

Heat Exchanger Replacement

Model Include : NR83-DVC NR83DVC(GQ-2457WS-FFA US) NR83OD(GQ-2457WS US)

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.

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 Procedure

 1. Drain the unit as shown in following procedure

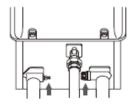
 Drain water into a bucket to prevent water damage.

 1. Close the gas valve.

 Image: Close the water supply valve.

 Image: Close the water

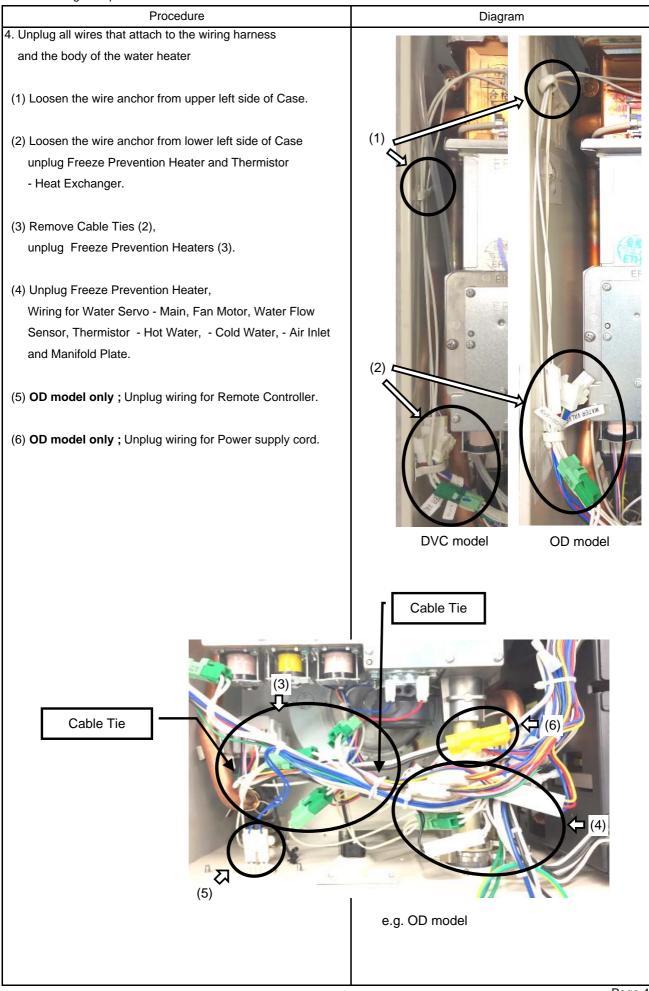
- 6. Turn the drain plug to the left to open, and then remove.
- Check that the water is completely drained, close all the drain plugs and the hot water fixtures after 10 minutes or more pass from operation of 6.



