

NRC Medium Voltage Circuit Breaker Training



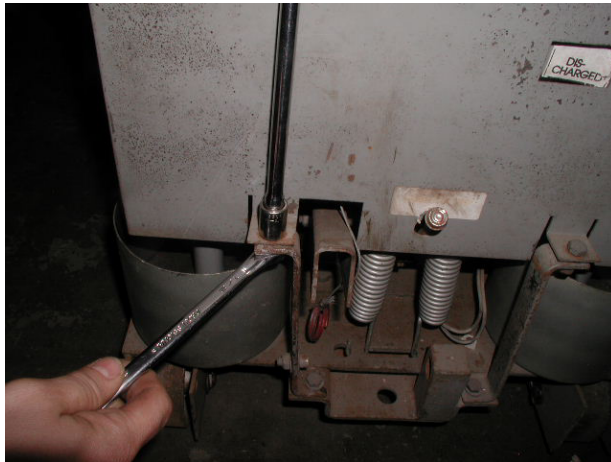
Attachment 9A

MA Allis Chalmers Work Shop

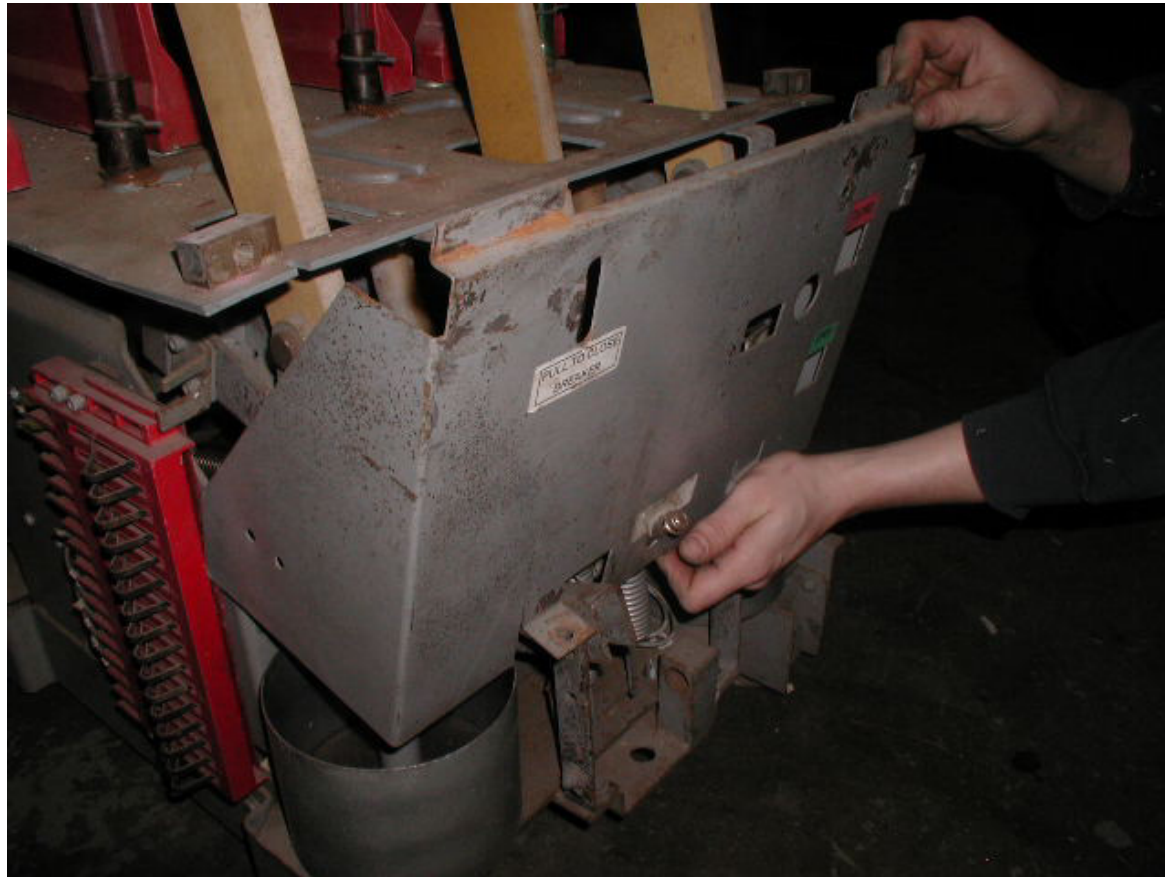
REMOVE Mechanism Cover



**REMOVE the 2 bolts on the lower front of mechanism
and nut and washer from the right side**



REMOVE the cover over Trip Button

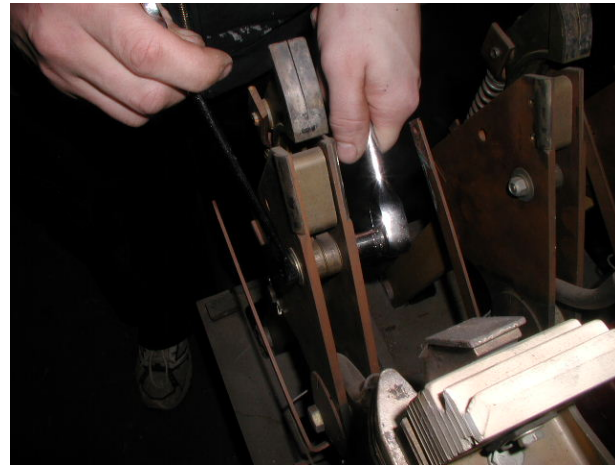
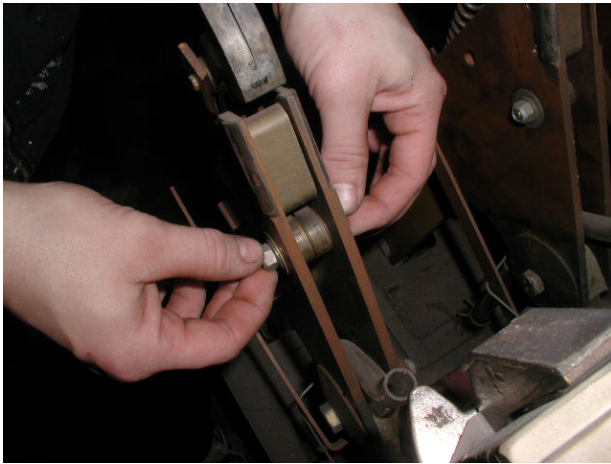


