-W				ļ		
<u> </u>	1	127				HTR. 2-R		ļ	·	ļ	ļ	
		128 (109)						L	ļ		1	
		133			CT1-X1		<u> </u>	ļ		ļ		
		135			СТ3-Х1							 
		140		]			140	ļ				
		146	B-				146			<u> </u>		
		(270)	38						<u> </u>	ļ		
			40					<u> </u>	<u> </u>			<u> </u>
		149										
	1	150						<u> </u>				
		151	42								<u> </u>	i +
		152	41									
		154	43						<u> </u>			 
		155	37				155	<u> </u>	·	ļ		İ
		157	36				157	1		- <b> </b>		ļ
		158	39				158	<u> </u>		· <b> </b>		<u> </u>
		160	·				160	<u> </u>		<u> </u>		<u> </u>
		162					1	L	_l	+		120 v SUP
		163				1	<u> </u>	<u> </u>				120v SUP
		167		1			•	1			1	

ELECTRICAL INTER	CONNECT DIAGRA	.M
CKD.	SHT. 10 OF 24	REV.
۵۶P	52190	2

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	<b>F</b>	Gen.	VR	н	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	······································
Diesel Local	Engine	Local	VR		Neutrai							ana a lata ang kana ang kanalan na sa sa sa sa sa sa sa sa sa sa sa sa sa
)		183										
		185					201					· · · ·
<u></u>		187	·			· · · · · · · · · · · · · · · · · · ·	305			<u> </u>		
·		190								t		
		191		·						1.		
<u> </u>		192					1			<u> </u>		
		193					1					
		194	· .	<b> </b>								
		195		<u></u>								
		196				<u> </u>				<u> </u>	+	
		197		· · · · · · · · · · · · · · · · · · ·	· · · · ·	<u></u>		· · · · · · · · · · · · · · · · · · ·				
		198				<u> </u>				+	×	186-G-1
<u> </u>		199	1			1	199			+	x	N.C. in Seq.
		200				l	200		<u> </u>		<u>+ ^ </u>	N.C. III Seq.
- <u></u>		201		ļ			380			+		
		203	ļ									
		204		ļ.	ļ	<u> </u>		<u> </u>	<u> </u>	· · · · ·		
. <u></u>		205	ļ		<u> </u>					+	;	
		206			ļ	<u> </u>	· · · · ·			<u> .</u>		
		207	30			ļ		·				
		208	31			<u> </u>						· · · · · · · · · · · · · · · · · · ·
14 <u></u>		212	51	-		·						
		215	<b>F</b> -				346					
		216	F+			ļ	347		ļ			
		217	1									+
		218						1				
		219	A2									
		220	AI									
	1	224		CT2-X1								
		268 (269)										
		269 (268)	1	1							· ·	
		270 (146)							· · ·			
	1	272					2.72					
		275					275			<u> </u>		
		277		I								
	T	278			,							
•	1	279										· · · · · · · · · · · · · · · · · · ·
		280		1						_		
	1	281										
	······											
								<b></b>				

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ELECTRICAL	INTERCONNECT DIAGRA	ฬ 👘
СКD.	SHT. 11 OF 24	REV.
АР. <sup>2</sup> .	52190	2
ومراجات والمعادات منتعدا ومن البر ويستعدد و		

		· . ·										
				•		•					×	
Diesel Local	Engine	Gen. Local	VR	ну	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
	Eigine	282	• • • •						a <u>1996 y</u> 1997 y 1997 y 1997 y 1997 y 1997 y 1997 y 1997 y 1997 y 1997 y 1997 y 1997 y 1997 y 1997 y 1997 y 1997			
· •••••	· · · ·	283					283					
		284					284					
		286		С								
		287		В			1	·				· · ·
		288		A								
<u> </u>		289					289					
,		290		·			290					
·		291					291					
	<u>_</u>	292			<u> </u>	· · ·	1				ŀ	
				<u> </u>							-	
		293 296		•	+		1					
				<del>  .</del>								
<u></u>		300		<u> </u>						· · · · · · · · · · · · · · · · · · ·		
		301			· · · · · · · · · · · · · · · · · · ·	·	+					
		308A							<u> </u>			
	<u> </u>	308B						· · · · · · · · · · · · · · · · · · ·				
	· · · ·	308C							<u> </u>		· · · · ·	
	<u> </u>	308D							<u> </u>	<u>}</u>	-	
		308E							+			
		308F								+		
	ļ	308G	· · ·		<u> </u>				1			
	ļ	308H		<u></u>						<u> </u>		· · · · · · · · · · · · · · · · · · ·
<u> </u>	L	309A	ļ			<u> </u>		<u> </u>	<b>_</b>		- <u></u>	
	ļ	3098			· ·	ļ	-			+		
. <u></u>	· · · ·	309C	<u> </u>			· · · · · ·		· ·	·	1		<u></u>
	<u> </u>	309D	ļ	4	<u>  </u>	<u>↓                                     </u>						
	· · · · · · · · · · · · · · · · · · ·	309E				ļ		ļ	<u> </u>	 -		<u> </u>
		309F				ļ			<u></u>	 -		
		309G	L			ļ	<u></u>		·			
		309H	ļ			ļ		1			<u> </u>	· · · · · · · · · · · · · · · · · · ·
		310A		4				ļ		<u></u>		·
	ļ	3108				ļ			- <u> </u>			
	ļ	310C		<b>_</b>		<b> </b>		· · ·				<u> </u>
		310D	<u> </u>		<u> </u>	ļ		ļ	<u> </u>			
		310E	L		<u> </u>	ļ		<u> </u>	_			
		310F	ļ.		<u> </u>	<u> </u>	<u> </u>				· · · · · · · · · · · · · · · · · · ·	· · · · · ·
· · · · ·		310G	ļ		·		<u> </u>	<u> </u>				1
		310H					<u> </u>			.   		ļ
		311A	1			1	· ·		1	ł		

ELECTRICAL INTER		M
СКД.	SHT. 12 OF 24	REV.
APP.	52190	2

Diesel Local	Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
7		311B										
J		311C										
		311D										
· <u></u>		311E										
		311F										·
		311G										· · ·
		311H										
·		312A		•						ļ		
		312B								<u> </u>		· · · · · · · · · · · · · · · · · · ·
		312C								ļ		
		312D			· ·				ļ			
		312E							· · · · · · · · · · · · · · · · · · ·	ļ	ļ	
		312F				ļ		<u> </u>		ļ	1	
		312G				<b></b>				ļ		
		312H							ļ	ļ		
		313A				ļ		ļ				
		313B				ļ		<u>`</u>	ļ	ļ		
		313C								<u> </u>	<u> </u>	
		313D						<u> </u>	l	+		
		313E				ļ						
		313F	ļ		_	ļ		ļ	<u> </u>	· · ·	· ·	
		313G			_				<u> </u>	<u> </u>		-
		313H					_	<b>_</b>				
		314A										· · · · · · · · · · · · · · · · · · ·
		314B								<u> </u>		
		314C							<u> </u>	<u> </u>	<u> </u>	
		314D				· .					ļ	<u> </u>
		314E						ļ 	·		_ <u>_</u>	
· <u>·</u> ··································		314F				<u> </u>	1	<u> </u>				
		314G							<u> </u>			
		314H						<u></u>	 -+			
	1	315A						 			-+	
		315B				<u> </u>		 	_ <u> </u>			
		315C				<u> </u>		<u>.</u>	ļ			
		315D		·				· · · ·	 -+ <b>-</b>			
		315E					· · · · · · · · · · · · · · · · · · ·					
		315F										
		315G							1			
- <u></u>	1	315H	1				İ	1				<u></u>

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1.2P	52190	2

Diesel Local	Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
		316A										
<b>y</b>		316B										
		316C	<u> </u>						•			
		316E										
·		316F										
		317A										,
		317B			1							·
		317C			1						<u> </u>	·
		317E										
<u> </u>		317F										
		318A										
•		318B										
		318C										
<del></del>		318E										
		318F			· ·							
		319A			1.	1						
		319B		1		1						
		319C		1								
	[	319E				1	· ·			{ ·		
		319F							· .			
		320				HTR. 2-R						
		321	· ·			HTR. 2-W						
		322				HTR. 2-W	/					
		323		1		DET. 6-W						•
		324		1		DET. 6-W		İ.				
	1	325			1	DET. 6-R		1				
	1	326A		<u> </u>		1						· ·
		326B			1	-		i			1	
•••••••		326C	<u> </u>	1				1				
		326D	<u> </u>	1			1		1	1		
·	1	326E	<u></u>		1	1					1	
		326F	· · ·	1	1 .	1	1					
. <u></u>		326G					1				1	
	1	326H	t	†	1	1			;		1	
	1	327A	1			1				ļ		· · · · · · · · · · · · · · · · · · ·
·	1	327B	1	1		1	:	1		1		
	1	327C	1	1			1	-' I			1	
·	1	327D	1			1					1	
	<u> </u>	327E		1								

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ELECTRICAL INTERCONNECT DIAGRAM								
СКО.	SHT. 14 OF 24	REV.						
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Diesel Local	Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
		327F										
		327G										· · · · · · · · · · · · · · · · · · ·
		327H										
	<u> </u>	330A										
		330B							÷			
<u> </u>		330E										,
		330F										
		331A			,							
		331B										· · ·
	+	331E										
	1	331F										
		333	8						<u> </u>			
. <u> </u>		337								· · ·		
<u></u>		338										
	1	339										
		340										
	1	341				1						· · ·
<del></del>		342										
- <u></u>		343								X		52a
		350									-	
		351									ŀ	
	+	354				1	354					
<b>—</b>	+	355	53			1	355	1				
	+	356	55			<u> </u>	356					
		357	54			1	357					-
	+	358	52				358					
	+	361				1	194	-				SHIELDED
	+		+		CT1.2,3 X1	1		- <del>  · ·</del> -				
	+	CG	7	PARA. CT	<u> _^'</u>	1						
			29 (B-1)		+	1		1	1	-		
	+		32	A					<del></del>			
<u> </u>	+		32	B		1		- <u> </u>				
	- <del> </del>		34	C	<u> </u>	1				1		
	+		34	PARA. CT		1				1 .		
				<u>x1</u>	1	+		 	 			
	- <del>i</del>		44	<u> </u>	1	+	<del></del>					
· <u>····································</u>			(B+)	<u> </u>	<u> </u>		<del></del>	-+			<u> </u>	
	-+		(BF+)	<u> </u>	+			-+			· ·	
			B-		<b>+</b>	+						90a DC Staff _S

ELECTRICAL INTER		;
скэ.	SH'F. 15 OF 24	REV.
<u>م</u> כم	52190	2

Diesel Local	Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	MCC	Swgr.	Relay Panel	
Dieser Local			(BF-)						<u></u>			90v DC SUPPL
<b>/</b>		F+	F+									
		F-	F-			<u> </u>						
			X1	POWER CT1								
			X2	POWER CT2								
<u></u>			X3	POWER CT3								
			2	POWER CT'S			·					
		<u> </u>					191B	,	<b>X</b> .			FUEL TRANSF PUMP
<u> </u>		<u> </u>					191C		X			FUEL TRANSF PUMP
			1	<u> </u>	1		197					120v SUPPLY
		<u> </u>					204					
							(342)				ļ	<u> </u>
		1					208A					
·							208B		<u> </u>	<u> </u>		
<u> </u>		1					208D			<u> </u>		
<u></u>							208H					
		1					209A					
	1						209B					
							209D			<u> </u>		
	1		1	1			209H					
<del></del>	1 .						210A					·
							2108			 		· · · · · · · · · · · · · · · · · · ·
							210D					
	1	1	1				210H			ļ 		
	1	-					211A		<u> </u>	<u> </u>		
						1	2113	<u> </u>				
				Ţ			211D					
			1				211H	1.				
·		1					212A					 
	1						2123					_
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						<u> </u>	213.1					+
						ļ	2:03					
							2130		¦			
				1	↓		2133			_		
			_				2					
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ELECTRICAL INTER		
CKD	SHT. 16 OF 24	
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Diesel Local	Engine	Gen. Local	١R	нν	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
							214H					- 1
							215A					
·					1.		215B		•			
· <u>·</u> ·····						· .	215D				· · ·	
•				¥	1		215H					
•••••						<del></del>	216A					,
							216B					
							216D					
•							213H					
							217A					<u> </u>
·			1				217C		· ·			
·							217H					
				·			218A					
							218C			-		
•			1				218G (353)					
	·						218H (404)				-	
							218W (307)					
•							219C					
					1		219G					
• • • • • • • • • • • • • • • • • • •							219H					
•••••							219P					
:							219R					
					•		2195					
· <u>- · · · · · · · · · · · · · · · · · ·</u>							2197	1	1			
							2150		· ·			
· · · · · · · ·							219V	1	1			
				Î.			2:9W					
•					1		2224		!			
·							2223		1			
· <u> </u>							2220		1			
							2220					
							223.2		1			·.
							2225	l				
•			1				2230		1			
				1			2200	+	· · · · · · · · · · · · · · · · · · ·			
			]		1		224A					
					1	!	2243					
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ELECTRICAL INTERCONNECT DIAGRAM								
CKD.	SHT. 17 OF 24	REV.						
A	52190	2						

Diesel Local	Engine	Gen. Local	VR	ну	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
		-					226A					
							226B					
							226C		•			
	·						226D					
	·						227A					
							227B					,
							227C					
							227D					
							228A					
			•				228B					
							228C					
						<u>.</u>	228D					
							229A					
							229B					
							229C					
	•		·				229D			1		
					1 1		230A					
					1		230B			[	1	
						·····	230C					
							230D					
							232				1	
							233				1	
						· · · · · · · · · · · · · · · · · · ·	234	•				
							243			×		BUS P.T.
		· · · · ·					246			x		GEN. P.T
							247			x		GEN. P.T. ÷
							248				1	CTA
					1 1		251					CT B
							252					стс
				•	1.		255	<u>_</u>		<u> </u>	t <u> </u>	GEN. P.T. C
					+ 		279.4			1	R2-4	<u> </u>
					1		2793				R6-4	
					1		2797C			1	R7-4	
			·		i		280A					
					1		280B			<b>†</b> .	R3-4	
		··· ···					2300				R1-4	
+					1		2.82.A.					
		· · · · · · · · · · · · · · · · · · ·							`_ <del></del>			1
					<u> </u>		2320			<u> </u>	<u>+</u> -	1

ELECTRICAL INTERCONNECT DIAGRAM								
CKD.	SHT. 18 OF 24	REV.						
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Diesel Local	Engine	Gen. Local	VR	ну	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	en en de la seconda de la seconda de la seconda de la seconda de la seconda de la seconda de la seconda de la s
	•						282H				R5-4	
<b>y</b>							285A					
* <u>-*</u>							285B		•			
					1		285C					
							285D					
		······································					286A					· ·
							286B					
							286C					
<u></u>							286D			1		
<u></u>					1	· <u>·····</u> ····	287A					
					1		237B					
		-					287C					
							287D					
							288			x		52 CLOSE
					+		292	1		x		52 TRIP
							293			1	1	
<u> </u>					1		297	<u> </u>		x		52 CLOSE
<u></u>			<u> </u>				303			×		186-G1
<del></del>	· · · · · ·				1	· ·	304			x		186-G1
					1		306	1		1		
<u></u>					+		307 (218W)			1		<u> </u>
					1		310A	1	1	1	1	
J							310C	1	<u> </u>	1		
				ł	+		310G	<u> </u>	1	+	-	
							310H			+		
·····							310P		<u> </u>			
•			· · ·	<u> </u>		l	310R		<u> </u>	<u> </u>		
- <u></u>					-		3105		<u> </u>	+		· · · · · · · · · · · · · · · · · · ·
<u></u>	İ		· · ·		+		210T	+	<u> </u>			
<u></u>			<u> </u>			<u>                                      </u>	310V	<u> </u>	<u> </u>		+	
				<u> </u>			31CW		┼───	-	+	
<del></del>	1		+	<u> </u>	1	<b> </b>	317A	+	+ 1	<u> </u>	+	
<u></u>				+	+	<u> </u>	3:10	<u> </u>	+	1	+	
<del></del>	<u> </u>		<u> </u>	<u> </u>	+	İ	311G	i	1	+	+	
<u></u>	<u> </u>		<u> </u>	<u>ــــــــــــــــــــــــــــــــــــ</u>	+		3110	+	+			
			<u> </u>				3112	<u> </u>	<u> </u>		<del></del> <del>_</del> _	
·	<u> </u>				+		31:3	<u> </u>	1	+	· +	
<b>-</b>			<u> </u>	<b> </b>	+	ł	3115	1	+		+	
	<b> </b>		+	<u> </u>	+	<u> </u>	3117	·	+	<del> </del>	+	
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ELECTPICAL INTERC	CONNECT DIAGRAM
CKE.	SHT. 13 OF 24 HEV.
47P.	52190

Diesel Local	Engine	Gen. Local	VR	н	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
			<u></u>	+	+		311V	[]			'	
		· · · · · ·			<b>†</b> '		311W	ſ <u></u> '				
·	· · · · · · · · · · · · · · · · · · ·	t		1	1		312A	<u> </u>			· [	
	·		+	+			312C	2				
	f,	<u>├</u> ───	+	1	+		312G					
	·'	<u> </u>	+	+			312H					,
	t'		+	+	+	<u>}</u>	312P					
	('		+	+	+		312R	1				
	<u> </u>	<b> </b>	+	+		<u> </u>	3125	<u> </u>				
	·'		-	+	+		312T	1	1	1		
	'	+		+	-	<u> </u>	312U			1		
	+		+	+	+	1	312V	1	<u> </u>	1		
<u> </u>	+'	+	-	+			312W	1		1		
	+'				<u></u>	+	313A	+	1	1	-	
						+	313C	1	+		1	
	+	+	+	+		+	313G		+	-	+	
<u> </u>	<b>_</b>	+			+	+	313U 313H	+	+	+	+	1
	+	+				+	313P	+	+	+	+	
		+				+	313P 313R		+		+	-
						+	313R 313S	+	+		+	
		·	+			+	313S 313T	+	+		+	
<b>.</b>	+	+	+			+	3131 313U	+	+	·   · · · · · ·		
):						+	3130 313V	+	-	+		
	<u> </u>							+				
·	<u></u>					+	313W			-+		
	<u></u>	<b></b>					314A	<u> </u>				
	<b></b>	<u> </u>					3140	<u> </u>	+			
· <u>·</u>	<u> </u>					<u> </u>	314G			<u> </u>		
	Ţ	Ţ- 					314H		<u> </u>			
			1	]			314P					
	Τ						3143					
			T				3145	<u> </u>			_ <u>_</u>	
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		+		-		+	3754		1			

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CKD.	SHT. 20 OF 24	EV.
A.T.F.	52190	2

Diesel Local	. Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	
	,				T!		315P	<u> </u>			·	
			1		1		315R	[]				
		t	+	<u>[</u>	1	[	315S					
			+	1			315T			Γ		
	<b>{</b>			1	-		315U					
	<b></b>	<del> </del>	+	+	+		315V					
	+	<b>+</b>	+	<del> </del>	-	+	315W		1			
			+	+	+	+	316A	1	1	1		
	+		+	+	+	<u> </u>	316C	<u> </u>	1			
	+	+	+	+	+		316G		1	1	1	
	+	+	+			+	316H	1	1			
<u> </u>	+	+	+	+		-	316P	· ·	+		1	
	+		+	+	-	+	316R	1	1	1		
		+	+	+	+	+	316S	+	-	+	1	
	+		+	+		+	316T	+	+		1	
. <u></u>	+	+	+	+		+	316U	+	+	1	+	
	<u> </u>	+		+		+	316V	+	+	1		
							316W	+	+		+	
	<b>_</b>	+				+	310W	+		+	+	1
<u> </u>	<b></b>			+	·		317A 317C	+				
	4	<b>_</b>		-		+						
<b></b>	·						317G		+		+	
) <u> </u>		<u> </u>		<u> </u>			317H		+			
	 	<u> </u>		<u> </u>			3179	<u> </u>				
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				<u> </u>			3173	_				_
	]					<u> </u>	3177					
	T						3170					
			Τ	Τ			317./					
<del></del>	1			Τ		Τ	317W					· · ·
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SLECTRICAL INTERC		M
CKE.	SHT. 21 OF 24	REV.
ATP.	52190	2

Diesel Local	Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Cemp.	мсс	Swgr.	Relay Panel	
							318W					
							320A					
					1		320B					
					1		320C					
							320D		-			
							320E	-				
							320F					
							320G					
<u> </u>							320H		T	<u> </u>		
·		<u></u>		ł	1		320J					
<u></u> :				1	1	1	320K					
		1		1	-	1	320L					
<del></del>		1		<u> </u>		<u> </u>	320M					
	+					<u> </u>	321A					
	<u> </u>	+				1	321B					
		+		1			321C	1				
	+ <u></u>	+	<u> </u>			1	321D					
							321E					
<u></u>			1		_		321F					
		+			<u>.  </u>	1	321G					
<u> </u>							321H					
·		1		+			321J					
)'				_			321K					
				+		+	321L					
·		+	+			+	321M					
<del></del>			+				322A					
							3223	1				
<u> </u>	+	+					3220	1				
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	+	- <u> </u>					3225					
	+						3236					
		+	+				302H	1		1	ļ	
							3223					
<u>.</u>							322%	i			-	
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							340		1		R10-4	
							341	'	-+	<u>_</u>	R9-4	1

ELECTRICAL INT	FERCONNECT DIAGRA	
CK2.	SHT. 22 CF 24 5 2 1 9 0	2 nev.

