WHITE-RODGERS

The "TOTAL CONCEPT" People

REPLACEMENT INSTRUCTIONS FOR VALVE HEADS, VALVE ASSEMBLIES AND WATER SEALS FOR 1300 SERIES WATER VALVES

REPLACING VALVE HEAD

The enclosed valve head may be used to replace the head on any 1300 Series Water Valve having a dash (—) number above 100 (Example, Type 1311-102). This head **cannot** be used on earlier model valves which have a dash number below 100 (Example, Type 1131-2).

NOTE: If the following instructions are carefully observed, the valve head may be replaced without draining the system.

1. Shut off power supply to burner, circulator, and the water valve being serviced.

   NOTE: Do not disengage any of the wires connected to the valve terminal panel at this time. Wait until the new head has been installed, then transfer the wires from the old head to the new one.(If the old head cannot be conveniently set aside while installing the new one, make provisions for holding it in place with a wire or other means.)

2. Free valve head from mounting plate by removing the two screws "B".

   CAUTION: Do NOT unlatch the mounting plate from the valve body as this permits the valve assembly to separate from the valve body and could result in scalding injuries and/or water damage. Simply remove the two screws "B".

   (If these screws cannot be reached with a screwdriver, use a 1/4" socket or end wrench.) Remove old valve head and set aside.

3. Remove screws "B" from new valve head. Then position new head in place, making sure that the yoke in the valve head fits into the two square holes on the manual operating wheel. (Rotating this wheel helps to line up these two parts.)

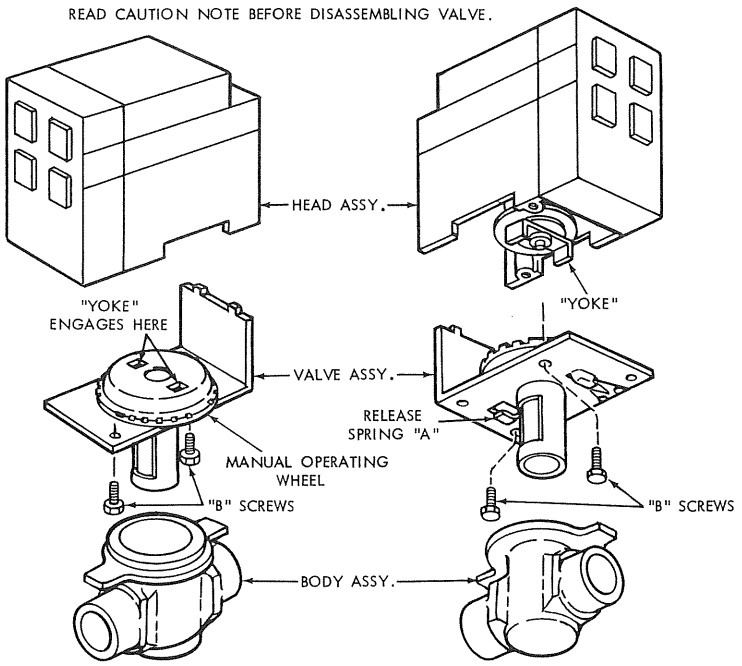

FIGURE 1

4. Secure head in place with screws "B", and transfer wires (one at a time) from the terminal panel of the old head to the new one.
5. With power restored to the burner, circulator, and water valve, the system should now be ready for use.

REPLACING VALVE ASSEMBLY

REMOVING VALVE HEAD FROM VALVE BODY:

1. Shut off power supply to burner, circulator, and water valve.
2. **Drain the system,** or that portion thereof containing the water valve being serviced.

   CAUTION: Failure to drain system could result in scalding injuries and/or water damage when valve head is removed.

3. Remove valve head (and attached valve assembly) by pushing in on release spring "A" and rotating valve head until it unlatches. Then lift valve head out of valve body.

REPLACING VALVE ASSEMBLY:

1. Remove old valve assembly from valve head by removing the two screws "B".
2. Position new valve assembly onto bottom of valve head, making sure that the yoke in valve head slips into the two square holes in the manual operating wheel. (Note: when power is restored, the valve will automatically cycle to the position called for by the thermostat.)
3. Tighten valve assembly to valve body with screws "B".

REASSEMBLING VALVE HEAD TO VALVE BODY:

1. Inspect the bore of the valve body mounted in the line. Brush out any dirt particles with your finger. Then wipe the bore clean with a soft cloth.
2. Also wipe off the valve stem with a soft cloth to remove any dust or grit.
3. Notice which way valve head has to be turned to latch it to valve body. Then insert valve stem into valve bore, push downward until plate of valve assembly fits snugly against valve body, and rotate valve head until it latches in place. (Be sure that release spring "A" securely latches. A "pinging" sound from the release spring indicates that secure latching has been made.

