



N-063S and N-069M Series Heat Exchanger Replacement

Models Include: N-063S, N-063S-1, N-063S-OD

N-069M, N-069M-1, N-069M-OD

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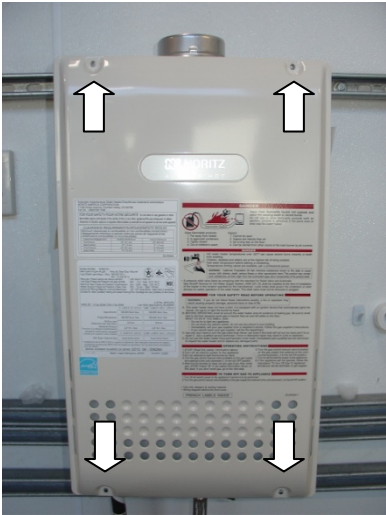
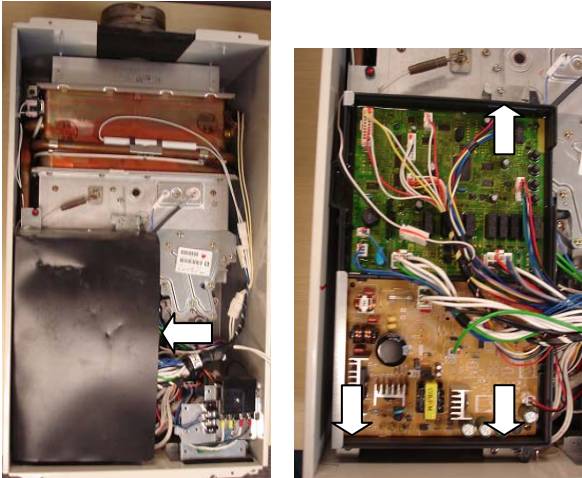
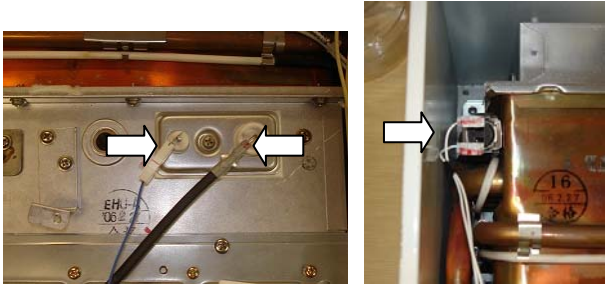
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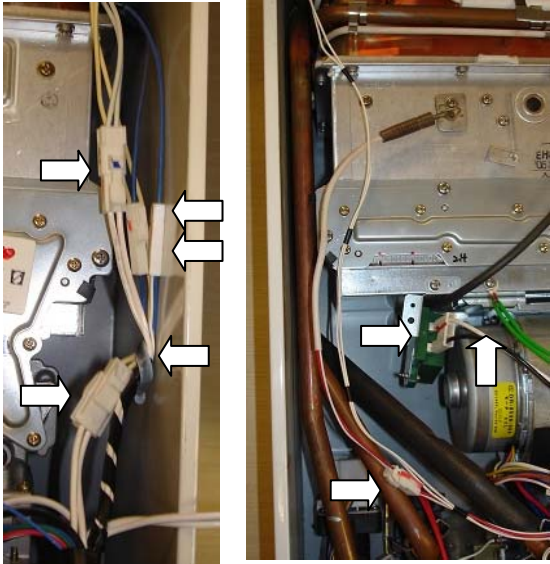
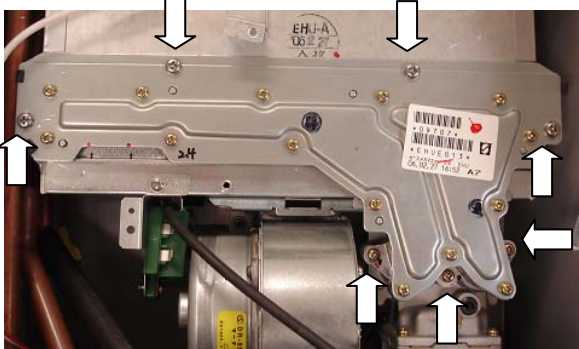
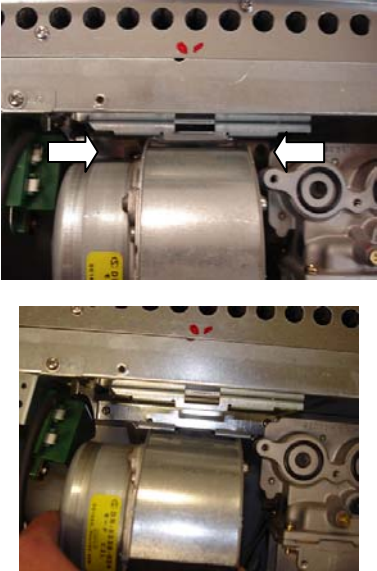
