WEIL-McLAIN

Eco® Tec

NOTICE

Read the boiler rating label to determine the size and series number.

Series 2 and 3
80/110/150/199
Wall Mount Gas-Fired
Condensing Boilers – Combi and Heating Only Models

Multi-Boiler Wiring Kit Instructions (RS-485 Communication)

P/N 383-700-272 Kit Contents:

Description	Part No.	Qty
Wiring Harness, RS-485 Communication	591392107	1
Vinyl Grommet	562248771	1
1/2" Sheet Metal Screw	562138550	2
1 1/2" Sheet Metal Screw	562137536	4
Communication Board	511330460	1
Junction Box Top	469040072	1
Junction Box Bottom	469040071	1
Plastic Anchor	563210627	4

Recommended Tools

- Phillips screwdriver
- Flat blade screwdriver
- Paper/pen
- Boiler manual

STOP! Read before proceeding

⚠WARNING

- These instructions must only be used by a qualified installer/service technician. Read all Instructions completely before beginning the installation. Failure to follow all instructions can cause severe personal injury, death or substantial property damage.
- Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury (exposure to hazardous materials) or loss of life. Refer to the user's information manual provided with this boiler or available on-line at Weil-McLain.com. Installation and service must be performed by a qualified installer, service agency or the gas supplier (who must read and follow the supplied instructions before installing, servicing, or removing this boiler. This boiler contains ceramic fiber and fiberglass materials that have been identified as carcinogenic, or possibly carcinogenic, to humans).

Hazard Definitions

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

⚠DANGER

Indicates presence of hazards that will result in severe personal injury, death or substantial property damage.

⚠WARNING

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

⚠CAUTION

Indicates presence of hazards that will or can result in minor personal injury or property damage.

NOTICE

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

Before proceeding:

1. Shut down the power to the boiler.

⚠WARNING

Shut off power to the boiler. Failure to do so can result in severe personal injury, death or substantial property damage.

2. Remove door by disengaging the two (2) latches at the sides of the front door.

Figure 1 Removing Control Panel Cover



3. Slightly lift and pull the door away from the boiler to remove.
4. Remove two (2) Phillips head screws that hold control tray cover plate in place. Lift and pull cover away from tray. Set control tray cover to side.

Label Wires Before Removing

⚠CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.

Mounting the Junction Box

1. Measure and mark the mounting location, using the harness length as a reference. Ensure some slack to avoid stressing the wiring.
2. Install the junction box to a nearby surface using the four supplied screws through the holes in the junction box sides.
3. For drywall installations, use the included drywall anchors for mounting the junction box.

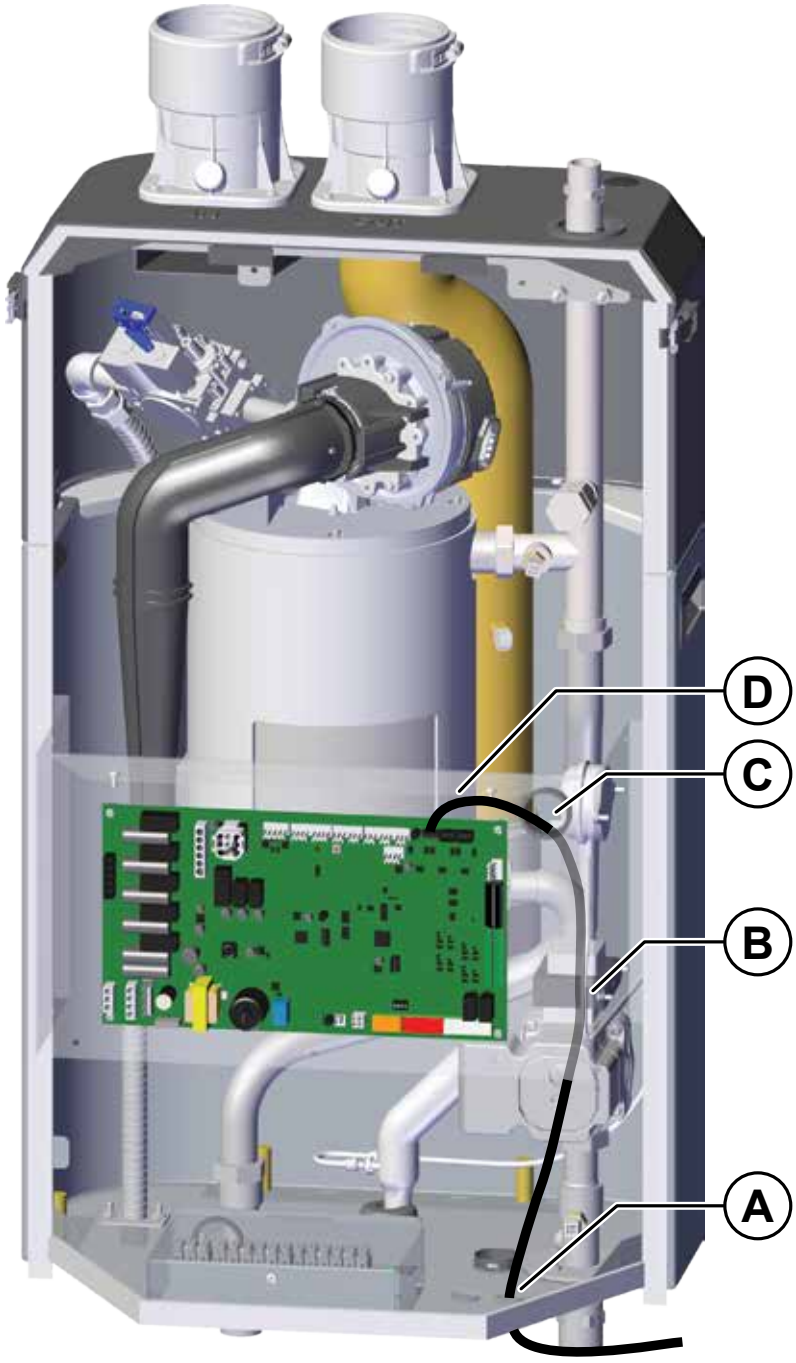
Figure 2 Junction Box



Installing Harness (Series 2)

