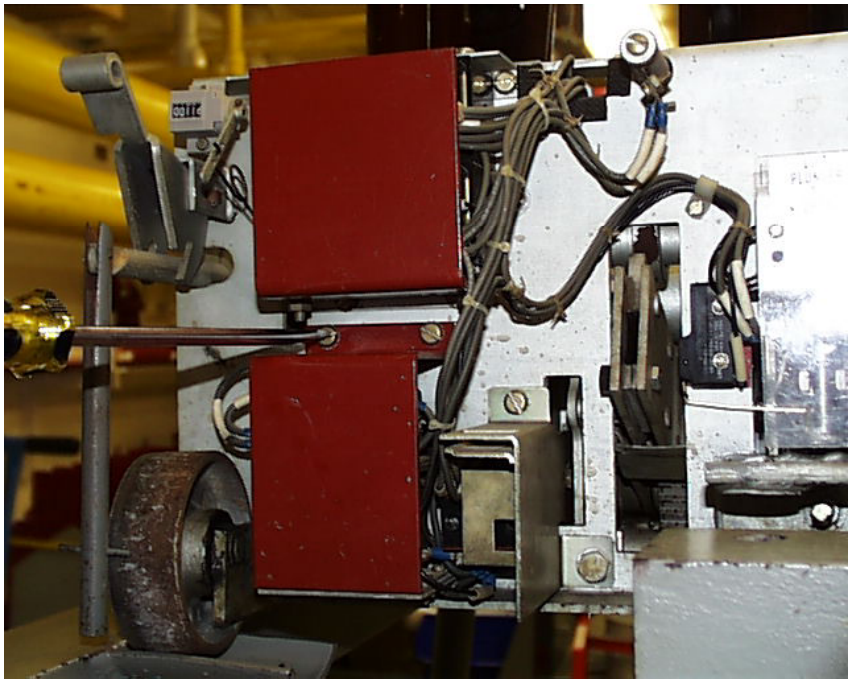
NRC Medium Voltage Circuit Breaker Training

