

# LIVE FIRE CART KIT 550003190

## INSTRUCTIONS

### COMBI

### CONDENSING WALL MOUNTED GAS BOILER

Kit installation shall be completed by qualified agency.

#### **⚠ WARNING**

Fire, explosion, asphyxiation and electrical shock hazard. Improper installation could result in death or serious injury. Read these instructions and understand all requirements before assembly or operation.

#### Live Fire Cart Setup -

- Carefully remove Live Fire Cart from shipping package.

#### **⚠ CAUTION**

Boiler weight exceeds 100 pounds (46 kg). Do not lift without assistance.

- Stand boiler up to vertical position.
- Push button on back support. Pull up on cart handles to extend cart and boiler until you feel cart engage and lock in place. Insert pins from clasp on center support and insert in holes on cart upright supports. See Figure 1.
- Rotate handles to back. See Figure 1.
- Remove pins from holding clasp on cart back support. Set aside for use in step 8.
- Lay the cart with boiler to the floor, horizontal position, front of boiler will be facing up. See Figure 2.

#### **⚠ CAUTION**

Pinch hazard. Use appropriate personal protection when handling boiler and cart. Cart wheels are spring loaded. Failure to follow these instructions could result in minor or moderate injury.

- Grab cart base and extend it. See Figure 2.
- Raise bottom of cart at center point, take care not to grab base at sides, wheels are spring loaded and will extend when base is raised.
- Insert pins removed in step 5 in holes in the front of both wheels. See Figure 3.
- Install and tighten supplied "Y" connectors to connections on boiler. See Figure 4 for proper connections. Right side connector will feed boiler with water from single field provided water source. Left side connector must go to a drain.
- Y hose connector includes female to female adapter for attachment to standard garden hose. Attach hoses to provided Y connectors. Verify Y connector hoses have washers. Hoses will leak if washers are not used.
- Attach clear plastic hose to condensate outlet and provide a pail or drain for condensate.
- Provide drain for water. See Figure 4.
- Gently raise boiler to vertical position and check all hose connections. See Figure 4
- Attach vertical piece of vent pipe to boiler flue outlet.
- Attach supplied gas line and regulator to field sourced LP tank. Use in well ventilated area.
- Supply power to GFI power cord with live fire cart.
- Turn water on. Pressure reducing valve on water inlet side is automatically set to adjust pressure from faucet to boiler.
- Turn boiler thermostat toggle switch on, located on bottom of boiler. See Figure 4.
- Continue with Commissioning of boiler.

Figure 1 - Cart with Boiler Down in Collapsed Position



Figure 2 - Extending Cart Base

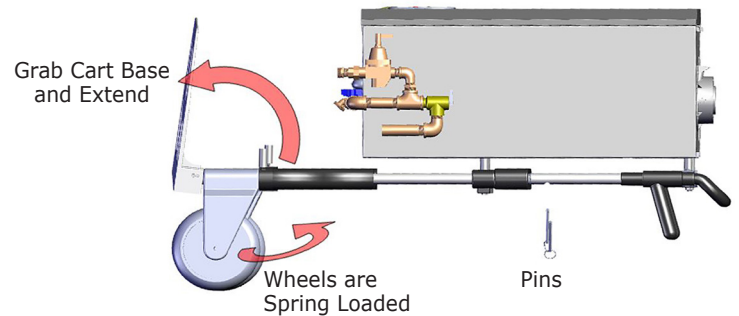
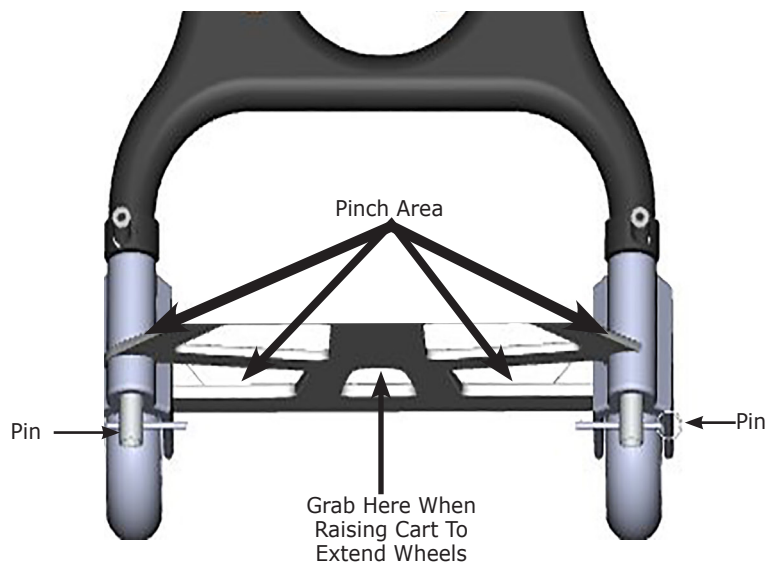


Figure 3 - View of Cart Base and Pinch Areas






## Commissioning and Set-up



### Commissioning The Boiler

Described below is the procedure to activate the De-Aeration Function/Gas Type Check when power is first supplied to the boiler and the actions required when on a Gas E (LPG) supply.

