

NOTE: NO PIPE DOPE OR TEFLON TAPE REQUIRED. DO NOT OVERTIGHTEN.

REFERENCE DRAWINGS	
FLOOD-TROL VALVE	9955-010-002
MAINTENANCE INSTR.	9940-035-001

INSTALLATION INSTRUCTIONS:

- A- INSTALL ACORN FIXTURE, FACTORY PRE-PIPED FOR OPTIONAL (-FT) FLOOD-TROL PER APPLICABLE PRODUCT INSTALLATION INSTRUCTIONS.
- B- POSITION SEALING GASKET ① ON BOTTOM OF FLUSH VALVE AND INSTALL FLOOD-TROL VALVE BODY ② (NOTE: ARROW ON FLOOD-TROL BODY ② MUST POINT DOWN). POSITION GASKET ③ BELOW FLOOD-TROL BODY. SECURE FLOOD-TROL BODY FACING OUT OR IN A MANNER THAT WOULD FACILITATE FUTURE SERVICING AND MAINTENANCE. DO NOT BLOCK. INSTALL VACUUM BREAKER TUBING ④ TO BOTTOM OF FLOOD-TROL VALVE ②. BE AWARE THAT WHEN USING A FLUSH VALVE NOT ORDERED FROM ACORN THE VACUUM BREAKER TUBE MUST BE 4-5/8" SHORTER THAN STANDARD. INLET SIDE OF FLOOD-TROL VALVE ② HAS LEFT HANDED THREADS.
- C- COMPLETE REMAINDER OF FLUSH VALVE INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.
- D- CONNECT 1/4" O.D. VACUUM GENERATOR TUBING ⑤ TO 1/4" COPPER TUBING STUB-OUT ⑥ (TUBING STUB-OUT ⑥ IS TAGGED WITH RED TAPE ⑦) WITH COMPRESSION ADAPTER ⑧ AT FIXTURE AND TO TEE FITTING ⑨ AT FLOOD-TROL VALVE ② AS SHOWN (CONNECTIONS TO TEE FITTING ARE INTERCHANGEABLE). NOTE: ADAPTER ⑧ MUST BE INSTALLED WITH METAL FERRULE GRIPPER ON COPPER TUBE SIDE.

NOTE: MINIMUM 30 PSI FLOW PRESSURE REQUIRED. FLUSH ALL LINES PRIOR TO INSTALLATION. FOR MAINTENANCE, INSTRUCTIONS REFER TO DRAWING #9940-035-001.

- E- ASSEMBLE 1/4" OD x 7 FEET POLYETHYLENE LEVEL SENSOR TUBING ⑩ TO 1/4" OD COPPER TUBING STUB-OUT ⑪ USING 1/4" COMPRESSION CONNECTOR ⑫ AS SHOWN. VERTICALLY LOOP TUBING ⑩ A MINIMUM OF 24" ABOVE TEE ⑨ AND COMPLETE CONNECTION TO TEE FITTING ⑨.
- F- AFTER FLOOD-TROL VALVE HAS BEEN ACTIVATED DUE TO TOILET OVERFLOW CONDITION, THE WATER LEVEL IN TOILET MUST BE RETURNED TO NORMAL AND RESET SWITCH ⑬ MUST BE DEPRESSED TO RETURN VALVE TO OPEN CONDITION. FLUSH & RESET REPEATEDLY UNTIL VACUUM LINES ARE CLEAR OF WATER THAT CAUSED ACTIVATION.



ACORN ENGINEERING COMPANY
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TITLE