Attachment 7 A

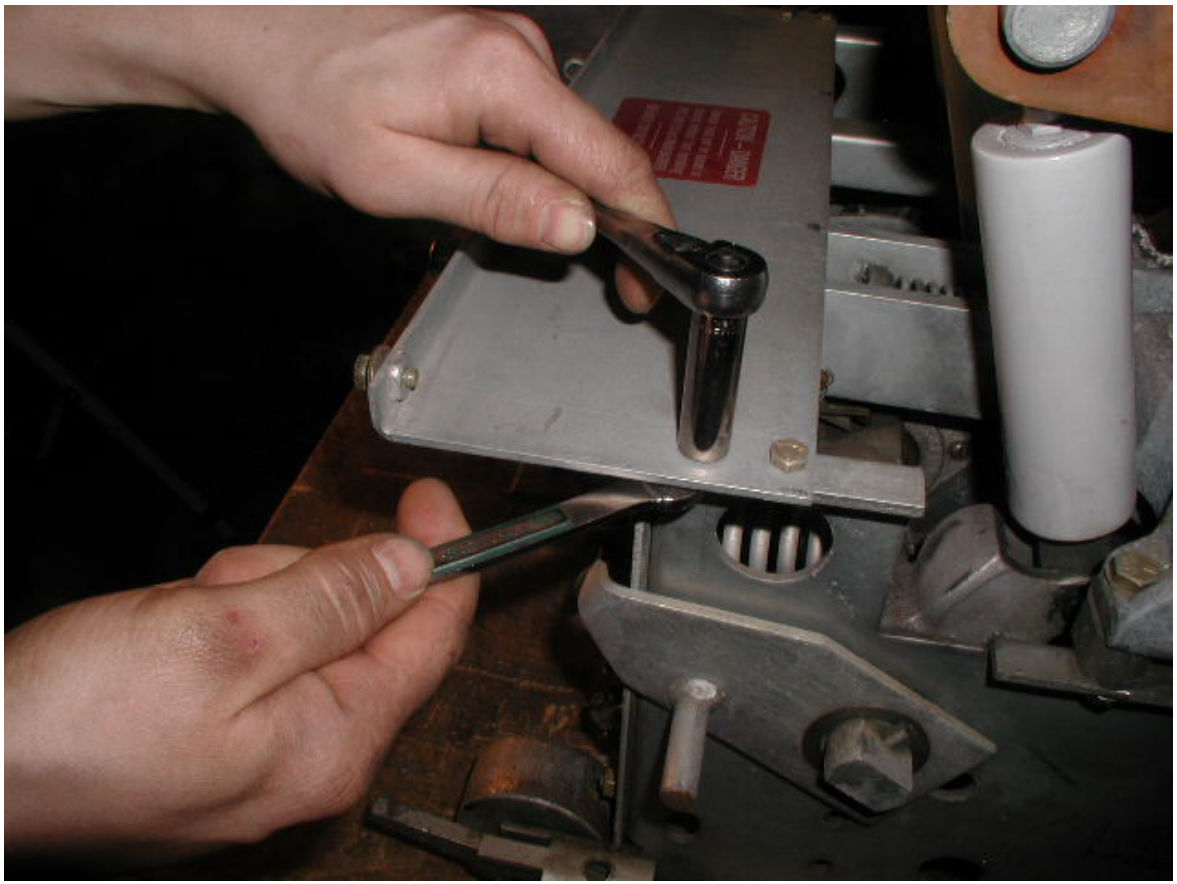
Westinghouse DHP Work Shop

REMOVE all Covers

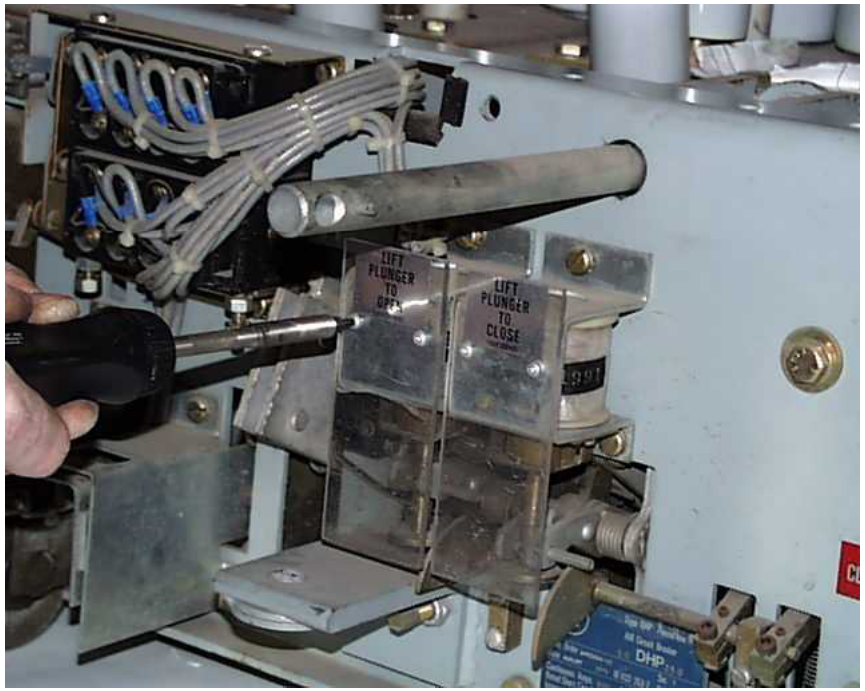


- REMOVE Auxiliary switch cover and "Y" relay cover

REMOVE the Barrier Mounting Plate



Remove Plexiglas covers from the Trip and Close coils



Minimum Voltage Operational Test

- ***Purpose of this test is to verify the breaker will close at 90 VDC and open at 70 VDC.***

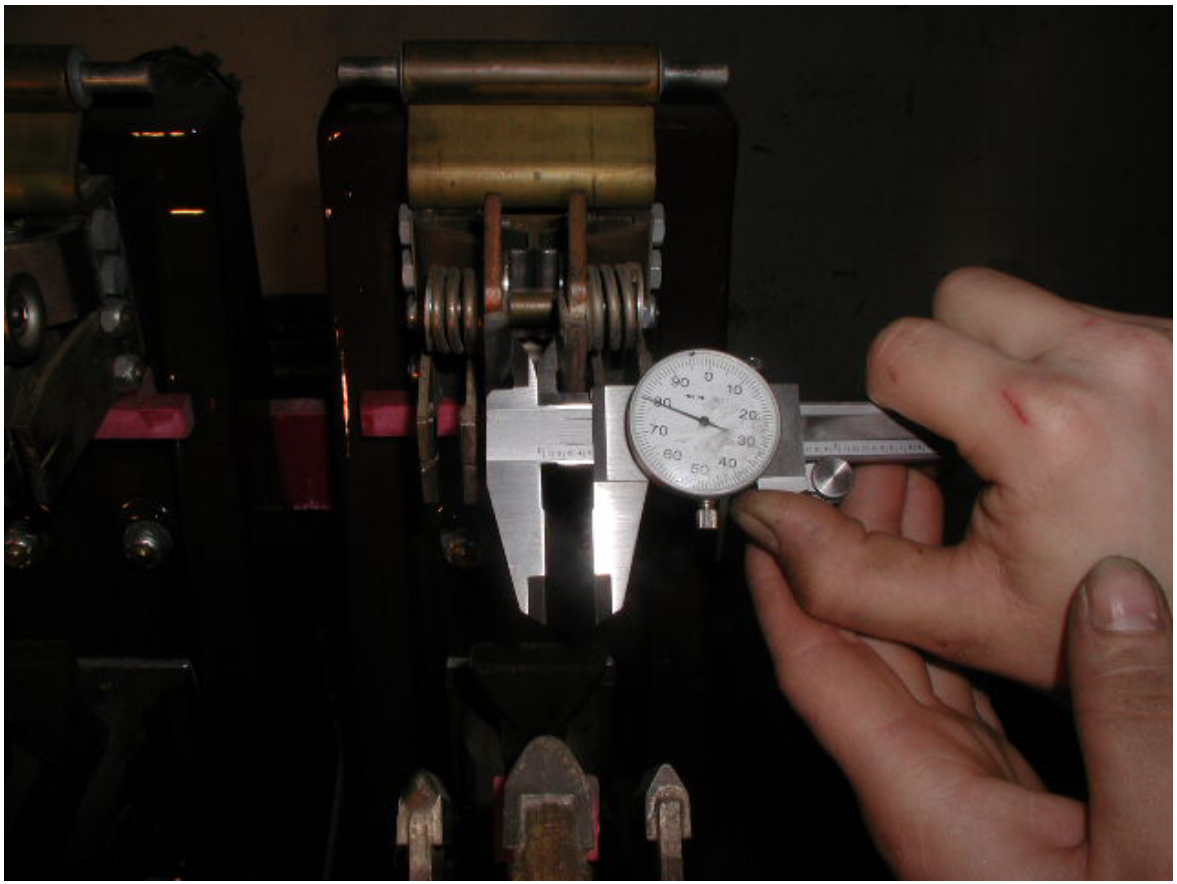
Y-Relay Function Test

- With the breaker OPEN and Springs CHARGED and control voltage supplied, apply an electrical close signal. Breaker will CLOSE. **APPLY** the close signal when the breaker is CLOSED. There should be an audible CLICK of the relay. OPEN breaker.

