

SERVICING CONTROL SECTION

SERVICE KIT #7334-19 IS REQUIRED. REPLACE ALL APPLICABLE PARTS WITH REPLACEMENTS (KIT CONTAINS THOSE PARTS MARKED WITH (●)). ALL OTHER PARTS MUST BE ORDERED SEPARATELY WHEN REPLACEMENT IS REQUIRED. SERVICE PRECAUTIONS -- CLEAN PORTS, VALVE SEAT AND AIR PASSAGES USING SOLVENT OR DETERGENT AND WATER. DRY WITH CLEAN COMPRESSED AIR.

OPTIONAL (NOT RECOMMENDED AS PART OF NORMAL SERVICE) USING A WRENCH, UNTHREAD CONNECTOR FROM BODY SECTION. REMOVE O-RING FROM CONNECTOR STEM.

- 5 REMOVE SMALL O-RING FROM BOLT CIRCLE OF BODY SECTION. GENTLY GRIP AND UNSEAT ORIFICE ASSEMBLY (#4527-2) BY ROTATING WHILE PULLING UPWARD. (SMALL PLIERS MAY BE REQUIRED, BUT APPLY ONLY LIGHT PRESSURE SO AS TO PROTECT DELICATE JEWEL WITHIN ORIFICE.)

- 4 REMOVE INTEGRAL VALVE FROM INLET DOME USING THE TOOL SUPPLIED IN REPLACEMENT VALVE KIT (#3257-1) CONTAINED IN SERVICE KIT #7334-19.

- 3 REMOVE DIFFERENTIAL DIAPHRAGM ASSEMBLY (#4508-6) FROM INLET DOME. REMOVE DIFFERENTIAL SPRING (#6927-7) FROM CENTER POCKET OF BODY SECTION.

- 2 SEPARATE BODY SECTION FROM INLET DOME -- GENTLY TAP THE SEAM WITH A Mallet AND WEDGE UNTIL SEPARATION OCCURS (CAUTION: DO NOT LOSE OR DAMAGE THE FLOW CONTROL ORIFICE LOCATED IN THE BOLT CIRCLE OF BODY SECTION).

- 1 REMOVE THE 8 COUNTER-SUNK SOCKET-HEAD CAP SCREWS (#9172S-10) FROM THE INLET DOME.

IF MOUNTING BRACKET IS ATTACHED TO UNIT, REMOVE BRACKET. IF FILTER IS MOUNTED TO UNIT, REMOVE 4 SOCKET-HEAD CAP SCREWS AND DETACH FILTER. PLACE UNIT WITH INLET DOME FACING UP.

DISASSEMBLY

REPLACEMENT

1. MAKE SURE THERE IS NO DIRT WHERE FILTER PLUGS INTO INLET DOME.
2. TAKE NEW O-RINGS FROM SERVICE KIT (#7333-10) AND LIGHTLY GREASE WITH SILICONE-BASED LUBRICANT.
3. SLIP SMALL O-RING (#6495-5) OVER PROTRUDING TIP OF FILTER AND INSERT LARGE O-RING (#6495-226) INTO GROOVED RING.
4. GENTLY INSERT FILTER BY TWISTING UPWARDS BEING SURE LARGE O-RING REMAINS IN GROOVE.
5. ALIGN SCREW HOLES (WITH LABEL IN FRONT), INSERT AND TIGHTEN SOCKET-HEAD CAP SCREWS (#3028S-5) WITH MEDIUM TORQUE.

PRELIMINARY SERVICE INSTRUCTIONS

IT IS RECOMMENDED THAT A CLEAN AND DRY WORK STATION BE AVAILABLE FOR SERVICING THE UNIT (FILTER MAY BE RE-PLACED IN MOUNTING LOCATION). SOCKET-HEAD SCREW WRENCHES (ALLEN TYPE) OF THE FOLLOWING SIZES ARE REQUIRED -- 3/16", 5/32" AND 9/64". A Mallet AND SMALL WEDGE MAY BE NECESSARY TO SEPARATE SOME BODY SECTIONS.

DO NOT USE PROBES OR WIRE BRUSHES TO CLEAN INTERNAL SURFACES. EXERCISE CAUTION WHEN USING PLIERS TO REMOVE FLOW CONTROL ORIFICES. ORIFICE CONTAINS DELICATE JEWEL WHICH MAY BE DAMAGED BY EXCESSIVE FORCE. ALSO, INSPECT O-RINGS UPON REMOVAL.

CONTROL UNIT CONTAINS MANY SMALL PARTS, OF WHICH PROPER INSTALLATION IS NECESSARY FOR ACCURATE OPERATION. "ALIGNING MARKS" ARE PROVIDED (SEE FIGURE AT RIGHT) FOR CORRECT ORIENTATION OF BODY SECTIONS DURING ASSEMBLY. FOLLOW INSTRUCTIONS CAREFULLY.

BEFORE ANY SERVICE IS STARTED

1. TANK LIQUID MUST BE AT A LEVEL BELOW TANK TOP AND ANY RISER PIPE.
2. TURN OFF AIR SUPPLY TO CONTROL UNIT.
3. FOR EASE OF RE-INSTALLATION LABEL INDIVIDUAL TUBES WITH CORRESPONDING PORT CONNECTION LETTER (DISCONNECT ALL JUBES AT CONTROL UNIT).
4. SEPARATE CONTROL UNIT FROM MOUNTING BRACKET BY REMOVING 4 SOCKET-HEAD CAP SCREWS LOCATED ON THE UNDERSIDE OF THE MOUNTING BRACKET. (THIS STEP IS NOT REQUIRED FOR FILTER REPLACEMENT.)