Diesel Local	Engine	Gen. Local	VR	ну	Neutral	Gen.	Gen. Remote	Air Comp.	мсс	Swgr.	Relay Panel	-
							342					
							(204)					
							348		•			
							349					
							351					52 TRIP
							353					
							(218G)					
							363					· · · · · · · · · · · · · · · · · · ·
							(279C)					
						,	373			×		REACTOR SV
							374			х		REACTOR SV
•							375			x		REACTOR SV
						,	376			х		REACTOR SV
					·		377			х		REACTOR SV
							378			x		REACTOR SV
		·					379				R8-4	
							381					·
					11	·	383A					
							383B					·····
· · · ·	-				11		383C					····
							283D					
							390					120v AC (N)
					1 1	······································	391					
					<b>† †</b>		396A					
							3963					
1					1		3960					
					1 1		395D		· · ·			
						<u></u>	388E					
							3005					
							398G					
							35.32					
							395%					
					1		3901					
	<u> </u>				†i		33621					
		†			<u>                                      </u>		297A			•		
					<u> </u>		0975					
					<u>i</u>	· · · · ·	397C					
					<del>                                      </del>		CC22			·	<b> </b>	
					╂────┼		3075					

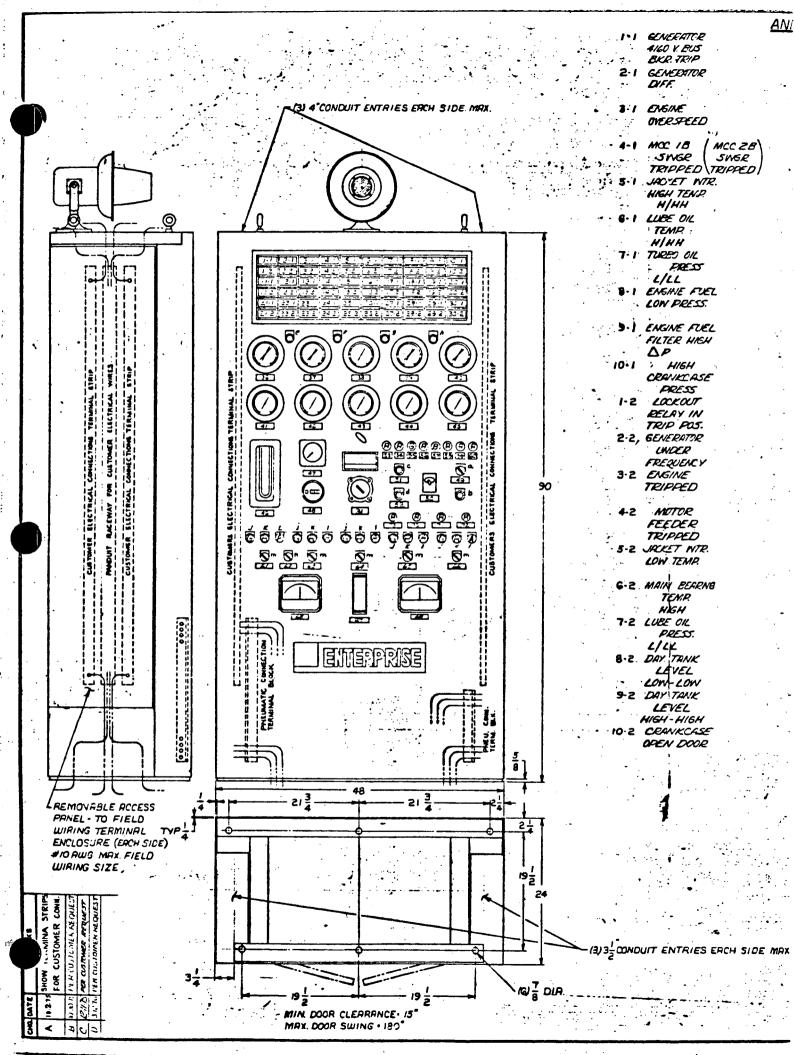
APP.	52190 2
CKD.	SHT. 23 OF 24
ELECTRICAL INTER	-



Diesel Local	Engine	Gen. Local	VR	нν	Neutral	Gen.	Gen. Remote	Air Comp.	MCC	Swgr.	Relay Panel	
							397F					
							397G	·				
		· · ·					397H					
·							397J					
							397K					
							397L	× ····=				,
							397M					
							401					
· <u> </u>							402		-			BUS PT GRD
••							404 (218G)					
· · · · · · · · · · · · · · · · · · ·							CG			x		CT COMMON
	•			•			L1			B11-U		SPACE HTR.
				· .			L2			B11-X1		SPACE HTR.
							CR1			B11-C11		SPACE HTR.
							CR2			B11-C21		SPACE HTR.
							CR3					
							CR4					
							CR5					
							CR6					
	335								x			F.O. DRIPS
	336								x			F.O. DRIPS
					CT4X1				x			GEN. DIFF.
					CT5X1				x			GEN. DIFF.
					CT6X1				x			GEN. DIFF.
					CT4, 5, 6 X2 PT				x			GEN. DIFF
					- X1 -				x			GRD.
			ж. С		PT X2				x			GRD. F. OL
•	•		2							X		N.C. n.S.a.
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ELECTRICA	L INTERCONNECT DIAGRA
СКЭ.	SHT. 24 OF 24 BEV.
APF.	52190 2

•	· · · · · ·	• • • •				
UNCIA	TOR NAMEPLATES				NAMEPLATES	
11-1	OVERCUREENT	21-1	SPACE HTR.		31 TEMPERATURE	53 DC CONTROL
	W/ VOLTAGE RESTRAINT		TROUBLE	· · .	SELECTOR	POWER ON
12-1	LOSS OF	22.1	GENERATOR		<b>82</b> 33	54 AC CONTROL
	FIELD		OVER		34	POWER ON 55 UNIT STOPPED
	EXCITATION		EXCITATION		35	1 56 UNIT
	STATOR GROUND	83-1	VOLTAGE BALANCE		30 STARTING AIR PRESSURE RED-LEFT FRONT	RVAILABLE
				•	BLACK-RIGHT FRONT	FOR STRRT
14-1		24-1	DC BUS I DC BUS Z	:	37 STARTING AIR PRESSURE	STRRTING
	LOW VOLT (LOW VOLT)		GROUND GROUND		RED-LEFT REAR	58 TEST
15-1	MCKET NTR.	25-1			BLACK- RIGHT REAR 38 LUBE OIL PRESSURE	TRIPS SET
	LOW LEVEL		Save Horses and the	21 J.	39 TURBO OIL PRESSURE	59 READY TO
16.11	LUBE OIL	- <b>- - - -</b>	1414 A	•.	RED-LEFT FRONT	CLOSE
	FILTER HIGH	26-1	MISSILE RESISTRAT		BLACK-RIGHT FRONT 40 TURBO OIL PRESSURE	GEN BREAKER
	<b>△</b> <i>P</i>		DOOR OPEN		RED-LEFT REAR	60 UNIT LORDED/READY TO LOPL 61 FUEL TRANSFER FUMP IN (24,
17-1	LUBE OIL	27-1			BLACK- RIGHT REAR	62 TRANSFER FLMP SCIEST
•••	TRAK LOW LEVEL				41 FUEL OIL PRESS	63 FUEL TRAVISFED MAD IN (26
18-1	PIA, PIB (P2A, P2B)	2 <b>8</b> -1		·	42 DIFFERENTIAL PRESSURE FUEL OIL FILTER	: 64 FUEL STANDEY DUND
	TRANSLINE TRANSLINE				43 COMBUSTION AIR PRESSURE	65 LUBE OIL HEATEP. 66 JACKET WATLE HEATEP.
	LOW PRESS. LOW PRESS.		· · · · · · · · · · · · · · · · · · ·		LEFT BANK RIGHT BANK	K GT MAINS FUEL TAPIR LEVEL
19-1	FUEL PUN:P/ OVERSPEED	<b>29</b> · 1	STOR. TANK	• • •	44 DIFFERENTIAL PRESSURE	68 DAY TENK LEVEL
	DRIVE FAIL		LOW LEVEL	• 4 <sup>1</sup> •	AUBE OIL FILTER 45 NACKET WATER PRESSURE	69 LUBE THINK LEVEL
20-1	IA ( EA )	30-1	ENGINE		40 CRANKCASE PRESSURE	TO L.O. KEEP WARN FUND ON TI J.W. KEEP WARN PUND ON
	START AIR START AIR	•	VIBRATION	•	47 ENGINE SPEED	TE RADIATOR COLLING FAAS ON
11.9	LON PRESS LOW PRESS   NEGATIVE	31 -	EWATER		48 ENGINE HOURS	73 CRANKCASE FANS ON
11.5	PHRSE	2.12	EXCITER SEMT CONDUCTOR		49 MANUAL TEST START 50 MAINTENANCE STANDBY	
• • •	SEQUENCE		FRILURE	-	SI MRINTENANCE MODE SELECT	
15.5	DIRECTION	<b>22 · 23</b>	GEN		52 MRINTENRNCE MODE ONLY	
•••••••••••••••••••••••••••••••••••••••	POWER		DVEB			
13.2	STATUR	23.2	VOLTRGE SWGR #3			
	WINDING					ALL ANIMUNCIATOR LENSES ARE WHITE
	HIGH TEMP.		UNDERVOLT.			TRANSLUCENT & ENGRAVED WITH 14.
H-2	BATTCHRER BATTCHRER	24-2	DC BUSI DC BUS	- 1		BLACK UPPER CASE LET TE FING ASSAM. SEE DEANING NO. 52193 FOP DESAILED
	A/B C/D		CACETRIP DCACET \$/0R L/V \E/CR L/V		OFF STRAT	ENGRAVING DATA.
		25.5	· · · · · · · · · · · · · · · · · · ·		6 STOP	2.0-A ARE STANDARD BLACK FURNAS
_			<b>N</b> .	. <b>.</b>	c 10/7//VI,	NAMEPLATES AS SHOWN
10:5			MAINT.		d ENGINE ROLL	S. NAMEPLATES 36-72 ARE STANLARD
16:2	LUBE OIL	26-2	FIRE PROT. SISTEM		F ACKNOWLEDGE	DELAYAL: "IN LAMINATED WHIL ELA.
	TEMP		ACTIVATED		RESET	FREE WITH WHITE ERCKING ENGRAVE WITH CUTTER OIG WIDE TO A DELTH
	LUBE OIL	21.5	ALARM		h TEST I OFF	OF .016 . EDGES OF FLATES AND ESTA
	STRADEY PUMP ON		CONTACTS		L ON	ALL LETTERING IS VE CHALKCASE.
	PIA, PIB (PZA, RZB)	28-2	GROUNDED DRNEL		I RUTO	NRMEPLATES 53.60 AFE SH 11/4.
	STRAINER STRAINER		REAR DOORS		HRND OFF AUTO	ALL OTHERS ARE JIA" X ZJA".
	$MEH \triangle P \setminus HEH \triangle P$		OPEN	<u>, 1</u>	PIR PIE(P29 P2E)	ARMERIATES SUCHALIN PARENTHESE
/9-2	من المراجع ( المراجع ( المراجع ( المراجع ( المراجع ( المراجع ( المراجع ( المراجع ( المراجع ( المراجع ( المراجع		DRAINAGE D-6 BLD			ARE FOR DIESEL GENEPATOR FREL V2.
			SUMP LEVEL BATTERY HIGH-HIGH BELOW 60			
20-2	IB ( 2B \		BARRING BARRING			· · · · · · · · · · · · · · · · · · ·
	START AIR START AIR		DEVICE			-
•	LOW PRESS LOW PRESS /		ENGAGED		an an an ann an an an an an an an an an	
		-	ين در بي منه و بر بي و در الي رو و رو			SEFERENCE DERWINGS SEI87. PANEL PREUMATIC SCHEMATIC
		-		•		S2187. PHNEL PALUMENTIC SCHEMATIC S2189 PANEL ELECTRICAL SCHEMATIC
				n de la November 1		SAFETY RELATED
. <b>.</b>						DO NOT SCALE DRAWING
				. IP/	AINT SPECIFICATION:	Strate lateral ec
						92
				PA	INEL EXTERIOR TO BE A HIGH . OSS FINISH, ASA #61 GRAY.	
					TERIOR TO BE NON REFLECT	
		and the second			E WHITE, F. 096-107.	
				<b>1</b>		
		ا با مورد المحمد. با مورد و ا		SE	E D 4849 FOR GENERAL NTROL CRBINET SPEC.	ENUINE COURC
•				<u>.</u>	more undiner spec.	PANEL INSTALLATION
					TERIAL AND HARDNESS APP.	
-	• •	· · ·			SCALE 1/	
					SO CALF ELISIA SEG	
				1	1 · · · · · · · · · · · · · · · · · ·	



## ANNUNCIATOR ENGRAVING DRAWING #52193 Sheet 2 of 2 FOR: F-501-053

متحاصر محالت التبايية فستحاج بالاستكار

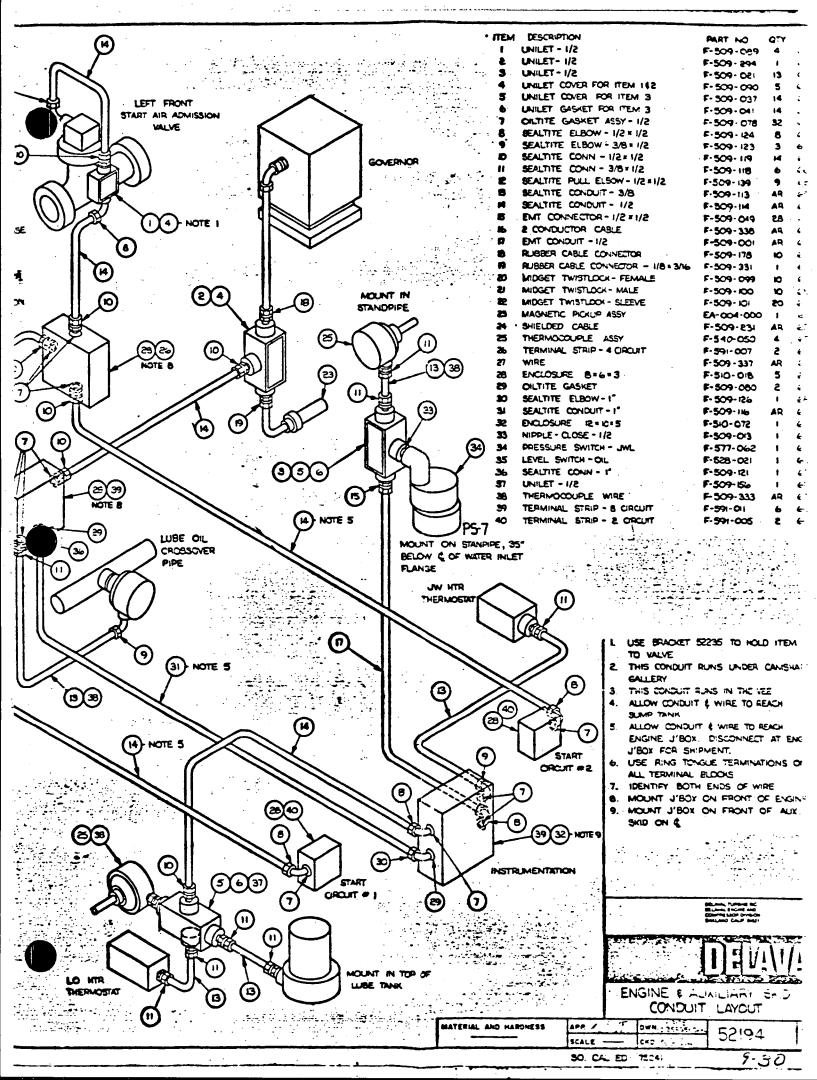
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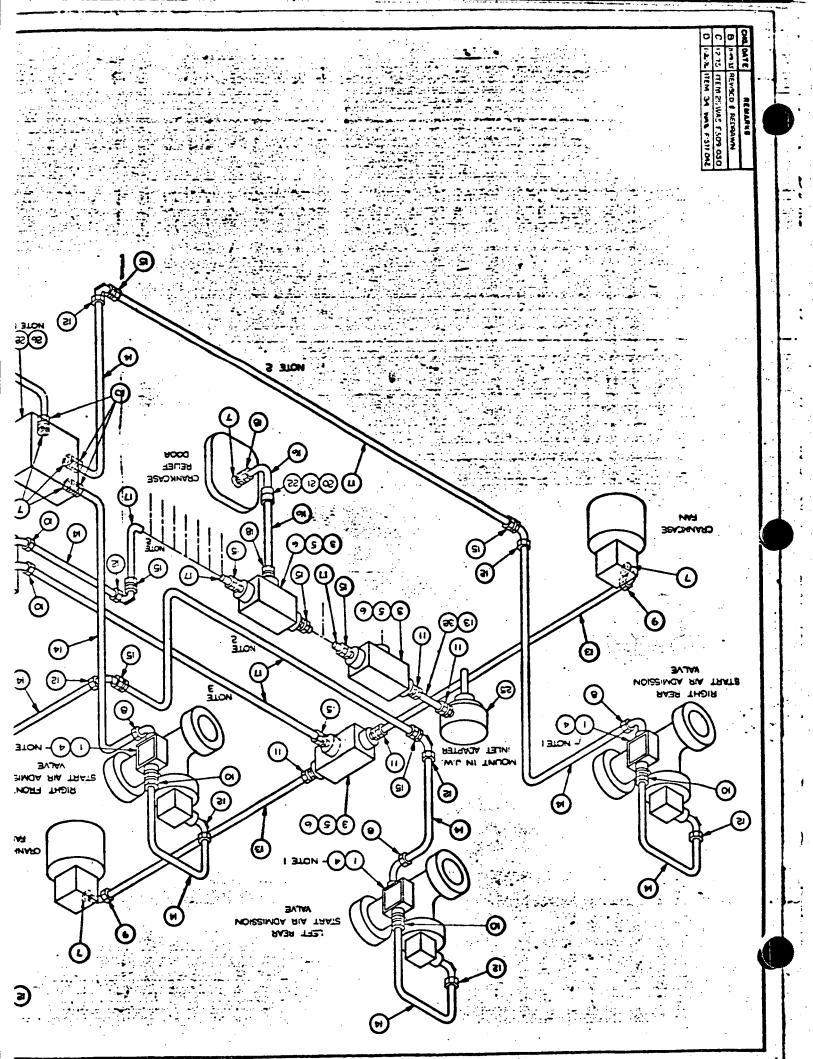
ł				D	IESEL	GENER!			#2	· · · ·		
		1-1	2-1		4-1	1		7-1	8-1	9-1	10-1	
		1-2	2-2	3-2	4-2	5-2	6-2	7-2	8-2	9-2	10-2	
		11-1	12-1	13-1	14-1	15-1	16-1	17-1	18-1	19-1	20-1	
		11-2	12-2	13-2	14-2	15-2	16-2	17-2	18-2	19-2	20-2	
ł		21-1	22-1	23-1	24-1	25-1	26-1	27-1	28-1	29-1	30-1	<i>,</i>
1.1	· · · · ·	21-2	22-2	23-2	24-2	25-2	126-2	27-2	28-2	29-2	30-2	
ţ		• .		. •	ANNUNC	IATOR	NAME	PLATES				
-1	GENERATOR 4160 Y. BUS		2 LUE	E OIL		13-2	ST.	ATOR		21-2	EX	
Ŧ	ALOU J. BUS		PF	ESS.			WI	NDING	<b>D</b>		SEMIC	ONDUCTOR
-1	4160 Y. BUS BKR. TRIP GENERATOR	8-	2 DAY	TANK		14-2	BIG.	NDING H TEM T CHRG	r. R	22_2	FA GENE	ILUPE
ł	DIFF.	•	LE	EVEL		14C		ILURE	11	22-2	OVERV	OLTAGE
-1	ENGINE		LO:	-LOW		-		C/D		23-2		
£.	OVERSPEED	9-	2 DAY			15-2	SPA	RE				-
-1	MCC 2B SwgR			VEL	••	16-2		E OIL			L UNDEF	
Ł	TRIPPED	10-	2 CRA	H-HIG						24-2	DC 1	
-1	JACKET WTR.	10-		IN DOO		11-2		E OIL NDBY				DB TRIP R L/V
ł	HIGH TEMP			RCURE				P ON		25-2	UNIT	
f _	Н/Н Н	_		VOLTA		18-2	G75.	A. G75	В		TN	
-1			RE	STRAI	NT		ST	RÁINER	•		MAINT	
Į	TEMP	12-	1 LC				HI	GH 🛆 Р		26-2	FIRE	PROT.
	H/H H TUREO OIL		EXC	IELD		19-2	SPA	RE		i	MAINT FIRE SYS	STEM
. (	PRESS.	13-				20-2	C C	-148 PD ATP			ACTIV	/ATED
Ţ	L/L L		GRC	UND			LOW	PRESS		21-2	CONTA	2079 2079
-1			1 DC	BUS 2		21-1	SPA	CE HTR			GROUN	IDED
	LOW PRESS		LOW	VOLT			TR	OUBLE		28-2	PAT	ITT.
-1	ENGINE FUEL				TR.	22-1	GEN	EFATOR			REAP	DOORS
	FILTER HIGH	16-	- LOM		L		0	VER			REAP. OPE	EN
<b>L</b> 1	HIGH	TOP		BE OI TER H		<b></b> .	EXC	TTATIO	N	29-2	D-G ±	SLDG.
Į	CRANKCASE		1. TT			23-1	VOL'	AGE				ERY RM V 60°F
ł	PRESS.	17-	l LUE	EOIL		24-1		BUS 2		30-2		
-2	LOCKOUT		TAN	K LOW				OUND		<u> </u>	DEVIC	
1	RELAY IN TRIP POS.			VEL		25-1					ENGAC	JED
-2	GENERATOR	18-1		A, P-		26-1		SSILE				
[ <sup>-</sup>	UNDER			NS. L PRES				ISTANT		POS.		5-1, 7-1,
ł	FREQUENCY	19-	1 FUE			27-1	SPA:	R OPEN			20-1,	7-2, 18-1,
-2				RSPEE			SPA					SH MODULES
-2	MOTOR			VE FA	IL	29-1		E. TAN	К			
l	FEEDER TRIPPED	20-		-14A				LEVEL		POS.		GROUND
-2	JACKET WTR.			RT AI		30-1		GINE			DETECT	FION MODULE
ŧ.	LOW TEMP.	11-2		ATIVE	• ت		VIB.	RATION		DOC	20 I 4	
-2	MAIN BEARING			ASE		•				rud.		4 20-2, AU) DT MODULE
<b>I</b> .	TEMP.			UENCE				•			JUNIA	
	HIGH	12-2	2 DIR	ECTIO	4			•				
			P	OWER				•			•	
-	HERN CALIFOR		DTOON		•	5	)1(	10		REV.	B)3-1	5-76
ERI	AL NUMBER:	NIA 21 75041	142 1720N			52	こと	13			A)12-1 8-11	