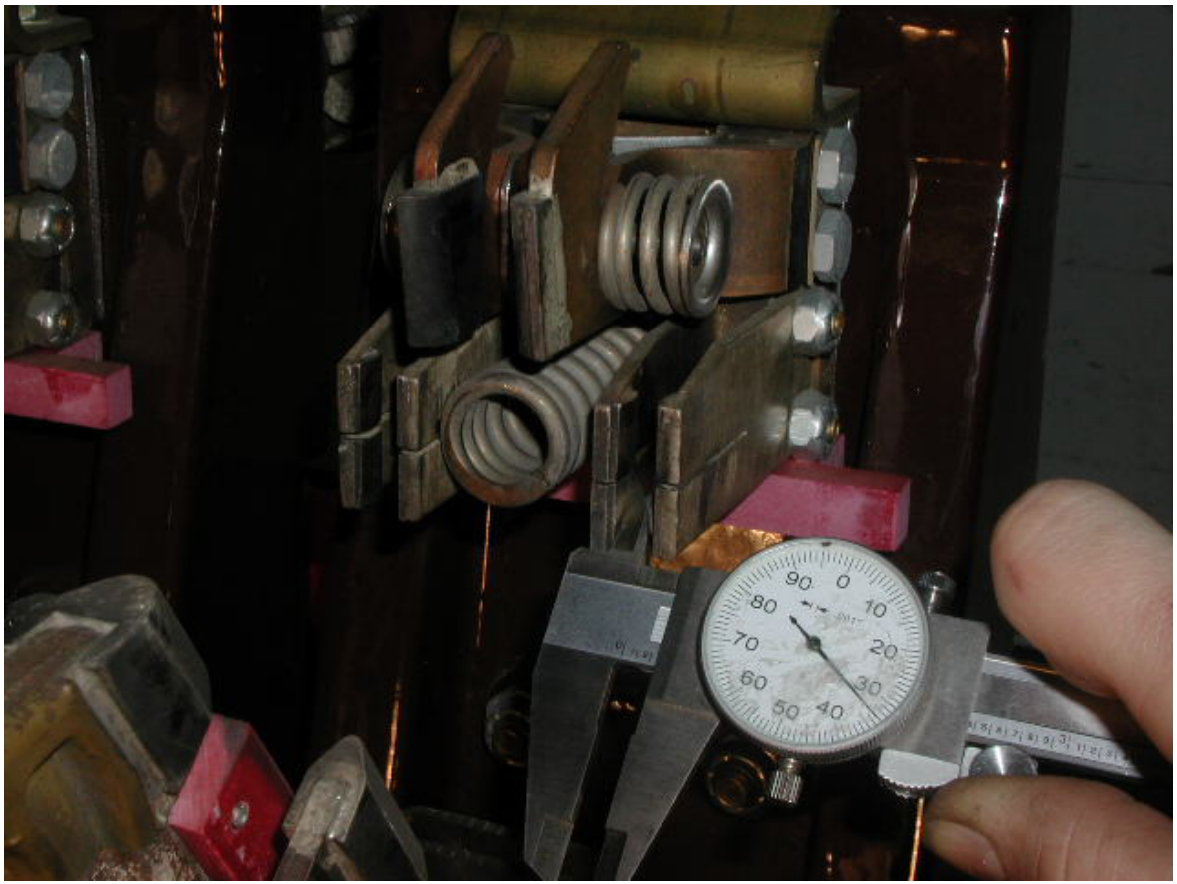
Auxiliary Switch Operation

- CHARGE, then CLOSE the breaker. Check the breaker auxiliary switch contacts for continuity with VOM. Open breaker and recheck the auxiliary switch contacts the contacts should have changed state

