McCann's
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# BOOSTER SURGE TANK INSTALLATION INSTRUCTIONS

## INSTRUCTIONS:

NOTE: INCLUDED WITH THE SURGE TANK ASSY ARE 25 FT OF BRAIDED HOSE AND 4 CLAMPS. THIS WILL BE USED TO CONNECT THE SURGE TANK TO A WATER FILTER.

1. LOCATE BOOSTER SURGE TANK NEAR ACCESSIBLE POTABLE WATER SUPPLY THAT IS CAPABLE OF SUPPLYING A 100 GALLON PER HOUR PUMP.
2. THE WATER SUPPLY LINE TO THE BOOSTER SURGE TANK MUST BE A MINIMUM 3/8 ID.
3. LOCATE THE BOOSTER SURGE TANK WITHIN 3 FEET OF A PROPERLY RATED ELECTRICAL SUPPLY. THE POWER RATING FOR THE BOOSTER SURGE TANK IS LOCATED ON THE MOTOR ID PLATE.
4. BEFORE INSTALLING THE WATER SUPPLY LINE TO BOOSTER SURGE TANK, OPEN THE WATER SUPPLY VALVE TO FLUSH OUT ANY DEBRIS THAT MAY HAVE ACCUMULATED IN THE SYSTEM.
5. MAKE SURE SURGE TANK ASSY IS POSITIONED AND MOUNTED IN PLACE.
6. NOTE: THE WATER BOOSTER IS FACTORY PRESET TO TURN ON AT 80 PSI AND TURN OFF AT 100 PSI.
7. CONNECT THE BRAIDED HOSE (APPROX 12 FT)FROM THE BOOSTER TANK MANIFOLD (THE MANIFOLD WHICH THE PUMP FEEDS TO) TO THE INLET OF THE WATER FILTER. (NOTE: BRAIDED TUBING IS 1/2" ID) CLAMP THE BRAIDED HOSE ONTO THE FITTING USING ONE OF THE SUPPLIED CLAMPS. (NOTE: A BARB FITTING ON THE WATER FILTER IS ACCEPTABLE).
8. CONNECT THE BRAIDED HOSE (APPROX 12 FT) FROM THE SURGE TANK MANIFOLD (TANK ON THE LEFT) TO THE OULET SIDE OF THE WATER FILTER. CLAMP THE BRAIDED HOSE ONTO THE FITTING USING ONE OF THE SUPPLIED CLAMPS.
9. THE 4 STATION MANIFOLD OUTLET CAN NOW BE PLUMBED ACCORDINGLY.
10. START UP PROCEDURE
    - TURN ON THE WATER SUPPLY TO THE BOOSTER SURGE TANK.
    - PLUG THE BOOSTER SURGE TANK INTO THE ELECTRICAL SUPPLY OUTLET.
    - OPERATE A NON CARB DISPENSING VALVE LOCATED ON THE DISPENSER THAT IS SUPPLIED BY THE BOOSTER SURGE TANK TO CYCLE THE BOOSTER TO CLEAR ANY GAPS IN THE LINES. THE APPROXIMATE CYCLE TIME IS ABOUT 15 SECONDS. THE BOOSTER SURGE TANK IS FACTORY PRESET TO TURN ON AT 80 PSI AND TURN OFF AT 100 PSI.
    - INSPECT THE INSTALLATION TO VERIFY THAT ALL OF THE OETIKER CLAMPS AND FLARE FITTINGS ARE CRIMPED AND THAT THERE ARE NO LEAKS.
11. THE MOTOR CORD IS EQUIPPED WITH A 3 PRONG ELECTRICAL PLUG. TO INSURE BOTH THE SAFETY AND PROPER OPERATION OF THIS EQUIPMENT, BE CERTAIN THAT THE ELECTRICAL RECEPTACLE IS A PROPER DESIGN SO AS TO ACCEPT THIS PLUG ASSURING THAT THE BOOSTER SURGE TANK ASSEMBLY IS PROPERLY GROUNDED.

    IF THE BOOSTER SURGE TANK ASSEMBLY IS TO BE INSTALLED IN AN AREA, OR COMMUNITY WHOSE LOCAL CODE REQUIRES PERMANENT WIRING, THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED:

