

Indirect-Fired Water Heaters

COMBO 30™, COMBO 40™, GOLD PLUS 30, PLUS 20 THROUGH 120™

Thermostat Replacement Instructions

Hazard definitions

The following defined terms are used throughout these instructions to bring attention to the presence of hazards of various risk levels or to important information concerning the life of the product.



Indicates presence of hazards that can cause severe personal injury, death or substantial property damage.

NOTICE

Indicates special instructions on installation, operation or maintenance that are important but not related to personal injury, death or substantial property damage.



This kit and instructions are for use by a qualified installer/service technician. Failure to follow all instructions in proper order can cause severe personal injury, death or property damage.

NOTICE

Thermostat Kit P/N 635-100-010, consists of the thermostat and instructions only. When making replacement be sure to save all other parts for reuse.

For Water Heater Model . . .

COMBO 30™, COMBO 40™ and GOLD PLUS 30

PLUS 20, 30, 40, and 60

PLUS 80, 100, and 120™

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COMBO 30™, COMBO 40™, and GOLD PLUS 30 WATER HEATERS



Before installing new thermostat, make sure capillary tube is not kinked or otherwise damaged. These conditions can cause thermostat to fail, resulting in severe personal injury or death from scald potential.

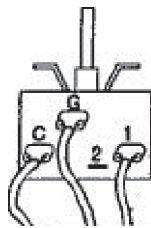
Turn off electrical power to water heater.



Electric shock hazard, Failure to turn off power before replacing thermostat can result in severe personal injury, death or substantial property damage.

Remove old thermostat:

1. Remove and save thermostat knob and cap over drywell. Loosen collars on piping.
2. Remove screws holding jacket top panel. Lift up panel enough to work under it.
3. Remove top left screw on jacket back panel.
4. Remove and save:
 - a. Two (2) screws holding thermostat back plate to top cover.
 - b. Thermostat back plate.
5. Slide thermostat out from back panel.
6. Unplug wiring connections from old thermostat body, one at a time, and connect to new thermostat body.
7. Gently pull thermostat capillary tube out of drywell.
8. Discard old thermostat.



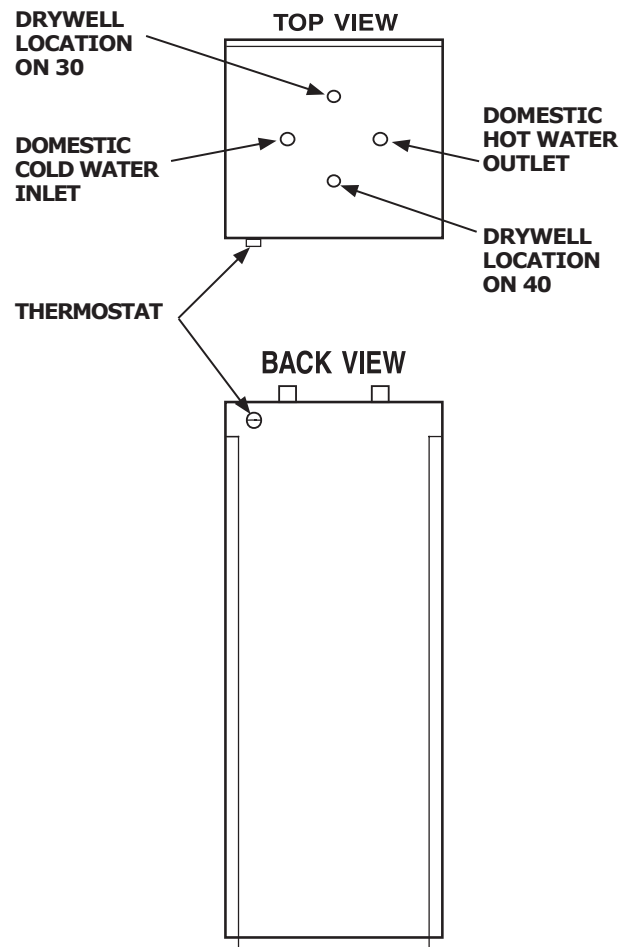
WATER HEATER MODEL	THERMOSTAT CONNECTIONS			
	C	G	2	1
30	RED	---	---	BLACK
40	BLACK	GREEN	---	BLACK

Install new thermostat:

1. Carefully uncoil two (2) feet of new thermostat capillary tube. Working under top panel, uncoil and feed it into drywell until you hear or feel it touch bottom. Re-install cap over drywell.



