



Anderson Instrument Co., Inc.  
 156 Auriesville Rd.  
 Fultonville, NY 12072

Phone: 518-922-5315 or 800-833-0081  
 Fax: 518-922-8997 or 800-726-6733

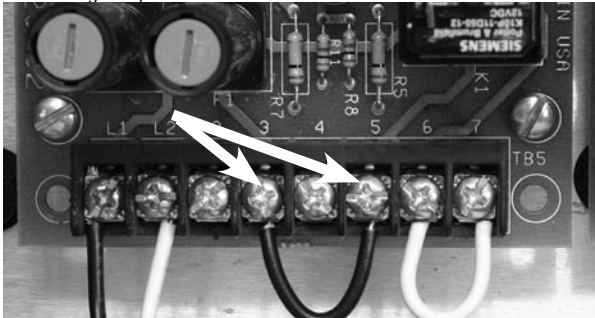
# Technical Bulletin

## AV9900 Forward Flow / Divert flow Test Procedure

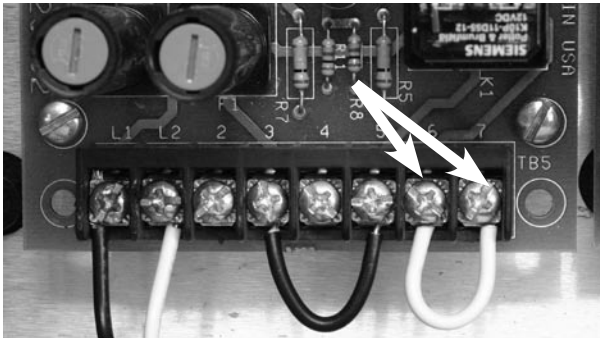
The following procedure will test the recorders ability to record and control the flow diversion valve. When troubleshooting forward flow / divert problems this will isolate the recorder from all external circuitry.

**NOTE: THIS PROCEDURE REQUIRES THE HEALTH AUTHORITY SEAL TO BE BROKEN, THEREFORE LOCAL AUTHORITIES MUST BE NOTIFIED PRIOR TO TESTING.**

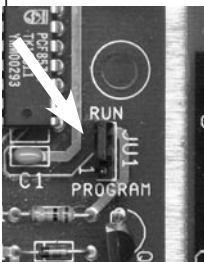
1. Power down recorder and remove all wiring from terminals 2 through 7 of HTST board.
2. Install jumper wire from terminal 3 to terminal 5.



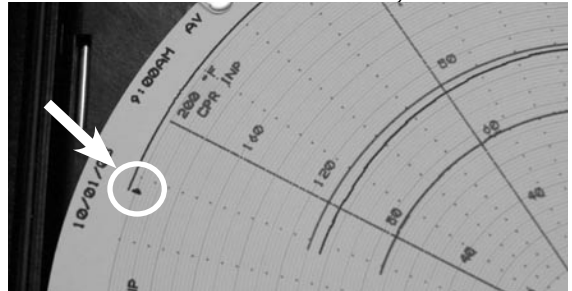
3. Install a second jumper wire from terminal 6 to terminal 7.



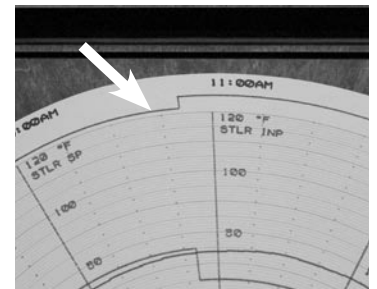
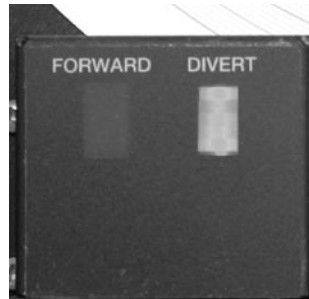
4. Make sure Run/Program jumper is in the Run position.



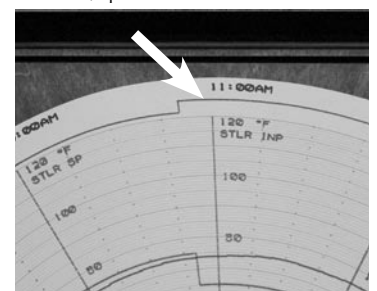
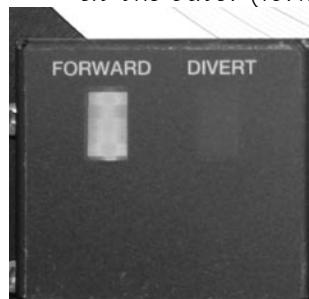
5. Power up recorder and start new chart – Allow enough time for chart to catch up to “Real” time (This will be indicated by an arrow at the outside scale line of the chart).



6. Expose HTST probe to a temperature below diversion setpoint – The divert flow (red) light should be on and the event line at the outside edge of the chart should be recording at the inner (divert) position.