SUFFIX (-FT) IN-LINE FLOOD-TROL ASSEMBLY - MANUAL RESET

MANUFACTURE DATE

**FEBRUARY 1994
TO PRESENT**

DATE ISSUED

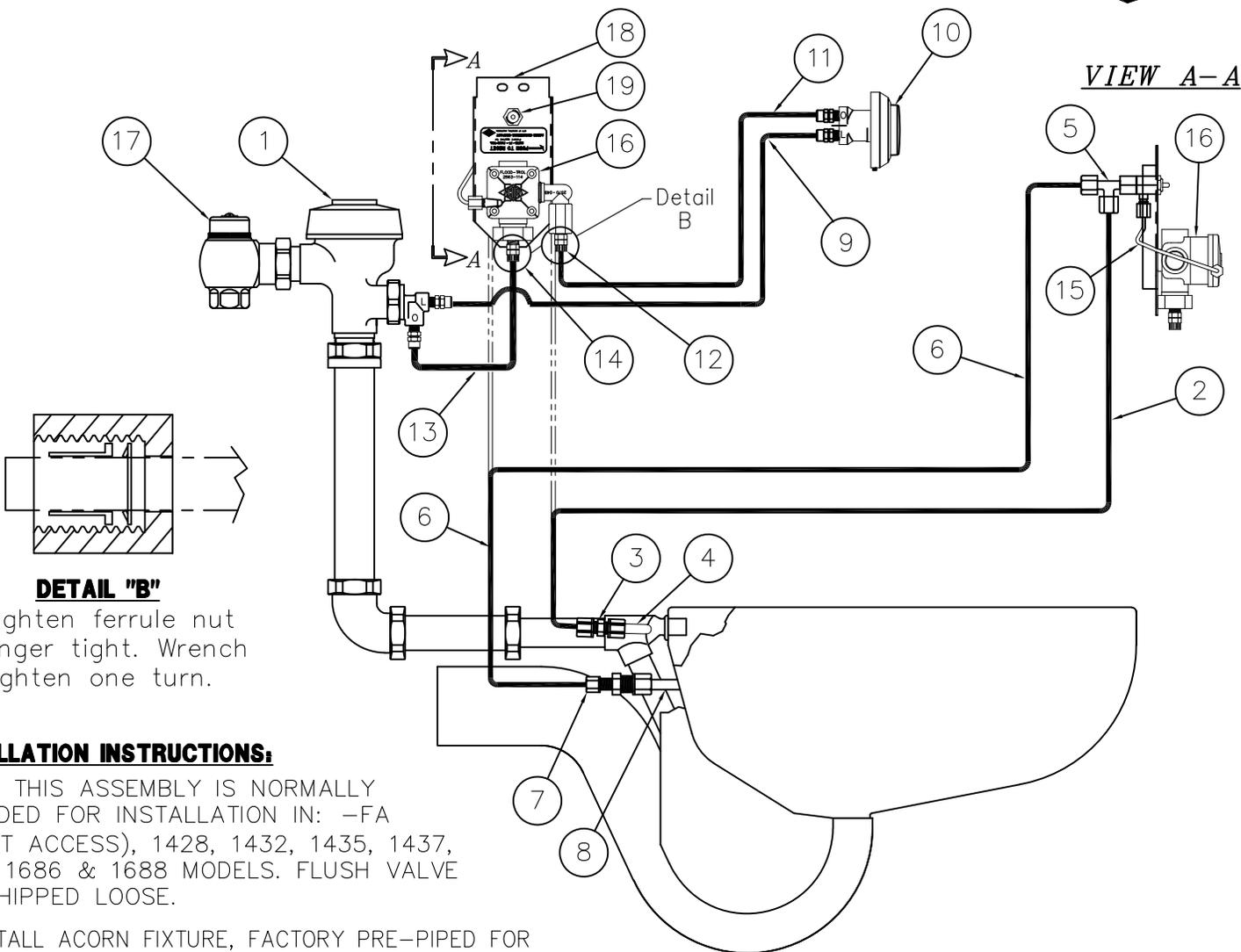
02/15/94

DATE REVISED

12/04/17 B

DRAWING NUMBER

9905-090-003



DETAIL "B"

Tighten ferrule nut finger tight. Wrench tighten one turn.

INSTALLATION INSTRUCTIONS:

NOTE: THIS ASSEMBLY IS NORMALLY PROVIDED FOR INSTALLATION IN: -FA (FRONT ACCESS), 1428, 1432, 1435, 1437, 1685, 1686 & 1688 MODELS. FLUSH VALVE ① SHIPPED LOOSE.

A-INSTALL ACORN FIXTURE, FACTORY PRE-PIPED FOR FLOOD-TROL (-FT) PER APPLICABLE PRODUCT INSTALLATION INSTRUCTIONS.