ERIAL NUMBER: 75041/42

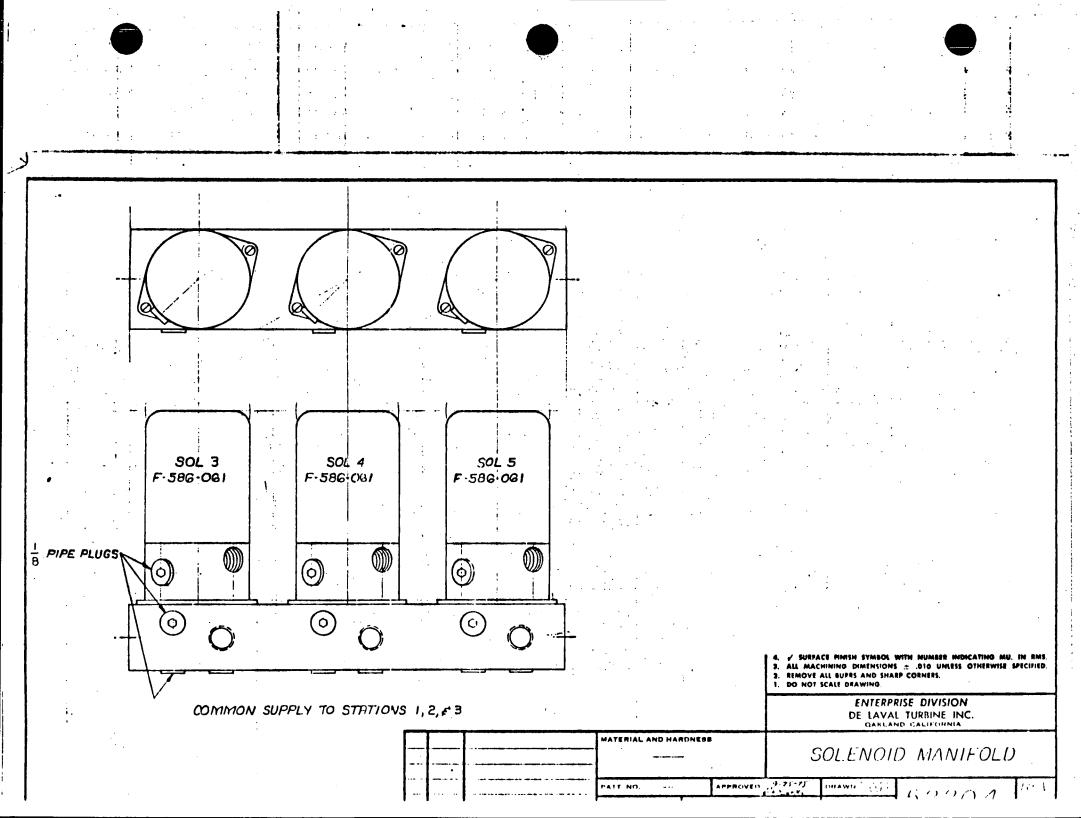
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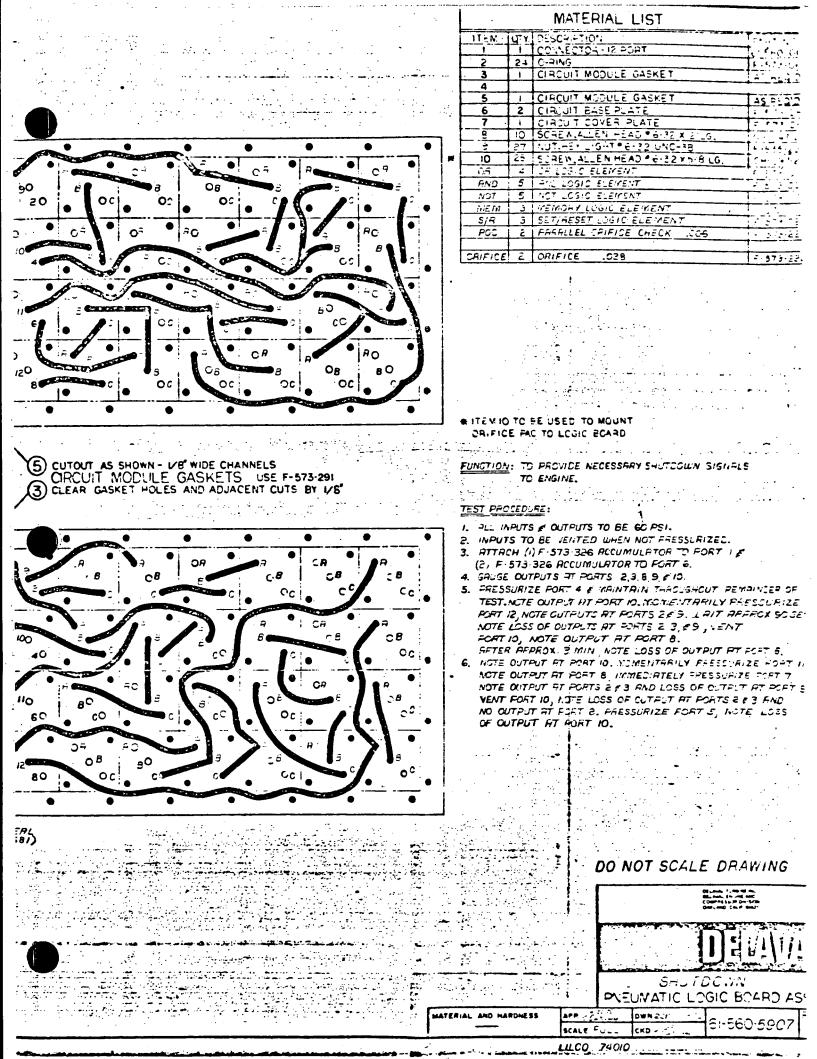
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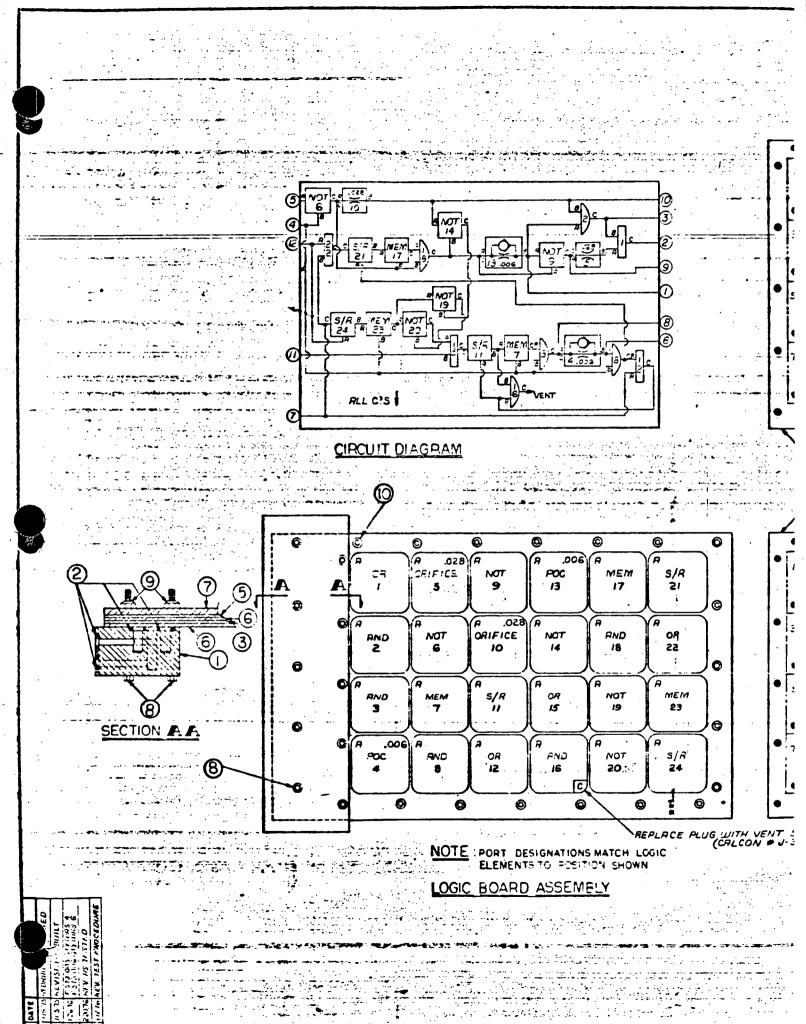




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### E&C INTERNAL TRANSMITTAL

E .... Southern California Edison Company

ATE ISSUED25-77	DATE COMMENTS DUE PROJECT NAME SONGS 1 SPA
EFERENCE NUMBER	DESIGNER/VENDOR Delavel
TYPE OF ISSUE	DISCIPLINE
FOR REVIEW AND COMMENT	MECHANICAL ,
FOR APPROVAL	
X FOR INFORMATION	
	ARCHITECTURAL
	NUCLEAR
DRAWING NUMBERS	DESCRIPTION
CE01-HMA	Instruction Manual, Volume 1 - (engine)
	Model - DSRV-20-4 - Serial No. 75041-2803
	<b>75042-2804 - (Date: November 9, 1976)</b>
package no. 1123	wree inadvertently left out of our transmittal 37 dated 11-23-76. DRAWING ACCEPTABLE WITHOUT CHANGE COMMENTS ARE INDICATED ON ATTACHED DRAWINGS
	37 dated 11-23-76.
package no. 1123 EVIEWERS COMMENTS CHANGE AS FOLLOWS:	37 dated 11-23-76. DEAWING ACCEPTABLE WITHOUT CHANGE COMMENTS ARE INDICATED ON ATTACHED DRAWINGS Syluta/Fred Jelase file ////////////////////////////////////
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package no. 1123	37 dated 11-23-76. DEAWING ACCEPTABLE WITHOUT CHANGE COMMENTS ARE INDICATED ON ATTACHED DRAWINGS Sylwa Ared Julya Ared Ju

20WS100 SERIES

## WATT TRANSDUCERS

CEDI-HMA 60-1

#### DESCRIPTION

SPECIFICATIONS

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or untiltered cutputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this series, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications. Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into s varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow
- . Calibrated Output

MODEL NUMBERS	2005100	20WS101	20WS101E			
NCHINAL POTENTIAL INPUT	120 VCLTS					
NOMINAL CUBRENT INFUT	5 AMPS					
FULL SCALE CALIBRATING WATTS		1000 WATTS+				
OUTPUT AT FULL SCALE (d.c.)	100MV	1MA	<u>1 1MA</u>			
OUTPUT LOAD REQUIRED	1006	1 0 to 108.2	<u>G to 10%3</u>			
ACCURACY/LINEARITY 8 25°C	:0.	57 OF FULL SC.	ALE			
20WER FACTOR - RANGE	ערואט	TO LEAD OF LA	C ZERO			
TEMPERATURE RANGE		-20°C to +60*	<u>c</u>			
TEMPERATURE EFFECTS ON ACCURACY (MAX.)	:13					
FREQUENCY FANCE	<u>50-621/z(1)</u>					
A.C. COLPONENT (PEAK)	$1002(^{2})$	<1*	1 <1:			
RESPONSE TIME TO 99% OF FINAL VALUE	<1MS	<200MS	<200MS			
VOLTAGE RANGE	0-135V	85-135V	0-135V			
POTENTIAL		150 VOLTS				
INPUT OVERLOAD LIMITS CUERSINT		1800US 250A				
VOLTAGE BURDEN MAXIMUM PER ELEMENT	21.3	1 4VA	2.A			
CURNENT BUSIDEN	<u>·</u>	2 V A				
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	NONE	85-135V 6096-28			
CALIBRATICS ADJUSTMENT		101(-)				
ZERO ADJUSTMENT	NONE	i•2 <b>:</b>	:23			
DILLECTRIC TEST INPUT TO OUTPUT TO GROUND	1500V FIS					
PACKAGING AND CONNECTIONS	DIALEAMS ON REVERSE SIDE					

(1) AVAILABLE AT 25Hz, 400Hz AND HIGHER PRECUTNCY RANGES

(2) FILTFRED CUTPUT AVAILABLE

ANS DATA, inc.



## WATT TRANSDUCERS

#### DESCRIPTION

SPECIFICATIONS

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unflitered outputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this series, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications. Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

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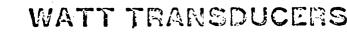
- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow
- . Calibrated Output

MODEL NU	MEERS	20WS100 *	20WS101	20WS101E			
NOMINAL POTENTIAL INPUT		120 VCLTS					
NOMINAL CURRENT INPUT			5 AMPS				
FULL SCALE CALIEPATING V	ATTS		1000 VATTS				
OUTPUT AT FULL SCALE (d.	c.)	100MV	1 <u>MA</u>	1MA			
OUTPUT LOAD FROUIPED		1003	0 to 1082	<u>  0 to 10KB</u>			
ACCURACY/LINEARITY 2 25	C	:0.	57 OF FULL SC.	ALE			
POWER FACTOR FAMOR		UNITY	TO LEAD OF LA	1 2270			
TEMPERATURE PADICE			-20°C to +50°	<u>.</u>			
TEMPERATURE EFFECTS ON /	CCURACY (MAX.)						
FREQUENCY RADIOE		50-521(2(1)					
A.C. COMPONENT (PEAK)		1002(2)	<::	<u> </u>			
RESPONSE TIME TO 992 OF	FINAL VALUE	<185	<200MS	1 <200M3			
VOLTAGE RANGE		0-135V	35-1357	0-135V			
	POTENTIAL		150 VOLTS				
INPUT OVERLOAD LIMITS	CURPENT	10A CONTINUOUS, 25CA FOR 1 SEC.					
VOLTAGE BURDEN	MAXIMUN PER ELEMENT	27.8					
CURRENT BUSDEN	POLYTHEN I ER ELLINE		2 V A				
EXTERNAL AMPLIFIER POWER	R REQUIRED	NONE	NONE	85-135V 6032-25			
CALIBRATION AD USTMENT			•10°(°)				
ZERO ADJUSTEEN:		NONE	-23	1 22			
DIELECTRIC TEST-INPUT TO	CUTFUT TO GROUND	1500V FHS					
PACKALING AND CONNECTION		FLAGRAMS ON FULFREE SIDE					

(1) AVAILABLE AT 25Hz, 400Hz AND HIGHER FREQUENCY RANGES

(2) FILTEFED OUTPUT AVAILABLE

RANSDATA in.



#### DESCRIPTION

SPECIFICATIONS

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered cutputs. TransData transducers are also noted for their smallphysical size, high reliability and applicational flexibility.

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#### Hodel 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

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- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow
- . Calibrated Output

MODEL NUMBERS	20WS100	20WS101	20WS101E				
NOMINAL POTENTIAL INPUT		120 VOLTS					
NOMINAL CURRENT INPUT		5 AMES					
FULL SCALE CALIBRATING WATTS		1000 WATTS					
OUTPUT AT FULL SCALE (d.c.)	100MV	194	<u>1 1MA</u>				
OUTPUT LOAD FEDUIRED	1006	i O te 1082	0 to 13%.				
ACCURACY/LINEARITY @ 25°C	±Ú.	5% OF FULL SC	11 E				
POWER FACTOR PANCE	UNITY	TO LEAD OR LA	<u>2 2580</u>				
TEMPERATURE PANGE		-20°C to +t0'	ç				
TEMPERATURE EFFECTS ON ACCURACY (MAX.)		:13					
FREQUENCY RANGE		50-6211z(1)					
A.C. CONTENT (PEAK)	1002(2)	<1:	i <1:				
RESPONSE TIME TO 992 OF FINAL VALUE	<1MS	<20JMS	<200MS				
VOLTAGE RANGE	C-135V	65-135V	0-135V				
POTENTIAL		150 VOLTS					
INPUT OVERLOAD LIMITS CURESNT	ICA CON	ICA CONTINUOUS, 2505 FOR 1 STO					
VOLTAGE BUSINE MAXIMUM PER ELE	IFNT ZVA	4\'A	A				
CURRENT ECHDEN		2VA					
EXTERNAL AMPLIFIER POWLR REQUIRED	NCNE	NONE	85-135V 6054 23				
CALIBRATING AD PUSTMENT.		:10:(')					
ZERO ADJESTMENT	NONE	·2:	1 :2:				
DIELECTRIC TEST-INPUT 10 OUTPUT TO GROUT	ND	1500V RMS					
PACKALING AND CONSECTIONS	DIAG	DIAGRANS ON REVENSE SIDE					

(1) AVAILABLE AT 25Hz, 400Hz AND HIGHER FREQUENCY KANDES

(2) FILTERED OUTPUT AVAILABLE

TRANSDATA, in.



## WATT TRANSDUCERS

#### DESCRIPTION

**SPECIFICATIONS** 

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

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Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow
- . Calibrated Output

MODEL NUMBERS	<u>.</u>	20WS100	20WS101	20051015		
NOMINAL POTENTIAL INPUT		120 VOLTS				
NUMINAL CURRENT INPUT			5 AMTS			
FULL SCALE CALIBRATING WATTS			1000 WATTS			
OUTPUT AT FULL SCALE (d.c.)		10055	1F/A	144		
OUTPUT LOAD SEQUERED		1000	0 to 10%2	0 : : : : :		
ACCUFACY/LINEAFLIY @ 25°C		±0.	5% OF FULL SC.	ALE		
POWER FACTOR FAMOR		UNITY	TO LEAD CE 1.4	<u>CERO</u>		
TEMPERATURE RANGE			-20°0 to +60°	<u>c</u>		
TEMPERATURE EFFECTS ON ACCUR	CY (MAX.)					
FREQUENCY RANCE		50-6282(2)				
A.C. COMPONENT (PEAR)		1002(2)	<u></u>	<12		
RESPONSE TIME TO 992 OF FINAL	VALUE	<1%5	<200MS	<2005S		
VOLTACE RANCE		0-135%	85-135	0-1355		
	POTENTIAL		150 VOLTS			
INPUT OVERLOAD LIMITS	CUFFERT	10A CONTINUCCS 250A FOR A SE				
VOLTAGE BURDEN MANTA	OM PER ELEMENT	211	4VA	12VA		
CURPENT EUROPH	ter ter enalert		<u> </u>			
EXTERNAL AMPLIFIER POWER REQU	DIRED	NONE	NONE	85-135 600-75		
CALIERATION ADJUSTMENT			:101(2)			
ZERO ADJUSTMENT		NONE	• 2 %			
DIELECTRIC TEST-INPUT 10 OUT	UT TO GROUND	1500V 8M3				
PACKAGING AND CONNECTIONS		DIAGRAMS ON REV-RSE SIDE				

(1) AVAILABLE AT 25Hz, 400Hz AND HIGHER FREQUENCY RANGES

(2) FILTERED OUTPUT AVAILABLE

TRANSDATA. inc.



