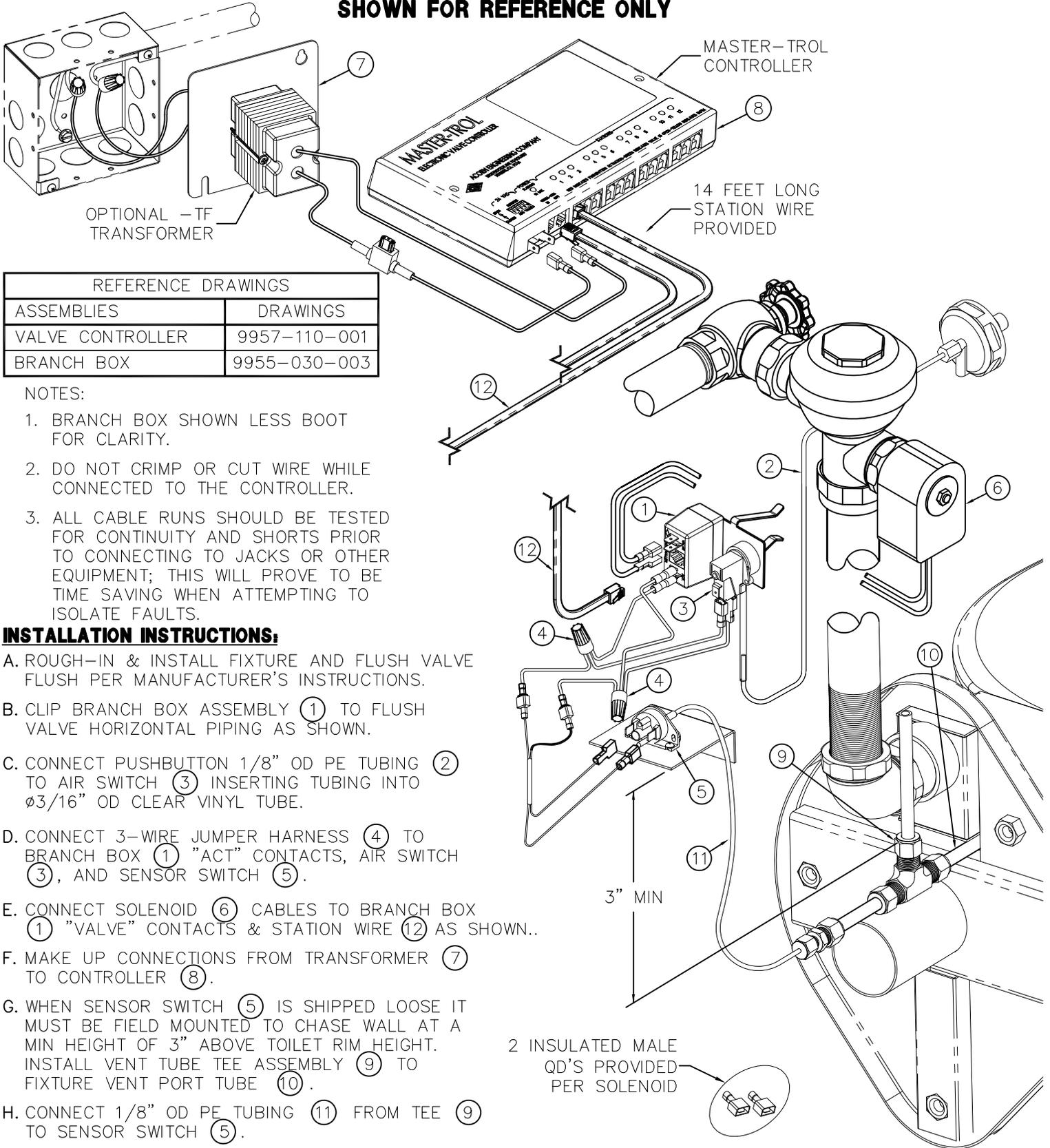




SHOWN FOR REFERENCE ONLY



REFERENCE DRAWINGS	
ASSEMBLIES	DRAWINGS
VALVE CONTROLLER	9957-110-001
BRANCH BOX	9955-030-003

NOTES:

1. BRANCH BOX SHOWN LESS BOOT FOR CLARITY.
2. DO NOT CRIMP OR CUT WIRE WHILE CONNECTED TO THE CONTROLLER.
3. ALL CABLE RUNS SHOULD BE TESTED FOR CONTINUITY AND SHORTS PRIOR TO CONNECTING TO JACKS OR OTHER EQUIPMENT; THIS WILL PROVE TO BE TIME SAVING WHEN ATTEMPTING TO ISOLATE FAULTS.