Capillary tube may not need to be uncoiled completely. Make sure capillary is not kicked or otherwise damaged. These conditions can cause thermostat to fail, resulting in severe personal injury or death from scald potential.



2. Push thermostat stem through hole in back panel. Align stem and screw connections in thermostat body so that electrical prongs point down to floor.
3. Start one screw into back panel and thermostat body. Slide thermostat back plate under screw (See back plate detail, page 3). Install second screw, tighten both screws.
4. Push knob back on thermostat stem, aligning flat side of hole in knob with flat side of stem.
5. Re-install screws in jacket top and back panels.



Make sure capillary tube is not kicked or otherwise damaged. These conditions can cause thermostat to fail, resulting in severe personal injury or death from scald potential.

Turn on electrical power to water heater.

1. Verify water heater operates normally.
2. Adjust thermostat to system requirements - see water heater manual for proper temperature adjustment.

PLUS 20, 30, 40 AND 60 WATER HEATERS



Before installing new thermostat, make sure capillary tube is not kinked or otherwise damaged. These conditions can cause thermostat to fail, resulting in severe personal injury or death from scald potential.

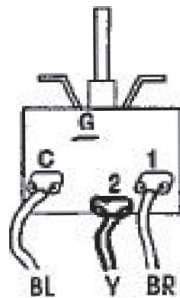
Turn off electrical power to water heater.



Electric shock hazard, Failure to turn off power before replacing thermostat can result in severe personal injury, death or substantial property damage.

Remove old thermostat:

1. Remove and save thermostat knob and cap over drywell.
2. Loosen collars on domestic hot and cold pipes. Pull up water heater top cover enough to work under it.
3. Remove and save:
 - a. Two (2) screws holding thermostat back plate to top cover.
 - b. Thermostat back plate.
4. Push down on thermostat stem and slide thermostat from under top cover.
5. Unplug wiring connections from thermostat body to snapset wiring harness, one at a time, and connect to new thermostat body.
6. Gently pull thermostat capillary tube out of drywell.
7. Discard old thermostat.



Install new thermostat:

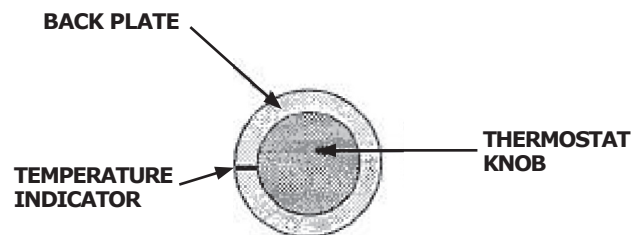
1. Carefully uncoil two (2) feet of new thermostat capillary tube. Working under top panel, uncoil and feed it into drywell until you hear or feel it touch bottom. Re-install cap over drywell.



Capillary tube may not need to be uncoiled completely. Make sure capillary tube is not kicked or otherwise damaged. These conditions can cause thermostat to fail, resulting in severe personal injury or death from scald potential.

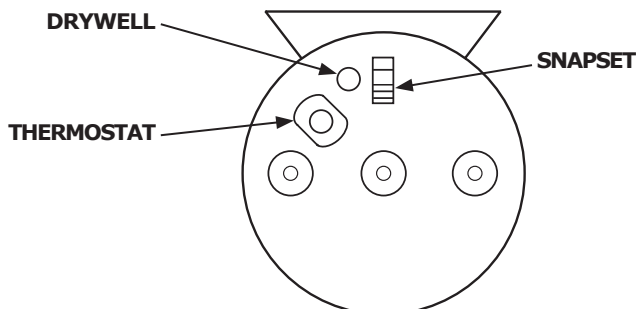
2. Push thermostat stem up through hole in top cover. Align stem and screw connections in thermostat body so that electrical prongs face drywell. Top cover on water heater will not reseat properly if prongs face any other way.
3. Start one (1) screw into top cover and thermostat body. Slide thermostat back plate under screw (See back plate detail below). Install second screw. Tighten both screws.

THERMOSTAT BACK PLATE



Install back plate so that temperature indicator will line up properly with your specific knob label.