## WATT TRANSDUCERS

#### DESCRIPTION

**SPECIFICATIONS** 

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or untiltered cutputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this series, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications. Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow . Calibrated Output

MODEL N	LABERS	20WS100 '	20WS101	20%51015			
NOMINAL POTENTIAL INPUT		120 VOLTS					
NOMINAL CURRENT INPUT			5 AMPS				
FULL SCALE CALIBRATING	ATTS		1000 WATTS				
CUTPUT AT FULL SCALE (d		100MV	1MA	144			
CUTPUT LOAD REQUIRED		1000	0 to 1082	0 to 10%;			
ACCURACY/LINEARITY @ 25	•C	:0.5	Z OF FULL SC	ALE			
POWER FACTOR FANGE		T YTHU	O LEND CE. LA	<u>C ZERO</u>			
TEMPERATURS RANGE			20°C to +60°	<u> </u>			
TEMPERATURE EFFECTS ON	ACCURACY (MAX.)	:13					
FREQUENCY HANCE			50-628z(1)				
A.C. COMPONENT (PEAR)		100:0	<12	<12			
RESPONSE 11ME TO 992 OF	FINAL VALUE	<1MS	<200MS	<200MS			
VOLTAGE RANGE		0-135V	<u>83-1358</u>	0-135V			
	POTENTIAL		150 VOLTS				
INPUT OVERLOAD LIMITS-	CURSENT	10A CONTINUOUS, 250A FOR 1 SEC.					
VOLTAGE SUPDEN	MAXIMUM PER ELEMENT	21%	4VA -	2 V A			
CURNENT BURGEN	PRATECT FER Enderst		2VA				
EXTERNAL AND LIFTER POWE	R REQUIRED	NONE	NONE	85-135 605z 21			
CALIBRATION ADSUSTMENT			21^2(2)				
ZERO ADJUSTMANT		NONE		1 :23			
DIELECTRIC TEST-USPUT T	O OUTPUT TO GROUPD		1500V RMS				
PACKALING AND CONNECTIO		EIAJBA	MS ON PEVERS	E 5101			

(1) AVAILABLE AT 25Hz, 400Hz AND HIGHER FREQUENCY RANGES

(2) FILTERED OUTPUT AVAILABLE

FRANS ATA. Inc.



## WATT TRANSDUCERS

#### DESCRIPTION

**SPECIFICATIONS** 

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered cutputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this series, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications.

# Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohrs, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow . Calibrated Output
  - calibrated Out

MODEL N	UMBERS	20WS100 20WS101 20WS103					
NOMINAL POTENTIAL INPUT		120 VOLTS					
NOMINAL CURRENT INPUT		5 12PS					
FULL SCALE CALLERATING	WATTS	1000 WATTS					
OUTPUT AT FULL SCALE (d	.c.)	100MV	1* <u>1</u> 4	1 <u>MA</u>			
OUTPUT LOAD PROVISED		10011	0 to 1980	O to 1015			
ACCURACY/LINEARITY P 25	*c	±0.	5% OF FULL SC	ALE			
POWER FACTOR HANGE		UNITY	TO LEAD OR LA	C ZERO.			
TEMPERATURE RANGE			-20°C to +60°	ς			
TEMPERATURE EFFECTS CN	ACCURACY (MAX.)	:13					
FREQUENCY FANCE		50-621/2(+)					
A.C. COPPONENT (FEAK)		1002(2) <12 <12					
RESPONSE TIME TO 992 OF	FINAL VALUE	<145	<2C0M5	<202MS			
VOLTAGE RANGE		0-135V	85-1357	0-1355			
	POTENTIAL		150 VOLTS				
INPUT OVERLOAD LIMITS	CUSEENT	10A CONTINUOUS, 250A FOR 1 SEC.					
VOLTAGE SURDEN	MAXIMUM PER ELEMENT	2VA	aVA	277A			
CURRENT BURDEN	PRATECT FOR CELEMENT		19Λ .				
EXTERNAL AMPLIFIER POWE	R REQUIRED	NONE	NONE	85-1351			
CALIBRATION ADJUSTMENT		1	:10:(3)	·····			
ZERO ADJUSTMENT		NONE	• 23	1 :23			
DIELECTRIC TEST-INFUT I	O CUTPUT TO GROUND	1500V RMS					
PACKAGING AND CONNECTIO		DIAGHIMS ON MEVERSE SIDE					

(1) AVAILABLE AT 25Hr, 400H: AND LIGHER FREQUENCE RANGES

(2) FILTERED OUTPUT AVAILABLE

ANS



## WATT TRANSDUCERS

#### DESCRIPTION

**SPECIFICATIONS** 

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered cutputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this series, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications. Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst care (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow
- . Calibrated Output

MODEL N	INDERS	2045100	2003101	20WS101E			
NOMINAL POTENTIAL INPUT	<u></u>	120 VOLTS					
NOMINAL CURRENT INPUT			5 AMPS				
FULL SCALE CALIBRATING	PATTS		1000 WATTS				
OUTPUT AT FULL SCALE (		100MV	18:A	194			
OUTPUT LOAD FEQUIEED		1000	0 to 10K2	<u>0 to 1.85</u>			
ACCURACY/LINEARITY @ 25	5°C	±0.	5% OF FULL SC	ALE			
POWER FACTOR FANGE		UNITY	TO LEAD OF LA	C DENC			
TEMPERATURE PANGE			-20°C to +50°	<u>c</u>			
TEMPERATURE EFFECTS ON	ACCURACY (MAX.)	:13					
FREQUENCY RANGE		50-62Hz( <sup>1</sup> )					
A.C. COMPONENT (PEAK)		1002(*)	<12	<12			
RESPONSE TIME TO 992 CI	F FINAL VALUE	<1MS	<20 <u>0</u> MS	<200MS			
VOLTAGE PANCE		0-135V	85-135%	0-1357			
	POTENTIAL		150 VOLTS				
INPUT OVERLOAD LIMITS	CLARSNT	10A CONTINUOUS, 250A FCF 1 SEC.					
VOLTAGE BURDEN	MAXIMUM PER ELEMENT	2.YA	4VA	277 <b>X</b>			
CURRENT BULGEN	MAXIBUR PER ELEMENT -		2VA				
EXTERNAL ANDLIFIER POW	ER REQUIRED	NONE	NONE	85-1551 6011-21			
CALIBRATION ADJUSTMENT							
ZERO ADJUSTIENI		NCS2					
DIELECTRIC TEST-INFUT	O OUTPUT TO GROUPID	1500% 845					
PACKALING AND CONNECTION		DIAGRAMS ON PEVERSE SIDE					

(1) AVAILABLE AT 25Fz, 40CHz /ND HIGHER FREQUENCY RANGES

(2) FILTERED OUTPUT AVAILABLE

ANSDATA



## WATT TRANSDUCERS

#### DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or untiltered cutputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this meries, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications.

#### **SPECIFICATIONS**

Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow . Calibrated Output

	 -	-	•	-	_	-	-	-	_	-	-	•	_	-	

MODEL NU	MBERS	2045100	20WS101	20051015			
NOMINAL POTENTIAL INPUT		120 VOLTS					
NOMINAL CUFRENT INPUT		5 AVOS					
FULL SCALE CALIBRATING -	ATTS		1000 WATTS				
CUTFUT AT FULL SCALE (d.	c.)	100MV	<u>1MA</u>	<u>194</u>			
OUTPUT LOAD FEQUERED		1007	0 to 1986	0 to 10%2			
ACCURACY/LINEARITY 0 25	'C	:0.	5% OF FULL SC	ALE			
POWER FACTOR FANGE		UNITY	TO LEAD OF LA	G ZERO			
TEMPERATURE RARGE			-20°C to +60°	<u>c</u>			
TEMPERATURE EFFECTS ON A	CCURACY (MAX.)						
FREQUENCY FANCE			50-521(z(1)				
A.C. COMPONENT (PEAK)		$1007(^{2})$	<1:	<12			
RESPONSE TIME TO 992 OF	FINAL VALUE	<1MS	<2COMS	<200MS			
VOLTAGE RANCE		0-135V	85-1357	0-135V			
	POTENTIAL		150 VOLTS				
INPUT OVERLOAD LIMITS	CURPENT	10A CONTINUOUS, 250A FCR 1 SEC.					
VOLTAGE BURDEN	MAXIMUM PER ELEMENT	2 V A	4VA -	2774			
CURRENT RUEDEN	PRATHCH FER ECCILIT		<u>278</u>				
EXTERNAL AMPLIFIER POWER	REQUIRED	NOWE	NONE	85-135V 1 600z 25			
CALIBRATION ADJUSTMENT		1.	:10:(1)				
ZEPO ADJUSTYENT		NOSE	-22	:23			
DIELECTRIC TEST-INPUT 10	OUTPUT TO GROUND		1100V RM3				
PACKAGING AND CONNECTICS		DIAG	RAMS ON REVERS	ESIDE			

(1) AVAILABLE AT 25Hz, GOUNZ AND HIGHER FREQUENCY FARGES

(2) FILTERED OUTPUT AVAILABLE



## WATT TRANSDUCERS

#### DESCRIPTION

**SPECIFICATIONS** 

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered cutputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20W5100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this series, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications. Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.52 includes influences of variations in voltzge, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Fower Flow
- . Calibrated Output

MODEL NUMBERS	20%5100	20%5101	20%51015
NOMINAL POTENTIAL INPUT	120 VOLTS		
NOMINAL CURRENT INPUT	5 APS		
FULL SCALE CALIBRATING WATTS	1000 WATTS		
OUTPUT AT FULL SCALE (d.c.)	100MV	135A	144
OUTPUT LOAD REQUIRED	1000	O to 10KR	0 to 10Ka
ACCURACY/LINEARETY @ 25°C	±0.5% OF FULL SCALE		
POWER FACTOR PANCE	UNITY TO LEAS OR LAG ZERO		
TEMPERATURE RANGE	-20°C to +60°C		
TEMPERATURE EFFECTS ON ACCURACY (MAX.)	<u>• 17</u>		
FREQUENCY FANCE	50-621(±(1)		
A.C. COMPONENT (PEAK)	1007(2)	<12	<12
RESPONSE TIME TO 992 OF FINAL VALUE	<1M5	<200MS	<000MS
VOLTAGE RANGE	0-135V	85-1359	C-135V
POTENTIAL	150 VOLTS		
INPUT OVERLOAD LIMITS CURRENT	10A CONTINUOUS, 250A FOR 1 SEC.		
VOLTAGE BURDEN MAXIMUM PER ELEMENT	2 V A	<u></u>	A
	2 '' Å		
EXTERNAL AGUIFIER POWER REQUIRED	NONE	NONE	85-135 6046-23
CALIBRATION ADJUSTMENT	± 1 = 2 ( - 1 )		
ZERO ADJUSTMENT	SCSE	• ? :	
DIELECTRIC TEST-INPUT TO OUTPUT TO GROUND	1500V RM3		
PACKALING AND CONNECTIONS	DIAGRAMS ON REVERSE SIDE		

(1) AVAILABLE AT 25Hz, 400Hz AND HIGHER FREQUENCY RANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1101 CALIBRATION ADJUSTMENT AVAILABLE

TRANS DATA, in



# WATT TRANSDUCERS

## DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or untiltered cutputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this series, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications.

#### **SPECIFICATIONS**

Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow . Calibrated Output

MODEL NUMBER	RS	20WS100	2005101	20WS101E
NOMINAL POTENTIAL INPUT			120 VOLTS	
NOMINAL CURRENT INPUT			5 AMPS	
FULL SCALE CALIBRATING WATTS	3		1000 WATTS	
OUTPUT AT FULL SCALE (d.c.)	•	- 100MV	<u>1MA</u>	15A
OUTPUT LOAD REQUIRED		1000	0 to 1052	0 to 1083
ACCURACY/LINEARITY @ 25°C		±0.	5% OF FULL SC.	ALE
POWER FACTOR PANGE		ידוות	TO LEAD OF LA	2 ZEKO
TEMPERATURE PANGE			-20°C to +60°	2
TEMPERATURE EFFECTS ON ACCUS	RACY (MAX.)			
FREQUENCY RANCE	·		50-621.2(1)	
A.C. CONTRONENT (PEAK)		1001(7)	<12	i <11
RESPONSE TIME TO 99% OF FINA	AL VALUE	<125	<20035	<200MS
VOLTACE RANCE		0-135V	£5-135V	0-1357
	POTENTIAL		150 VOLTS	
INFUT OVERLOAD LIMITS	CURPENT	1 10A CONT	INUCUS 2504	FOR 1 SEC.
VOLTAGE BURDEN MAXY	IMM PER ELEMENT	21/A	414	27A
CURMENT BURDEN			2VA	
EXTERNAL AMPLIFIER POWER REC	JUIRED	NOWE	NONE.	85-135V 669± 71
CALIBRATION ADJUSTMENT			:102(3)	
ZERG ADDUSTMENT		NOSE	• 2 2	:2:
DIELECTRIC TEST-INPUT TO CUT	TPUT TO GROUND		1526V FMS	
PACKAGING AND CONNECTIONS		P1AG8	AMS ON REPERS	ESICE

(1) AVAILABLE AT 25Hz, 400Hz AND HIGHER FREQUENCY RANGES

(2) FILTEFED OUTPUT AVAILABLE

(3) 0-1101 CALIBRATION ADJUSTMENT AVAILABLE

FRANS DATA in.



# WATT TRANSDUCERS

## DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire mystems. There are three basic models in this meries, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications.

#### SPECIFICATIONS

Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow
- . Calibrated Output

MODEL NUMBERS	20WS100 .	20WS101	20%51015
NOMINAL POTENTIAL INPUT		120 VOLTS	
NOMINAL CURRENT INPUT		5 AMPS	· <u> </u>
FULL SCALE CALIBRATING WATTS		1000 FATTS	
OUTPUT AT FULL SCALE (d.c.)	100MV	<u>164</u>	114
OUTPUT LOAD FEGUIRED	100/1	0 cc 1077	0 to 1987
ACCURACY/LINEARITE @ 25°C	±0.	52 OF FULL SC	ALE
POWER FACTOR FANGE	אד נאט	TO LEAD OR LA	G ZENO
TEMPERATURE RANGE		-20°C to +50°	<u>c</u>
TEMPERATURE EFFECTS ON ACCURACY (MAX.)	1		<u></u>
FREQUENCY RANCE		50-624:2(1)	
A.C. COMPONENT (PEAK)	1002(2)	<12	<u> </u>
RESPONSE TIME TO 992 OF FINAL VALUE	<1%5	<200MS	<20035
VOLTACE RANGE	0-135V	85-1351	0-1357
POTENTIAL		150 VOLTS	
INFUT OVERLOAD LIMITS CUPRENT	LOA CONTINUOUS, 250A FOR 1 SEC.		
VOLTAGE BURDEN MAXIMUM PER ELEMENT	2 V A	478	21A
CURRENT BURDEN		214	
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	NONE	85-135
CALIBRATION AND STRENT		:102(-)	
ZERO ADJUSTNONI	1007	• 2 2	1 222
DIELECTRIC TEST-INFUT TO CUTFUT TO GROUND		1500V FMS	
PACKAGING AND CONNECTIONS DIAGRAMS ON PROVERSE			3012 2

(1) AVAILABLE AT 25Hz, 400Hz AND HIGHER FREQUENCY RANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

RANS DATA, in.



# WATT TRANSDUCEDS

## DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or untiltered cutputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this series, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications.

SPECIFICATIONS

Model 20%S100 has a full scale output of 100 mV. The 20%S101 and 20%S101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow
- . Calibrated Output

MODEL NUTBERS	2015100	2005101	20#\$1015
NOMINAL POTENTIAL INPUT		120 VOLTS	
NOMINAL CURRENT INPUT		5 AMOS	
FULL SCALE CALIBRATING WATTS		1000 WATTS	
OUTPUT AT FULL SCALE (d.c.)	100%	1MA	1 <u>MA</u>
OUTPUT LOAD PEQUIRED	1000	<u>0 to 1082</u>	0 to 10%.
ACCURACY/LINEARITY @ 25°C	<b>:</b> 0,	ST OF FULL SC.	<u>ALE</u>
POWER FACTOR BANGE	UNITY	TO LEAD CE LA	C ZEKO
TEMPERATURE RANGE		-20°C to +50°	ç
TEMPERATURE EFFECTS ON ACCURACY (MAX.)			
FREQUENCY EANOE		<u>50-621/2(1)</u>	
A.C. COMPONENT (PEAK)	1001(2)	<12	<12
RESPONSE TIME TO 99% OF FINAL VALUE	<125	200MS	1 <200HS
VOLTAGE RANGE	0-1357	85-1355	0-135V
POTENTIAL -		150 VOLTS	
INPUT OVERLOAD LIMITS CUSHENT	LOA CONT	INCOUS 2504	
VOLTAGE BUFDEN MAXIMUM PER ELEMENT	21/A	<u>4VA</u>	2.VA
CURKENT EUROAN		<u>2VA</u>	
EXTEPNAL AMPLIFIER POWER REQUIRED	NONF	NCHE	85-135
CALIBEATION ADJUSTMENT		±101( <sup>2</sup> )	
ZERO ADAUSTMENT	5683		
DIELECTRIC TEST-ISPLT TO OUTFUT TO GROUND		15000 8345	
PACKAUING AND CONNECCIEUS	DIA	AND GN PEVERS	E 3105

(1) AVAILABLE AT ISHE, 400HE AND HIGHER FREQUENCY RANGES

- (2) FILTERED DETPUT AVAILABLE
- (3) 0-11C1 CALIBRATION ADJUSTMENT AVAILABLE

TRANS DATA, inc.



# WATT TRANSDUCERS

## DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or untiltered cutputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this series, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications.

#### **SPECIFICATIONS**

Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow . Calibrated Output

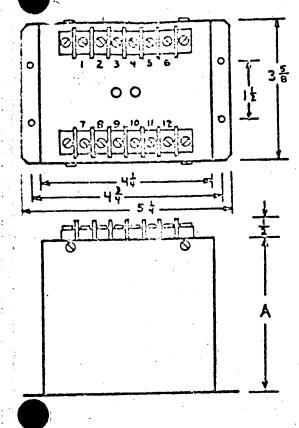
HODEL NIZOBERS	20WS100	20%5101	20451015
NOMINAL POTENTIAL INPUT	120 VOLTS		
NOMINAL CURRENT INPUT		5 AMES	
FULL SCALE CALIBRATING WATTS		1000 WATTS	
OUTPUT AT FULL SCALE (d.c.)	100177	<u>1MA</u>	<u>1 14A</u>
OUTPUT LOAD REQUIRED	1000	0 to 1087.	0 15 1042
ACCURACY / LINEARLY & 25°C	±0.	5% OF FULL SC	A!.E *
POWER FACTOR PANGE	17:17Y	10 1.2.10 (3. 1A	<u>0 2550</u>
TEMPERATURE RANGE		-20°C to +50"	<u>ç</u>
TEMPERATURE EFFECTS ON ACCURACY (MAX.)			
FREQUENCY RANCE	<u>50-628:2(*)</u>		
A.C. COMPONENT (PEAK)	$1002(^{2})$		<12
RESPONSE TIME TO 992 OF FINAL VALUE	<140	<200MS	<200MS
VOLTAGE MANGE	<b>0−135</b> ¥	35-135	C-135V
POTENTIAL		150 VOLTS	
INFUT OVERLOAD LIMITS CURRENT		110005 25CS	FCR 1 SEC.
VOLTAGE SUBJES MAXIMUM PER ELEMENT	274	4VA	27A
CURNENT SUBDEN		<u>2VA</u>	
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	NCNE	65-135 62%± 23
CALIFRATICS ADJUSTMENT		±102(3)	
ZERO ADJUSIMONT	NCN2	• ? *	:22
DIELECTRIC TEST-INPUT TO OUTPUT TO GROUND	T TO GROUND 1500V RMS		

(1) AVAILABLE AT 25Hz, 400Hz AND HIGHER FUEQUENCY PANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1101 CALIBRATION ADJUSTMENT AVAILABLE

**FRANS** ATA

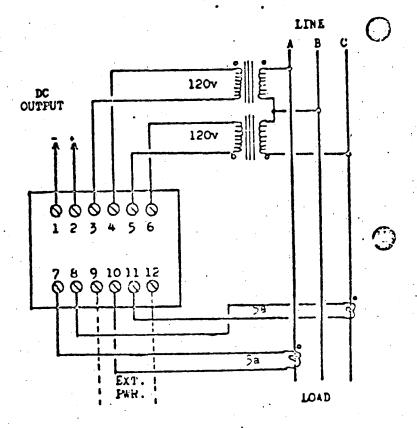


20WS100		3 1/4
20WS101	••••	4
20WS101 E		4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

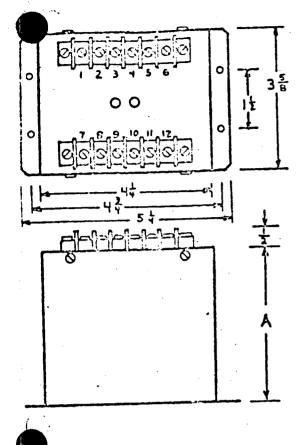
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

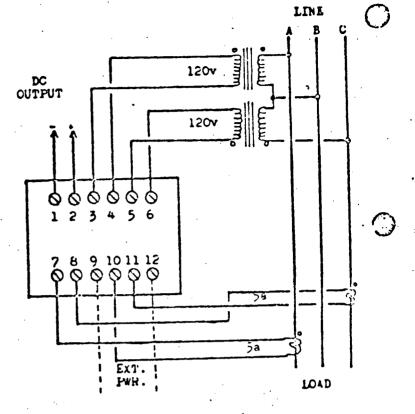


20WS100		
20WS101		4
2045101	Ε	4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

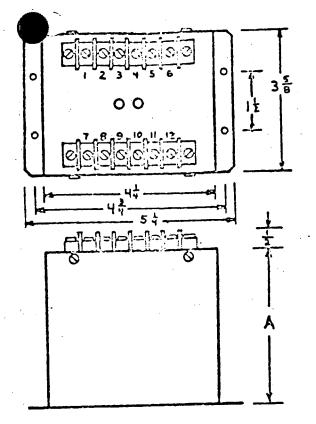
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

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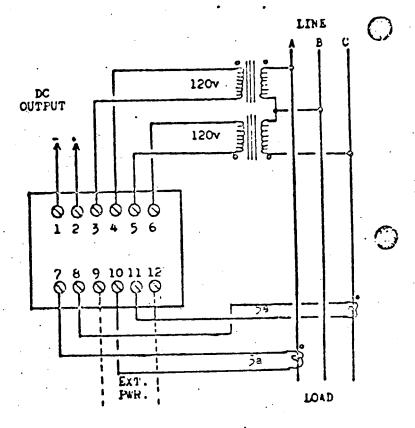


20WS100	• • • • • • • • •	3 1/4
20WS101		4
20WS101 E		4

#### Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

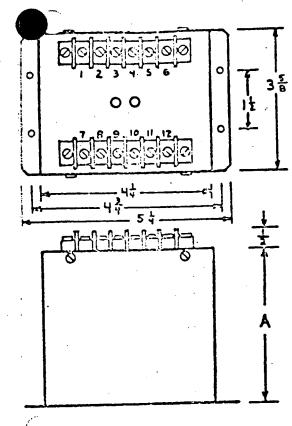
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

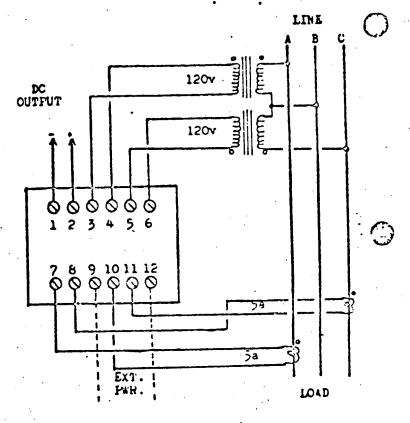


20WS100		
20WS101		4
20WS101	Ε	4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

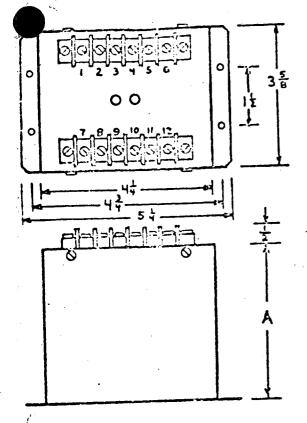
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

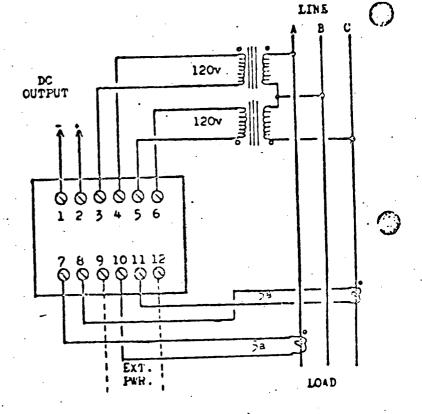


20WS100		3 1/4
20WS101		4
20WS101	Ε	4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

Terminal screws are 8-32 binding head.