Drain Plugs

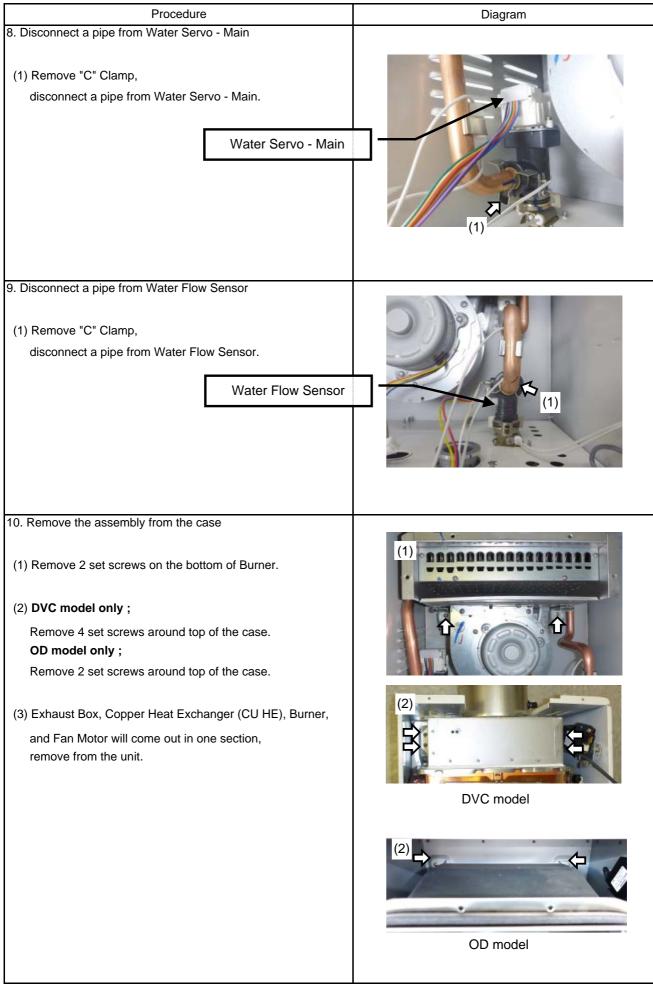
Each drain plug might not be visible if insulation is installed around the piping.