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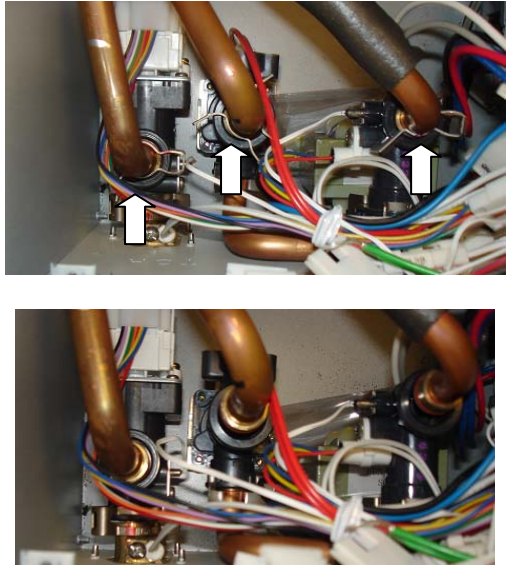
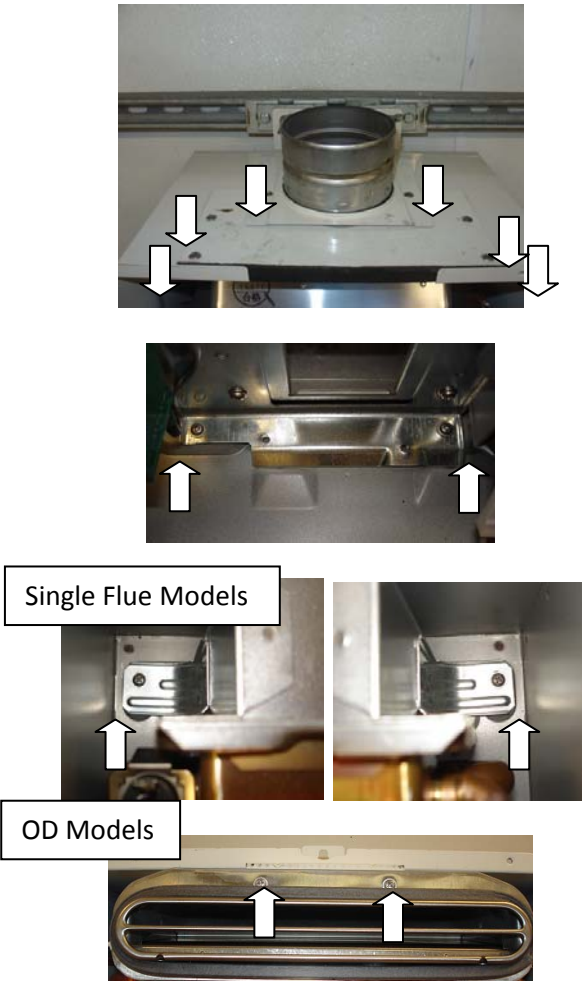
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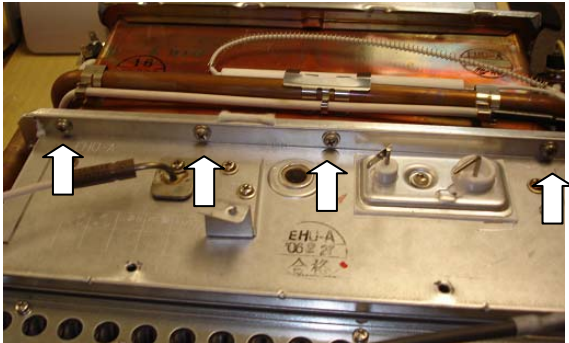
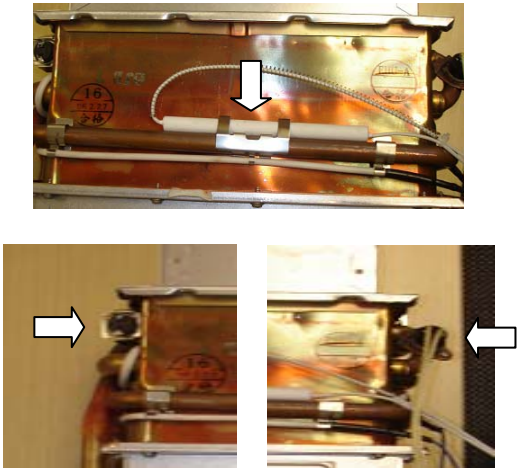
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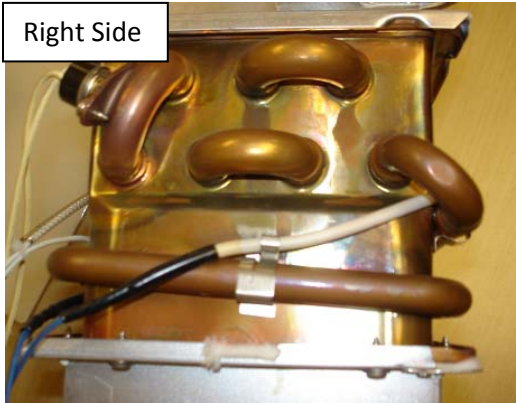
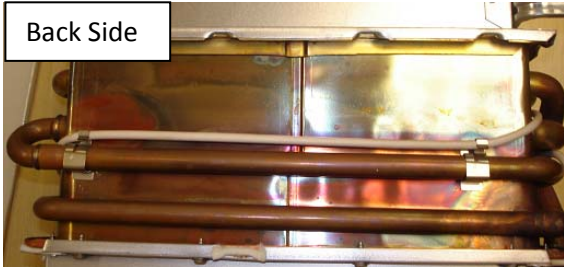
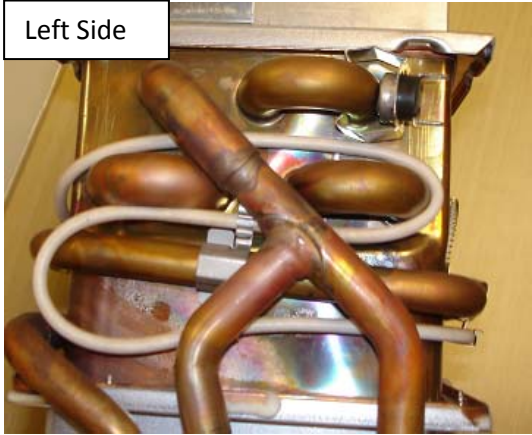
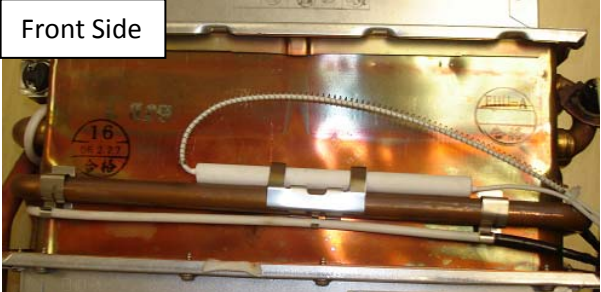
N-069M and N-063S Heat Exchanger Replacement Procedure



