



HOSHIZAKI AMERICA, INC.

SERVICE BULLETIN

SB98-0010R

November 30, 1998

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Subject: CORRECT PROCEDURES FOR INSTALLING HEADMASTER CONTROLS.

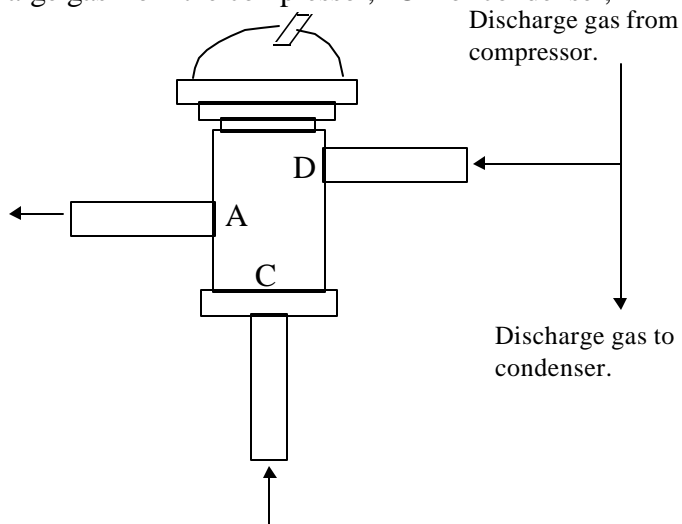
This service bulletin will cover the correct removal and re-installation of headmaster controls. If a headmaster is deemed faulty follow these steps.

1. Reclaim the total refrigerant charge from the machine through the schrader ports provided. To speed this process, recover from more than one port and use a 115 volt pigtail to energize the liquid line valve solenoid during recovery.
2. Cut the stub on the top of the dome of the headmaster valve. This it will allow the inert gas charge to release from the dome.
3. Remove the bad valve. Either un-sweat or cut the headmaster as close to the joints as possible.

To replacement follow these steps:

1. Check the application chart to be certain that the correct headmaster is used.
2. When reinstalling make sure that the headmaster is in the correct position. Hoshizaki uses only Sporlan headmasters valves at this time. Some older units may have Fujikoki valves. The replacement valve ordered from Hoshizaki will be Sporlan and may require some piping modifications. If modifications are needed, pay close attention to the markings on the Sporlan valve to be certain that the piping is correct. The new valve is marked as follows; "D" for discharge gas from the compressor, "C" for condenser, and "R" for receiver.

NOTE: If the valve is placed in the machine incorrectly the machine will have high head pressure and will probably shut down on the high-pressure switch.



3. When sweating in the new valve it is important to keep the dome and the body of the new valve from overheating. Use a heat sink paste or place a wet towel on the dome and valve body while sweating the joints. There are two reasons for this, the first is for safety, if the dome overheats it could explode, and second the internal parts could become defective.
4. Next, pressurize the system and check for leaks.
5. The final step is to evacuate the system and recharge to factory specifications with the correct type of refrigerant. This is best done by WEIGHING the charge back in. The correct charge type and amount is listed on the unit nameplate.

R-502 & R-22 models:

CONDENSER MODEL	PART NUMBER	MANUFACTURER	MFG # / SETTING
URC-6E	4A0229-01	Sporlan	LAC-4 / 190 lb.
URC-12E	4A0229-01	Sporlan	LAC-4 / 190 lb
URC-20E	4A0229-02	Sporlan	LAC-4 / 156 lb
KM-2400SRB3	443522-01	Sporlan	LAC-5 / 140 lb

Note: The KM-2400SRB3 headmaster is located in the machine not in the condenser. Also note that if changing a headmaster on a URC-20E the LAC-4 190 lb. headmaster can be used with a small reduction in production.

R-404A models:

CONDENSER MODEL	PART NUMBER	MANUFACTURER	MFG # / SETTING
URC-6F	4A0229-03	Sporlan	LAC-4 210 lb
URC-12F	4A0229-03	Sporlan	LAC-4 210 lb
URC-20F	4A0229-03	Sporlan	LAC-4 210 lb
KM-2400SRF3	N/A	N/A	N/A

NOTE: Due to the higher operating pressures of the R-404A refrigerant, the pressure setting of the headmaster increased to 210 PSIG.

On machines that will be placed on NON-OEM condensers (multi-pass condenser coils), the Selling dealer must submit a NON-OEM condenser approval form for approval by the Technical Support Department. This approval validates the customer's warranty and provides a record for the warranty status. The information supplied on the form shows that the rack system or condenser application is compliant to our specifications. This form contains information such as the correct condenser sizing, adjustment of charge, and the correct headmaster to use for the application. Liquid from condenser.

To receive a NON-OEM condenser approval form or if further assistance is needed please contact
Technical Support at 1-800-233-1940.