HMI
REPLACEMENT INSTRUCTIONS

Rinnai

Kit Name	HMI Replacement Kit
Kit Part Number	803000060
Compatible Rinnai Products	Rinnai Commercial Boiler Models: RCB301AN and RCB399AN

⚠ WARNING — Failure to correctly assemble the components according to these instructions may result in electric shock, injury, or death.

⚠ CAUTION

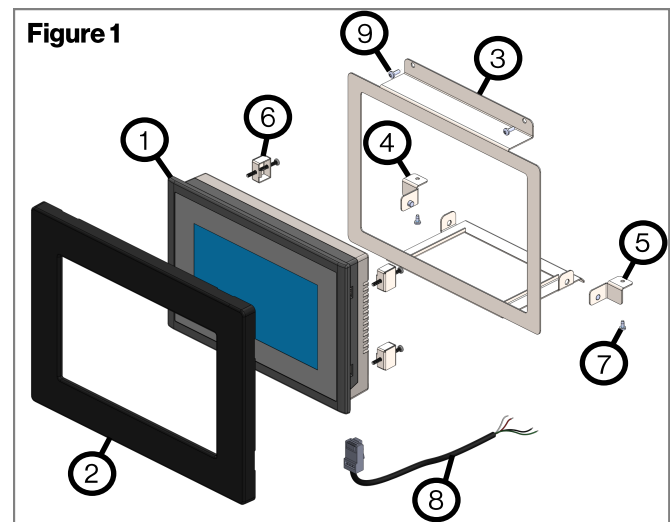To protect yourself from harm, follow the steps below before proceeding.
- Disconnect the electrical power supply by turning off the electricity at the circuit breaker.
- Shut off the gas at the gas valve, usually located near the gas connection at the appliance.
- Turn off the water by closing manual ball valves at the return and supply piping connections at the appliance.

Items Inside Product Box

Before installation, please make sure all parts are located inside the product box.

Table 1

Item #	Item (Part Number)	Qty
1	HMI Touch Panel (805000123)	1
2	HMI Touch Panel Bezel (809000260)	1
3	HMI Touch Panel Bracket (809000261)	1
4	HMI Mounting Hinge Left (809000200)	1
5	HMI Mounting Hinge Right (809000201)	1
6	HMI Mounting Clip (part # not applicable)	4
7	Screw, DIN 7981 3,96 x 6,5 (809000207)	2
8	HMI Connector (805000122)	1
9	Screw, M5 x 12 mm, DIN 912 (809000205)	2

Figure 1

TOOLS/MATERIALS REQUIRED
- ☐ Phillips Head Screwdriver
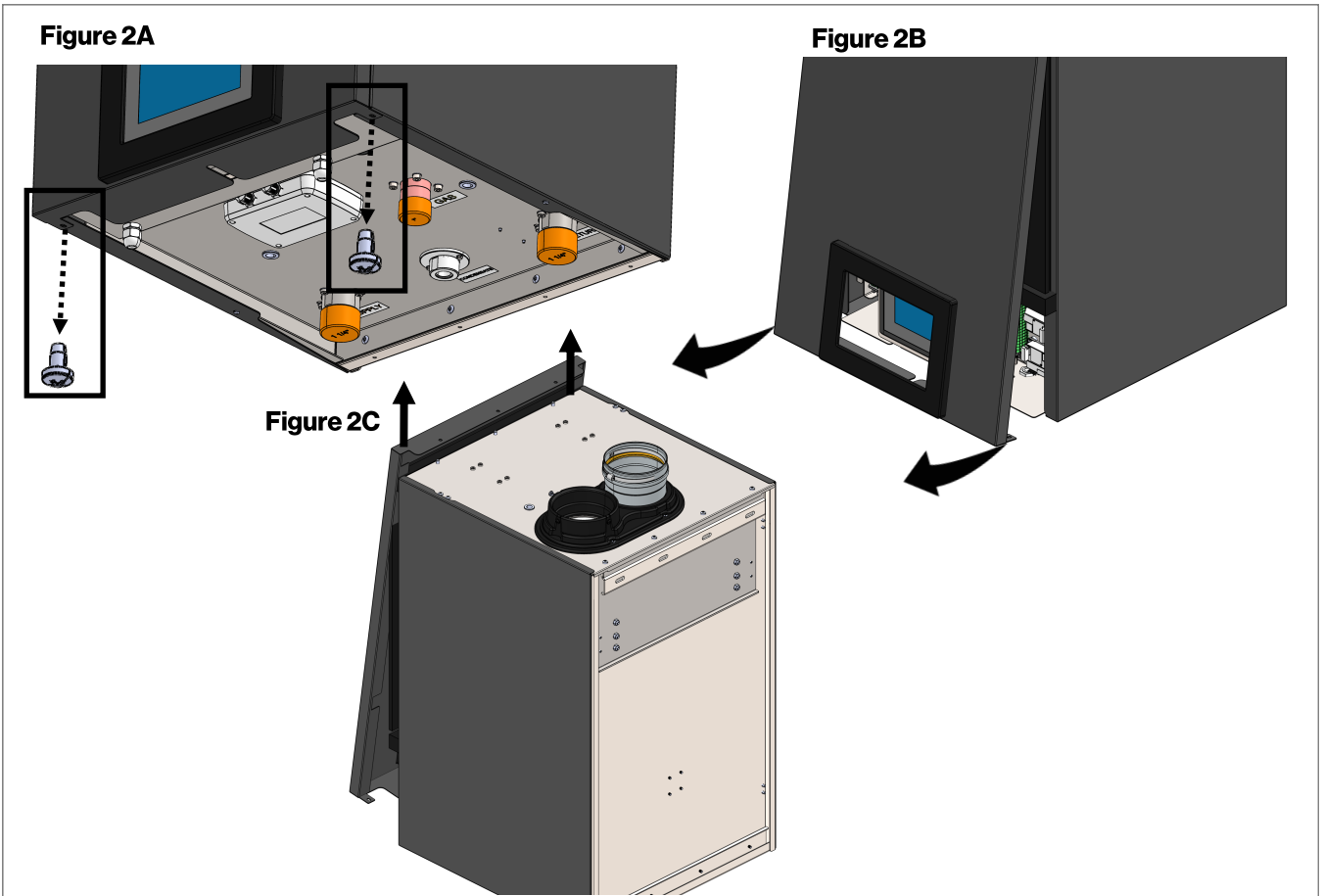- ☐ Flat Head Electrical Screwdriver