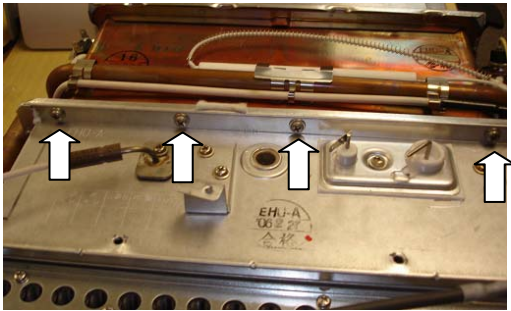
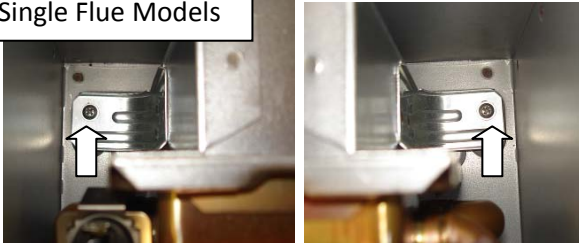
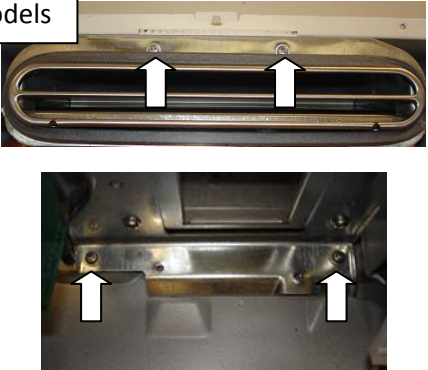
Procedure	Diagram
<p>1. Remove front cover</p> <p>(1) Disconnect electrical power to unit (2) Remove 4 screws (3) Turn off gas and water (4) Remove filter and drain unit completely</p>	
<p>2. Remove circuit board</p> <p>(1) Remove black plastic cover from the circuit board (2) Remove 3 screws that hold the circuit board and let it hang outside of the unit</p>	
<p>3. Unplug all wires that attach to the wiring harness and the body of the water heater</p> <p>(1) Flame rod and ignition plug (2) Freeze prevention sensor</p>	