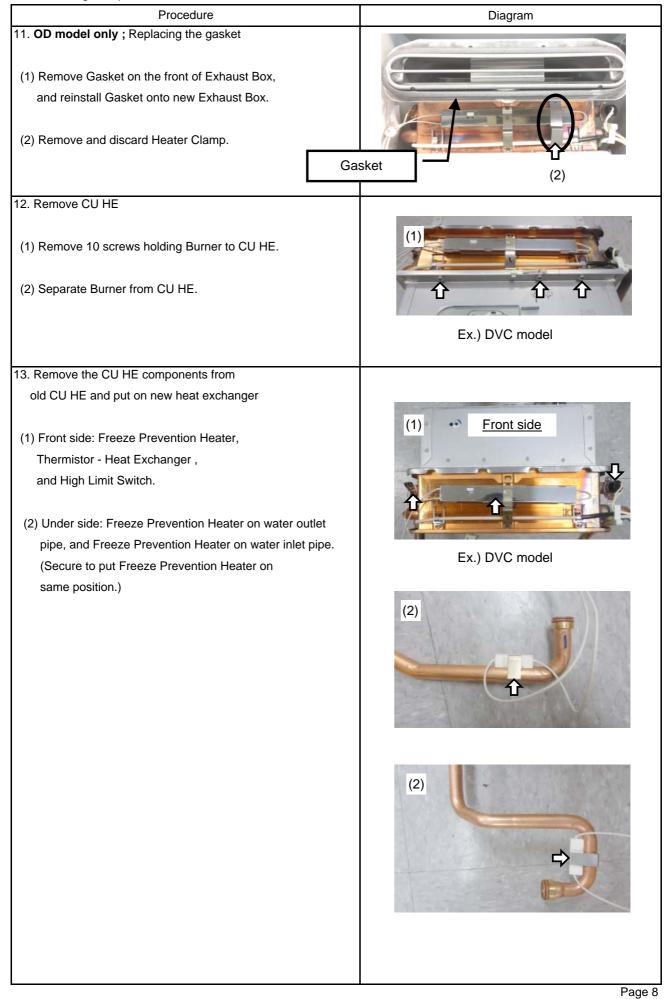


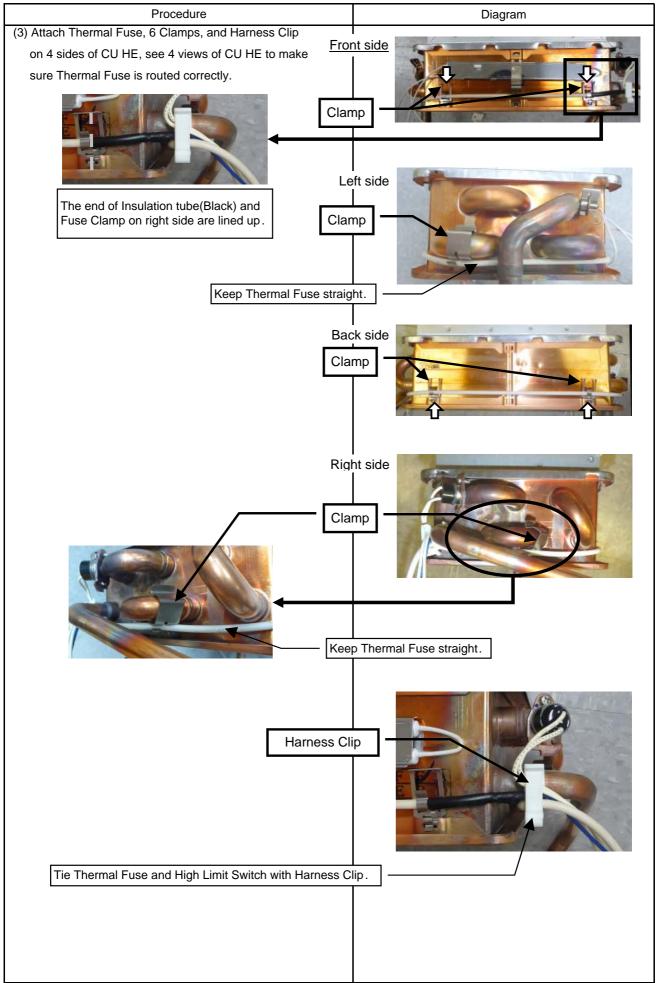


Procedure Procedure	Diagram
(7) Unplug wiring for Igniter.	
(8) Loosen the wire anchor from right side of Case, unplug High Limit Switch, Thermal Fuse.	
(9) Unplug Flame Rod and Ignition Plug.	
(10) Remove the screw holding Circuit Board.	
(11) Let all wires and Circuit Board hang outside of the unit.	
OD model only ; Remove Circuit Board to out of	
the unit.	
	e.g. DVC model
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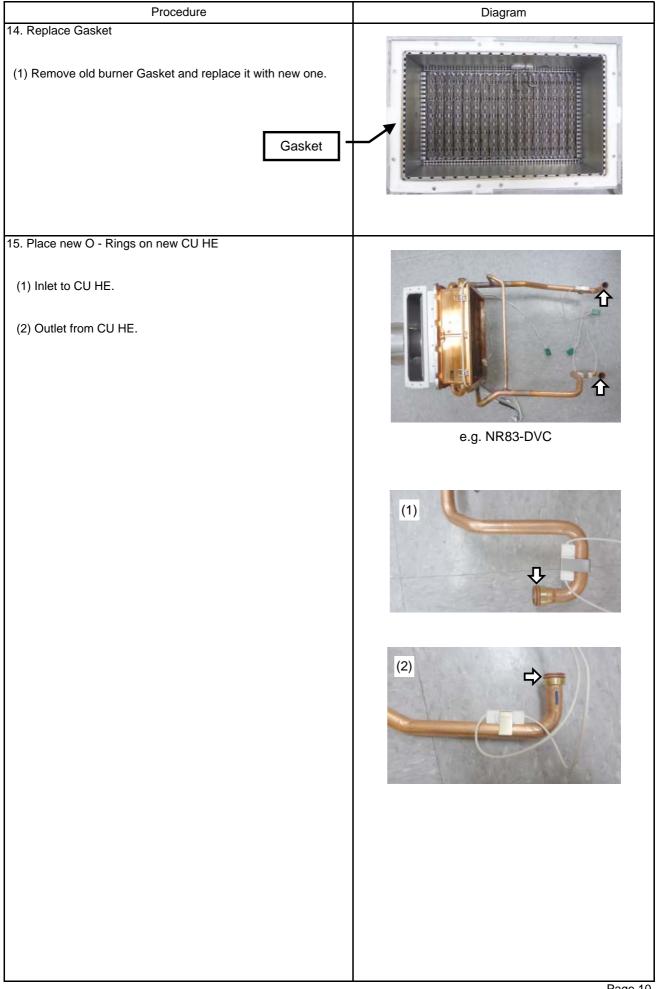
Procedure	Diagram
5. DVC model only ;	