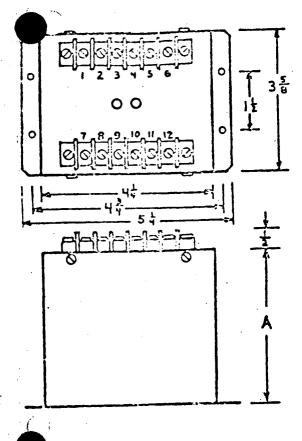
Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20%S101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erronacus readings.

Grounding considerations may dictate connecting the primary opposite from the way shown. This is permissible if the secondary is also reversed, maintaining the same relative polarity.

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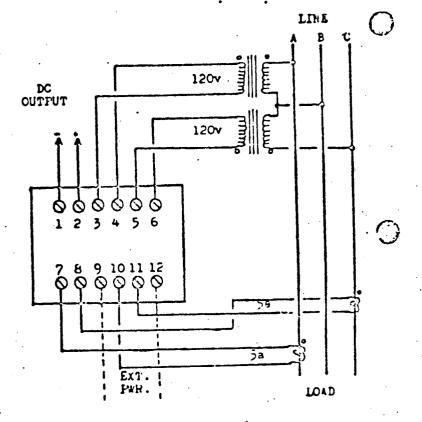


20WS100		 3 1/4
2045101		 4
20WS101	E	 4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

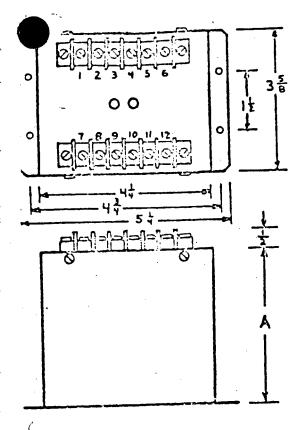
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

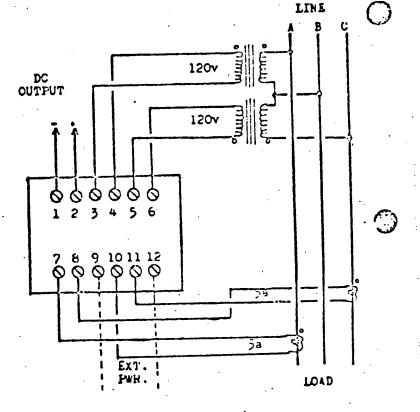


20WS100		 3 1/4
20WS101		 4
20WS101	Ε	 4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

Terminal screws are 8-32 binding head.

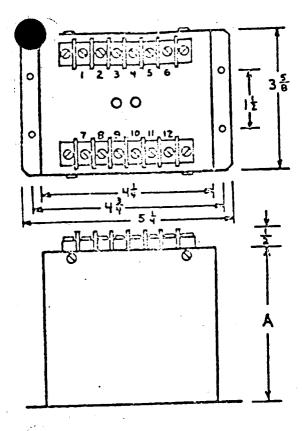


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Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

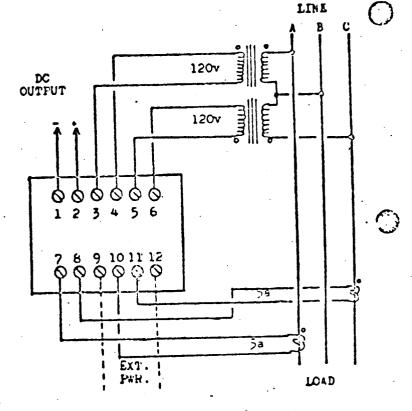


2005100		•••••	
2025101			
20WS101	E.		4 -

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

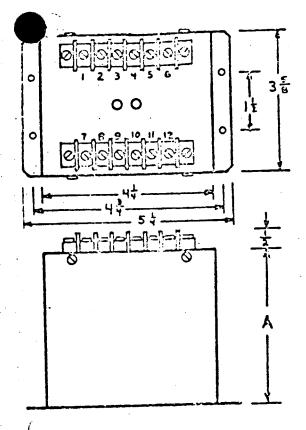
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erreneous readings.

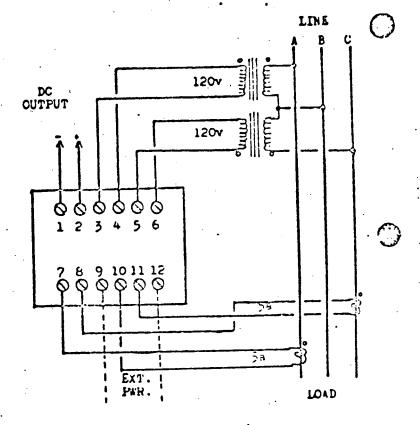


20WS100	• • • • • • • • • •	3 1/4
20WS101	• • • • • • • • • •	4
20WS101 E		4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

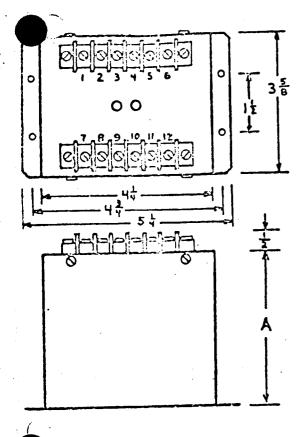
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

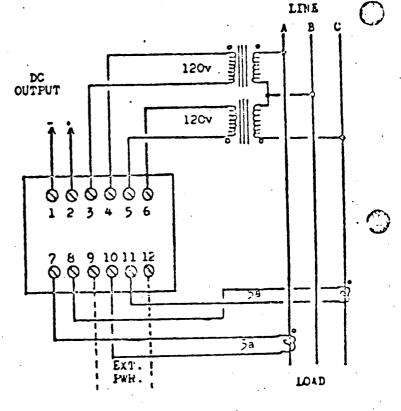


20-15100		• • • • • • • • • •	3 1/4
20WS101			4
20WS101	E		4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

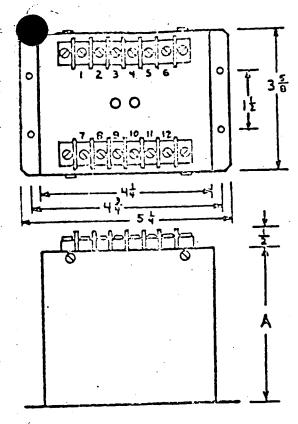
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

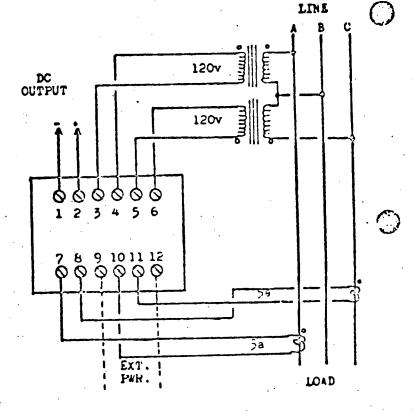


20WS100		
2075101		4
20WS101	Ε	4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

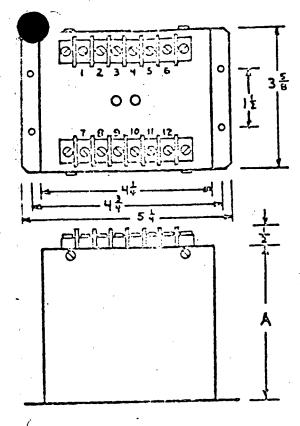
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20%S101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

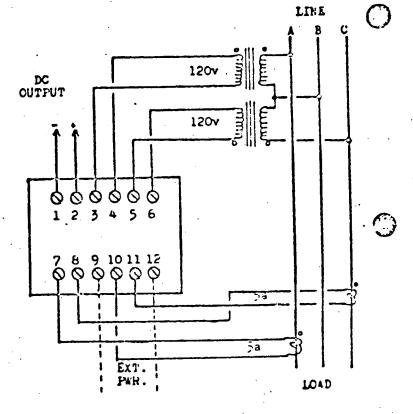


20WS100		3 1/4
20%5101	• • • • • • • • • •	
20WS101 E	<b> </b>	4

Mounting holes (4)., 3/16 Dia.

Can is steel with integral mounting flanges.

Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.



CEOI-HMA

50-1

# VAR TRANSDUCERS

## DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 2085100 series is comprised of two element Hall Effect VAR transducers. there are three basic models in the series, with options of filtered outputs and 0 to 110% calibration accustments, thereby offering a complete line of transducers for utility and industrial applications.

Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a ful! scale output of 1mA, operable into a verying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower thur the stated value for balanced three phase. operation.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current and power factor. For current output models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Lagging Reactive Power
- . Calibrated Output

MODEL NUMBERS	20RS 100	20RS101	20RS 101E	
NOMINAL POTENTIAL INPUT		120 VOLTS		
NOMINAL CUSEENT INFUT		5 AMTS		
FULL SCALE CALIBRATING VARS		1000 VARS		
OUTPUT AT FULL SCALE (C.C.)	100MV	<u>184</u>	124	
OUTPUT LOAT REQUIRED	100.7	0 to 16K.	0 to 10Ki.	
ACCUPACY/LINEARITY > 25°C	:0	.5% OF FULL ST	AI.E	
POWER FACTOR FANGE	UNITY	TO LEAS OF LA		
TEMPEFATURE RANGE	-20°C to +60°C			
TEMPERATURE EFFECTS OF ACCURACY (MAX.)	= 1.2			
FREQUENCY RANGE		<u> 60iiz()</u>		
ALC. COMPONENT (PEAR)	100%(*)	<u> </u>	< 12	
RESPONSE TIME TO 49% OF FINAL VALUE	<1MS	<200MS	<20085	
VOLTAGE RANGE	0-1351	<u>i 85-105V</u>	<u>T 0-135V</u>	
INPUT OVERLOAD LIMITS - POTENTIAL		150 VOLTS		
CLAREN.	and the second s	TINUOUS, 250A		
VOLTAGE DUEDEN MAXIMUM PER ELEMENT	<u>2VA</u>	<u> </u>	<u>2VA</u>	
CURRENT ANADES		<u> </u>		
EXTERNAL AMPLIFIER FOWER REQUIRED	NONE	NONE	83-135V	
CALIBRATION ADJUSTIC		:10%(`)		
ZERO AL TUSIMENT	NONE	27.	±2%	
DIELECTRIC TEST-INPUT TO OUTPUT TO GROUND		1500V BMS		
PACKAGING AND CONSECTIONS	PLACEADS ON PEREZEE SIDE			

#### (1) AVAILABLE AT 25Hz, SOHz, 400Hz AND RIGHER FREQUENCY FANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

ANS DATA III.

8510 PROPRIETORS ROAD . COLUMPUS ONIO 42085 . (814) 885 8891

### SPECIFICATIONS

20 RS 100 SERIES

3 PHASE, 3 WIRE

# VAR TRANSDUCERS

DESCRIPTION

SPECIFICATIONS

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, nigh reliability and applicational flexibility.

The 20R5100 series is comprised of two element Hall Effect VAR transducers. there are three basic models in the series, with options of filtered outputs and 0 to 110% calibration unsustments, thereby offering a complete line of transducers for utility and industrial applications.

Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a ful! scale output of ImA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This. a.c. component is considerably lower that the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.5% includes influences of variations in volt age, current and power factor. For current output models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Lagging Reactive
- Power
- . Calibrated Output

MODEL NUMBERS		20R5100	20RS101	2085101E
NOMINAL POTENTIAL INPUT			120 VOLTS	
NOMINAL CUERFNT INPUT	· · · · ·	5 AMPS		
FULL SCALE CALIBRATING VARS			1000 VA5S	
OUTPUT AT FULL SCALE (d.c.)		10047	<u>i MA</u>	1.MA
OUTPUT LOAD REQUEFED		1092	6 to 108.	0 to 1081
AUCURACY/LINEARITY 25°C		:0	.5% OF FULL SC.	ALE
POWER FACTOR FANGE		UNITY	TO LEASE OF LAS	G_ZERO
TEMPERATURE RANGE		-20°C to +60°C		
TEMPERATURE EFFECTS ON ACCURACY	( <u>MAX.</u> )	±17		
FREQUENCY RANGE		60!!z(`)		
A.C. COMPONENT (PEAE)		100%(*)	<14	< 17.
RESPONSE TIME TO 95% OF FINAL V	ALUE	< 145	<2004/5	<20045
VOLTAGE RANGE		0-1351	56-135V	0-135V
1) DUT OVESTOND 119776	TENTIAL		150 VOLTS	
	RRENT	10A CON	TINCOUS, 250A	FOR 1 SEC.
	PER ELEMENT	2VA	<u> </u>	<u> </u>
CURRENT BUEDEN				
EXTERNAL AMPLIFIER POWER REQUIR	FD	NONE	NONE	85-1350
CALTBRATION AD PUS IMENT			<u></u>	. المانية المانية .
ZERO ADTUSTMENT		NGRE	-1	1 :27
DIELECTRIC TEST-ISPET TO OUTPUT	TO GROUND		1500V 848	• • ······· ··· ···
PACKAGING AND CONCRECTIONS		DIAG	RAMS ON FRUEPSI	E SLOP

(1) AVAILABLE AT 20Hz, SOHz, 400Hz AND HIGHER FREQUENCY MANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

RANS DATA Inr.

BEIG PROPRIEMORS ROAD . COLUMBUS OHIO 48005 . (814) 905-9591

3 PHASE, 3 WIRE

SERIES

20 RS 1.00

# VAR TRANSDUCERS

## DESCRIPTION

SPECIFICATIONS

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20RS140 series is comprised of two element Hall Effect VAR transducers. there are three basic models in the series, with options of filtered outputs and 0 to 1102 calibration moustments, thereby offering a complete line of transducers for utility and industrial a plications.

Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.5% includes influences of variations in volt age, current and power factor. For current output models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than tOHz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Lagging Reactive Power
- . Calibrated Output

MODEL NUMBERS	20RS 100	20RS101	2085101E	
NOMINAL POTENTIAL INPUT	120 VOLTS			
NOMINAL CURRENT INPUT		5 AMPS		
FULL SCALE CALIBRATING VARS		1000 VARS		
OUTPUT AT FUEL SCALE (C.C.)	10047	184	- IMA	
OUTPUT LUAD REQUIRED	1005.	0 to 168	0 to 10Ki.	
ACCURACY/LINEARITY : 25°C	:0	.5% OF FILL SC	ALE	
POWER FACTOR FANGE	UNITY	TO LEAP OR LA	G 2280	
TEMPERATURE RANGE	-20°C to +60°C			
TEMPERATURE EFFECTS ON ACCURACY (MAX.)	:1%			
FREQUENCY FANGE		50Hz(1)		
A.C. CONFONENT (PEAR)	1007(2)	<1%	<13	
RESPONSE TIME TO 99% OF FINAL VALUE	<1MS	<200MS	<_064S	
VOLTAGE RANGE	0-135V	85-135V	0-1.5V	
INPUT OVERLOAD LIMITS - POTENTIAL		150 VOLTS		
CURRES.	10A CON	TINUO S. 2504	FER 1 SEC.	
VOLTAGE BURDEN MANIMUM PER ELEMENT	2VA	<u> </u>	2VA	
CURRENT BURGEN		<u> </u>		
ENTERNAL AMPLIFIER FOWER REQUIRED	NONE	NONE	85-135V 00Ez 26	
CALIERATION ADJUSTMENT		:107(-)		
ZERO AFILISTMENT	NONE	22	:27	
DIELECTRIC TEST-INPUT TO OUTFUT TO GROUND		1500V RMS		
PACKAGING AND CONNECTIONS		KAMS ON PEVERS	E SIDE	

(1) AVAILABLE AT 25Hz, 50Hz, 400Hz AND HIGHER FREQUENCY KANCES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJESTMENT AVAILABLE

RANS DATA III.

6510 PROPRIETORS ROAD . COLUMBUS, OHIO 42095 . (614) 685-9591

# VAR TRANSDUCERS

## DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, walibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20RS100 series is comprised of two element Hall Effect VAR transducers. there are three basic models in the series, with options of filtered outputs and 0 to 1102 calibration actustments, thereby offering a complete line of transducers for utility and industrial applications. Model 20RS100 has a full scale cutput of 100 mV. The 20RS101 and 20RS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.57 includes influences of variations in volt age, current and power factor. For current output models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than ECHz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- Measures Leading and Lagging Reactive Power
- . Calibrated Output

MODEL NUMBERS		20RS 100	20R5101	20RS101E
NOMINAL POTENTIAL INFUT			120 VOLTS	
NCMINAL CURRENT LUPUT			5 AMP'5	
FUEL SCALE CALIBRATING VARS			1000 VARS	
OUTPUT AT FULL SCALE (d.c.)		100MV	15A	IMA
OUTPUT LOAD REQUIRED		1005.	0 to 108.	U to JUKS.
ACCURACY/LINEARITY / 25°C		:0	57 OF FULL SC.	ALE
POWER FACTOR FANGE			TO LEAS OF LA	
TEMPERATURE RANGE		-20°C to +60°C		
TEMIERATURE EFFECTS ON ACCURACY	Y (MAX.)	<u>±1%</u>		
FREQUENCY RANCE			60iiz(1)	
A.C. COMPONENT (PEAK)		100%(*)	<17	<1%
RESPONSE TIME TO 99% OF FINAL	VALUE	< 145	<20055	<2005IS
VOLTAGE RANGE		0-135V	85-1350	0-135V
TERIT OVERIOID FINITE	OTENTIAL		150 101.75	
Li	TRRENT	10A CON	TAUOUS, 250A	FOR 1 SEC.
VOLTAGE EURDEN MAXIMUT	PER ELEMENT	<u>2VA</u>	1 45A	1 2VA
CUREENT BURDEN			<u>2VA</u>	
EXTERNAL AMPLIFIER POWER REQUIR	22D	NONE	NONE	85-135V 5097_2%
CALIBRATION ADJUSTMENT			:102(3)	
ZEED ADJUSTRENT		NONE	:22	: 22
DIELECTRIC TEST-INPUT TO OUTPUT	TO GROUND		1500V 8MS	
PACEAGING AND CONSECTIONS		DIAGE	AMS ON RECEIPTI	ESTUE

(1) AVAILABLE AT 25Hz, SOHz, 400Hz AND HIGHER FREQUENCY MANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

RANS . THE.