Minimum Voltage Operational Test

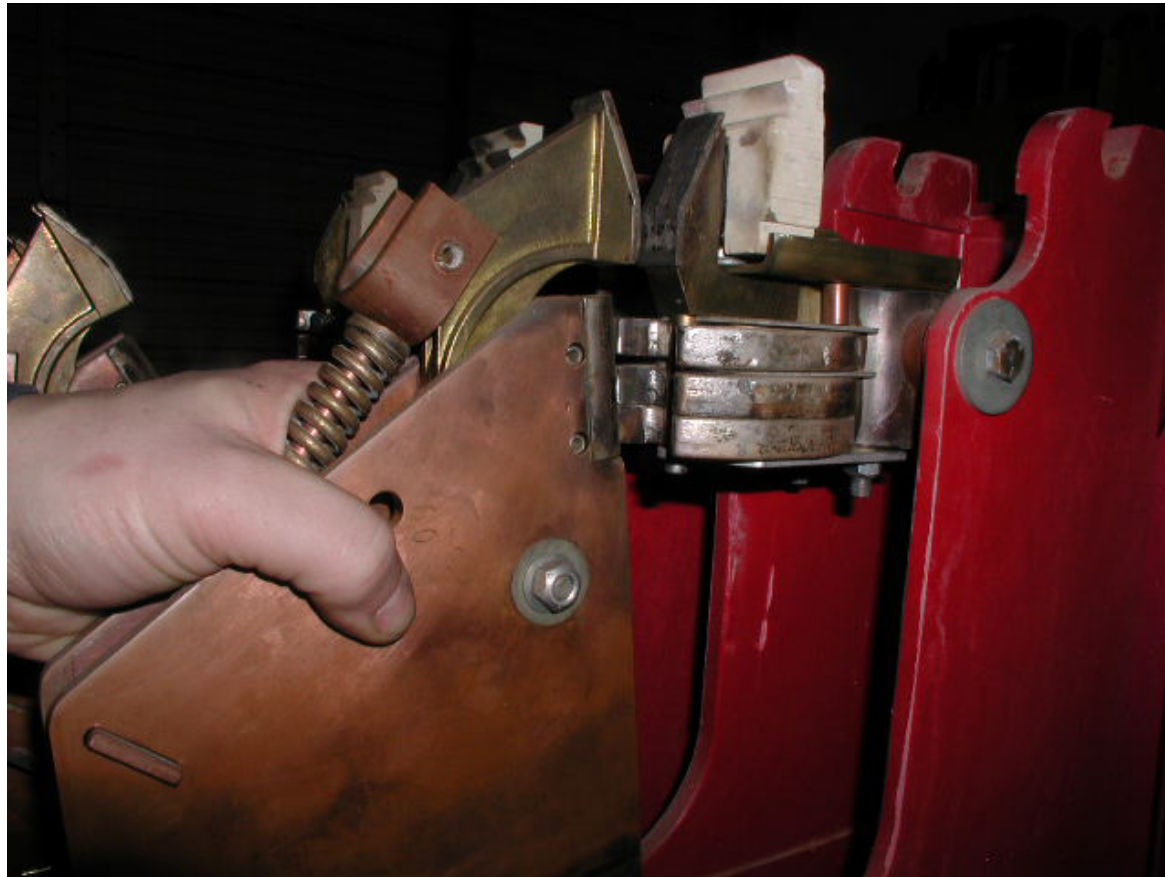


- **CHARGE** breaker at 125 VDC.
- **SET** control voltage to 90 VDC and attempt to close breaker. **VERIFY** breaker closes.
- **SET** control voltage to 70 VDC and attempt to open breaker. **VERIFY** breaker opens.