   CAUTION: Failure to securely latch valve head in body could allow valve head to separate from body and result in scalding injuries and/or water damage.

4. The valve should now be ready for use. Refill the system and restore power to burner, circulator, and water valve.

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REPLACING WATER SEALS

The enclosed water-seal replacement kit may be used for servicing any 1300 Series Water Valve having a dash (—) number above 100 (Example, Type 1311-102). It **cannot** be used on earlier model valves which have a dash number below 100 (Example, Type 1311-2). The kit contains one each of the following:

"Quad" ring

"O" ring

"Tru-Arch" ring and cotter pin

All of these parts should be used whenever any other part of the kit is being used. The proper procedure for using this kit is as follows:

REMOVING VALVE HEAD FROM VALVE BODY:

Follow procedures outlined under "Replacing Valve Assembly."

INSTALLING REPLACEMENT KIT

For Valves Date-Coded 163D Or Earlier:

("1" indicates the month; "63" the year; and "D" the week, as A, B, C, D, or E.)

1. Pull out cotter pin "K". (See Fig. 2) Then remove valve stem "J".
2. Remove "True-Arc" ring "I". With this ring removed, the rest of the parts shown in Fig. 2 may be disassembled.

CAUTION: When removing "O"-ring "G" and "Quad"-ring "E", make sure that the metal surfaces are not scratched.

3. After kit parts have been installed, reassemble the valve assembly in the order shown in Fig. 2.

For Valves Date-Coded 163E or Later:

(Current Date Code System is 7944 (YYWW).

1. Pull out cotter pin "M" (See Fig. 3). Then remove parts "L", "K", and "J".
2. Remove "Tru-Arc" ring "I". With this ring removed, the rest of the parts shown in Fig. 3 may be disassembled.

CAUTION: When removing "O"-ring "G" and "Quad"-ring "E", make sure that the metal surfaces are not scratched.

3. After kit parts have been installed reassemble the valve assembly in the order shown in Fig. 3. (Be sure plate "J" is installed as shown, with its curved surface up.)

REPLACE VALVE ASSEMBLY

Follow procedures outlined under "Replacing Valve Assembly."

ASSEMBLE VALVE HEAD TO VALVE BODY:

Follow procedures outlined under "Replacing Valve Assembly."

FIGURE 2

For Valves Date-Coded 163D or Earlier

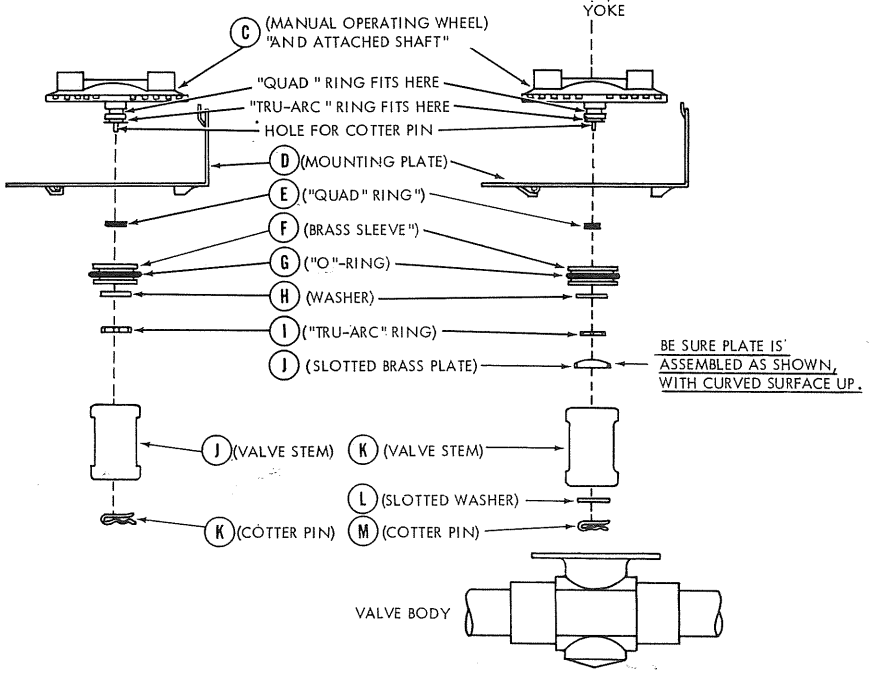

FIGURE 3

For Valves Date-Coded 163E or Later

CAUTION

Use only silicone grease, water, or soap suds on O-ring and Quad ring to facilitate assembly. Use of vaseline or any petroleum grease or oil will cause rings to deteriorate.