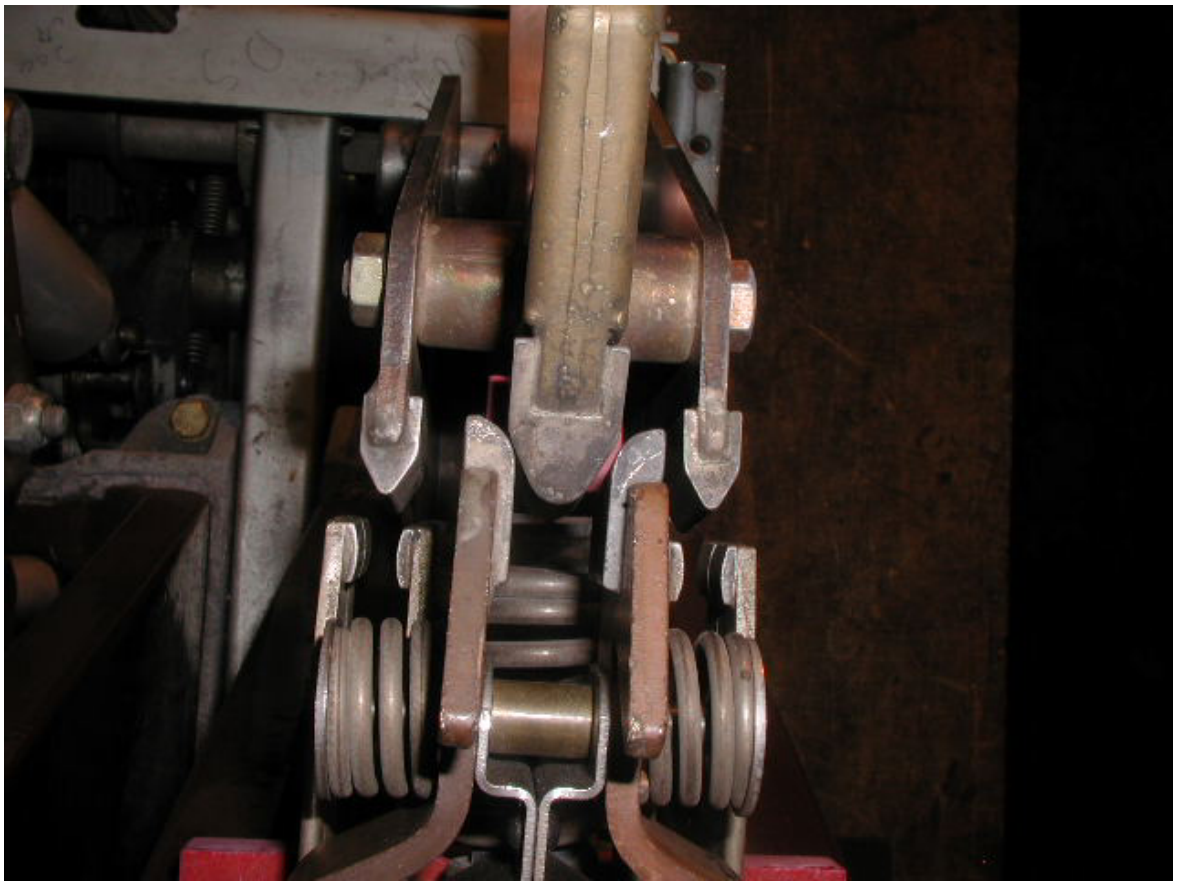
Stationary Arcing Gap Measurements



Main Contact Gap Check

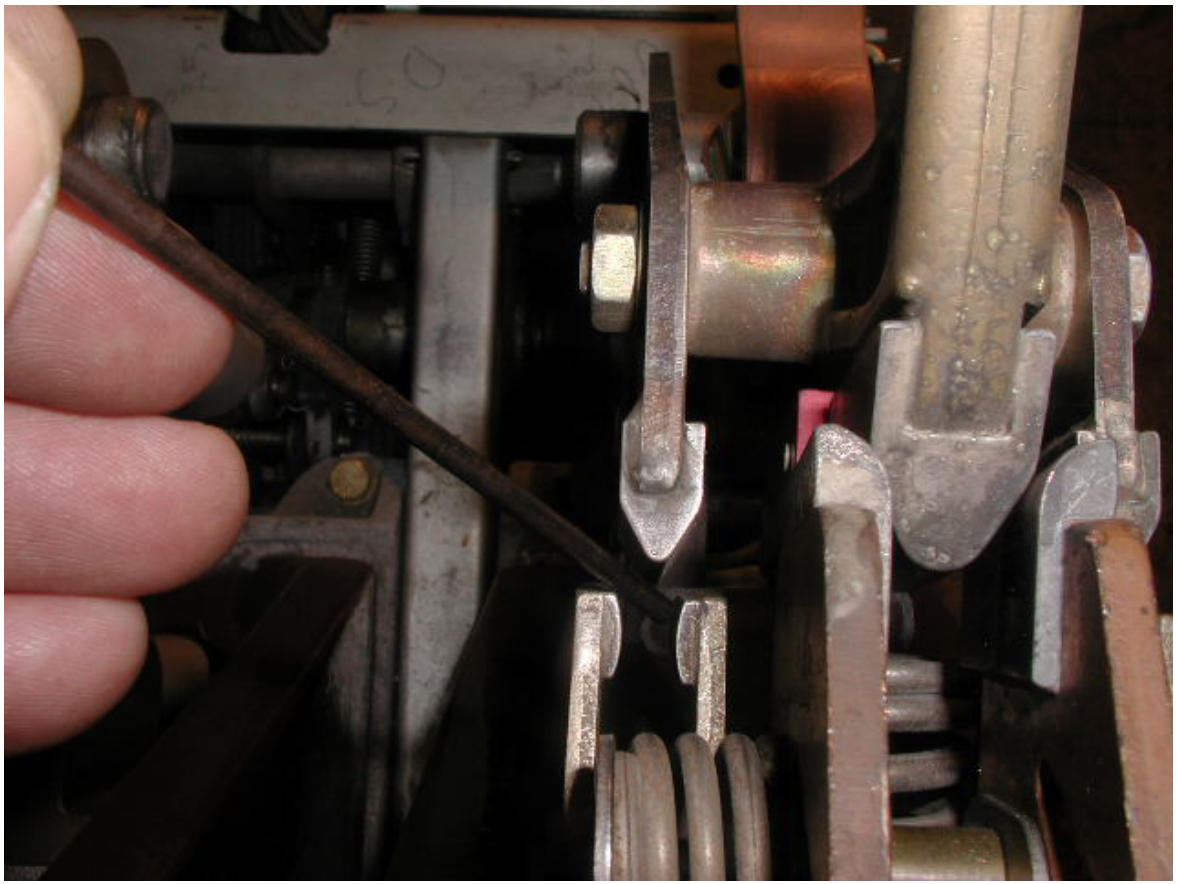


VERIFY the moving main and arcing contacts are approximately centered in the stationary contacts



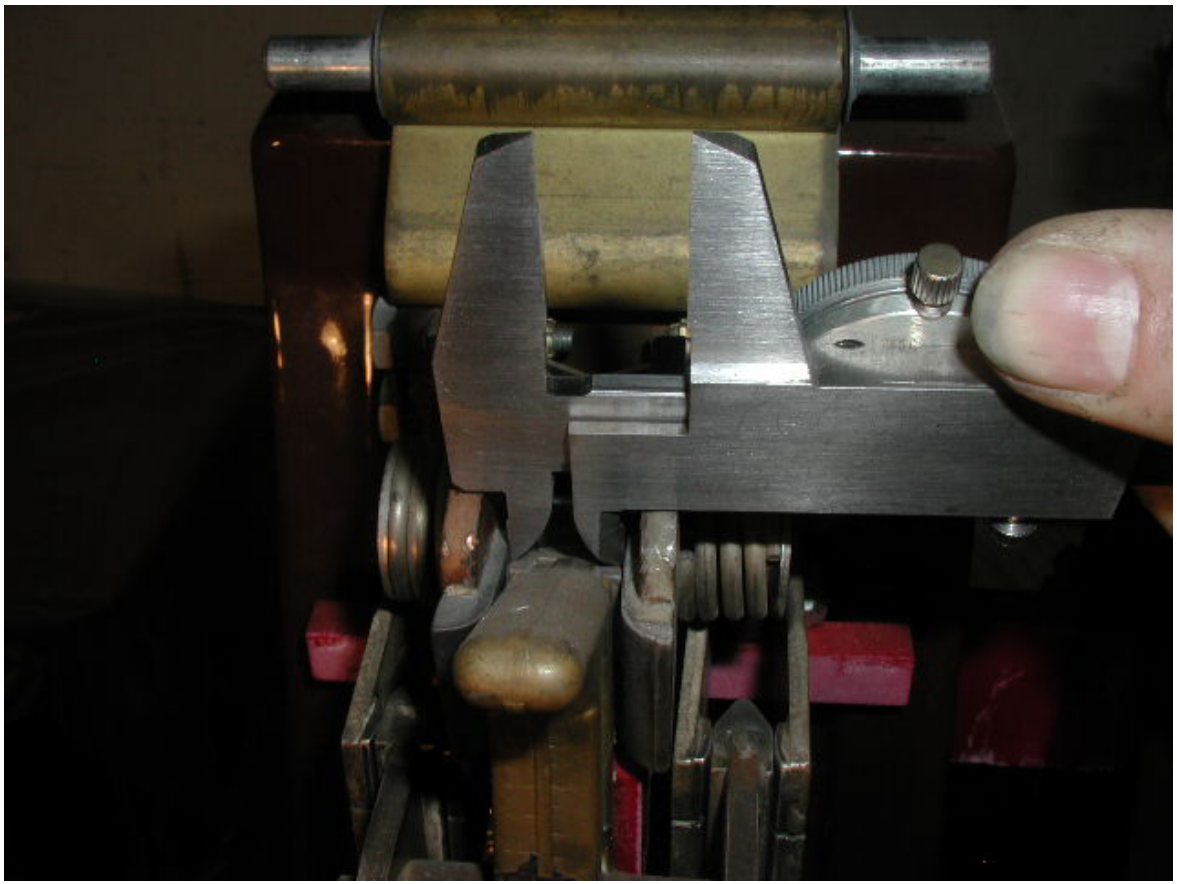
When the arcing contacts just touch , verify the main contacts must have a minimum 0.0625" gap between