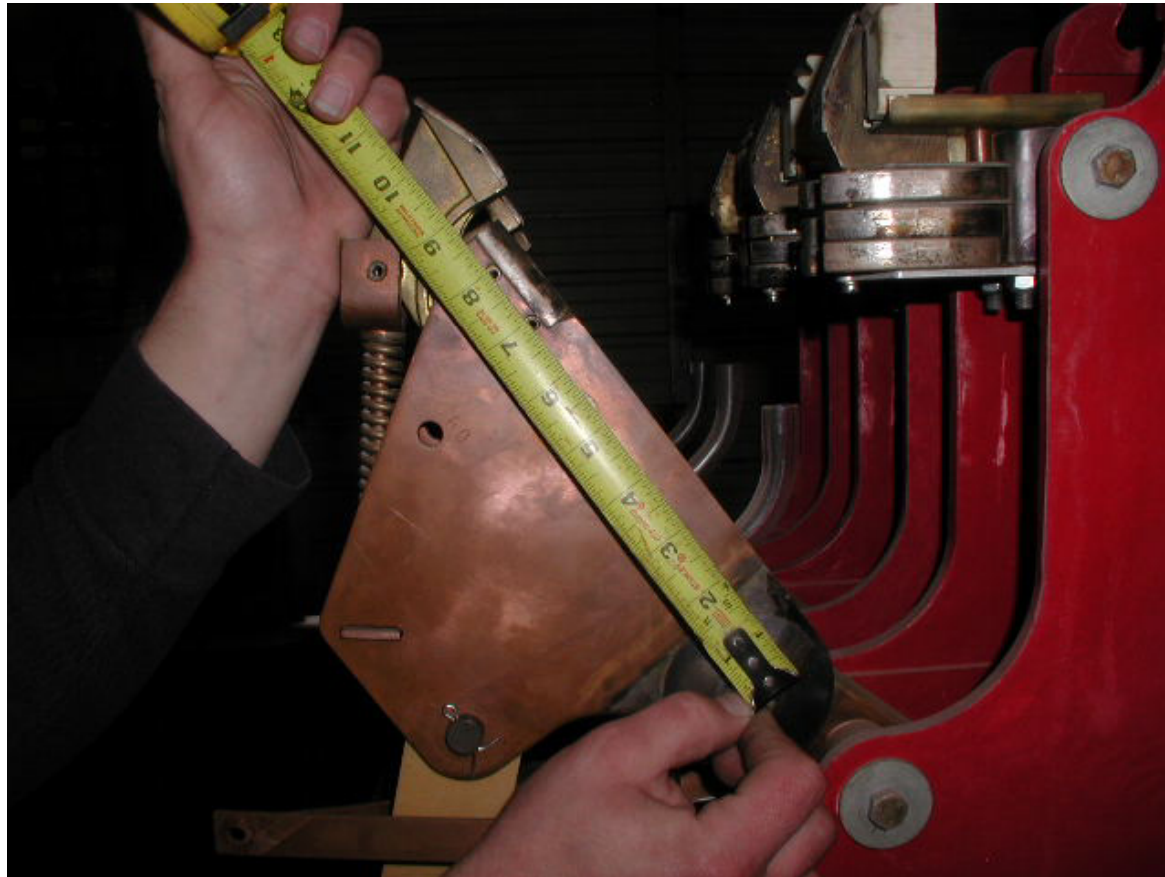
Arcing Contact Hinge Joint Check



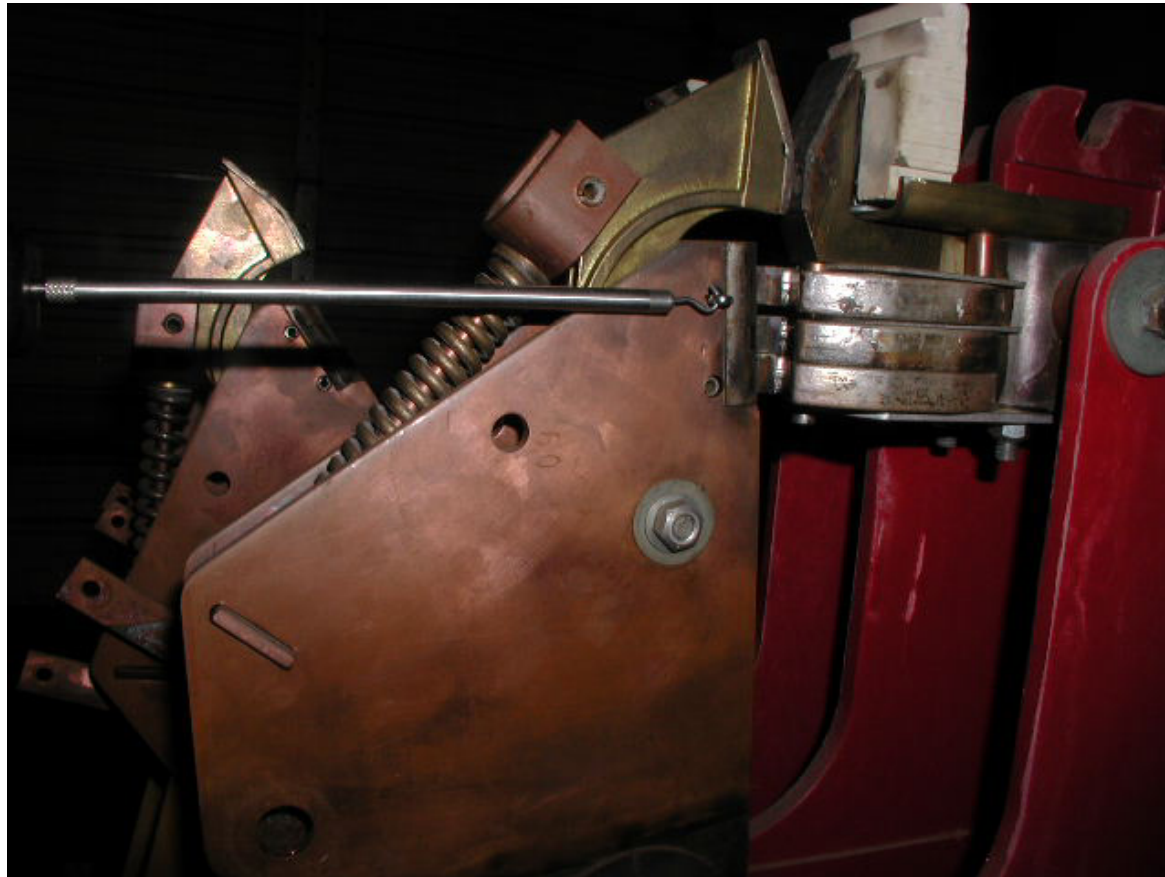
Moving Contact Hinge Joint Check



