

CHECK VALVES REPLACEMENT KIT (P/N 7000170)

AFFECTED PRODUCTS:

DFW/DFWT-100/150 & MS-150/155/355

PARTS INCLUDED:

- 1 Check Valve - Discharge (P/N 4040108)
- 1 Check Valve - Intake (P/N 4040148)

TOOLS NEEDED: Flathead Screwdriver, Phillip Screwdriver, & Towels

Water Pump Check Valves Replacement

NOTE: Failure to install these check valves in their respective orientation will result in water pump malfunction or damage.

1. Turn Power switch OFF, unplug the power cord, & allow the unit to cool down.
2. Empty the water reservoir completely of all water.
3. Remove the three (3) service panel screws (Fig A) & carefully remove the service panel.

NOTE: DO NOT over extend the service panel as the rubber tubing is still connected to the reservoir tank.

4. Carefully disconnect the water pump 2 wires from their respective terminals. Cut necessary plastic zip ties as needed.

NOTE: Wire colors may be orange, or black & white.

5. Disconnect the Green chassis ground wire from the water pump body.
6. Loosen both metal clamps then remove the intake rubber hose at the water tank fitting (Fig B) and then remove the discharge rubber hose at the generator fitting (Fig C).

NOTE: Use a towel to absorb any residual water that may leak when hoses are disconnected.

7. Remove both water pump mounting bracket by removing the nuts.
8. Make a note of how the water pump's rubber hose are routed within the service compartment then completely remove the water pump assembly from the steamer and place it on a working surface.
9. Observe the arrow on the water pump (Fig D) that corresponds with the water flow.
10. Remove the black nipple on the intake side of the water pump (Fig E) by removing both screws. Carefully remove the old intake check valve & discard.



Figure A. Remove Screws



Figure B. Intake Rubber Hose (Tank)



Figure C. Discharge Rubber Hose



Figure D. Water Flow Arrow



Figure E. Black Nipple (Intake)

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11. Insert the new intake check valve (Cleared Colored one) with its stem facing into the black nipple (Fig F & G) & center it as shown.
12. Carefully reinstall the black nipple onto the water pump body and secure with the 2 screws by tightening each screw in alternating fashion until both snug.

NOTE: Verify the black nipple is flush against the water pump body.

13. Next, remove the black nipple on the discharge side of the water pump (Fig H) by removing both screws. Carefully remove the discharge check valve & discard.
14. Insert the new discharge check valve (White Colored one) with its stem facing into the water pump body (Fig I & J) & center it as shown.
15. Carefully reinstall the black nipple onto the water pump body and secure with the 2 screws by tightening each screw in alternating fashion until both snug.

NOTE: Verify the black nipple is flush against the water pump body.

16. Reinstall the water pump assembly making note of the water flow orientation & secure with mounting brackets.
17. Reinstall both intake & discharge rubber hoses to their respective fittings then tighten the metal clamps until snug.

NOTE: Ensure the metal spring within each rubber hose is coming in contact with the fitting (Figs B, C, E & H). This is necessary to prevent rubber hose kinks that will otherwise restrict the water flow. If necessary. Trim the rubber hose(s) ends.

18. Reinstall the water pump wires to their respective terminals then reinstall the green chassis ground wire & secure.
19. Reinstall the service panel & secure with the screws.
20. Refill the water tank with water.
21. Plug the power cord into the outlet, turn the power switch ON and preheat for 30 minutes.
22. Cycle the water pump several times to prime the water pump & purge any air.
23. Check the unit for proper operation & water leaks.



Figure F. Intake Check Valve Stem



Figure G. Intake Check Valve



Figure H. Black Nipple (Discharge)



Figure I. Discharge Check Valve Stem

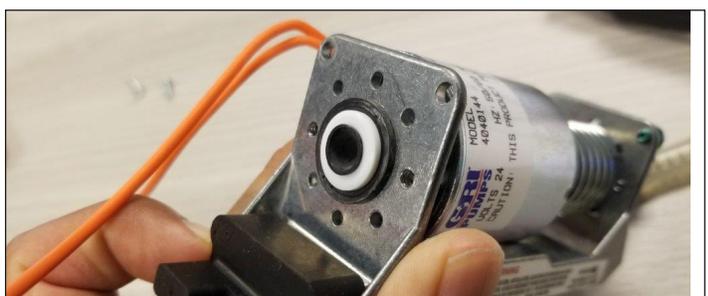


Figure J. Discharge Check Valve