TOP VIEW OF WATER HEATER



4. Push thermostat knob back on stem, aligning flat side of hole in knob with flat side of stem.
5. Re-install top cover on water heater.



Make sure capillary tube is not kicked or otherwise damaged. These conditions can cause thermostat to fail, resulting in severe personal injury or death from scald potential.

Turn on electrical power to water heater.

1. Verify water heater operates normally.
2. Adjust thermostat to system requirements - see water heater manual for proper temperature adjustment.

PLUS 80, 100, AND 120 WATER HEATERS



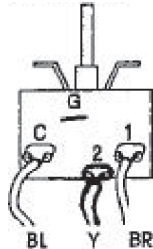
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Turn off electrical power to water heater.



Electric shock hazard, Failure to turn off power before replacing thermostat can result in severe personal injury, death or substantial property damage.

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3. Remove and save:
 - a. Two (2) screws holding thermostat back plate to top cover.
 - b. Thermostat back plate.
4. Push down on thermostat stem and slide thermostat from under top cover.
5. Unplug wiring connections from thermostat body to snapset wiring harness, one at a time, and connect to new thermostat body.
6. Gently pull thermostat capillary tube out of drywell.
7. Discard old thermostat.



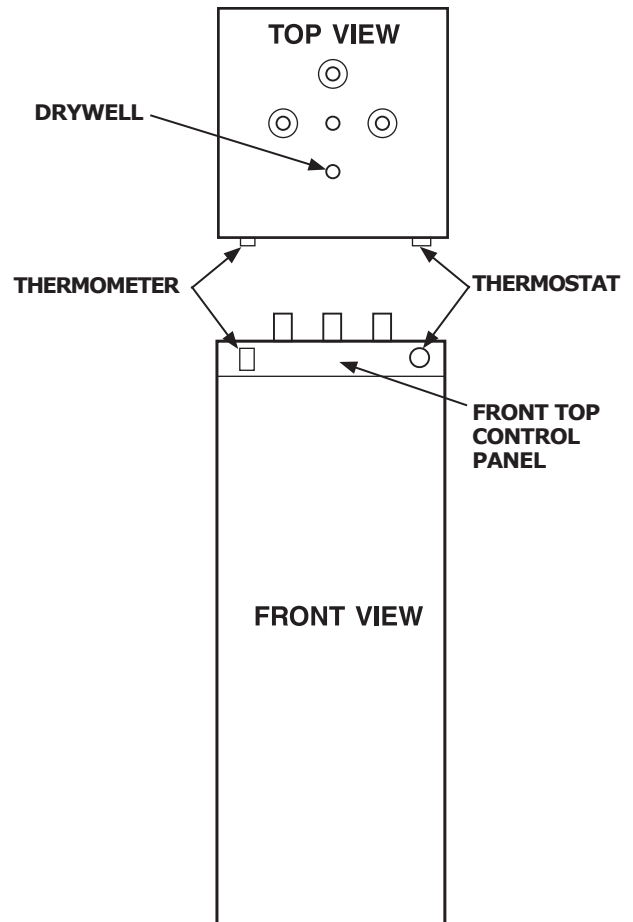
Install new thermostat:

1. Carefully uncoil two (2) feet of new thermostat capillary tube. Working under top panel, uncoil and feed it into drywell until you hear or feel it touch bottom. Re-install cap over drywell.



Make sure capillary tube is not kicked or otherwise damaged. These conditions can cause thermostat to fail, resulting in severe personal injury or death from scald potential.

2. Push thermostat stem up through hole in top cover. Align stem and screw connections in thermostat body so that electrical prongs face drywell. Top cover on water heater will not reseal properly if prongs face any other way.



3. Start one (1) screw into top cover and thermostat body. Slide thermostat back plate under screw (See back plate detail below). Install second screw. Tighten both screws.
4. Push thermostat knob back on stem, aligning flat side of hole in knob with flat side of stem.
5. Re-install top cover on water heater.



Make sure capillary tube is not kicked or otherwise damaged. These conditions can cause thermostat to fail, resulting in severe personal injury or death from scald potential.

Turn on electrical power to water heater.

1. Verify water heater operates normally.
2. Adjust thermostat to system requirements - see water heater manual for proper temperature adjustment.



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