8510 PROPRINTORS ROAD + COLUMBUS, OHIO 40045 + (214) 885 9881

#### SPECIFICATIONS

# VAR TRANSDUCERS

## DESCRIPTION

**SPECIFICATIONS** 

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20KS100 series is comprised of two element Hall Effect VAR transducers, there are three basic models in the series, with options of filtered outputs and 0 to 1102 calibration antastments, thereby offering a complete line of transducers for utility and industrial a pications. Model 20RS100 has a full scale cutput of 100 mV. The 20RS101 and 20RS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.5% includes influences of variations in volt age, current and power factor. For current output models, variation of output lead impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Lagging Reactive Power
- . Calibrated Output

MODEL NUMBERS	20RS 100	20RS101	20R5101E
NOMINAL POTENTIAL INPUT	120 VOLTS		
NOMINAL CURRENT INFUT		5 AMPS	
FULL SCALE CALIBRATING VARS		1000 VARS	
OUTPUT AT FULL SCALE (d.c.)	100MV	194	1 <u>MA</u>
OUTPUT LOAD FROM THED	1005	1 0 to 10K.	O to 10Ki
ACCURACY/LINEARITY # 25°C	:0	5% OF FULL SD.	ALE
POWER FACTOR FANGE	UNITY	TO LEAD OR LA	G ZEKO
TEMPERATURE RANCE	-20°C to +60°C		
TEMPERATURE EFFECTS ON ACCURACY (MAN.)	:1:		
FFFOUENCY FASGE		<u>501iz(1)</u>	
A.C. COMPONENT (PEAK)	1007(2)	<12	<12
RESPONSE TIME TO 99% OF FINAL VALUE	<145	<200MS	120095
VOLTAGE RANGE	0-1350	85-135V	(-1,5V
INPUT OVERLOAD LIMITS POTENTIAL		150 VOLTS	
CURREN:		FINCOUS, 250A	FER 1 SEC.
VOLTAGE SURDEN MAXIMUM PER ELEMENT	2VA	-: <u>^</u>	2VA
CURRENT BURDEN	217		
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	GONE	
CALLBRATION ADJUSTMENT		:102()	. L <u>Unité, al</u> t .
ZERO ACTUSTIENT	NONE	• 27	:22
DIELECTRIC TEST-ISPUT TO OUTPUT TO GROUND		1500V 898	
PACKAGING AND CONNECTIONS	DIAGRAMS ON REVERSE SIDE		

(1) AVAILABLE AT 25Hz, SOHz, 400Hz AND RIGHER FREQUENCY FANCES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

RANSDATA Inc.

8510 PROPRIFIORS ROAD + COLUMBUS OFIC ACORS + (014) 885/9881

# VAR TRANSDUCERS

## DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-. Data transducers are also noted for their scall physical size, nigh reliability and applicational flexibility.

The 20KS100 series is comprised of two element Hall Effect VAR transducers. there are three basic models in the series, with options of filtered outputs and 0 to 1102 calibration adjustments, thereby offering a complete line of transducers for utility and industrial applications.

## **SPECIFICATIONS**

Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a ful! scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.5% includes influences of variations in volt age, current and power factor. For current output models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Lagging Practive Power
- . Calibrated Output

MODEL NUMBERS	20RS 100	20RS101	20RS101E	
NOMINAL POTENTIAL INPUT	120 VOLTS			
NOMINAL CUBRENT INFUT		5 AMES		
FULL SCALE CALIBRATING VARS		1000 VAES		
OUTPUT AT FULL SCALE (d.c.)	100MV	1227	1.197	
OUTPUT LOAD REQUIPED	1005	0 to 10F.	0 to 10Ki.	
ACCURALY/LINEARITY / 25°C	:0.	5% OF FULL St.	ALE	
POWER FACTOR FANGE	UNITY	TO LEASE OR LAS	T ZEKO	
TEMPERATURE RANGE	-20°C to +60 C			
TEMPERATURE EFFECTS ON ACCURACY (MAX.)	±1%			
FREQUENCY RANGE		60liz ( 1)		
A.C. COMPENENT (PEAK)	100%(7)	<1:	<12	
RESPONSE TIME TO 99% OF FINAL VALUE	<1MS	<2005	<20095	
VOLTAGE RANGE	0-135V	85-1359	e 0-155V	
POTENTIAL POTENTIAL		150 VOLTS		
INPUT OVERLOAD LIMITS	10A CONT	INCOUS, 250A	FOR 1 SEC.	
VOLTAGE BURDEN MAXIMUM PER ELEMENT	2 V A	41.4		
CURRENT BURDEN		<u>25'A</u>		
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	NONE	85-135V 608-25	
CALLEBATION ABJUS MENT		:102(3)		
ZEPO ADRISTMENT	NONE		:23	
DIFLECTED TEST-INPUT TO OUTPUT TO GROUND		1500V DMS		
PACYAGING AND CONNECTIONS	DIAGE	AMS ON PENERS	E STEE	

(1) AVAILABLE AT 25Hz, SONZ, 400Hz AND HIGHER FREQUENCY RANGES

(2) FILTERED OUTPUT AVALIABLE

(3) 0-1107 CALIBRATION ADJUSTMENT AVAILABLE

ANS DATA. inc.

# VAR TRANSDUCERS

### DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20R5100 series is comprised of two element Hall Effect VAR transducers. there are three basic models in the series, with options of tiltered outputs and O to 110% calibration influstments, thereby offering a complete line of transducers for utility and industrial applications.

Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a full scale output of lmA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower than the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.5% includes influences of variations in volt age, current and power factor. For current output models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Logging Reactive Power
- . Calibrated Output

MODEL NUMBERS	20RS 100	20RS101	20R5101E	
NOMINAL POTENTIAL INPUT		120 VOLTS		
NCMINAL CURRENT INPUT		5 AMPS		
FULL SCALE CALLEBATING VARS		1000 VARS		
OUTPUT AT FUEL SCALE (d.c.)	100557	<u>1MA</u>	X	
OUTPUT LEAD FEQUIFED	1002	0 to 10Ki.	0 to LUKE	
ACCURACY/LINGARITY 125°C		.52 OF FULL SC		
POWER FACTOR FAMILE	UNITY TO LEAD OR LAG VERO			
TEMPERATURE RAVOE	-20°C to +60°C			
TEMPERATURE EFFECTS ON ACCURACY (MAX.)	<u>+1%</u>			
FFEQUENCY FAMILY		<u>60';z(·)</u>		
A.C. COMPONENT (FFAR)	100%(*)	<1.;	<u> </u>	
RESPONSE TIME TO 99% OF FINAL VALUE	<u> </u>	<2001*S	<200MS	
VOLTAGE BANGE	<u>0-135V</u>	1.85-135V	0-135V	
POTENTIAL		154 VOLTS		
INPUT OVERLOAD LIMITS CURRENT		TURIOUS, 250A		
VOLTAGE EURDEN MAXIMUM PER ELEMENT	2.VA	<u> </u>	<u></u>	
CUPRENT BURDEN		<u></u>	TT 85-135V	
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	NONE	60-130A 604-	
CALLERATION ADDIVISIONENT		+107(3)		
ZERO ADJUSTRENT	NOUE	. :22		
DIFLECTRIC TEST-IMPUT TO OUTPUT TO GROUND		INDEV RMS		
PACKAGING AND CONSECTIONS	DIAGE MO ON PEREPSE SIDE			

(1) AVAILASTE AT 25Hz, SCHz, 40GHz AND HIGHER FREQUENCY FANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

ANS DATA . inc.

8510 PROPRIETORS ROAD . COLUMBUS OFIO 40085 . (8)4) 885-8891

## **SPECIFICATIONS**

20 RS 100 SERIES

3 PHASE, 3 WIRE

# VAR TRANSDUCERS

## DESCRIPTION

**SPECIFICATIONS** 

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, nigh reliability and applicational flexibility.

The 2GRB1c0 series is comprised of two element Hall Effect VAR transducers. there are three basic models in the series, with options of filtered outputs and 0 to 1102 calibration infustments, thereby offering a complete line of transducers for utility and industrial a plications.

# Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.5% includes influences of variations in volt age, current and power factor. For current output models, variation of cutput load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements .
- . Measures Leading and Lagging Reactive
- Power
- . Calibrated Output

MODEL NUMBERS	20RS 100	20RS101	20RS101E
NOMINAL POTENTIAL INPUT		120 VOLTS	
NOMINAL CURRENT INPUT		5 AMPS	
FUEL SCALE CALIEBALING VARS		1000 VARS	
OUTPUT AT FULL SCALE (d.c.)	100:0	192	1 <u>MA</u>
OUTPUT LOAD REQUIPED	1067	0 to 108.2	0 to 10Ki.
ACCURACY/LINEAPITY / 25°C	:0	.57 OF FULL SC.	AT E
POLED FACTOR FAMOR	UNITY	TO LEASE OF LA	G_20.RO
TEMPERATURE RANGE		-20°C to +6'1'	<u> </u>
TEMP DEATURE EFFECTS ON ACCURACY (MAX.)	:12		
FREQUENCY FANCE	6CHz(1)		
A.C. (CHEONENT (PEAK) ?		<12	<u> </u>
RESPONSE TIME TO 49% OF FINAL VALUE	<143	<200MS	<200MS
VOLTACE RANGE	J-135V	85-135V	0-1557
POTENTIAL POTENTIAL		<u>150 VOLIS</u>	
INPUT OVERLOAD LIMITS CURRENT		TINCOLS, 250A	
VOLTAGE SUBDES MAXIMUM PER ELEMENT	<u>2VA</u>	<u> </u>	<u> </u>
CURRENT BURDEN		<u>284</u>	
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	NONE	55-1350
CALLERATION ADJUSTMENT		:10%(3)	
ZEFO ADTUSTIENT	NONE	:27	1 :27
DIFLUCTERC TEST-INPUT TO OUTFUT TO GROUND		1500V RMS	
PACEAGING NGD CONSECTIONS	DIAGRAMS ON PERSPISE STUE		

(1) AVAILABLE AT 25Hz, 10Hz, 200Hz AND BIGHDE FREQUENCY KANGES

(2) FILTERED CUTPUT AVAILABLE

(3) 0-1101 CAFESKATION ADJUSTMENT AVAILABLE

JATTA INC. NTS

6510 PROPRIETORS ROAD . COLUMNUS CHIO 40085 . (814) 385-8561

# VAR TRANSDUCERS

## DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20R5100 series is comprised of two element Hall Effect VAR transducers. there are three basic models in the series, with options of filtered outputs and 0 to 110% calibration accustments, thereby offering a complete line of transducers for utility and industrial applications.

Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a ful! scale output of ImA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase. operation.

Accuracy/linearity specification of ±0.57 includes influences of variations in volt age, current and power factor. For current output models, variation of output load inpedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than toHz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Lagging Reactive Power
- . Calibrated Output

MODEL NLYB	ERS	20RS 100	20RS101	20RS1011
NOMINAL POTENTIAL INPUT	· · · · · · · · · · · · · · · · · · ·		120 VOLTS	
NOMINAL CURRENT INPUT			5 AMPS	
FULL SCALE CALIBRATING VAR	<u>S</u>		1000 VAFS	
OUTPUT AT FULL SCALE (d.c.	)	100MV	PA -	1 IMA
OUTPUT LOAD PEQUIFED	······································	1005	9 to 105.	0 to 10Ki
ACCURACY/MINEARITY 1 25°C		:0	.5% OF FULL SC.	ALE
FOWER FACTOR FANCE		UC:ITY	TO LEAD OR LA	G ZERO
TEMPERATURE RANGE		-20°C to +th°C		c
TEMPERATURE EFFECTS ON ACC	(RACY (MAX.)	:13		
FREQUENCY LANCE			<u>601:2 (1)</u>	
A.C. COMPONENT (PEAK)		100%(?)	415	<u> </u>
RESPONSE TIME TO 59% OF FI	NAL VALUE	<145	<20.005	<1004S
VOLTACE RANGE	•	0-1358	35-145V	T 0-145V
INPUT OVERLOAD LIMITS	POTENTIAL		150 VOLIS	
	CURRENT	10A CON	FISLOUS, 250A	FOR 1 SEC.
VOLTAGE BURDEN MA	XIMUM PER ELEMENT	2VA	<u> </u>	<u> </u>
CURRENT BURDEN	· · · · · · · · · · · · · · · · · · ·		<u> </u>	
ENTERNAL AMPLIFIER POWER R	EQUÍRED	NOSE	SONE	5-135V 6682-29
CALTBRATICS ABJESTMENT			103(3)	. <u></u>
ZERO ADTOSTSTRAT		NONE	-22	• 2.
DIELECTRIC TEST-INPUT TO OF	TEUT TO GEOLND		15.00V 8MS	
PÁCKAGÍNG AND COMPECTIONS		DIAGEASS (N. PEVERSE SIDE		

(1) AVAILABLE AT 25Hz, 50Hz, 400Hz AND HIGHER FREQUENCY MANGES

(2) FILTERED OUTPUT AVAILABLE

(3) G-1102 CALIBRATION ADJUSTMENT AVAILABLE

RANS DATA in.

6510 PROPRIETORS ROAD . COLUMBUS OHIO 43065 . (614) 685-9891

## SPECIFICATIONS

20 RS 100 SERIES

3 PHASE, 3 WIRE

# VAR TRANSDUCERS

## DESCRIPTION

**SPECIFICATIONS** 

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, nigh reliability and applicational flexibility.

The 20RS100 series is comprised of two element Hall Effect VAR transducers. there are three basic models in the series, with options of filtered outputs and 0 to 1102 calibration addustments, thereby offering a complete line of transducers for utility and industrial applications. Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a full scale output of 1mA, operable into a varying loop or load. resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.57 includes influences of variations in volt age, current and power factor. For current output models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures leading and Lagging Reactive Power
- . Calibrated Output

MOUEL NUMBERS	20R5100	20RS101	20RS101E	
NOMINAL FOTENTIAL INPUT		120 VOLTS		
NOMINAL CURRENT INPUT		5 AMPS		
FULL SCALE CALLERATING VARS		1000 VARS		
OUTPUT AT FULL SCALE (C.C.)	100MV	184	141	
OUTPUT LOAD REQUIRED	1002	0 to 166.	O to IUKa	
ACCURACY/LINEARITY 25°C	:0	.5% OF YOLD SO	ALE	
POULE FACTOR RANGE	UNITY	TO LEASE OR LAS	S DEKO	
TEMPERATURE RANGE		-20°C to +67°C		
TEMPERATURE EFFECTS ON ACCURACY (MAX.)	:12			
FREQUENCY BANDE		<u>50iiz († )</u>		
A.C. COMPONENT (PEAS)	100%(2)	<12	<1	
RESPONSE TIME TO 99% OF FINAL VALUE	< 1.4S	<200MS	<20045	
VOLTAGE RANGE	0-1355	85-1457	0-1357	
TADET OVERLOAD LIMITE POTENTIAL		150 VOLTS		
INPUT OVERLOAD LIMITS CURRENT	10A CON	TERCOUS, 250A		
VOLTAGE BURDEN MAXIMUM PER ELEMENT	<u>2VA</u>	<u> </u>	21A	
CURRENT BUNDES		<u> </u>	•	
EXTERNAL AMPLIFTER FOWER REQUIRED	NONE	SONE	85-135V 6082 - 26	
CALTERATION ADJUSTMENT		•102(3)		
ZERO ADIUSTRENT	NONE	-22	:27	
DIELECTRIC TEST-DEPUT TO OFFICE TO GROUND		1500V RMS		
PACEAGING AND CONNECTIONS	DIAC	FAMS ON PEVERS	ESIDE	

(1) AVAILABLE AT 25Hz, SOHz, 409Hz AND HIGHER FREQUENCY FANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

FAITSDAT 1110.

USIO PROPRIETORS ROAD + COLUMPATING ORDO 48085 + (814) 946-8881



# VAR TRANSDUCERS

## DESCRIPTION

SPECIFICATIONS

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their szall physical size, high reliability and applicational flexibility.

The 20K5100 series is comprised of two element Hall Effect VAS transducers. there are three basic models in the series, with options of filtered outputs and 0 to 110% calibration advastments, thereby offering a complete line of transducers for utility and industrial applications.

#### Model 20RS100 has a full scale output of 190 mV. The 20RS101 and 20RS101E have a full scale output of ImA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase. operation.

Accuracy/linearity specification of ±0.57 includes influences of variations in volt age, current and power factor. For current output models, variation of cutput load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than bUHz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Lagging Reactive Power
- . Calibrated Output

MODEL NUMBERS	20R5100	20RS101	20RS101E
NOMINAL POTENTIAL INPUT		120 VOLTS	
SCHINAL CUSEENE INPUT		5 APTS	
FUEL SCALE CALIBRATING VARS		1000 VAFS	
OFFET AT FULL SCALE (d.c.)	1 10CMV	185	IMA
OUTPUT LOAD REQUISED	1007:	0 to lor.	0 to 108a
ACCERACY/LINEARITY 7 25°C		5% OF FULL ST	
FORER FACTOR FANGE	120179	TO LEAS OF LA	J ZERO
TEMPERATURE RANGE		-20°C to +60°	<u>c</u>
TEMPERATURE EFFECTS ON ACCURACY (MAX.)		<u> </u>	
FEIFCEENCY FALSUE		60iiz(1)	
A.C. COMPONENT (PEAK)	100%(7)	<12	<12
RESPONSE TIME TO 59% OF FINAL VALUE	< 1HS	<200MS	C200MS
VOLTAGE BASGE	0-1351	1 85-1355	0-:357
POTENTIAL		150 VOLTS	
INPUT OVERLOAD LIMITSCUBRENT	and the second se	TINUG S, 200A	
VOLTAGE EURIEN MAXIMUM FER ELEMENT	2VA	<u> </u>	
CURRENT EURDEN		<u>2va</u>	TT 85-135V
EXTERNAL AMPLIFIER FOWER REQUIRED	NONE	DONE	LCHI IN
CALLBRATTER ANTES MENT		:163131	
ZERO ADJESTMENT	NO!'E	-27	• 2 *
DIFLECTRIC TEST-ISPUT TO ON IFUT TO GROUND		1506V 8:45	
PACKACING AND COMPLETIONS	DIAGRAMS OF EXCEPSE SIDE		

(1) AVAILABLE AT 25Hz, 10Ez, 400Hz AND HIGHER FREQUENCY RANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIERATION ALJUSTMENT AVAILABLE

ANS DATA . inc.

6510 PROPRIEDORS ROAD + COLUMBUS CHIO 42085 + (6)4) 885-9891

20 RS 100 SERIES

3 PHASE, 3 WIRE

DESCRIPTION

applicational flexibility.

industrial applications.

SPECIFICATIONS

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models

are available with such features as voltage

or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-

Data transducers are also noted for their

small physical size, high reliability and

The 208510G series is comprised of two element Hall Effect VAR transducers. there are

three basic models in the series, with op-

tions of filtered outputs and 0 to 1102

calibration actuations, thereby offering a complete line of transducers for utility and

# VAR TRANSDUCERS

Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.5% includes influences of variations in volt age, current and power factor. For current output models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Lagging Reactive Power
- . Calibrated Output

MODEL NUYBERS	20R5100	20R5101	2085101E
NOMINAL POTENTIAL INPUT		120 VOLTS	
NOMINAL CURRENT INPLI		S AMPS	
FULL SCALE CALIBRATING VARS		1000 VARS	
OUTPUT AT FULL SCALE (d.c.)	100MV	<u>1MA</u>	1.44
OUTPUT LUAT REQUISED	1000	0 te 10k.	0 to 10%.
ACCURACY/LINEARITY = 25°C	:0	.57 OF FULL SC	ALE
POWER FACTOR FANGE	UNITY	TO LEAS OF LA	G ZERO
TEMPERATURE RANGE	-20°C to +60°C		<u> </u>
TEMPERATURE REFECTS ON ACCURACY (MAX.)		:13	
FREQUENCY EMOLE		00iiz())	
A.C. COMPONENT (PEAC)	100%(*)	<1%	< ] 🕻
RESPONSE TIME TO 904 OF FINAL VALUE	<1MS	<200MS	<200MS
VOLTAGE RANGE	0-1355	50-115V	0-135V
POTENTIAL 20TENTIAL	1	150 VOLTS	
INPUT OVERLOAD LIMITS CURRENT	10A CON	TERUNUS, 250A	TER 1 SEC.
VOLTAGE BUFDEN MAXIMUM PER ELEMENT	2VA	1	<u> 2VA</u>
CURRENT BURLEN		275	
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	NONE	85 - D5V 9032 - 28
CALIBRATION ADDISINGNT		· 102(- <sup>3</sup> )	. 1. 00
ZERO ADTUSTMENT	NONE	22	. ? ?
DIELECIKIC TEST-ISPET TO OUTPUT TO GROUND		1500V 8MS	
PACEAGING AND CONTROLIONS	DIAGEARS ON RECEFSE SIDE		

(1) AVAILABLE AT 25Hz, SOHz, 400Hz AND HIGHER FREQUENCY FANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

ANS ATA Mr.

OBIO PROPERTIONES ROAD . COLUMPUS OBIC 40005 . (814) 985-9891



# VAR TRANSDUCERS

## DESCRIPTION

**SPECIFICATIONS** 

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, nigh reliability and applicational flexibility.