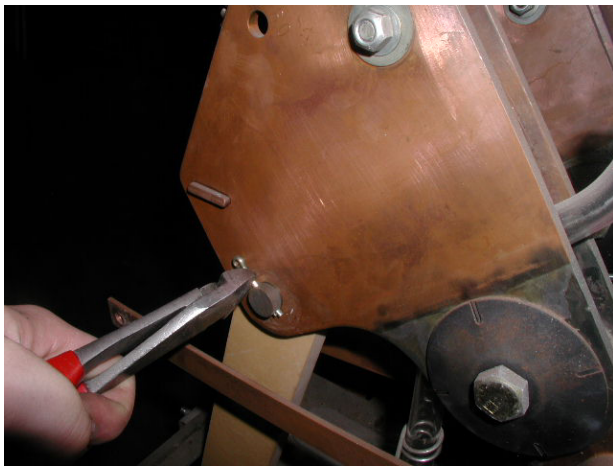
ATTACH a Spring Scale @ 8.5" above the Moving Contact hinge bolt perpendicular to long edge of the contact



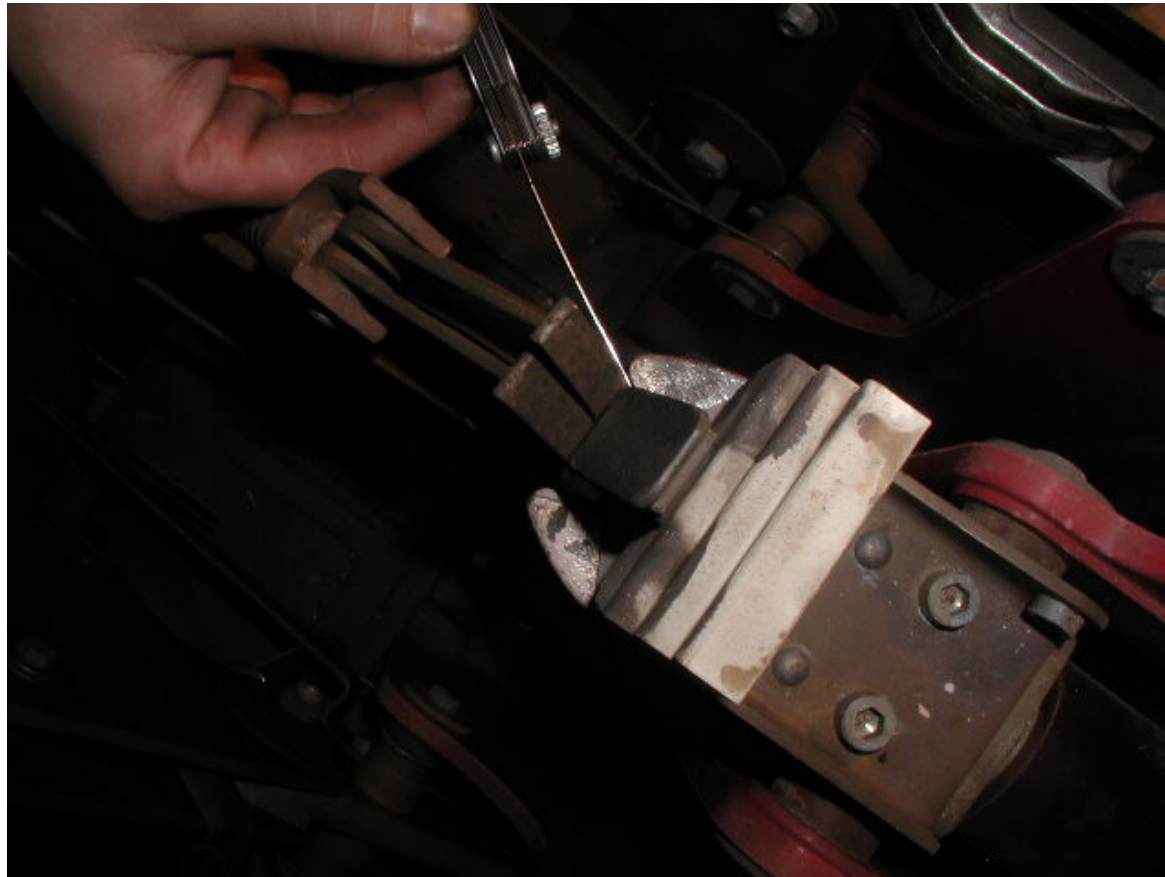
MEASURE the amount of pull required to move the contact toward “OPEN” position



