

# NR501, NR662 Series Heat Exchanger Replacement

Model Include: NR501-OD, NR662-OD

This instructional manual is only intended for use by a qualified service professional or authorized Noritz Service Representative. Any unauthorized use of this manual may result in voiding the warranty.

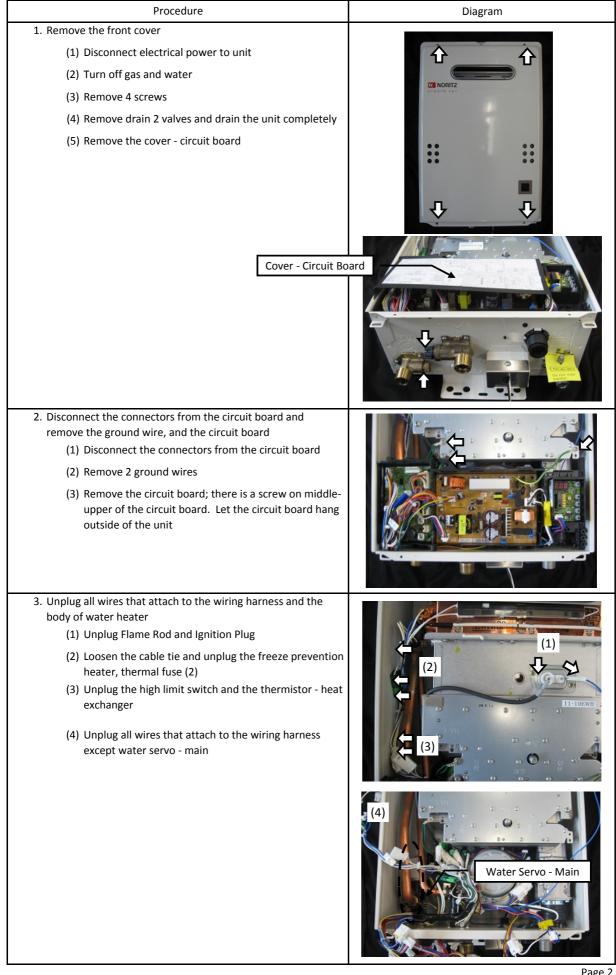
Please contact Noritz Technical Support (866-766-7489) for additional support.

# Noritz America Corporation

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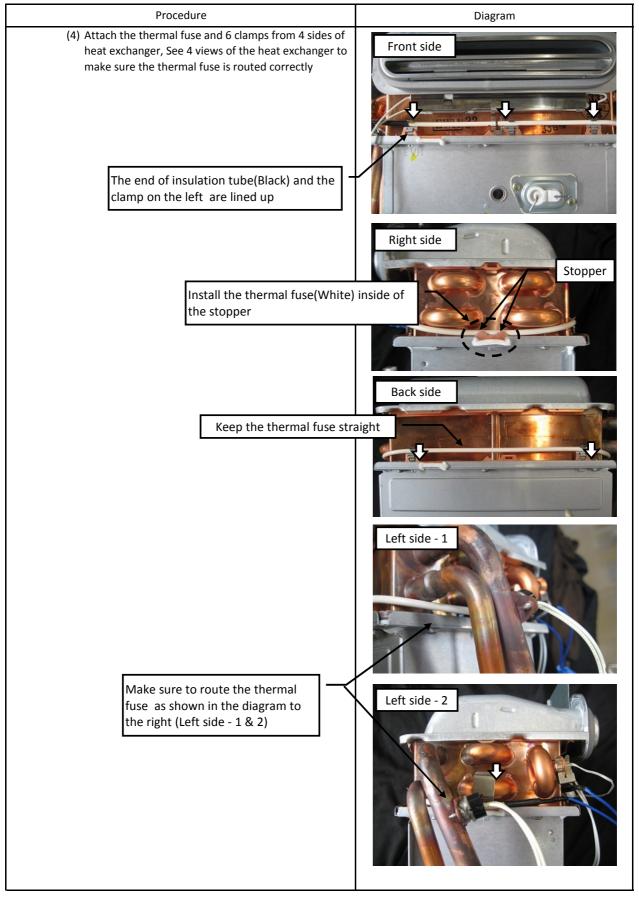
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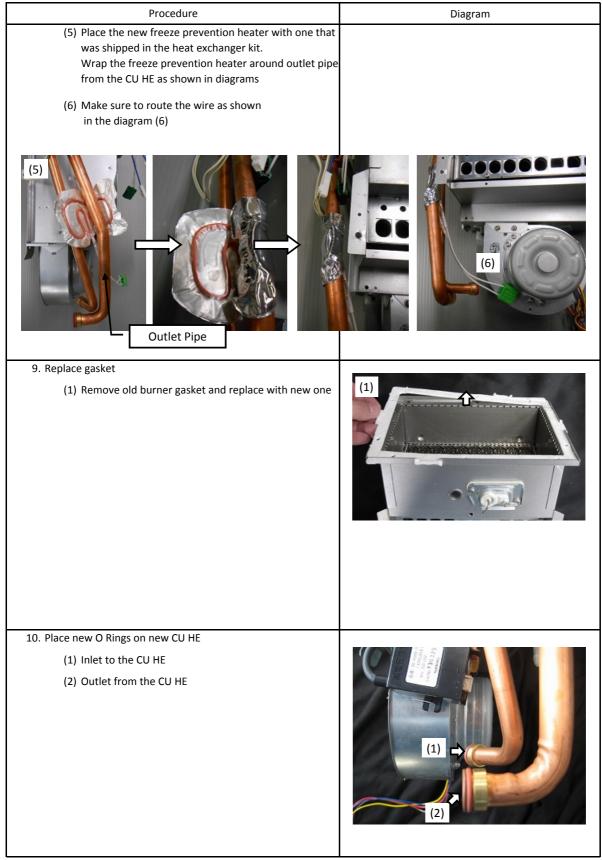
SKJ70NL Rev. 10/13