Remove Case Top Cover from top of the unit.(1) Disconnect the venting from the unit.(2) Remove 2 screws and remove Case Top Cover of the unit and set aside.	
6. DVC model only ;	
Remove Tube - Silicone and Metal Back Pressure Tube.(1) Remove 1 screw on the Exhaust Box that attach the tube.(2) Remove the tube from Exhaust Box.	
7. Remove Manifold Plate	
 (1) Remove 4 big silver screws on Manifold Plate that attach Manifold Plate to Burner. (2) Remove "C" Clamp. (3) Locate inlet pipe to Manifold Plate and push up, remove Manifold Plate. 	
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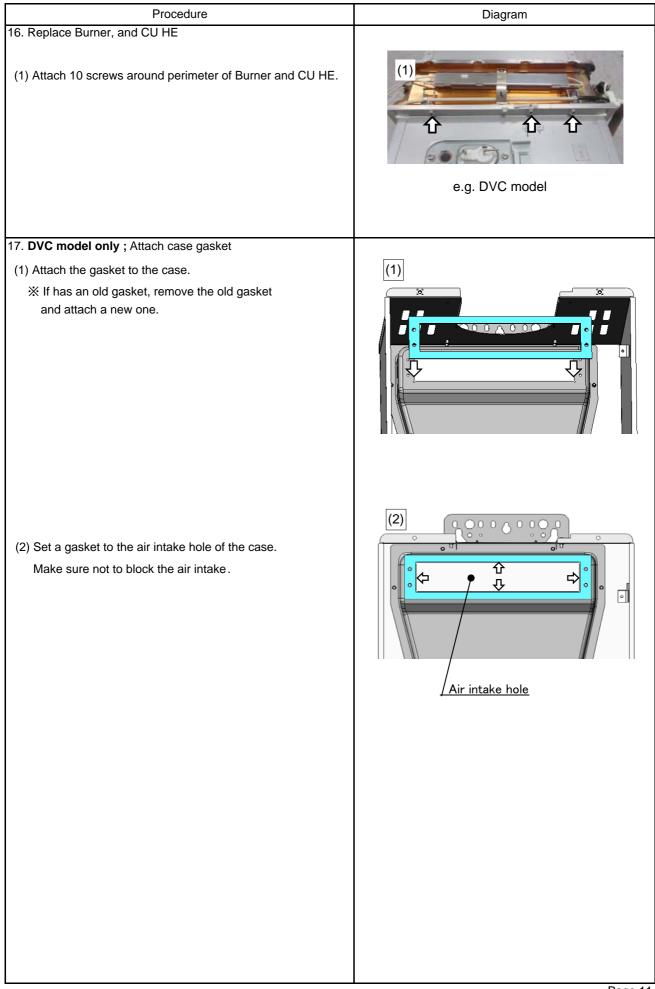