De-Aeration Function:

1. When power is supplied to boiler for first time **000** will be displayed. If  is shown, press , for at least 2 seconds **000** will now be displayed.
2. Press **iP** &  together and hold for at least 6 seconds. the "De-Aeration" Function will be activated & "On" showing.
3. The boiler pump will run for up to 10 minutes. For 3-way valve models the valve will switch between heating & hot water. This will purge air from the system. The display will show **3 12**.

### Gas Type Check


1. Once de-aeration is complete on first fire-up boiler will light and operate for 6 or 7 minutes to automatically check gas type Gas A (Natural Gas "NG") or Gas E (Liquefied Petroleum Gas "LPG"). Boiler software will check the combustion value against the set value. **000** will be displayed alternating the % value of ignition power and the temperature value °F(°C).
2. On Gas A (Natural Gas) supply, display shows **n G** for at least 10 seconds and boiler is ready for normal operation. If the display shows **LPG**, press  & **iP** together and hold for at least 4 seconds to exit the function without saving.
3. On a Gas E (LPG) supply the display show **LPG**, press **iP** for at least 6 seconds to confirm that this is the intended gas type for the installation.  
If the display shows **n G**, press  & **iP** together and hold for at least 4 seconds to exit the function without saving then modify **P02=01** as described in the Manual Instructions for the Installer section "PARAMETERS SETTING".
4. While gas type is being identified boiler may be noisy.

IF THE BOILER IS TO BE OPERATED ON GAS E (LP) REPLACE THE EXISTING LABEL WITH THE GAS E LABEL SUPPLIED WITH THIS INSTRUCTION. ASSURE FACTORY SUPPLIED CONVERSION LABEL IS APPLIED TO PRODUCT IF CONVERTING TO LP.



### IMPORTANT: Gas Type Check


**Ensure the maximum heat exchange to the system in Heating or DHW mode (DHW request) in order to avoid the boiler shutoff for overheating.**

#### FUNCTION INTERRUPT

If either De-aeration or Gas Check is interrupted by electrical power failure is necessary to reactivate the function by pressing **iP** &  together for at least 6 seconds.

During De-aeration, if display shows E118 (low water pressure), open water filling tap and repressurize the system to correct pressure value.

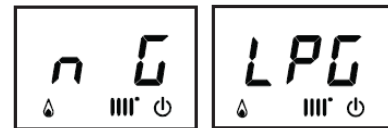
During Gas Type Check, if display shows E133 (Ignition Failure), press  button to Reset, then press together **iP** &  for at least 6 seconds to restart the function.

During Gas Type Check, if boiler switches off due to overheating failure it is necessary to reactivate the function by pressing **iP** &  together for at least 6 seconds.

**IMPORTANT:** The combustion for this appliance has been checked, adjusted and pre-set at the factory for operation on the gas type specified on the appliance data plate.

During the Gas Type Check Function the combustion ratio will increase for a short time while the gas type is established.

*The display shows the Gas Type Check*



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## Decommissioning and Tear Down

### Decommissioning The Boiler - To "Out of Box Condition"

1. Plug the boiler into power outlet if the display does not show **000** on the display you must reset the control.
2. Press the **||||-** & **||||+** - Buttons and hold together for 6 seconds
3. Use the **||||+** button to change to Parameter P22
4. Once on P22 press the **iP** button to see what the parameter is set to. Display will flash between P22 and Setting.
5. Change setting to 22 by using **||||+** button.
6. Press **iP** button to save setting. Parameter is now set.
7. Use **||||+** button to get to Parameter 75.
8. On parameter P75 press the **iP** button to see what the parameter is set to. Display will flash between P75 and Setting.
9. Change setting to 50 using the **||||+** button.
10. Press **iP** Button to save setting.
11. Press the power/Reset button to escape parameter list.
12. Display should read **000**.
13. Remove plug from outlet for 10 seconds.



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### **⚠ WARNING**

Fire, explosion, asphyxiation and electrical shock hazard. Read and understand these instructions before attempting tear-down. Failure to follow these instructions could result in death or serious injury.

### **⚠ WARNING**

Burn and scald hazard. When draining water from boiler avoid any contact with discharge.

### **⚠ WARNING**

Burn hazard. Verify heat exchanger has cooled or use appropriate personal protection equipment before handling boiler or its components.