Procedure	Diagram
<ul> <li>4. Remove the manifold plate</li> <li>(1) Remove 3 big silver screws on the manifold plate that attach the manifold to the burner</li> <li>(2) Remove 2 smaller silver screws from the manifold plate that attach the manifold to the gas valve</li> <li>(3) Remove manifold plate and unplug the connector from gas solenoid valves (3)</li> </ul>	
<ul> <li>5. Disconnect pipes from the water flow sensor and the water servo - main</li> <li>(1) Remove "C" Clamp (3)</li> <li>(2) Remove the water flow sensor</li> </ul>	
	(2) Water Flow Sensor

Procedure	Diagram
<ul> <li>6. Remove the heat exchanger from the case <ul> <li>(1) Remove the 2 set screws on the bottom of the burner</li> <li>(2) Remove the 2 set screws on the top of the case (support bottom of the assembly)</li> <li>(3) Copper Heat Exchanger(CU HE), Burner, and Fan will come out in one section. Remove from the unit.</li> </ul> </li> </ul>	
<ul><li>7. Replacing the CU HE</li><li>(1) Remove 10 screws holding the burner to the CU HE</li><li>(2) Separate the burner from the CU HE</li></ul>	
<ul> <li>8. Remove heat exchanger components from old heat exchanger and put on new heat exchanger <ul> <li>(1) The gasket on the front of the exhaust box</li> <li>(2) Front side: Freeze prevention heater</li> <li>(3) Left side: High limit switch and thermistor - heat exchanger <ul> <li>*Replace new O Ring for the thermistor - heat exchanger</li> </ul> </li> </ul></li></ul>	





Procedure	Diagram
11. Reattach the burner and the CU HE	
(1) Attach 10 screws around perimeter of the burner and the CU HE	
<ul><li>12. Replace the assembly back inside the case</li><li>(1) Secure the 2 set screws on the bottom of the burner</li></ul>	(1)
(2) Secure the 2 set screws on the top of the case	
13. Reconnect water connections	
<ul> <li>(1) Maintain the high limit switch, the thermistor - heat exchanger, the thermal fuse, and the freeze prevention heater as shown in diagram (1)</li> <li>(2) Maintain wiring harness as shown in diagram (2)</li> <li>(3) Insert the outlet pipe to the water servo - main and attach "C" clamp Insert the water flow sensor to the inlet water connection and attach "C" clamp. And then insert the inlet pipe to the water flow sensor and attach "C" clamp.</li> </ul>	

Procedure	Diagram
<ul> <li>14. Replace the manifold plate <ol> <li>Plug the connector to gas solenoid valves (3) as right diagram</li> <li>Confirm that there is o-ring before replace the manifold plate</li> <li>Replace the 2 smaller silver screws from the manifold plate that attach the manifold to the gas valve</li> <li>Replace the 3 big silver screws on the manifold plate that attach the manifold to the burner</li> <li>Hand tighten 5 screws equally</li> </ol> </li> </ul>	<image/>
<ul> <li>15. Check for water leaks <ul> <li>(1) Replace drain 2 valves</li> <li>(2) Turn on cold water shut off valve slowly (check for leaks around "C" clamps)</li> <li>(3) If you get leaks shut off water and re-secure "C" Clamps</li> </ul> </li> </ul>	