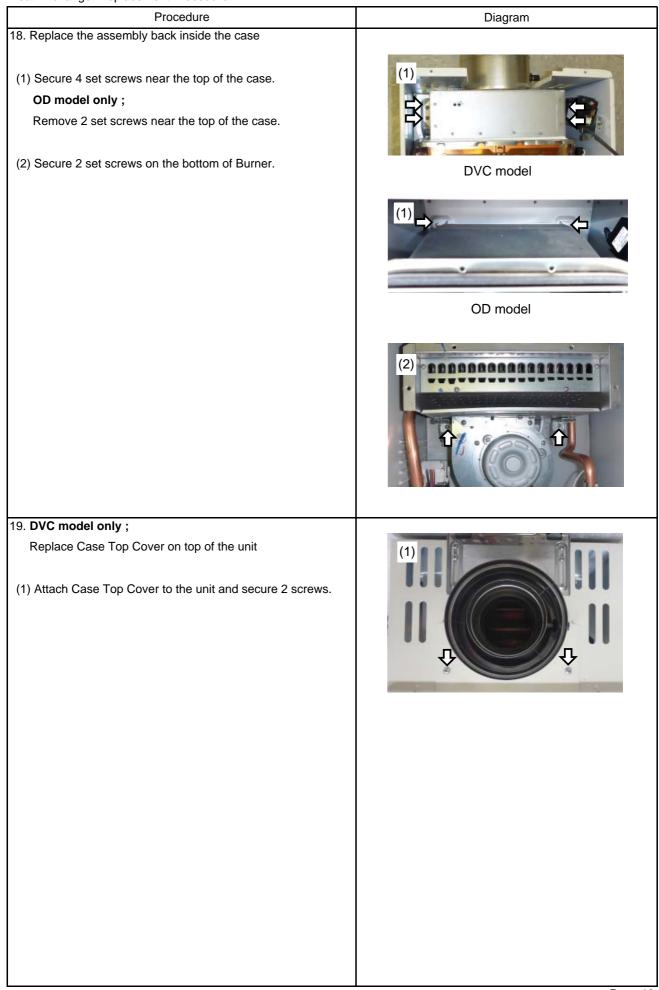




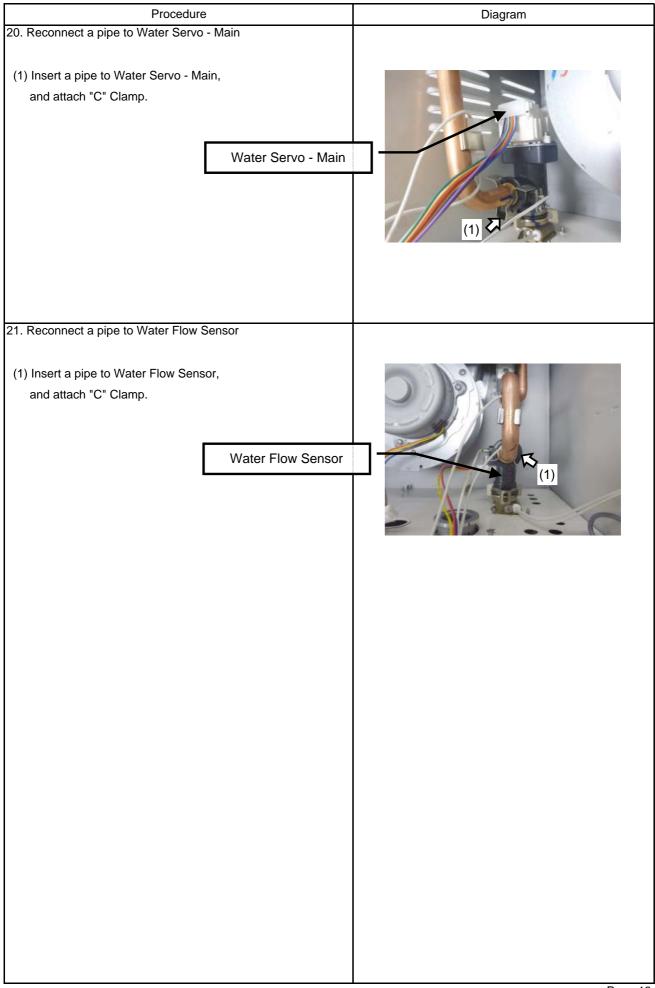
Heat Exchanger Replacement Procedure



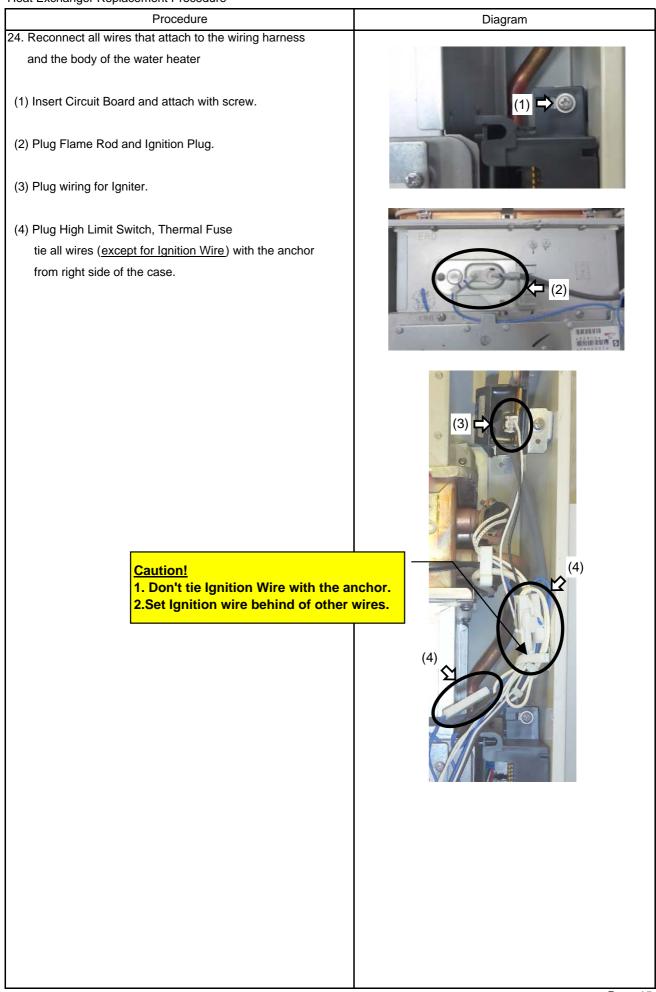


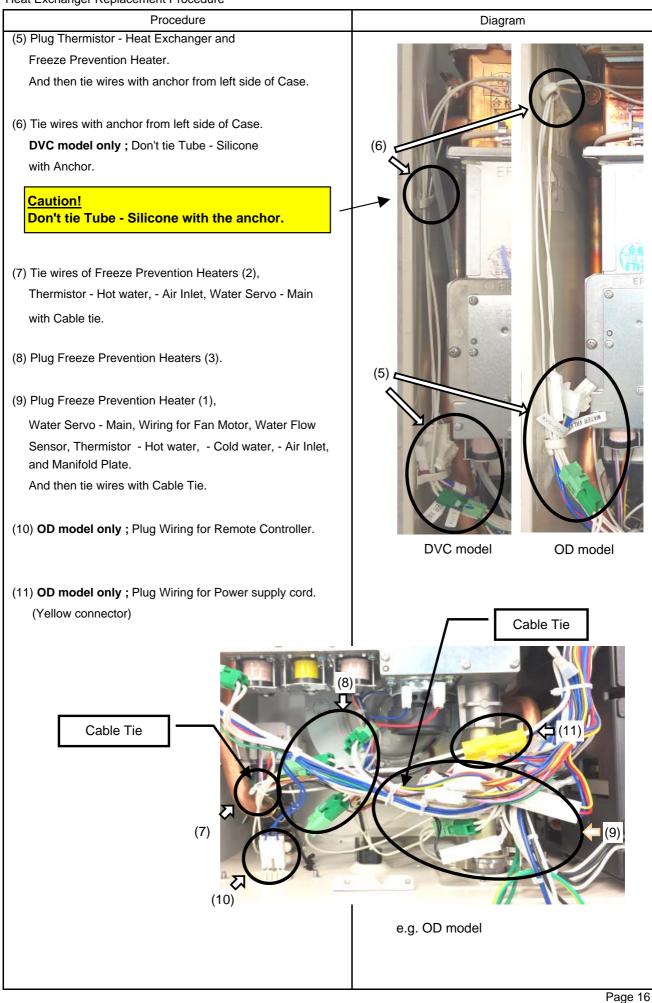


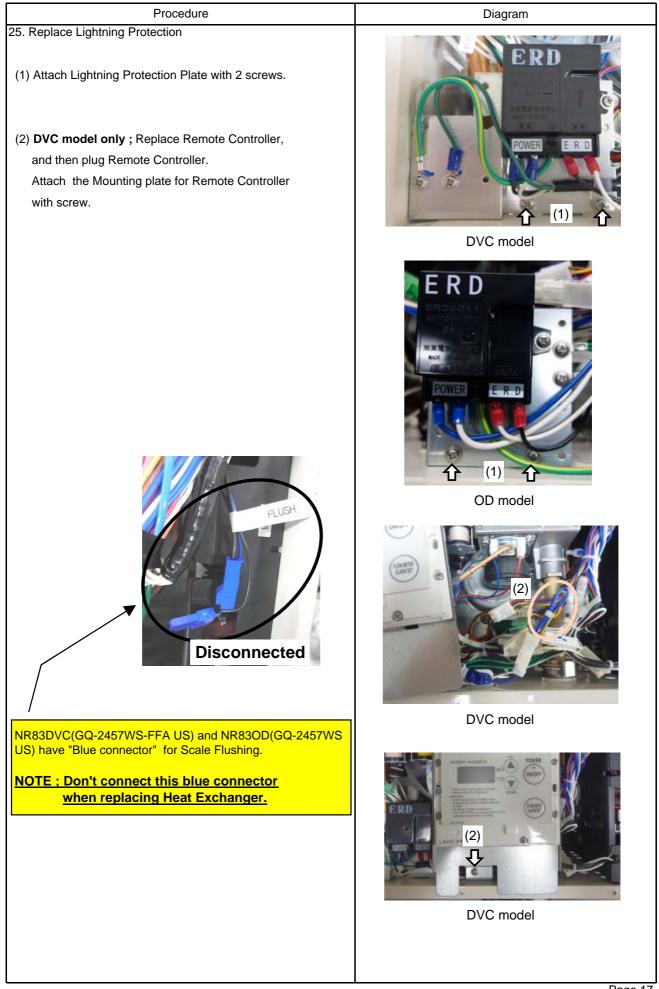
Heat Exchanger Replacement Procedure



 22. Replace Manifold Plate (1) Secure Manifold Plate to Burner with 4 big silver screws. (2) Secure gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (2) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (2) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (2) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (2) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (2) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (2) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (3) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (4) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (5) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (7) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (8) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (9) Secure Gas pipe of Manifold Plate to gas inlet fitting with "C" Clamp. (1) Attach the tube with 1 screw. (1) Attach the tube with 1 screw. 	Procedure Procedure	Diagram
23. DVC model only ; Replace Tube - Metal Back Pressure Tube	(1) Secure Manifold Plate to Burner with 4 big silver screws.(2) Secure gas pipe of Manifold Plate to gas inlet fitting	
Replace Tube - Metal Back Pressure Tube		
	Replace Tube - Metal Back Pressure Tube	







Procedure Procedure	Diagram
26. Check for water leak	
 Secure 2 drain valves. Turn on water inlet valve slowly. Check for leaks around "C" Clamps. If you get leaks, close water inlet valve. Re-secure "C" Clamps of leaking points. 	e.g. DVC model
27. Check for gas leaks and doing trial operation	
(1) Turn on gas.	
 (2) Turn on the unit. Check for leaks around Manifold Plate and joining areas. For example ; Between Burner and CU HE 	
(3) If you get leaks, Close gas supply valve Re-secure "C" Clamps of leaking points.	
28. Replace Front Cover	
(1) Secure Front Cover with 4 screws.	<image/>
	e.g. DVC model