1. Route the 5-pin side of the supplied harness through the low voltage knockout on the bottom of the boiler cabinet, indicated as “A” in **Figure 3**.
2. The harness should route behind the control mounting bracket, indicated as “B” in **Figure 3**.
3. Route the harness through the large opening on the top right of the control mounting bracket (“C” in **Figure 3**). Make connection to boiler control board “D” in **Figure 3**.
4. Press the mounting clip through the hole in the right side of the control mounting bracket at approximate location indicated by “B” in **Figure 3**.
5. Firmly insert the grommet, supplied on the harness, into the knockout in the bottom of the boiler cabinet.
6. Connect the Ethernet side of the harness into the circuit board in the junction box. Firmly install the grommet.

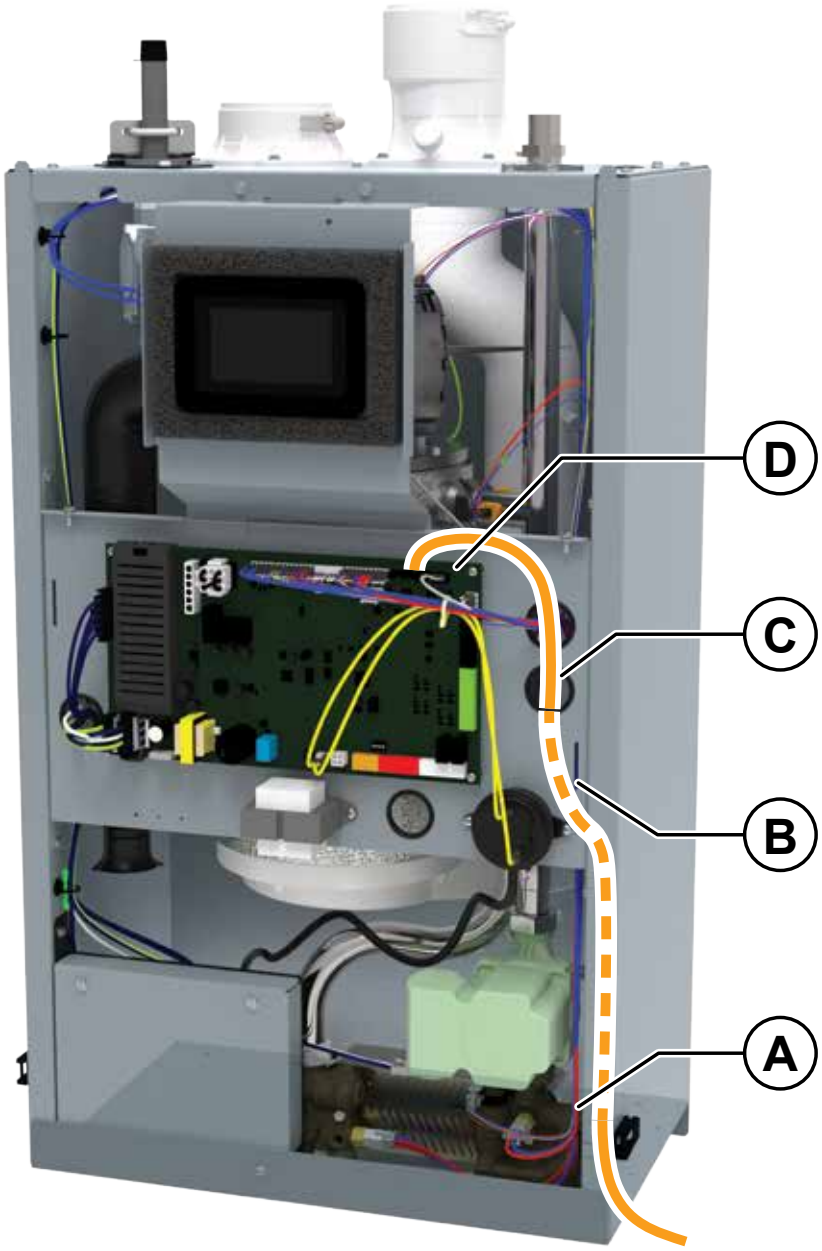
Figure 3 5-pin Wire Routing (Series 2)



Installing Harness (Series 3)

1. Route the 5-pin side of the supplied harness through the low voltage knockout on the bottom right back of the boiler cabinet, indicated as “A” in **Figure 4**.
2. The harness should route behind the control mounting bracket, indicated as “B” in **Figure 4**.
3. Route the harness through the large opening on the top right of the control mounting bracket (“C” in **Figure 4**). Make connection to boiler control board “D” in **Figure 4**.
4. Firmly insert the grommet, supplied on the harness, into the knockout in the bottom of the boiler cabinet.
5. Connect the Ethernet side of the harness into the circuit board in the junction box. Firmly install the grommet.

Figure 4 5-pin Wire Routing (Series 3)



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