INSTALLATION INSTRUCTIONS:

- A. ROUGH-IN & INSTALL FIXTURE AND FLUSH VALVE FLUSH PER MANUFACTURER'S INSTRUCTIONS.
- B. CLIP BRANCH BOX ASSEMBLY (1) TO FLUSH VALVE HORIZONTAL PIPING AS SHOWN.
- C. CONNECT PUSHBUTTON 1/8" OD PE TUBING (2) TO AIR SWITCH (3) INSERTING TUBING INTO ø3/16" OD CLEAR VINYL TUBE.
- D. CONNECT 3-WIRE JUMPER HARNESS (4) TO BRANCH BOX (1) "ACT" CONTACTS, AIR SWITCH (3), AND SENSOR SWITCH (5).
- E. CONNECT SOLENOID (6) CABLES TO BRANCH BOX (1) "VALVE" CONTACTS & STATION WIRE (12) AS SHOWN..
- F. MAKE UP CONNECTIONS FROM TRANSFORMER (7) TO CONTROLLER (8).
- G. WHEN SENSOR SWITCH (5) IS SHIPPED LOOSE IT MUST BE FIELD MOUNTED TO CHASE WALL AT A MIN HEIGHT OF 3" ABOVE TOILET RIM HEIGHT. INSTALL VENT TUBE TEE ASSEMBLY (9) TO FIXTURE VENT PORT TUBE (10).
- H. CONNECT 1/8" OD PE TUBING (11) FROM TEE (9) TO SENSOR SWITCH (5).

<p>ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200</p>	<p>TITLE MASTER-TROL FLUSH VALVE WITH ELECTRONIC FLOOD-TROL (-EVS-FTE)</p>		
	<p>MANUFACTURE DATE</p> <p>APRIL, 1998</p> <p>TO PRESENT</p>	<p>DATE ISSUED</p> <p>05/11/98</p>	<p>DRAWING NUMBER</p> <p>9905-317-003</p>
		<p>DATE REVISED</p> <p>03/21/25</p>	



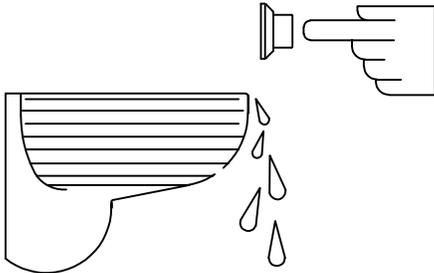
FLOOD-TROL (-FT & -FTA) ANTI-FLOOD SYSTEM VALVE

NORMAL VALVE OPERATION IS IN THE OPEN POSITION UNTIL TRIGGERED CLOSED WHEN A HIGH WATER LEVEL CONDITION IN THE TOILET BOWL IS PRESENT.

CONDITION:

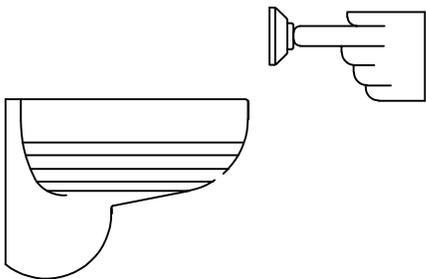
SOLUTION:

WATER KEEPS FLOWING IN AN OVERFLOW CONDITION:



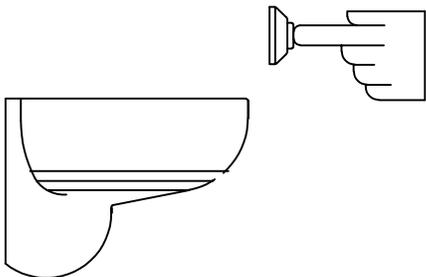
- 1.1 Check all tubing and fittings for leaks.
- 1.2 Check offset hole in lower diaphragm for debris.
- 1.3 Check valve body seat for build-up or damage.
- 1.4 Check pilot orifice plate for debris or damage.
- 1.5 Check float in float tank for freedom of movement (-FTA Auto-reset only).

NO WATER WILL FLOW: (TOILET WILL NOT FLUSH.)



- 2.1 Make sure all water supply stops are open.
- 2.2 Make sure the reset button has been pushed. (-FT Manual reset only).
- 2.3 Check toilet bowl sensor port fitting for debris.
- 2.4 Check center orifice hole in bonnet for debris.
- 2.5 Check pilot orifice (offset) hole in bonnet for debris.
- 2.6 Check flush valve for proper operation.
- 2.7 Check float tank & tubing for debris (-FTA Auto-reset).

PREMATURE WATER SHUTOFF:



- 3.1 Check toilet bowl sensor port fitting for debris.
- 3.2 Check for kinks in the plastic and copper tubing.
- 3.3 Float tank lid orifice clogged (-FTA Auto-reset only).
- 3.4 Check valve defective (-FTA Auto-reset only).

Refer to Acorn Operations And Maintenance Manual for the the following:
 Refer to drawing #9905-090-003 for (-FT) Flood-Trol Installation.
 Refer to drawing #9905-095-002 for (-FTA) Flood-Trol Auto-reset Installation.
 Refer to drawing #9955-010-002 for Parts breakdown of -FT & -FTA valves.
 Refer to drawing #9955-011-001 for Parts breakdown of -FTA valve assembly.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	TITLE FLOOD-TROL ANTI-FLOOD DEVICE MAINTENANCE INSTRUCTIONS (-FT & -FTA)	
	MANUFACTURE DATE JANUARY 1986 TO PRESENT	DATE ISSUED 10-1-93 DATE REVISED 03/09/09