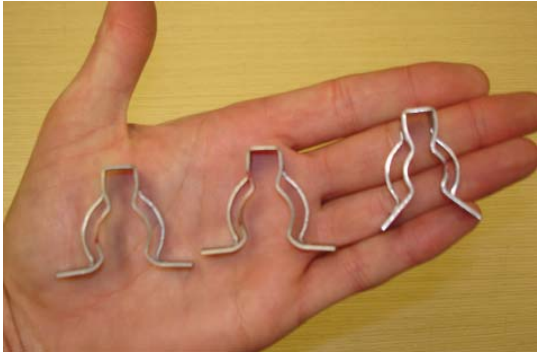
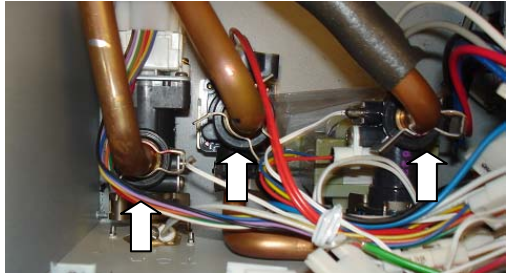
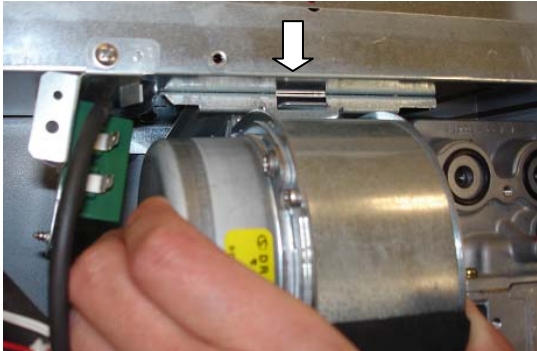


Procedure	Diagram
<p>(3) Freeze prevention heater, thermal fuse (2), high limit switch</p> <p>(4) Loosen the wire anchor on right side of the case</p> <p>(5) Burner sensor, igniter plug, ground wire</p>	
<p>4. Remove manifold plate</p> <p>(1) Remove the 4 big silver screws on the manifold plate that attach the manifold to the burner</p> <p>(2) Remove the 3 smaller gold screw from the manifold plate that attach the manifold to the gas valve</p> <p>(3) Remove manifold plate</p>	
<p>5. Remove fan</p> <p>(1) Remove the 2 screw on both sides of the fan, screws are located on back side of the case</p> <p>(2) When the screws are remove the back side of the fan with drop down and fan will rotate out</p>	