7. Expose HTST probe to a temperature above diversion setpoint – The forward flow (green) light should be on and the event line at the outside edge of the chart should be recording at the outer (forward flow) position.



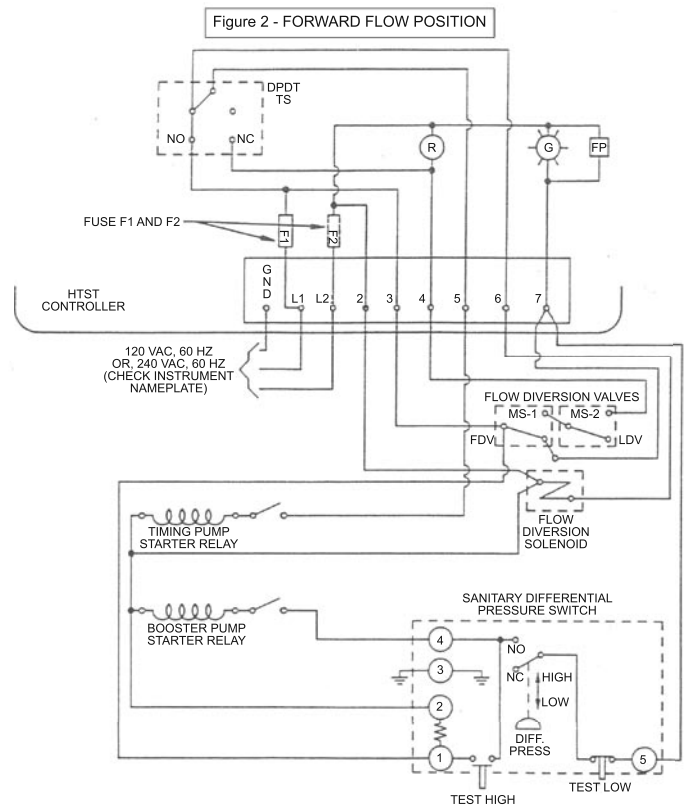
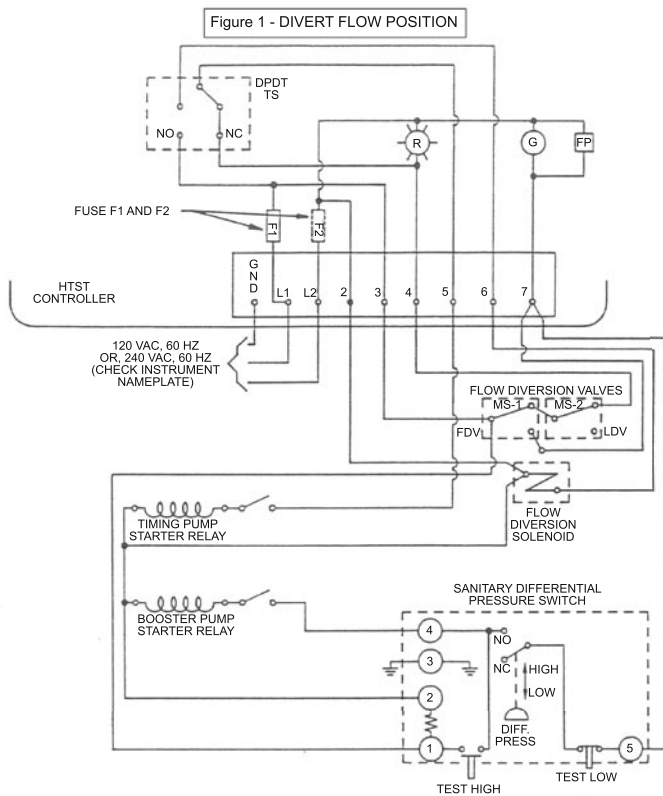
# AV9900 Forward Flow / Divert flow Test Procedure Cont'd

If the recorder does not function as indicated in the above procedure please contact Anderson Technical Service for assistance at 800-833-0081.

If the recorder functions as indicated in the above procedure it is working properly and should function correctly when connected to external circuitry.

Power down recorder, remove jumpers and reconnect external wiring. Power recorder up and test system - If the system does not go in and out of forward flow/divert properly you will need to troubleshoot the external circuitry/equipment.

Refer to figure 1 (Divert Flow) and figure 2 (Forward Flow) for typical HTST wiring.



- (R) RED LIGHT (UNPOWERED)
- (R) RED LIGHT (POWERED)
- (G) GREEN LIGHT (UNPOWERED)
- (G) GREEN LIGHT (POWERED)

- FP FREQUENCY PEN
- LDV LEAK DETECTOR VALVE

- MS MICROSWITCH (MS-1, MS-2)
- FDV FLOW DIVERSION VALVE
- DPDT TS DOUBLE POLE, DOUBLE THROW, TEMPERATURE SWITCH