SERVICE DRAWING — ASSEMBLY AND DISASSEMBLY INSTRUCTIONS

MODEL 780
SAFEGARD PURGE CONTROL OR PURGE CONTROL (WITHOUT SAFEGARD)

B	5-24-84	ADDED SER.# G-2180
A	7-10-79	RELEASED



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ASSEMBLY

PLACE UNIT SO DEEP CENTER POCKET IN BODY SECTION IS FACE UP WITH ALIGNING MARK (SEE "PRELIMINARY SERVICE INSTRUCTIONS") AT REAR.

- 1 INSPECT ORIFICE ASSEMBLY (#4527-2) TO BE SURE O-RINGS ARE FREE OF CUTS OR NICKS. CAREFULLY GREASE ONLY THE O-RINGS WITH SILICONE-BASED LUBRICANT -- DO NOT PLUG ORIFICE.

- 2 INSTALL ORIFICE ASSEMBLY INTO DEEPER OF THE TWO RECESSED POCKETS IN BOLT CIRCLE OF BODY SECTION. LARGER DIAMETER END OF ORIFICE ASSEMBLY SEATS IN POCKET. INSTALL SMALL O-RING (#6495-559) INTO OPPOSITE POCKET.

- 3 PLACE DIFFERENTIAL SPRING (#6927-7) IN THE DEEP CENTER POCKET OF BODY SECTION. POSITION DIAPHRAGM ASSEMBLY (#4508-6) OVER SPRING WITH FLAT HEAD OF RIVET FACING UP.

- 4 SUBASSEMBLY: INSTALL INTEGRAL VALVE INTO INLET DOME. VALVE TOOL IS SUPPLIED IN REPLACEMENT VALVE KIT. DO NOT OVERTIGHTEN VALVE OR DISTORTION WILL OCCUR, RESULTING IN POSSIBLE MALFUNCTIONING OF VALVE.

- 5 POSITION INLET DOME, WITH VALVE FACING DOWN, ON TOP OF DIAPHRAGM ASSEMBLY. ALIGNING MARK MUST BE ALIGNED WITH MARK ON BODY SECTION. (REFER TO "PRELIMINARY SERVICE INSTRUCTIONS").

- 6 INSERT 8 SOCKET-HEAD CAP SCREWS (#9172S-10) AND FINGER-TIGHTEN SCREWS.

- 7 USING A SEQUENCE OF EVERY OTHER SCREW, PROCEED AROUND BOLT CIRCLE AND TIGHTEN WITH ALLEN HEAD WRENCH, USING MEDIUM TORQUE.

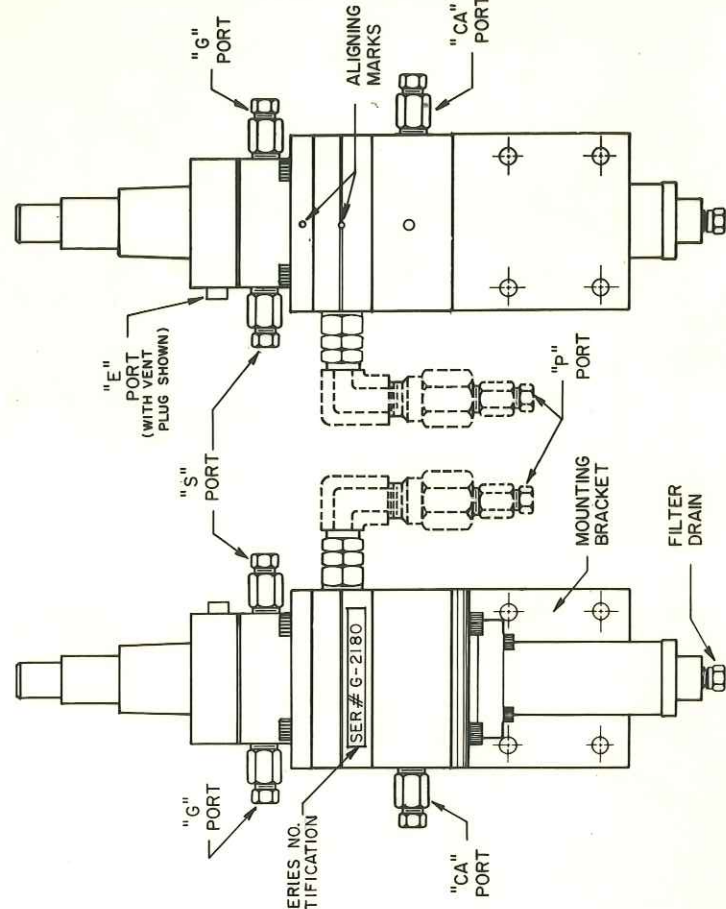
SERVICING FILTER SECTION

REQUIRES FILTER REPLACEMENT KIT #7333-10. REPLACE ALL APPLICABLE PARTS WITH REPLACEMENTS FROM KIT (INDICATED BY (■)).

UNDER NORMAL CONDITIONS REPLACEMENT IS RECOMMENDED EVERY 12 MONTHS.

REMOVAL

REMOVE 4 SOCKET-HEAD CAP SCREWS (#3028S-5) AND REMOVE FILTER BY TWISTING OUTWARD.



FRONT VIEW

REAR VIEW