The 20KS100 series is comprised of two element Hall Effect VAS transducers. there are three basic models in the series, with options of filtered outputs and 0 to 1102 calibration adjustments, thereby offering a complete line of transducers for utility and industrial applications. mV. The 20RS101 and 20RS101E have a ful! scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

Model 20RS100 has a full scale output of 100

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.57, includes influences of variations in voltage, current and power factor. For current output models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- Measures Leading and Lagging Feactive Power
- . Calibrated Output

MCDEL NUMBERS	2085 100	2038101	20RS101E
NOMINAL POTENTIAL INPUT		120 VOLTS	
NOMINAL CUERENT INFUT		5 AMES	
FULL SCALE CALIBBATING VARS		1000 VAES	
OUTPUT AT FULL SCALE (d.c.)	19CNV	1 MA	184
OUTPUT LOAD REQUIRED	1007	0 to 10%	0 to loki.
ACCURACY/LINEARITY 23°C	<u>:</u> Ú	151 OF F111 10	ALE
FORLS FACTOR FAMOR	CN114	70 LEA: 05 LA	G ZERO
TEMPERATURE RANGE	+20°0 ta +n0°C		<u>c</u>
TEMPERATURE EFFECTS ON ACCURACY (MAN.)			
FREQUENCY RANGE		50%z(1)	
A.C. COMPONENT (PEAK)	100% (54)	<13	-12
RESPONSE TIME TO 492 OF FINAL VALUE	C 145	<2008 S	<20645
VOLTAGE RANGE	Q=1.65%	85-1-54	0-1,57
FOTENTIAL		150 VOLTS	
INPUT OVERLOAD LIMITS - CUEPENT	10A CON	TINCERS, 2504	FGR 1 SEC.
VOLTAGE SURDEN MAXIMUM PER ELEMENT	284	144	
CURRENT BURDEN			
EXTERNAL AMPLIFIER FOWER REQUIRED	NONE	Service .	55-132V
CALIBRATION ADDISTIVENT		• • • • • • • • • • • • • • • • • • • •	
ZEAD ADRISTRENT	Nº YE	T	21
DIELECTRIC TEST-ESPECT TO DETRUT TO GROUD	T	150eV BMS	
PACEAUTNO AND CONSECTIONS	DIAGRAMS ON PRIESSE SIDE		

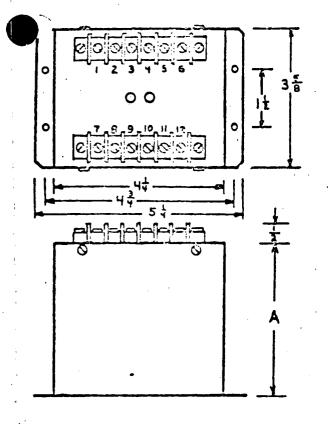
(1) AVAILABLE AT 2107 SOME, 400BE AND HIGHER PROQUENCY PARCES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIERATION AGJUSTMENT AVAILABLE

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65) O PROPRIERORS ROAD . COUMBUR ONLO 43045 . (814) 985 9881

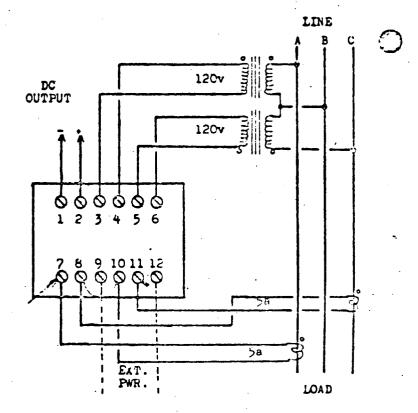


20RS100		3 1/4
20RS101		4
20RS101	Е	4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

Terminal screws are 8-32 binding head.



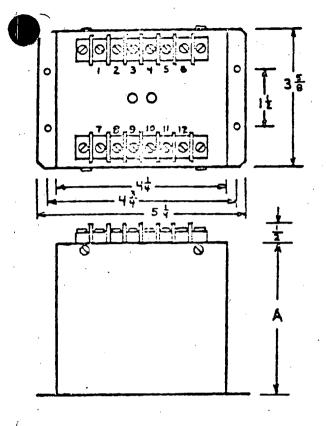
Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20RS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

The dots shown on the transformers are relative polarity markings and show the proper connection polarity. Instrument transformer terminals are marked with a dot, a ± symbol or other identifiable mark on both primary and secondary. Failure to observe the proper polarity may result in erroneous readings.

Grounding considerations may dictate connecting the primary opposite from the way shown. This is permissible if the secondary is also reversed, maintaining the same relative polarity

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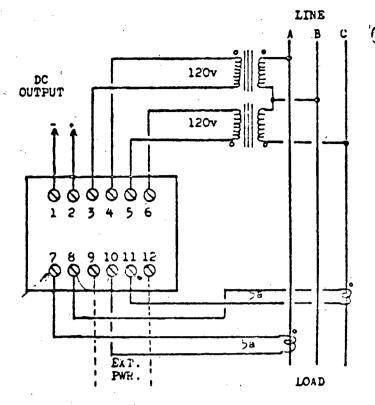


20RS100	 3 1/4
20R5101	 4
20RS101 E	 4

Mounting holes (4).. 3/16 Dia.

 Can is steel with integral mounting flanges.

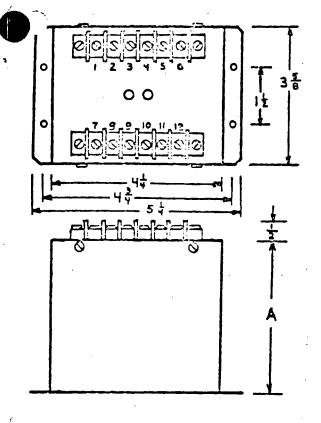
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

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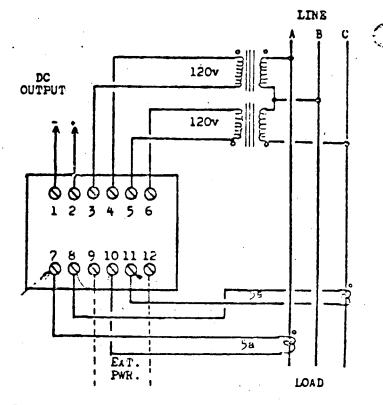


<b>20</b> RS100			3 1/4
<b>20</b> RS101		• • • • • • • • • • •	4
20RS101	Ε		4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

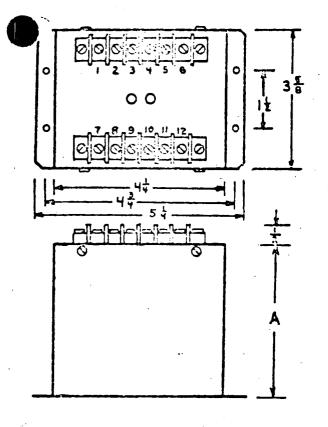
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

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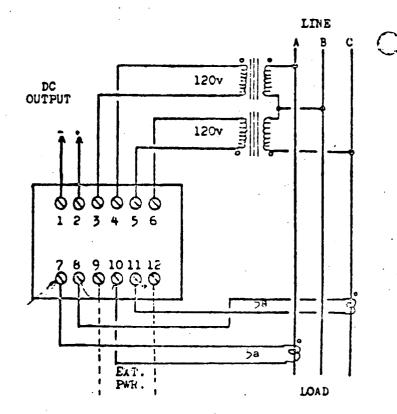


20RS100	• • • • • • • • • •	3 1/4
20RS101		4
20RS101 E		4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

Terminal screws are 8-32 binding head.

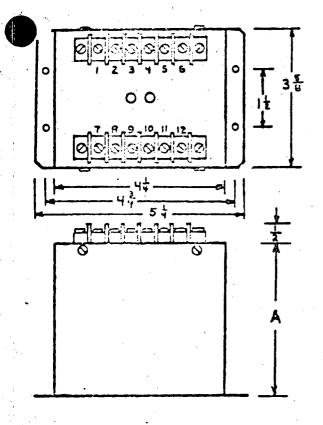


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Connection diagram to a three phase three wire line using current and potential trans-formers.

The external power for the amplifier for model 20RS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

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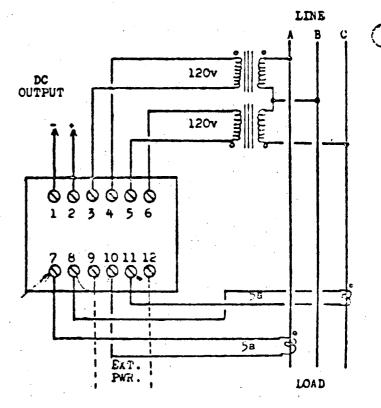


20RS100		3 1/4
20RS101		4
20RS101 E	· · · <b>· · · · · ·</b> · · ·	4

Hounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

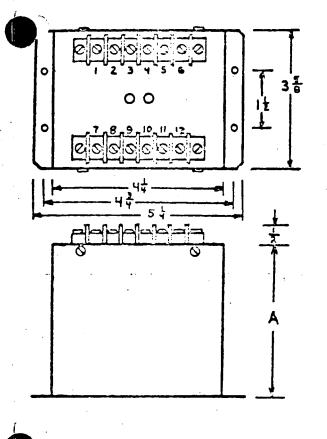
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

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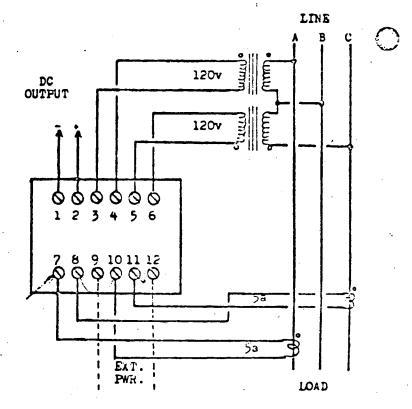


20RS100	· • · • • • • • • • •	3 1/4
20RS101		4
20RS101 E		4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

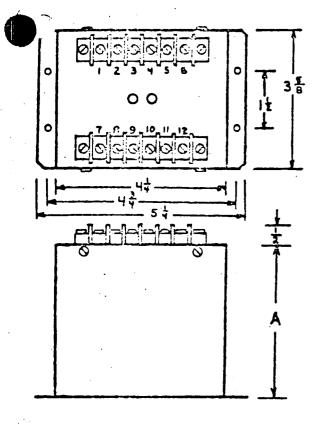
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

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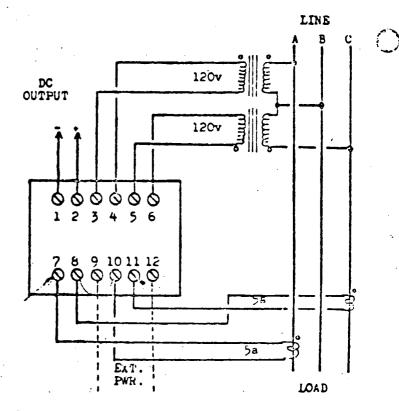


20RS100	· · · · · · · · · · · · ·	3 1/4
20RS101		4
20RS101 E		4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

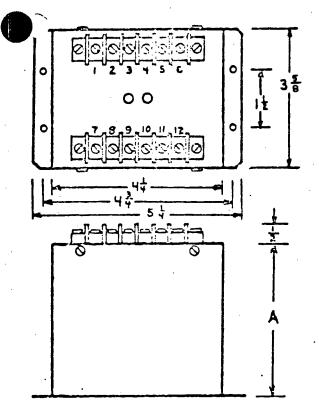
Terminal screws are 8-32 binding head.



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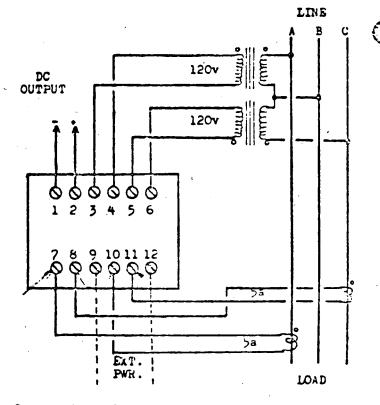


20RS100	 3 1/4
20PS101	 4
20RS101 E	 4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

Terminal screws are 8-32 binding head.

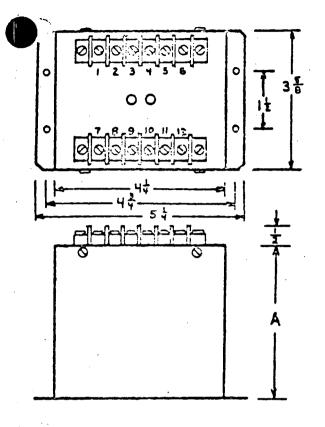


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Connection diagram to a three phase three wire line using current and potential trans-formers.

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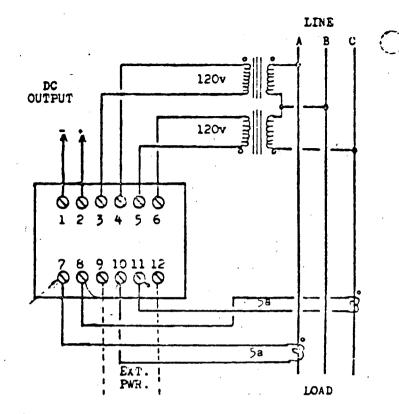


20RS100		3 .1/4
20RS 101		4
20RS101 E	· · · <b>· · · · · · ·</b>	4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

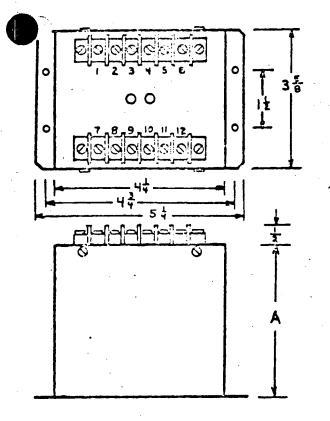
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential trans-formers.

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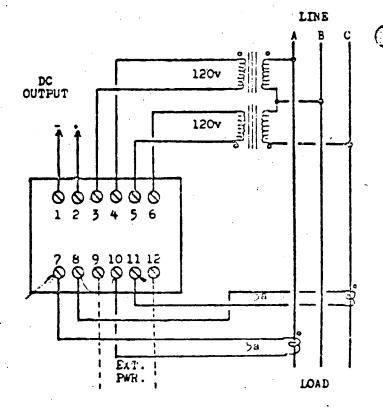


20RS100	· · · · · · · · · · ·	3 1/4
20RS 101		4
20RS101 B		4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

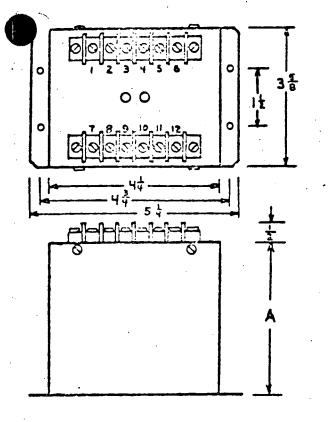
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

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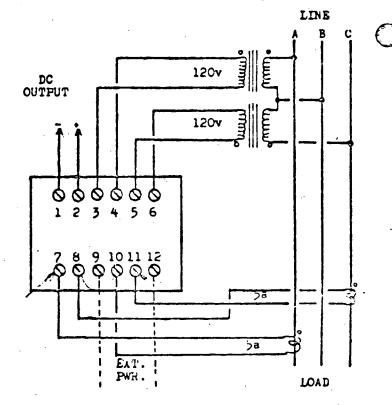


20RS100		• • • • • • • • • •	3 1/4
2025101			4
-20KS101	Ε		4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

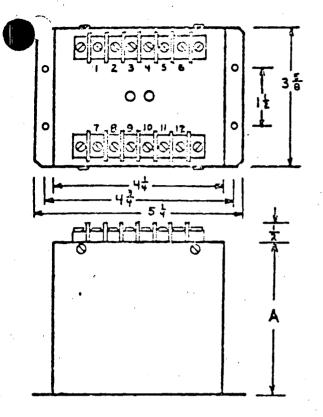
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

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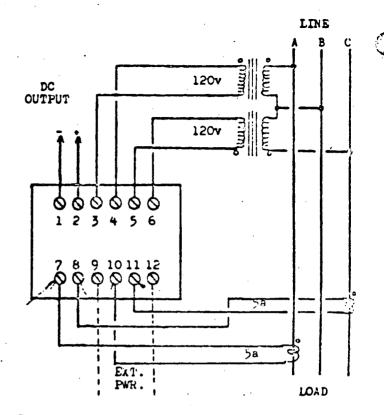


20RS100		• • • • • • • • • •	3 1/4
20R5101			4
20RS101 1	E		4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

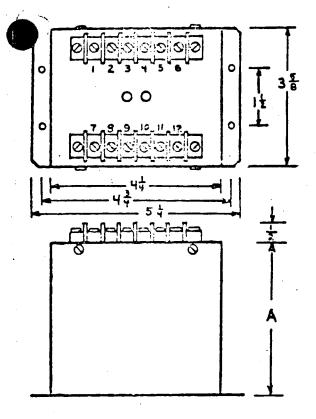
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

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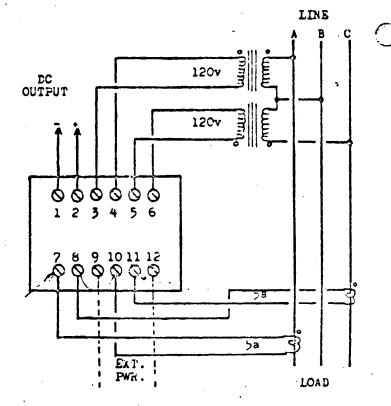


20RS100	 3 1/4
20RS101	 4
20RS101 E	 4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

Terminal screws are 8-32 binding head.

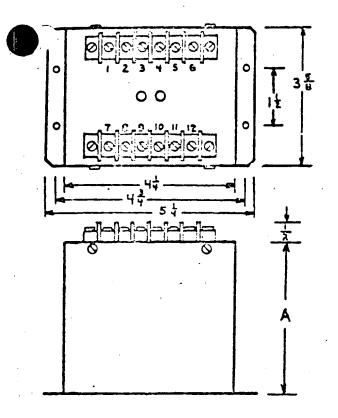


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Connection diagram to a three phase three wire line using current and potential trans-formers.

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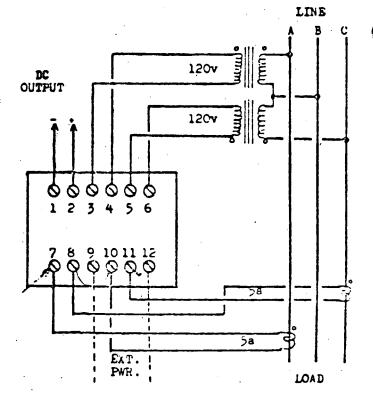


20RS100	• • • • • • • • • •	3 1/4
<b>20</b> RS 101	•••••	4
20RS101 E	• • • • • • • • • •	4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

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Grounding considerations may dictate connecting the primary opposite from the way shown. This is permissible if the secondary is also reversed, maintaining the same relative polarity

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## 20 RS 100 SERIES 3 PHASE, 3 WIRE - CEOI-HMA SO-1

# VAR TRANSDUCERS

## DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20RS100 series is comprised of two element Hall Effect VAR transducers, there are three basic models in the series, with options of filtered outputs and 0 to 1102 calibration of structures, thereby offering a complete line of transducers for utility and industrial a plications.

## SPECIFICATIONS

Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower than the stated value for balanced three phasoperation.

Accuracy/linearity specification of ±0.5% includes influences of variations in volt age, current and power factor. For current output models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

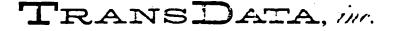
- . Designed for Utility Requirements
- Measures Loading and Lagging Reactive Power
- . Calibrated Output

MODEL NUMBERS	20RS 100	20RS101	20RS101E
NOMINAL POTENTIAL INPUT		120 VOLTS	
NOMINAL CUSEENT INPUT		5 AMPS	
FULL SCALE CALIBRATING VARS		1000 VARS	
OUTPUT AT FULL SCALE (d.c.)	10050	1 1MA	1MA
OUTPUT LOAD PEOLIPED	100.	0 to 108.2	0 to 10K.
ACCUEACY/LINEAPITY : 25°C	1 20	.5% OF FULL SC	
POWER FACTOR FAMILE		TO LEAD OF LA	
TEMPERATURE RANGE		-20°C to +00°	c
TEMPERATURE EFFECTS ON ACCURACY (MAX.)		:17	
FREGRENA V RANCE		50Hz(•)	
A.C. COMPONENT (PEAK)	100%(2)	<12	<12
PESPONSE TIME TO 992 OF FINAL VALUE	<1MS	<20045	1 720095
VULTAGE RANGE	0-135V	1 85-1357	0-13-
POTENTIAL POTENTIAL		150 COLTS	
INPUT OVERLOAD LIMITSCURRENT	10A CONT	TINUOLS, 250A	FOR I SEC.
VOLTAGE SURDEN MAXIMUM PER ELEMENT	274	4 \ A	T 2VA
CURRENT BURDEN		2''A	
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	NUNE	95-135V 1 00Hz 2W
CALTBEATION ADJUSTMENT		:107(1)	
ZEPO ADJUSTMENT	NONE	:27	-2%
DIELETRIC TEST-INPUT TO OLIPPIT TO GROUND		15COV RMS	
PACKAGING AND CONNECTIONS	DIAGE	AMS ON FEVERSE	STE

(1) AVAILABLE AT 25Hz, SOHz, 400Hz AND HIGHER FREQUENCY RANGES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE



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6510 PROPRIETORS ROAD . COLUMBUS OHIC 43085 . (614) 885 9891

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20 RS 100 SERIES



## 3 PHASE, 3 WIRE

# VAR TRANSDUCERS

## DESCRIPTION

**SPECIFICATIONS** 

TransData, Inc., offers a complete selection of Hall Effect VAR transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. Trans-Data transducers are also noted for their stall physical size, high reliability and applicational flexibility.