### Live Fire Cart Tear-Down

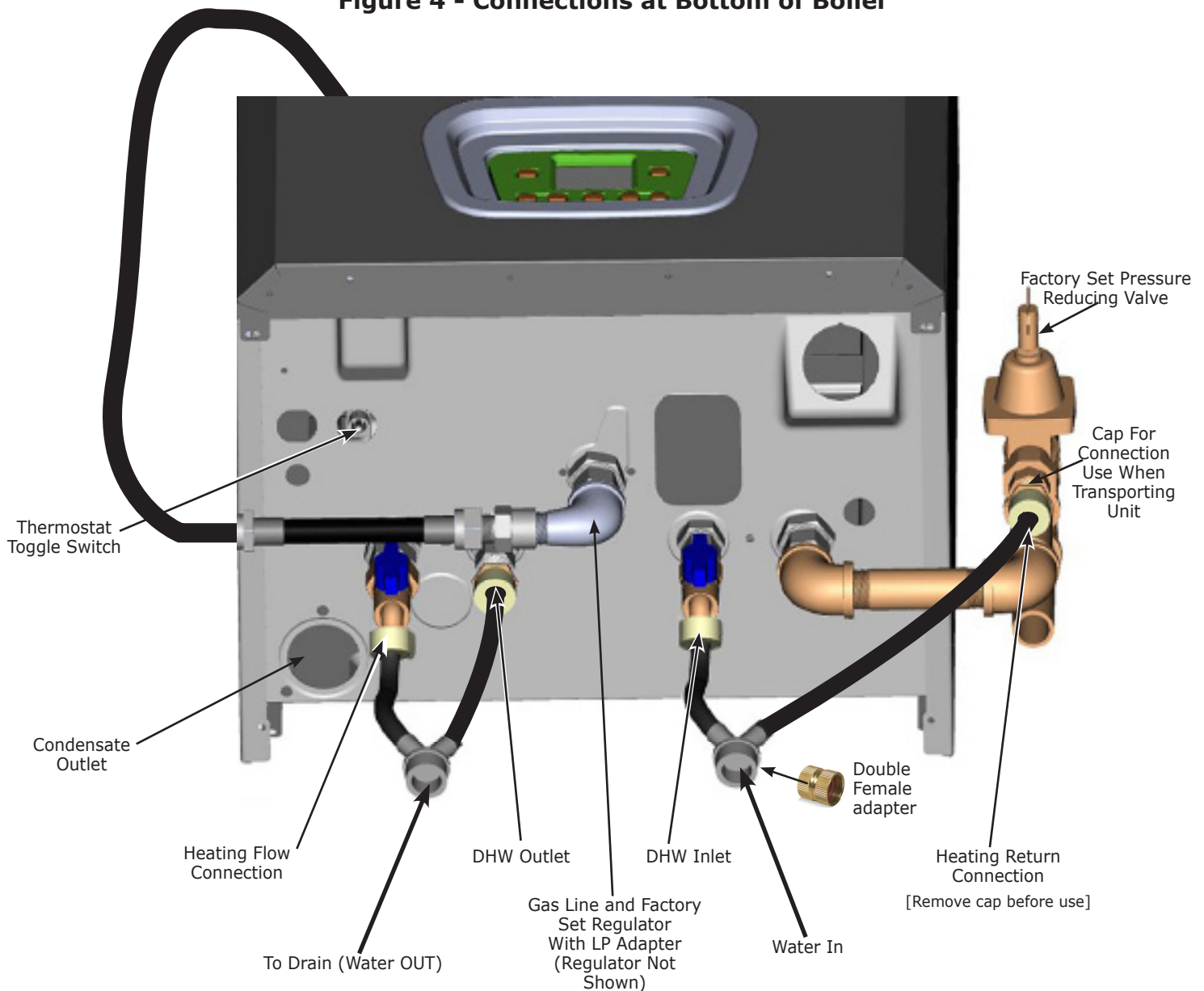
1. Decommission boiler before breaking live fire cart down.
2. Drain all water from boiler. While boiler is draining proceed with the following steps.
3. Turn thermostat switch off and power at boiler GFI plug.
4. Disconnect the vent pipe from flue outlet.
5. Remove gas line and regulator from field supplied LP tank. See Figure 3.
6. Verify all water has drained from boiler and boiler has cooled before lowering cart to horizontal position. See Figure 3.
7. Disconnect all hoses and Y connectors save for next demonstration. Y connectors contain washers and female to female adapters, do not lose.
8. Remove condensate hose.
9. Replace cap on water inlet piping. See Figure 4.
10. Remove pins from in front of wheels. Save for step 12. See Figure 3.
11. Remove Pins from back upright supports. Place pins on clasp on back support bracket.
12. Fold cart base back and away. Wheels are spring loaded and will snap back into place when cart base is folded to up position. See Figure 2.

### **⚠ CAUTION**

Boiler weight exceeds 100 pounds (46 kg). Do not lift without assistance.

13. Lift boiler back to vertical position.
14. Place pins from step 9 back onto clasp on back of cart.
15. Tuck handles back into original position. See Figure 1.
16. Verify cart base is in up position with wheels in collapsed position.
17. Lift up slightly and press button on back support to disengage boiler to lower back into compact position.
18. Place boiler safely in horizontal position for storage or travel.

**Figure 4 - Connections at Bottom of Boiler**



**Note** Safety Relief Valve is installed on Inlet Side of Boiler, for the ease of demonstration on Live Fire Cart.  
Safety relief valve must be mounted to Outlet side of boiler and external primary loop must be established for normal installation.

**Note** Remove Cap From Heating Return Connection. Replace when transporting the unit. Prevents residual water from leaking while transporting.

**Note** Precaution!  
Do not expose to freezing.

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