REMOVE the cotter pin and Link Pin from the Push Link and Moving Contact from two (2) phases only



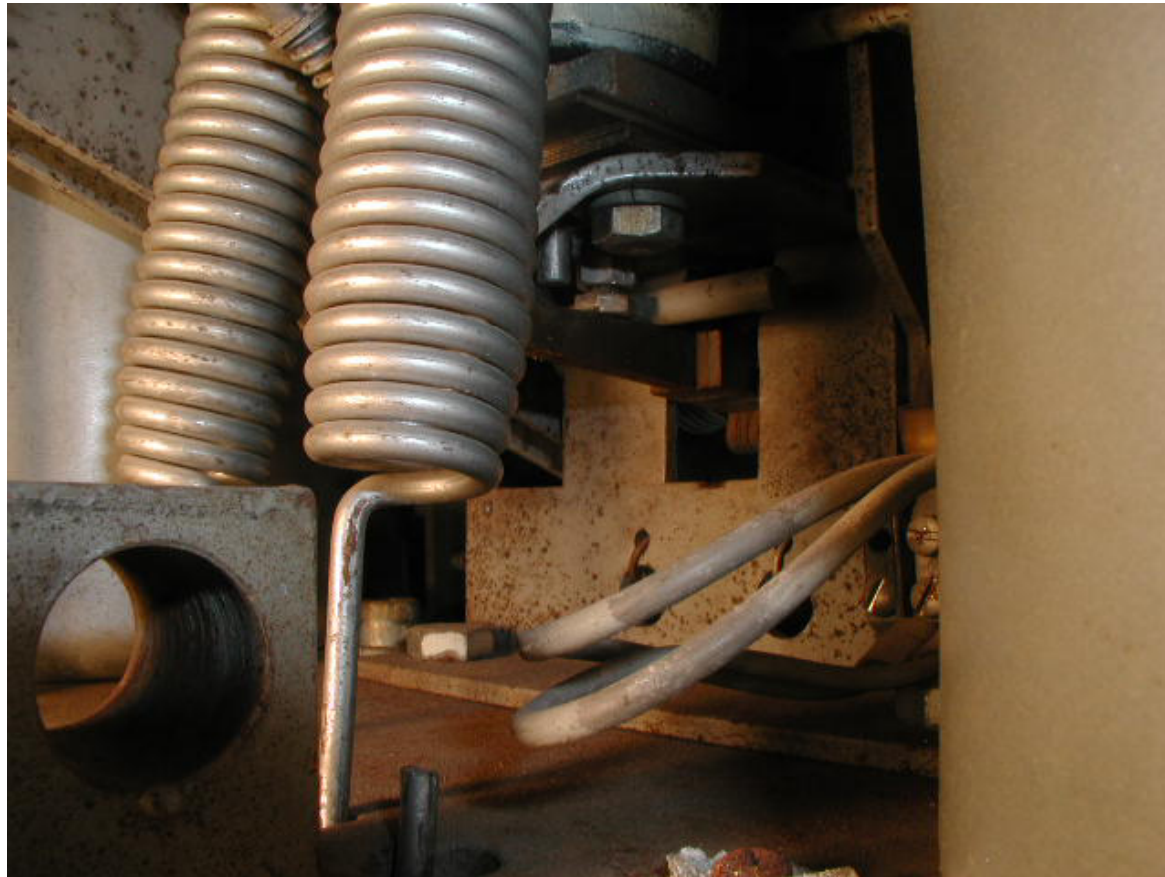
Contact Alignment Check



Contact Stroke Check



Trip Pin to Trip Latch Clearance

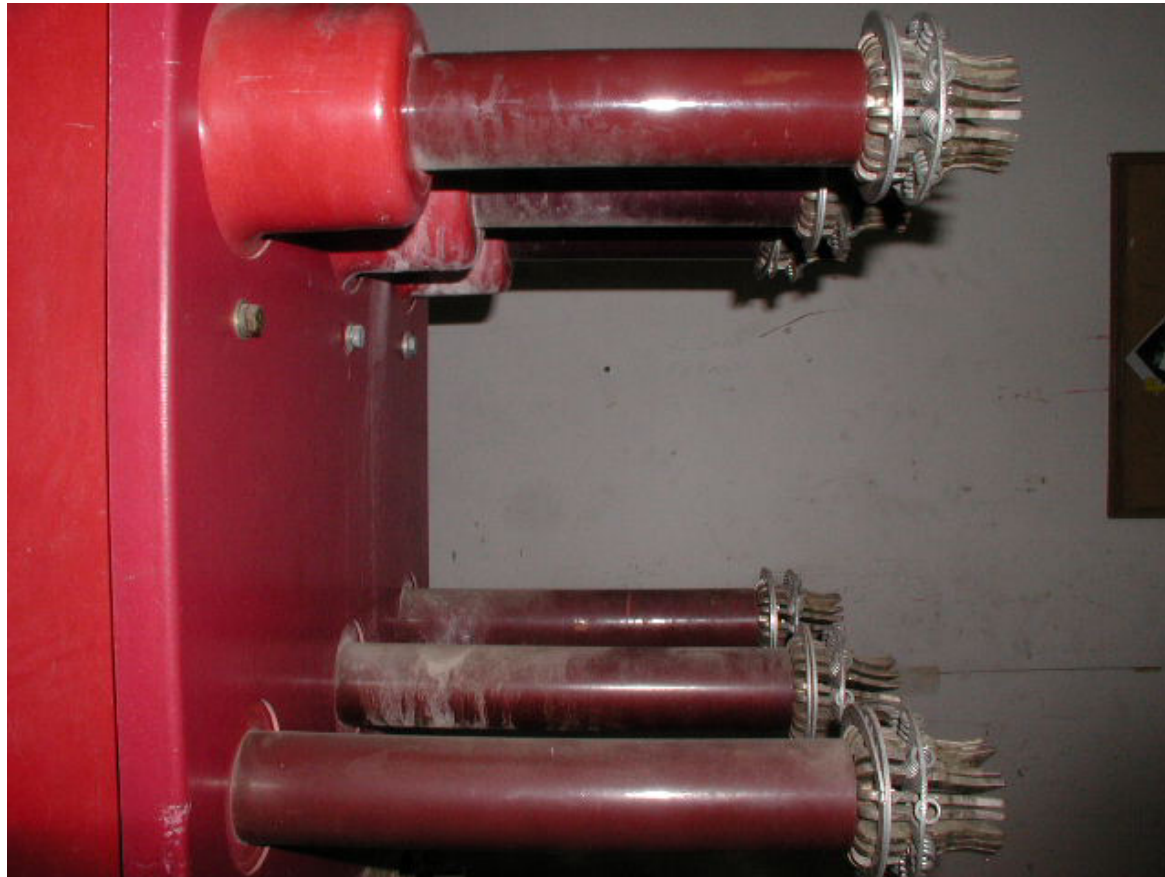


BREAKER COMPONENT INSPECTION



- Main contacts
- Main contact springs
- Arcing contacts
- Silver plating
- Pins, Latches, Rollers, Linkages
- Accessible bearings for freedom of movement

INSPECT primary bushings for damage



INSPECT secondary contact fingers for damage

