

Metro Smart Wetback Installation Instructions

⚠ WARNING! Important Information

- Do not connect to an unvented hot water system.
- Install in accordance with AS 3500.4.1 or NZS 4603 and the appropriate requirements of the relevant building code or codes.

⚠ CAUTION! Important Information

- Wetbacks must be connected with water before operating the fire. Water must always be available to the wetback while the fire is in operation.
- Wetback systems are not suitable for use in locations where the water supply has lime content. Lime build up inside the coil will eventually block the coil causing the wetback to fail.
- Rainwater collection tanks installed lower than the wetback that use a water pump to supply the home, can cause problems if the pump is not operational.

Suitable for installation into the following models:

- Smart Insert and LTD Smart Insert

The Smart Wetback comes fully assembled and is designed to be fitted to the 'outside face' of either the left or right hand side of the firebox.

INSTALLATION - Fitting the water heater is best performed prior to installing the Insert into the fireplace cavity.

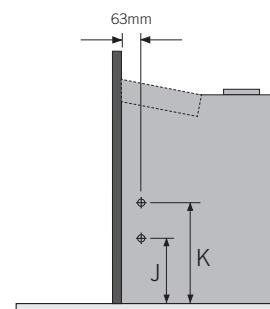
- The closer the Smart Insert / LTD Smart Insert is to the hot water storage cylinder, the greater the hot water production will be, and generally distances over 3 metres are not recommended.
- The 'return' hot water connection copper pipe must be insulated and have a 'minimum' rise of 1 in 12 along its entire length. 1 in 12 is minimum and the greater the rise the better the performance.
- The return hot water pipe must be connected to the riser pipe connection in the base of the hot water storage cylinder.

To fit the wetback proceed as follows:

1. Remove the fascia (if fitted), then on the side of the firebox to which the water heater is to be fitted, remove the angle cover plate from the inside face of the outer cabinet. Also, remove the fire brick on the wetback side from inside the fire box.
2. Having removed this cover plate the front face of the inner wrap is exposed. Fold the front face of the inner wrap outwards so it is parallel with the outer cabinet. This is needed to create access for the water heater to fit between the firebox and the inner wrap.
3. Remove the two square knock out plates from the front face of the inner wrap to provide clearance for the two connection pipes when the return is folded back.
4. Remove the two 50mm diameter knock out plates from the outer cabinet.
5. With a long handled 10mm set spanner, reach in between the inner wrap and the firebox and loosen the nut on the rear Pozi drive screw which will be used to secure the water heater. Then unscrew from the

inside and discard the 6mm nut as the screw will thread directly into the water heater casting. Repeat for the two front bolts but retain the nuts and washers.

6. Remove the water heater from it's box, which also contains a tube of fire cement. You will note a 6mm bolt is fitted to one of the casting ribs, remove this.
7. Smear a liberal but even amount of Pioneer fire cement over the entire flat face of the water heater in order to ensure full surface contact with the outside face of the firebox.
8. Hold the hot water heater by the two copper pipes and slide the water heater between the inner wrap and the firebox until the pipes are vertical and in line with the two 50mm holes in the outer cabinet. The pipes will be tight against the outer cabinet as you do this, but the cabinet will flex enough to allow you to work the device until the pipes pass through the 2 x 50mm holes in the outer cabinet.
9. Re-fit one of the bolts previously removed (Stage 5) from inside the firebox through one of the two slots provided in the front edge of the water heater casting, and loosely attach the washer and nut to the thread of the bolt.
10. Next pivot the water heater using the first bolt just refitted as a pivot point, and refit the rear pozi drive screw from inside the firebox into the rear tapped hole in the casting. Then refit the remaining front bolt and attach the washer and nut.
11. Fully tighten all three fastenings, and check to ensure the casting has pulled up evenly onto the side of the firebox. Excess fire cement should be visible around the entire perimeter of the casting.
12. Bend the front returns of the inner wrap back into place so it folds around the front of the water heater, then secure the inner wrap to the casting by refitting the 6mm bolt previously removed at stage 6.
13. The water heater is now ready to have the copper pipe work attached for connection to the hot water storage cylinder (brazed joints are recommended)
14. Once all joints have been thoroughly checked and tested for leaks, refit the angle cover plate removed at Stage 1, then align and refit the fascia. Both side bricks must be fitted inside the firebox.



Connection heights (mm)

Model	J	K
Smart Insert	130	325
LTD Smart Insert	130	325