the stationary and moving contacts



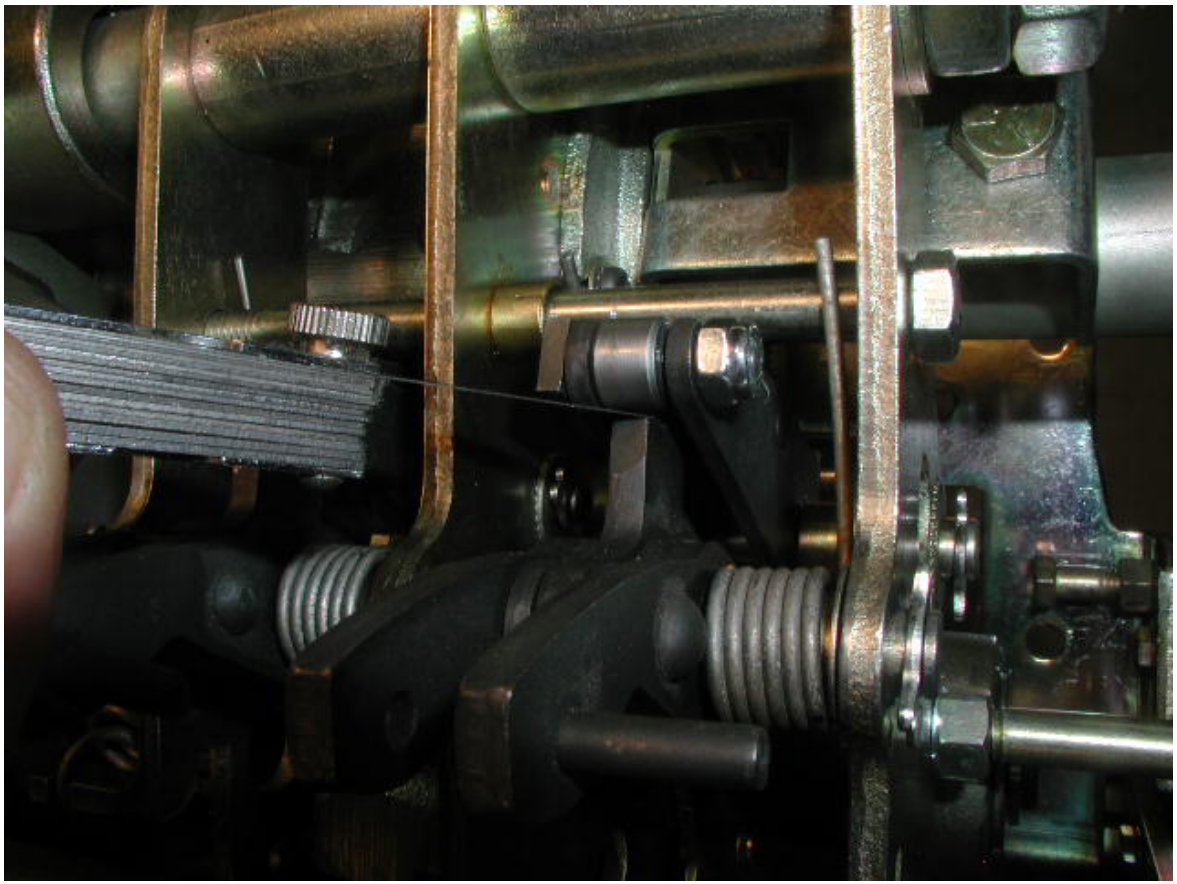
Main Penetration Measurements

Stationary Arcing Measurements (Breaker CLOSED)