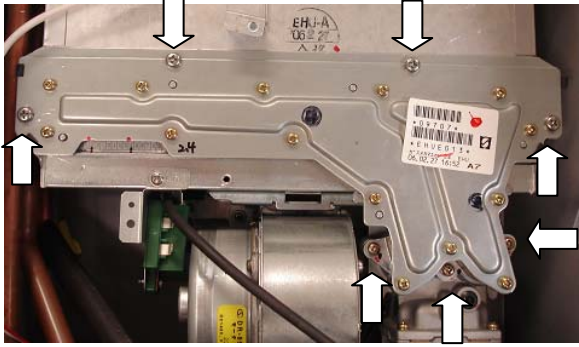
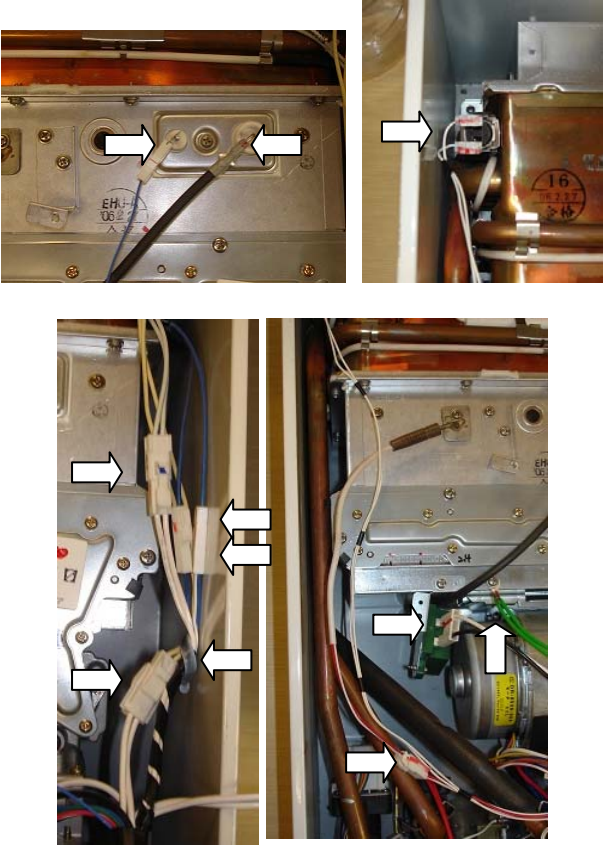
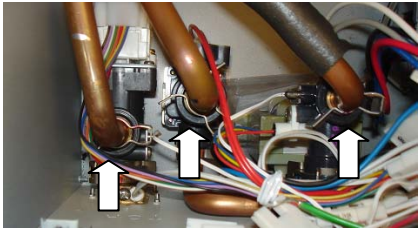
Procedure	Diagram
<p>6. Disconnect water pipes coming from the heat exchanger.</p> <p>(1) Push out "C" clamps from flow sensor, bypass water valve, and main water valve</p> <p>(2) Disconnect water pipes from each water connection</p> <p>NOTE: N-063S Series units will only have 2 pipes (Flow Sensor on right and Main Water Valve on left)</p>	
<p>7. Remove heat exchanger from case</p> <p>(1) Remove the 6 case top cover screws (This step will be skipped with OD Model Units)</p> <p>(2) Remove the 2 set screws on the bottom of the burner</p> <p>(3) Remove the upper left and right set screws near the top of the case (OD Models the screws will be at the top center of the case) (support bottom of assembly)</p>	

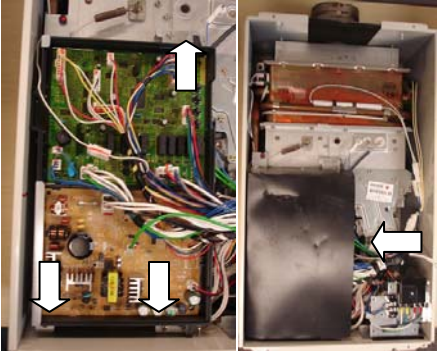
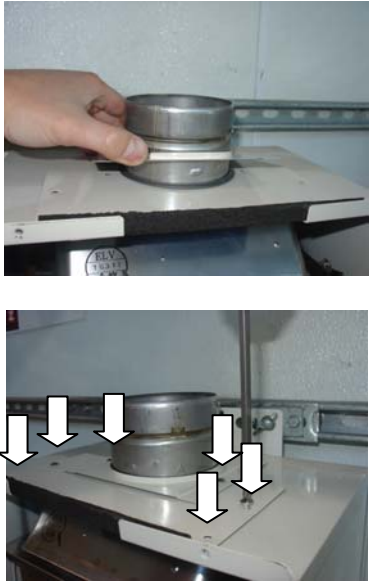
Procedure	Diagram
<p>(4) The Exhaust box, heat exchanger and burner will come out in one section NOTE: N-063S Series will have only 2 pipe coming from the heat exchanger</p>	
<p>8. Separate burner from heat exchanger</p> <p>(1) Remove 12 screws holding burner to heat exchanger</p>	
<p>9. Remove heat exchanger components from old heat exchanger and put on new heat exchanger</p> <p>(1) Freeze prevention heater (front) (2) Freeze prevention sensor (left side) (3) High limit switch (right side)</p>	