Instructions

1. Turn off and disconnect 120 V power supply.
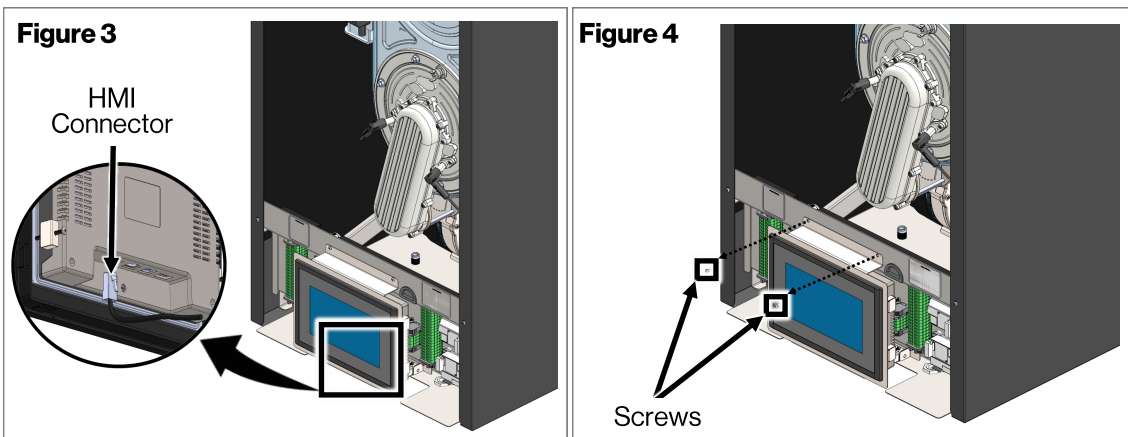2. Turn off water supply.
3. Turn off gas supply.