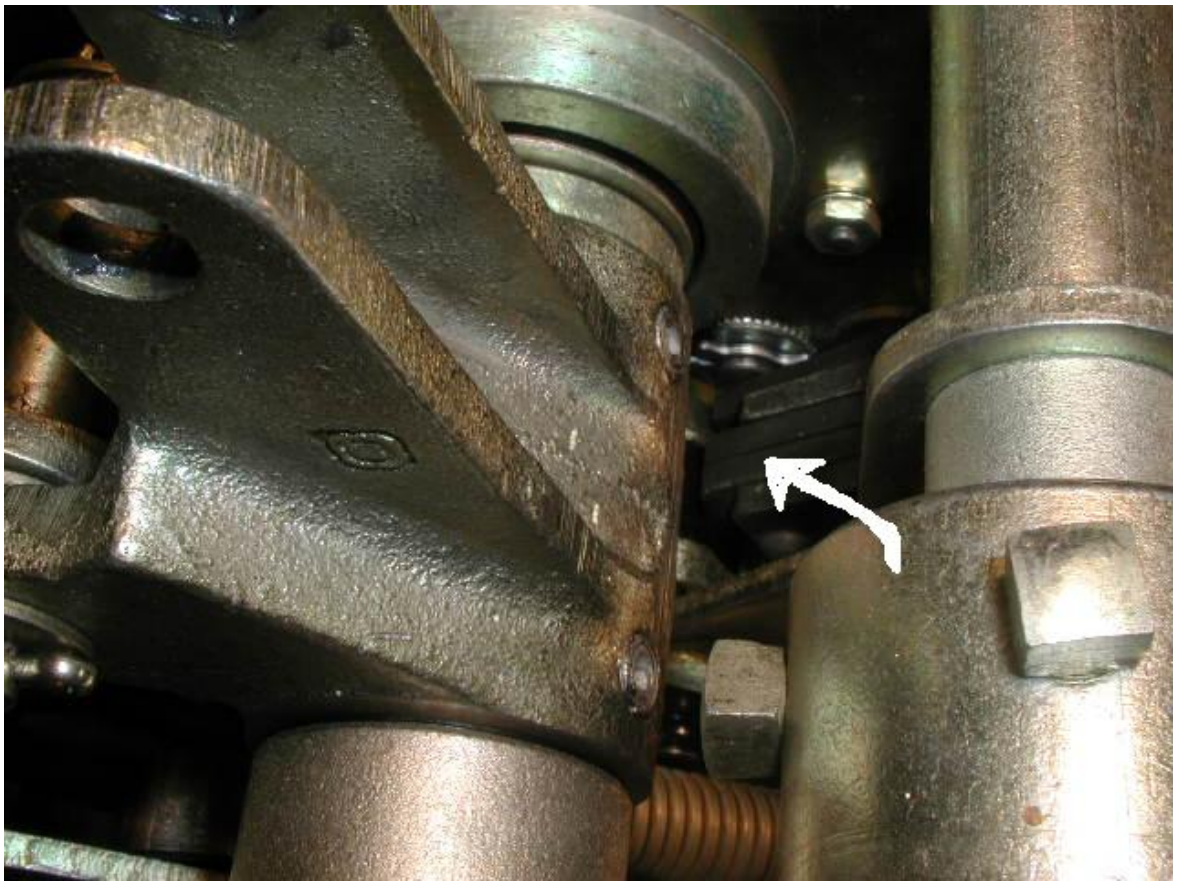


Moving and stationary contacts open air gap

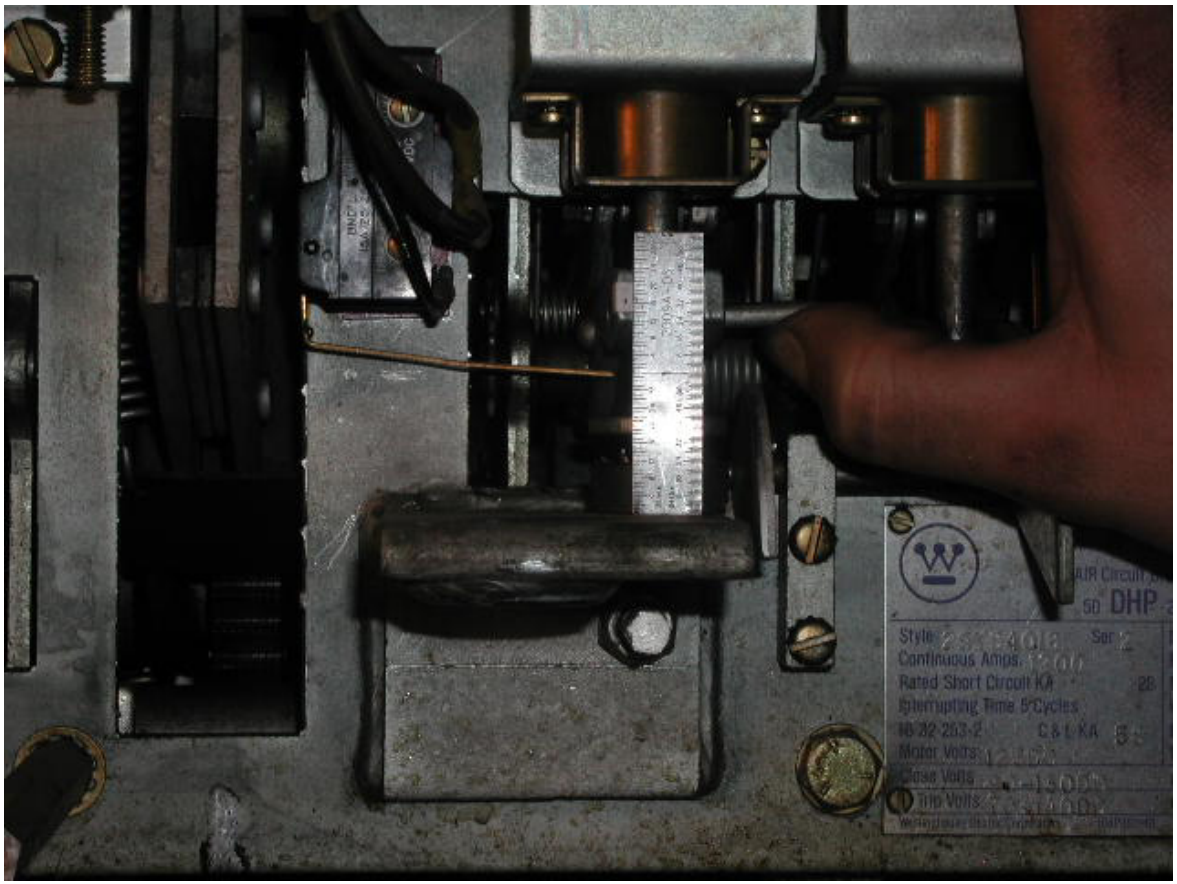
Anti-Close Interlock Adjustment



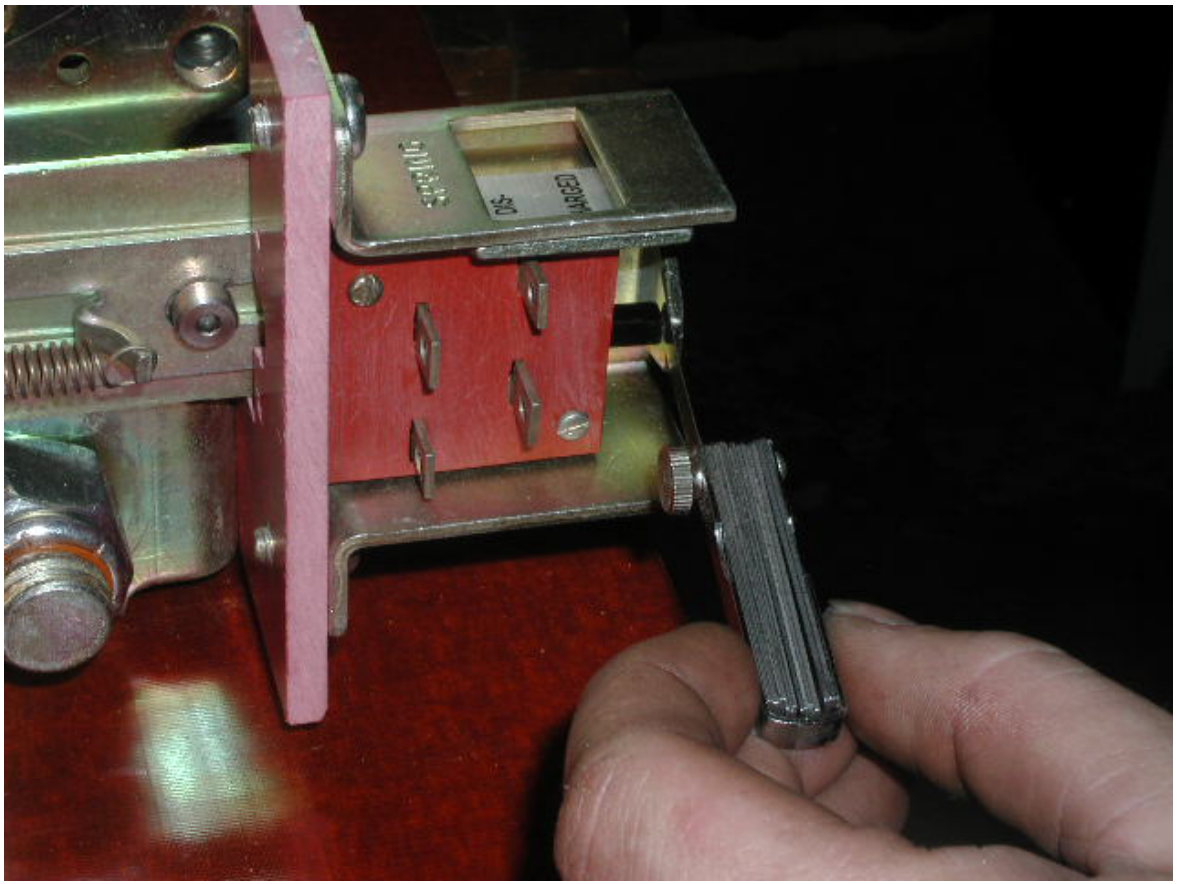
Latch Check Switch Adjustment Verification