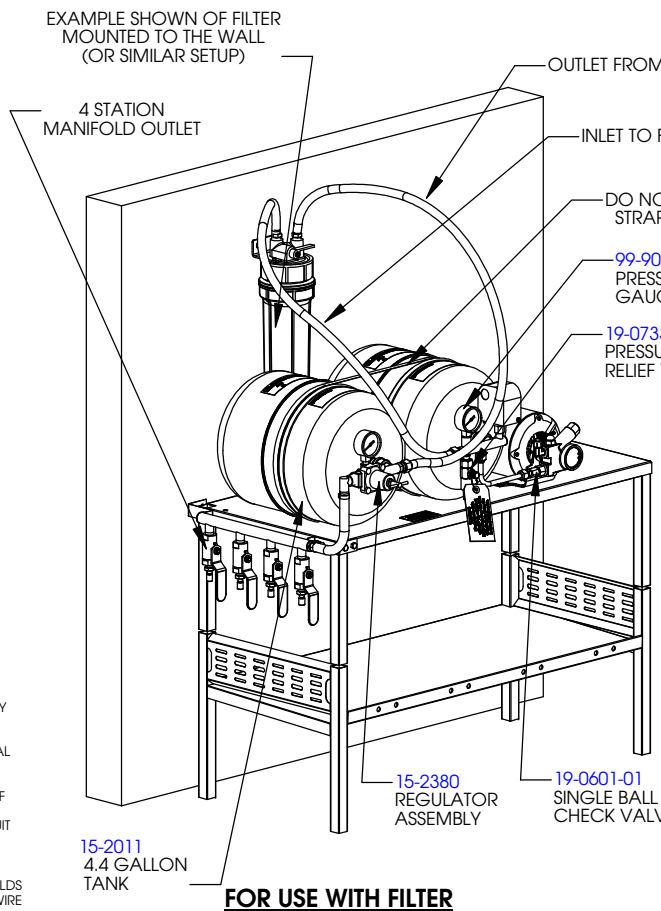
    A. REMOVE KNOCK OUT COVER DISC FROM TOP OF MOTOR AND THE COVER PLATE ON REAR OF MOTOR. REPLACE IT WITH A CONDUIT CONNECTOR THAT SHOULD BE FIRMLY SCREWED INTO THE MOTOR. THE THREE WIRES (WHITE, BLACK & GREEN) SHOULD BE FED THROUGH THE CONDUIT AND BROUGHT INTO THE WIRING COMPARTMENT OF THE MOTOR. THE CONDUIT MAY NOW BE INSERTED INTO THE CONNECTOR AND SECURED.

    B. THE GREEN WIRE FROM THE CONDUIT SHOULD BE CONNECTED TO THE GREEN SCREW THAT HOLDS DOWN THE COVER PLATE. BE SURE TO USE A RING TORQUE TERMINAL FOR CONNECTING THE WIRE TO THE SCREW.

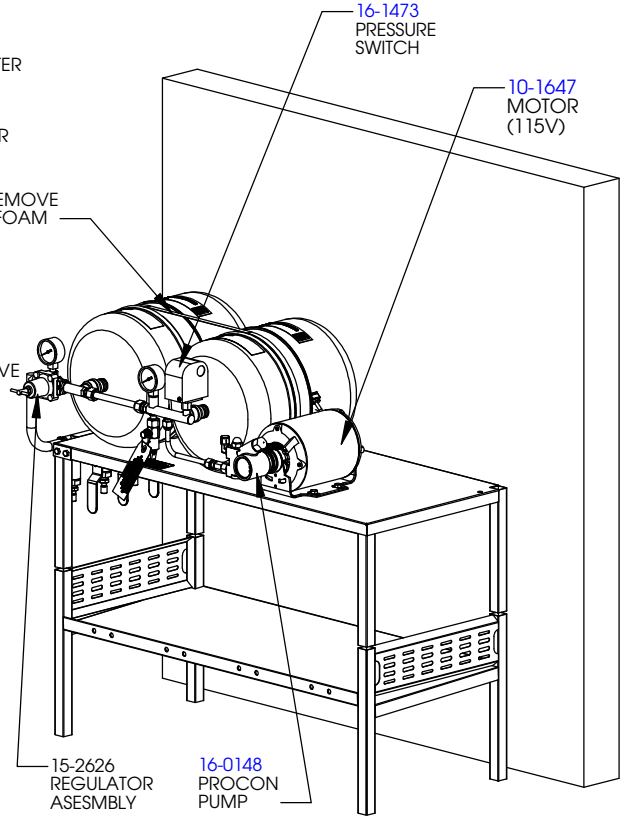
    C. THE WHITE WIRE FROM THE CONDUIT AND THE WHITE WIRE FROM THE FLEXIBLE CORD GOING TO THE BOOSTER SURGE TANK SHOULD BE JOINED TOGETHER BY A SUITABLE U.L. LISTED INSULATED TWISTED ON PRESSURE CABLE CONNECTOR.

    D. THERE ARE TWO THREADED ELECTRICAL STUDS IN THE WIRING COMPARTMENT OF THE MOTOR. ONE POST HAS THE BLACK LEAD FROM THE ELECTRICAL CORD TO THE BOOSTER SURGE TANK CONNECTED TO IT. THE POST WILL BE USED TO CONNECT THE BLACK WIRE FROM THE CONDUIT. HERE AGAIN, USE A RING TORQUE TERMINAL AND SECURE IT TO THE STUD WITH A HEX NUT.

IF ABOVE CONDITIONS HAVE BEEN MET, THE POWER MAY BE TURNED ON (IF ELECTRIC CORD OPERATED, THEN INSERT PLUG IN RECEPTACLE - IF PERMANENT WIRING INSTALLATION, POWER SWITCH OR BREAKER MAY THROWN TO THE ON POSITION).




**FOR USE WITH FILTER**




**FOR USE WITHOUT FILTER**

## EXAMPLE SHOWN

**RECOMMENDED SPARE PARTS**

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|---|---|
| 16-0148 PROCON PUMP | 15-2011 4.4 GALLON TANK |
| 10-1647 MOTOR (115V) | 19-0601-01 SINGLE BALL CHECK VALVE, SS |
| 16-1473 PRESSURE SWITCH | 19-0733-02 PRESSURE RELIEF VALVE, 180 PSI |
| 99-9071 PRESSURE GAUGE | 15-2380 REGULATOR ASSEMBLY |

**BOOSTER SURGE TANK INSTALLATION/INSTRUCTIONS 17-5155 REV B**