⚠ CAUTION — Confirm gas valve is turned off and not leaking. Use gas valve switch to prevent gas valve from being turned on.
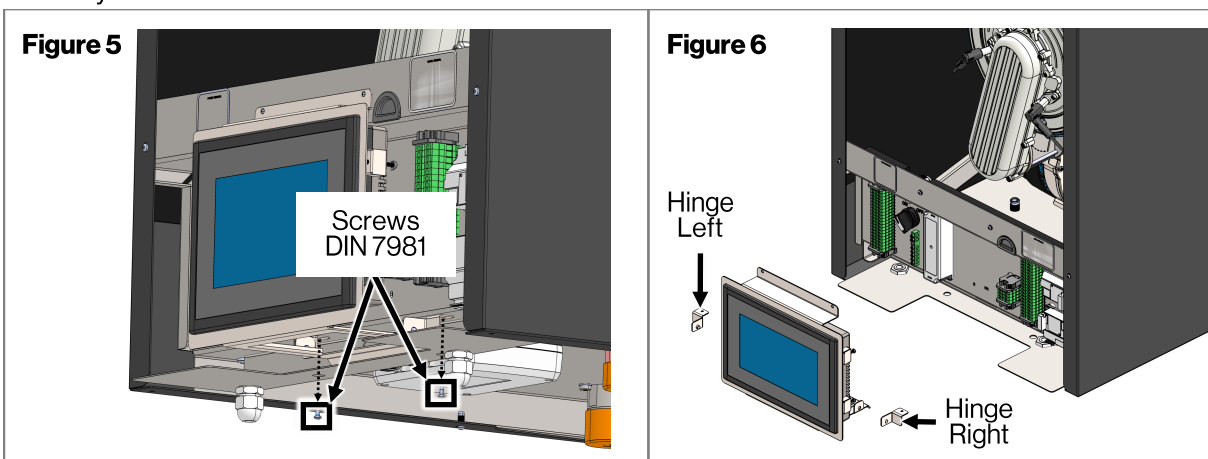
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4. Use a Philips head screw driver to remove two screws located on the bottom of the appliance securing the front panel (Figure 2A). Pull out the bottom of the front panel to clear the display assembly (Figure 2B), then move the front panel up to clear the pins located on top of the appliance (Figure 2C).

Figure 2A

Figure 2B

Figure 2C

5. Disconnect the HMI cable from the HMI (Figure 3). Remove two screws securing HMI bracket (Figure 4).
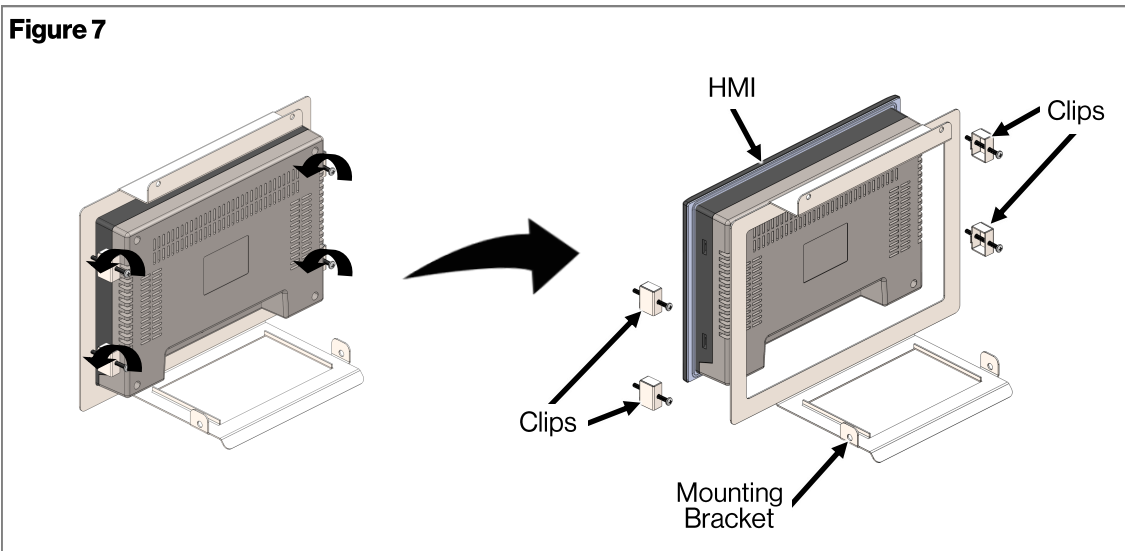
Figure 3

HMI
Connector

Figure 4

Screws

6. Remove two screws from the bottom of the unit holding HMI bracket hinges (Figure 5 & 6). Be careful not to drop the HMI assembly.
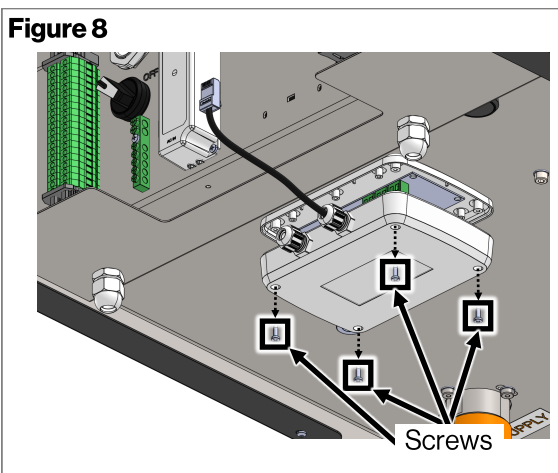
Figure 5