Latch Check Switch Adjustment Verification

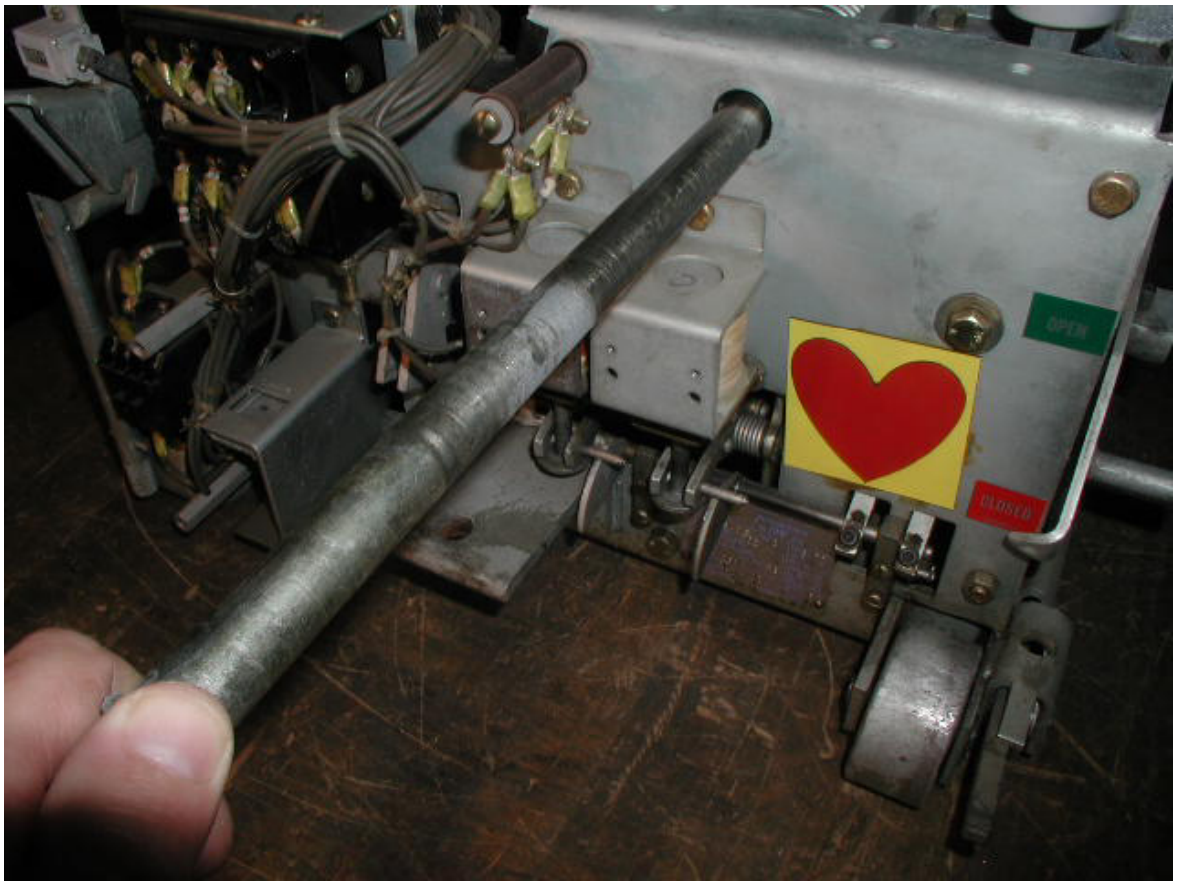


Limit Switch (Motor Cut-Off Switch) Operation

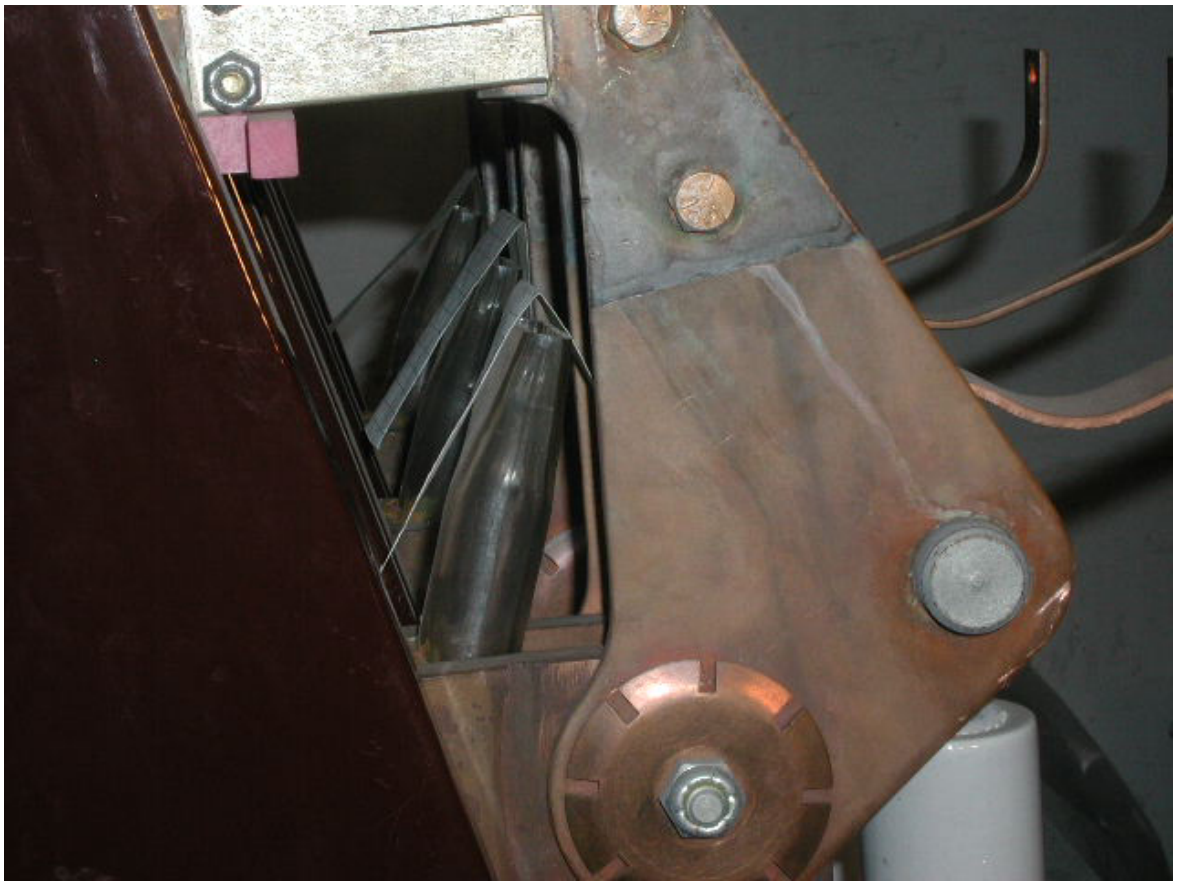


Floor tripper check

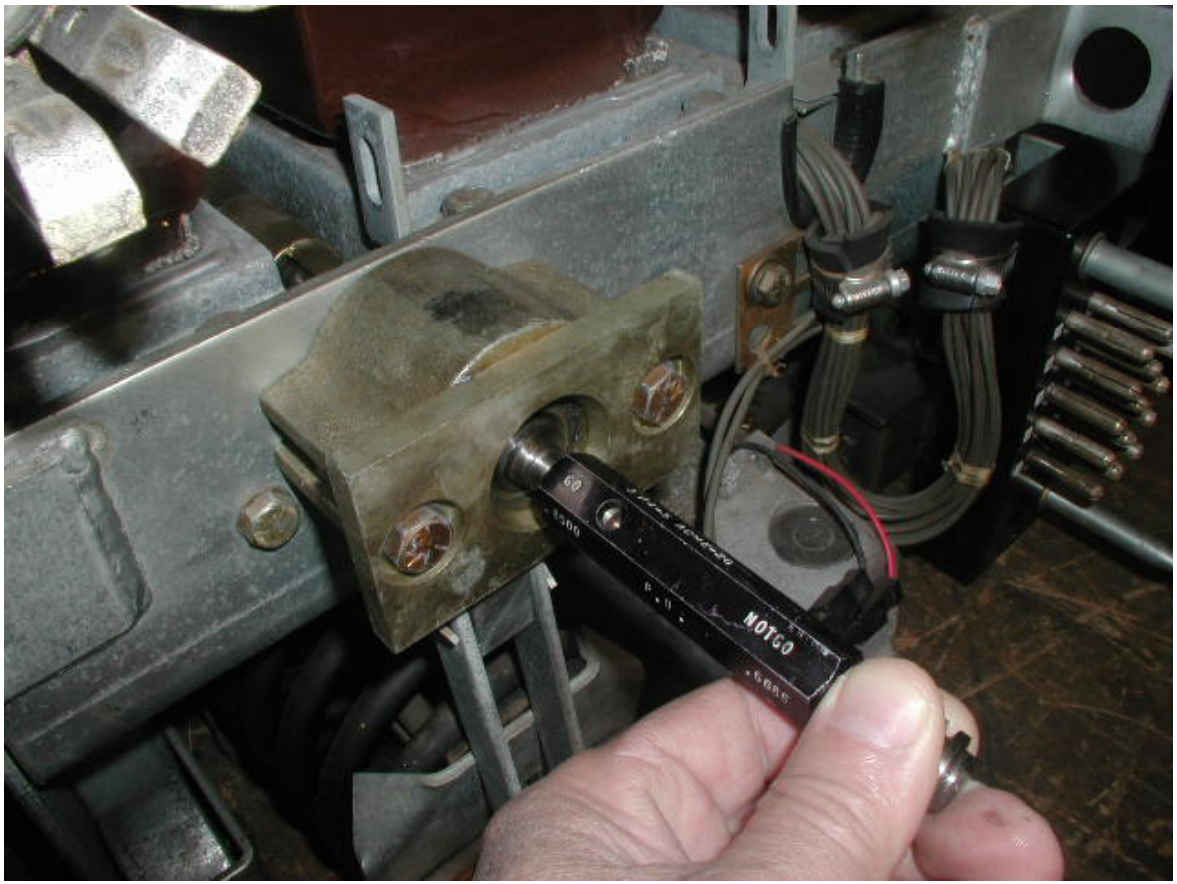
Verify Racking Interlock Operations



Puffer Operation



Using a Go/No-Go thread gauge INSPECT the threads of the levering nut at the end of the levering guide tube



Clean the pivot area thoroughly checking for any burrs