The 20RS100 series is comprised of two element Hall Lifect VAR transducers. there are three basic models in the series, with options of filtered outputs and 0 to 1102 calibration actistments, thereby offering a complete line of transducers for utility and industrial applications. Hendel 20RS100 has a full scale output of 100 s. The 20RS101 and 20RS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase operation.

Arcuracy/linearity specification of ±0.5/ includes influences of variations in volt age, current and power factor. For current optput models, variation of output load impedance is included.

Standard VAR transducers are calibrated for 50Hz. For applications other than NOHz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Lagging Reactive Power
- . Calibrated Output

MODEL NUMBERS	20RS 100	20RS101	20R5101E
NOMINAL POTENTIAL INPUT		120 VOLTS	
NOMINAL AUBRENT INPUT		5 AMPS	
FULL SCALE ALIBRATING VARS		1000 VARS	
OUTPUT AT FUEL SCALE (d.c.)	100MV	1 1MA	i MA
OUTFUT LUAD REQUIRED	1000	0 to 108.	0 to 10Ks
ACCURACY/LINEARITY 25°C	:0	.57 OF FULL SC	ALE
POWER FACTOR RANGE	UNITY	TO LEAD OR LA	C ZERO
TEMPERATURE RANGE		-20°C to +60°	<u>C</u>
TEMPERATURE EFFECTS ON ACCURACY (MAX.)		<u>+1</u> ;	
FREQUENCY BANGE		60hz(-)	
A.C. COMPANENT (PEAR)	1007(-)	<12	<u> &lt;1%</u>
RESPONSE TIME TO 99% OF FINAL VALUE	<1MS	<200MS	<200M5
VOLTAGE RANGE	0-135V	85-1350	0-135
POTENTIAL		155 VOLTS	
INPUT OVEFLOAD LIMITSCURRENT		TISTOUS, 250A	
VOLTAGE BURDEN MAXIMUN PER ELEMENT	27A	<u>- 'A</u>	2VA
CURRENT BURDEN		<u> </u>	
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	NONE	85-135V LCE2 2W
CALIBRATION ADJUSTMENT		: 1(12(3)	
ZERO ADJUSTMENT	NONE	22	
DIELECTRIC TEST-IMPUT TO OUTPUT TO GROUND		1500V RMS	

(1) AVAILABLE AT 25Hz, SOHz, 400Hz AND HIGHER FREQUENCY PANDES

(2) FILTERED OUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

RANSDATA, inc.

6510 Proprietors road • Columbus Ohio 43085 • 614 885 9891

20 RS 100 SERIES

## VAR TRANSDUCERS

Model 20RS100 has a full scale output of 100 mV. The 20RS101 and 20RS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at zero p.f. This a.c. component is considerably lower that the stated value for balanced three phase operation.

Accuracy/linearity specification of ±0.57 includes influences of variations in volt age, current and power factor. For current output models, variation of cutput load impedance is included.

Standard VAR transducers are calibrated for 60Hz. For applications other than 60Hz the specific frequency must be specified when ordering.

- . Designed for Utility Requirements
- . Measures Leading and Lagging Reactive Power
- . Calibrated Output

MODEL NUMBERS	20RS 100	20RS101	20R5101E
NOMINAL POTENTIAL INPUT		120 VOLTS	
NOMINAL CURRENT INPUT		5 AMPS	
FULL SCALE CALIBRATING VARS		1000 VARS	
OUTPUT AT FULL SCALE (d.c.)	100MV	194	IMA
OUTPUT LUAL PEQUIFED	1000	0 to 10K.	O to lUKE
ACCURACY/LINEARITY / 25°C	±0.	5% OF FULL SC	ALE
POWER FACTOR FANGE	UNITY	TO LEAD OF LA	G ZERO
TEMPERATURE RANGE		-20°C to +60°	
TEMPERATURE EFFECTS ON ACCURACY (MAX.)		:12	
PEFOUENCY FANGE		60Hz(-)	
A.C. COMPONENT (PEAR)	100%(-)	<1:	<1
RESPONSE TIME TO 99% OF FINAL VALUE	< 1MS	<200MS	<200MS
VOLTAGE RANGE	0-135V	85-1:5V	0-135V
POTENTIAL POTENTIAL		150 VOLTS	
INPUT OVERLOAD LIMITS	10A CONT	INCOLS, 250A	Fin I SEC.
VOLTAGE BUPDEN MAXIMUM PER ELEMENT	2VA	1 - 1XA	2VA
CURRENT BURDEN		<u>274</u>	
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	SONE	85-135V 6CHz 2W
CALIERATION ADJUSTMENT		+102(3)	
ZEEO ADTUSTMENT	NONE	-2:	:2%
DIELECTRIC TEST-ISPUT TO OUTPUT TO GROUND		1500V, RMS	
FACKAGING AND CONNECTIONS	DIAG	AMS ON PENERSI	E STDE

(1) AVAILABLE AT 25Hz, 50Hz, 400Hz AND HIGHER FREQUENCY MANGES

(2) FILTERED OUTFUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

TRANSDATA, inc.

8510 PROPRIETORS ROAD . COLUMBUS OHIO 43085 . (814) 885 9891

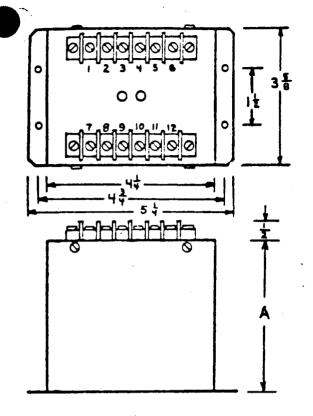
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## SPECIFICATIONS

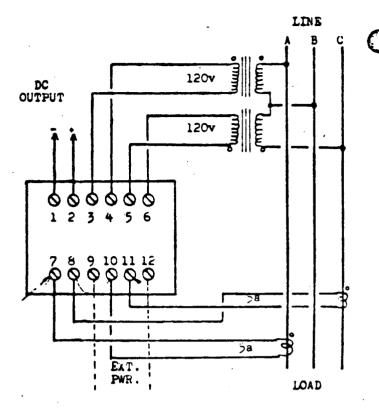


<b>20</b> RS100	 3 1/4
20RS 101	 4
20RS101 E	 4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

Terminal screws are 8-32 binding head.

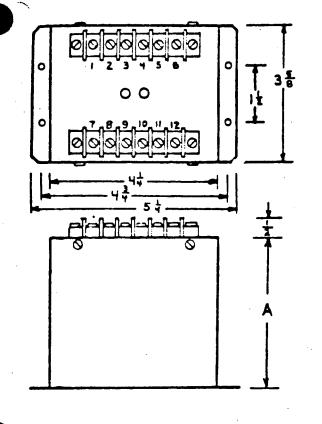


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Connection diagram to a three phase three wire line using current and potential trans-formers.

The external power for the amplifier for model 20RS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

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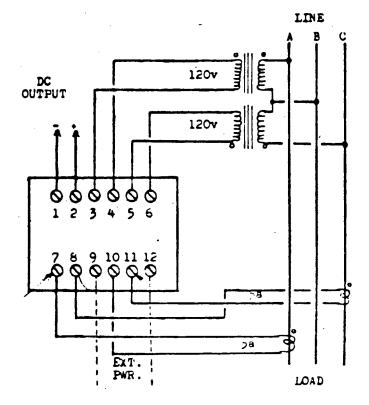


<b>20</b> RS100		3 1/4
<b>20</b> RS101		4
20RS101	E	4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

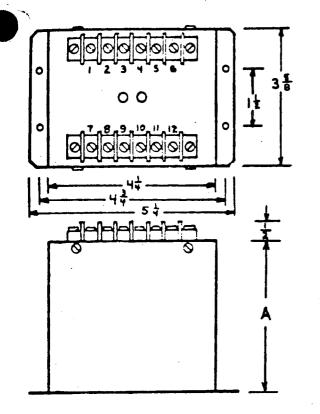
Terminal screws are 8-32 binding head.



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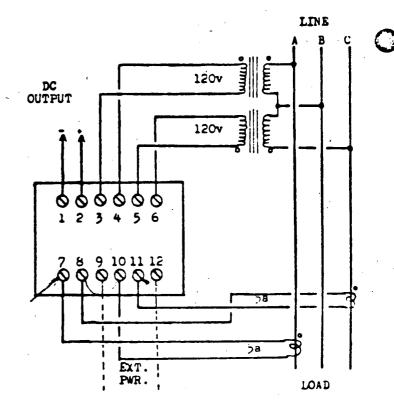


20RS100		. <b></b>	3 1/4
20RS101			
20RS101	Ε		4

Mounting holes (4).. 3/16 Dia.

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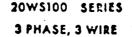
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## WATT TRANSDUCERS

## DESCRIPTION

TransData, Inc., offers a complete selection of Hall Effect watt transducers. These models are available with such features as voltage or current outputs, calibration adjustment and filtered or unfiltered outputs. TransData transducers are also noted for their small physical size, high reliability and applicational flexibility.

The 20WS100 series is comprised of two element Hall Effect watt transducers. These models are for use on three phase, three wire systems. There are three basic models in this series, with options of filtered outputs and 0 to 1102 calibration adjustment, thereby offering a complete line of transducers for utility and industrial applications. Model 20WS100 has a full scale output of 100 mV. The 20WS101 and 20WS101E have a full scale output of 1mA, operable into a varying loop or load resistance of 0 to 10K ohms, with no loss of stated accuracy.

The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow
- . Calibrated Output

MODEL NUMBERS		20%5100	20WS101	20WS1011
NOMINAL POTENTIAL INPUT			120 VOLTS	
NOMINAL CURRENT INPUT			5 AMPS	
FULL SCALE CALIBRATING	WATTS		1000 WATTS	
OUTPUT AT FULL SCALE (d	.c.)	100MV	1MA	1 MA
OUTPUT LOAD REQUIRED		1000	0 to 10KA	. 0 to 10K
ACCURACY/LINEARITY # 25	•C	±0.	5% OF FULL SC	ALE
POWER FACTOR BANGE		UNITY	TO LEAD OF LA	Ç ZERO
TEMPERATURE FANGE		-20°C to +60°C		C
TEMPERATURE EFFECTS ON	ACCURACY (MAX.)	<u></u>		
FREQUENCY RANCE		50-62Hz( <sup>1</sup> )		
A.C. COMPONENT (PEAK)		$1007(^{2})$	<12	<12
RESPONSE TIME TO 992 OF	FINAL VALUE	<1MS	<200MS	1 <200MS
VOLTAGE RANGE		0-135V	85-135%	1 0-135V
	POTENTIAL		150 VOLTS	
INFUT OVERLOAD LIMITS	CURRENT	10A CONT	THUOUS 250A	FOR 1 SEC.
VOLTAGE BURDEN	MAXIMON PER ELEMENT	2 V A	4VA	278
CURRENT BURDEN			2 V A	
EXTERNAL AMPLIFIER POLE	R REGUIRED	NONE	NCNE	85-1351 60Hz 21
CALIBRATION ADJUSTMENT			101(-)	
ZERO ADJUSTMENT		NONE	22	:22
DIELECTRIC TEST-INPUT T	O DUTPUT TO GROUND	150CV RMS		
PACKALING AND CONNECTIO	15	DIACRAMS ON REVERSE SIDE		

SPECIFICATIONS

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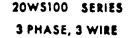
(1) AVAILABLE AT 25Hz, 400Hz AND HIGHER FREQUENCY RANGES

(2) FILTERED CUTPUT AVAILABLE

(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

TRANSDATA, inc.

6510 PROPRIETORS ROAD ... COLUMBUS OHIO 43085 ... (614) 885-9891



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The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of  $\pm 0.53$  includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
  - . Measures Reverse and Forward Power Flow
  - . Calibrated Output

MODEL NU	MBERS	20WS100	20WS101	20WS101E
NOMINAL POTENTIAL INPUT			120 VOLTS	
NOMINAL CURRENT INPUT			5 AMPS	
FULL SCALE CALIERATING #	IATTS		1000 WATTS	
OUTPUT AT FULL SCALE (d.	.c.)	100MV	1MA	<u>1</u> MA
OUTPUT LOAD SEQUIRED		1000	0 to 10K.	O to 10Kr
ACCUEACY/LINEARITY # 25	c	±0.	5% OF FULL SCA	ALE .
POWER FACTOR BANGE		UNITY TO LEAD OR LAG ZERO		ZERO
TEMPERATURE RANGE		-20°C to +60°C		
TEMPERATURE EFFECTS ON A	CCURACY (MAX.)			
FREQUENCY PANCE			50-62Ez(+)	
A.C. COMPONENT (PEAK)		$100 \mathbf{Z}(2)$	<1*	<12
RESPONSE TIME TO 992 OF	FINAL VALUE	<1MS	<200MS	<200MS
VOLTAGE RANGE		0-135V	85-135	0-135V
	• POTENTIAL		150 VOLTS	
INPUT OVERLCAD LIMITS	CUPRENT	IOA CONT	TNUOUS 250A I	OR 1 SEC.
VOLTAGE BURDEN	MAXIMUM PER ELEMENT	2 V A	4VA	27A
CURPENT EURDEN			2\\A	
EXTERNAL AMPLIFIER POWER	REQUIRED	NONE	NONE	65-135V 604z 24
CALIBRATION ADJUSTMENT			= ±101(3)	
ZERO ADJUSTMENT		NCNE	• 2 2	-22
DIELECTRIC TEST-INPUT IC	OUTPUT TO GROUND	1500V 3MS		
PACKALING AND CONNECTION	IS III III III III III III III III III	DIAGRAMS ON REVERSE SIDE		

## SPECIFICATIONS

(1) AVAILABLE AT-25Hz, 400Hz AND HIGHER FREQUENCY RANCES

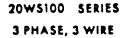
(2) FILTERED OUTPUT AVAILABLE

(3) 0-1101 CALIBRATION ADJUSTMENT AVAILABLE

TRANSDATA, inc.

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# WATT TRANSDUCERS

## DESCRIPTION

**SPECIFICATIONS** 

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The a.c. component is stated for worst case (single phase) operation at unity p.f. This a.c. component is considerably lower than the stated value for balanced three phase operations.

Accuracy/linearity specification of ±0.5% includes influences of variations in voltage, current, power factor, waveform and frequency. For current output models, variation of output load impedance is included.

- . Designed for Utility Requirements
- . Measures Reverse and Forward Power Flow
- . Calibrated Output

MODEL NUMBERS	20WS100	20WS101	20WS101E
NONINAL POTENTIAL INPUT		120 VOLTS	. <u></u>
NOMINAL CURFENT INPLT		5 AMPS	
FULL SCALE CALIERATING WATTS		1000 WATTS	
OUTPUT AT FULL SCALE (d.c.)	10CM	1 <u>MA</u>	1 144
OUTPUT LCAD REQUIRED	1002	0 to 10K.	0 to 10K2
ACCURACY/LINEARITY 2 25°C		52 OF FULL SC	
POWER FACTOR RANGE	UNITY	TO LEAD OF LA	
TEMPERATURE RANGE	-20°C to +60°C		<u>C</u>
TEMPERATURE EFFECTS ON ACCURACY (MAX.)			
FREQUENCY RANGE		50-62Hz(-)	
A.C. COMPONENT (PEAK)	100%(2)		:</td
RESPONSE TIME TO 992 OF FINAL VALUE	<1MS	200MS	<200MS
VOLTAGE RANCE	0-135V	85-135V	0-135V
POTENTIAL		150 VOLTS	
INPUT OVERLOAD LIMITS CURRENT		TINUOUS_ 250A	FOR 1 SEC.
VOLTAGE BURDEN MAXIMUM PER ELEMENT	2VA	1 - · A	2 V A
CURRENT BURDEN HAATHCH PER ELEMENT		1VA	
EXTERNAL AMPLIFIER POWER REQUIRED	NONE	NONE	55-135V 
CALIERATION ADJUSTMENT		±10%(3)	
ZEKO ADJUSTMENT	NONE	:2:	1 : 2
DIFLECTRIC TEST-INPUT TO OUTPUT TO GROUND		1500V RMS	
PACKAGING AND CONNECTIONS	DIAG	RAMS ON REVERS	E SICE

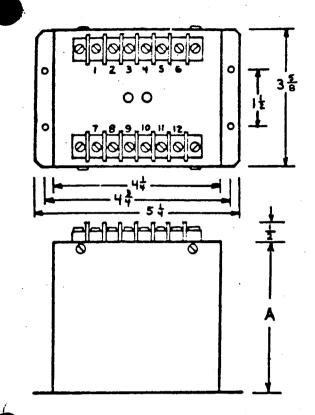
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(3) 0-1102 CALIBRATION ADJUSTMENT AVAILABLE

TRANSDATA, inc.

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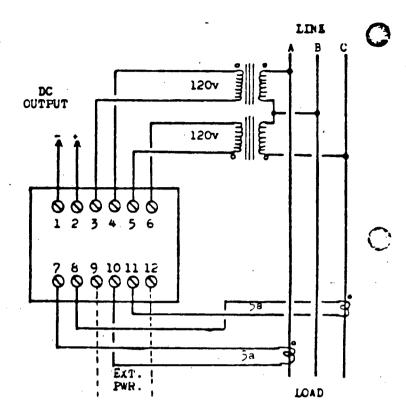


20WS100	• • • • • • • • • • •	3 1/4
20WS101		4
20WS101 E	• • • • • • • • • • •	4

Mounting holes (4).. 3/16 Dia.

Can is steel with integral mounting flanges.

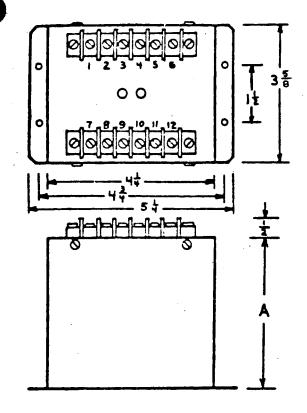
Terminal screws are 8-32 binding head.



Connection diagram to a three phase three wire line using current and potential transformers.

The external power for the amplifier for model 20WS101 E is connected to terminals 9 and 12. On the other models these terminals are unused.

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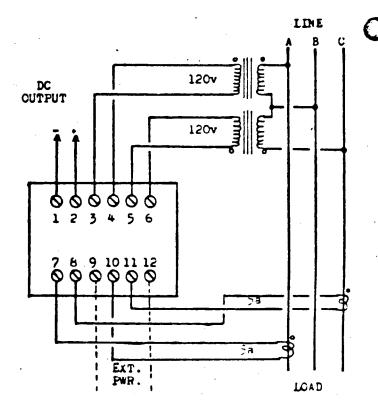


20WS 100	• • • • • • • • • •	3 1/4
20WS101	• • • • • • • • • • •	4
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Mounting holes (4).. 3/16 Dia.

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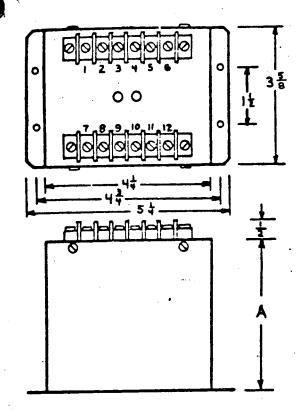
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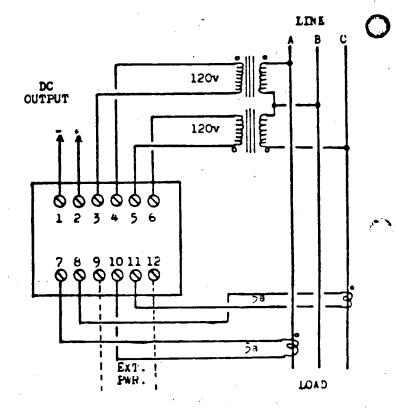


20WS100	••••	3 1/4
20WS101	· · · · <b>· · ·</b> · · · ·	4
20WS101 E		4

Mounting holes (4).. 3/16 Dia.

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Terminal screws are 8-32 binding head.



2)

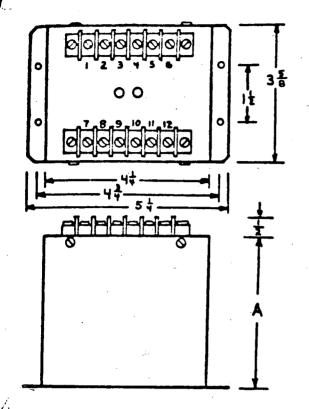
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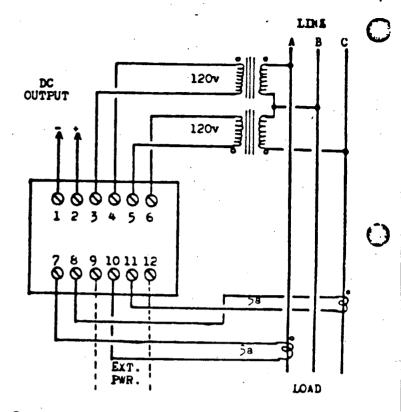


20WS100	•••••	3 1/4
20WS101	• • • • • • • • • • •	4
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YD.