B-CONNECT 1/4" TUBING ② TO 1/4" COMPRESSION FITTING ③ FROM THE VACUUM GENERATOR ④ TO RESET BUTTON FITTING ⑤. ASSEMBLE LEVEL SENSOR TUBE BY CONNECTING 1/4" TUBING ⑥ TO RESET BUTTON FITTING ⑤. ATTACH OTHER SIDE OF 1/4" TUBING ⑥ TO 1/4" x 3/8" COMPRESSION FITTING ADAPTER ⑦. CONNECT TO LEVEL SENSOR ⑧.

C-INSTALL 1/4" TUBING ⑨ FROM PUSHBUTTON ⑩ "L" PORT, TO FLUSH VALVE ① "L" PORT. CUT "O" LINE 1/4" TUBING ⑪ ATTACHED TO PUSHBUTTON ⑩ IN HALF. ATTACH TUBING ⑪ TO FLOOD-TROL VALVE ELBOW ⑫. SEE DETAIL "B". CONNECT REMAINING HALF OF TUBING ⑬ FROM FLOOD-TROL VALVE INLET ⑭ TO FLUSH VALVE ① "O" PORT. SEE DETAIL "B".

REFERENCE DRAWINGS	
-FT FLOOD-TROL	9955-013-003

D-CONNECT 1/8" LINE ⑮ FROM FLOOD-TROL VALVE ⑯ TO RESET BUTTON ⑤.

E-AFTER THOROUGHLY FLUSHING THE SUPPLY LINES, MAKE UP SUPPLY CONNECTIONS ⑰ (1" NPT FEMALE).

F-ANCHOR VALVE MOUNTING BRACKET PLATE ⑱ TO WALL WITH FLOOD-TROL VALVE ⑯ AND RESET BUTTON ⑤ MOUNTED TO PLATE. WALL ANCHORS BY OTHERS.

NOTE: RECOMMENDED WORKING WATER PRESSURE IS 25/100 PSI.

WARNING: PRIOR TO MAKING INSTALLATION, SUPPLY LINES MUST BE FLUSHED OF ALL FOREIGN MATERIAL SUCH AS PIPE DOPE, CHIPS, SOLDER, ETC. VALVE MUST BE DRAINED PRIOR TO BEING SUBJECTED TO FREEZING TEMPERATURES.

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TITLE		
HYDRAULIC FLOOD-TROL (MANUAL RESET) -FT		
MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
JANUARY 1996	11/30/10	9905-093-002
TO PRESENT	DATE REVISED	
	05/20/16	



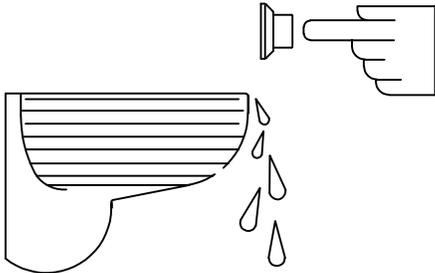
FLOOD-TROL (-FT & -FTA) ANTI-FLOOD SYSTEM VALVE

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

CONDITION:

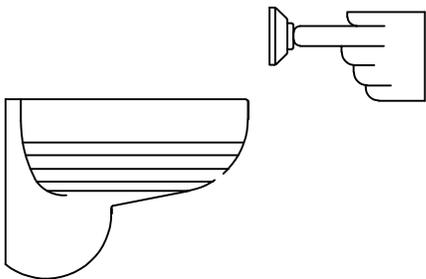
SOLUTION:

WATER KEEPS FLOWING IN AN OVERFLOW CONDITION:



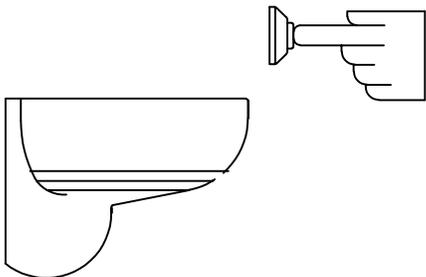
- 1.1 Check all tubing and fittings for leaks.
- 1.2 Check offset hole in lower diaphragm for debris.
- 1.3 Check valve body seat for build-up or damage.
- 1.4 Check pilot orifice plate for debris or damage.
- 1.5 Check float in float tank for freedom of movement (-FTA Auto-reset only).

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