Procedure	Diagram
<p>(4) Thermal fuse and fasteners from 4 sides of heat exchanger, See the 4 views of the heat exchanger to make sure the thermal fuse is routed correctly</p>	<p data-bbox="878 338 1036 390">Right Side</p>  <p data-bbox="854 772 1011 825">Back Side</p>  <p data-bbox="870 1066 1027 1119">Left Side</p>  <p data-bbox="846 1539 1003 1591">Front Side</p> 

Procedure	Diagram
<p>10. Place new O-Rings on new heat exchanger</p> <p>(1) Cold Water Pipe (smaller of 3 o-rings) (2) Bypass Pipe (3) Hot water Pipe NOTE: N-063S Series will have only 2 pipe coming from the heat exchanger</p>	
<p>11. Replace burner gasket</p> <p>(1) Remove old gasket (2) Replace with new gasket</p>	
<p>12. Reattach burner and heat exchanger assembly</p> <p>(1) 12 screws around perimeter of burner</p>	
<p>13. Replace assembly back inside case</p> <p>(1) Secure top left and right screws (OD Models the screws will be at the top center of the case) (2) Secure bottom burner screws</p>	<p>Single Flue Models</p>  <p>OD Models</p> 

Procedure	Diagram
<p>14. Reconnect water connections</p> <ol style="list-style-type: none"> (1) Push the pipes in the main water valve, bypass water valve, and flow sensor (2) Locate 3 "C" clamps and connect to (from left to right) main water valve, bypass water valve, and flow sensor. The flow sensor clamp will be smaller. <p>NOTE: N-063S Series units will only have 2 pipes (Flow Sensor on right and Main Water Valve on left)</p>	 
<p>15. Replace Fan</p> <ol style="list-style-type: none"> (1) Located metal tab on top of fan and use slot on burner to guide fan in place (2) Tighten 2 screws on both sides of the fan towards the back of case 	  

Procedure	Diagram
<p>16. Replace manifold plate</p> <ol style="list-style-type: none"> (1) Secure the 3 smaller gold screw from the manifold plate that attach the manifold to the gas valve (do not fully tighten) (2) Secure the 4 big silver screws on the manifold plate that attach the manifold to the burner (do not fully tighten) (3) Hand tighten all 7 screws equally. 	
<p>17. Reconnect all wires that attach to the wiring harness and the body of the water heater</p> <ol style="list-style-type: none"> (1) Flame rod and ignition plug (2) Freeze prevention sensor (3) Freeze prevention heater, thermal fuse (2), high limit switch (4) Secure the wire anchor on right side of the case (5) Burner sensor, igniter plug, ground wire 	
<p>18. Check for water leaks</p> <ol style="list-style-type: none"> (1) Replace water inlet filter (2) Turn on cold water shut off valve slowly (check for leaks around "C" clamps) (3) If you get leaks shut off water and re-secure "C" Clamps. 	

Procedure	Diagram
<p>19. Replace Circuit Board</p> <ol style="list-style-type: none"> (1) Secure 3 screws to the circuit board (2) Replace black plastic cover on the circuit board 	
<p>20. Replace case top covers</p> <ol style="list-style-type: none"> (1) Place larger top cover first, then gasket, then smaller cover over flue (2) Secure top covers with 6 screws <p>NOTE: This step will be skipped with OD Model Units</p>	
<p>21. Replace Front Cover</p> <ol style="list-style-type: none"> (4) Secure front cover with 4 screws (5) Turn on gas (6) Return electrical power to the unit 	