Screws
DIN 7981

Figure 6

Hinge
Left

Hinge
Right

7. To remove HMI panel from the bracket, loosen the four screws on the clips (Figure 7).
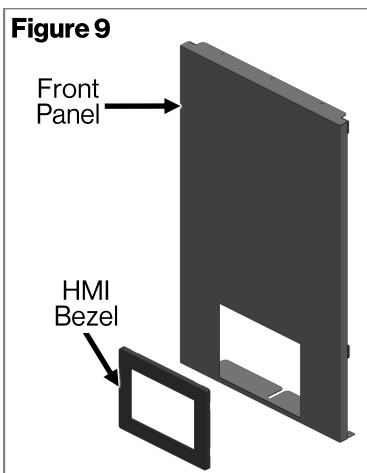
Figure 7

HMI

Clips

Clips

Mounting Bracket

8. To remove HMI Connector from Wi-fi module, use a Phillips head screwdriver to remove four screws holding top cover of Web server card (Figure 8). **Note:** Leave the top cover hanging since the HMI connector and other harnesses are still connected to web server card PCB.

9. To remove HMI connector, loosen cable gland and pull out the HMI connector after the wires* are disconnected (Figure 9).

10. Push out the HMI bezel from the inside to remove it from front panel (Figure 9).
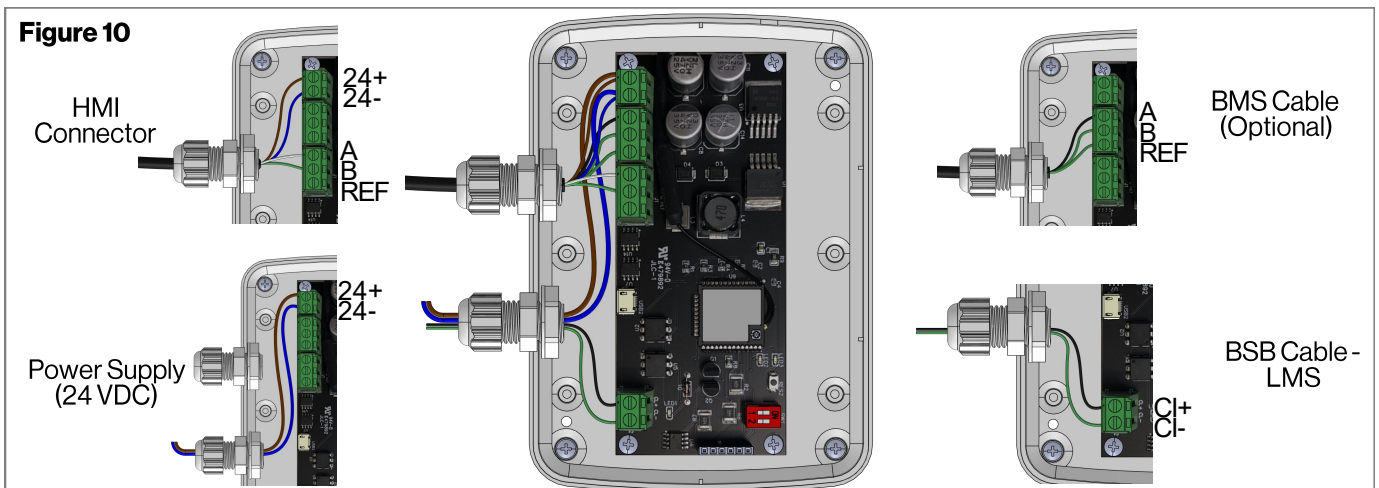
Figure 8

Screws

Figure 9

Front Panel

HMI Bezel

*Wires:

Brown	24+
Blue	24-
Black	A+
Green	B-
Green	G
Green/White	A+
Green	B-
Black	Cl+
Green	Cl-

Figure 10

HMI Connector

24+
24-

A
B
REF

BMS Cable (Optional)

A
B
REF

Power Supply (24 VDC)

24+
24-

BSB Cable - LMS

Cl+
Cl-

HMI Reassembly

1. Attach the new HMI bezel to the front panel (Figure 10).

2. Pass new HMI connector through cable gland to the Wi-fi PCB & connect wires*. Tighten cable gland when wires are secured (Figure 9).

3. Reassemble top cover to Wi-fi module using four screws (Figure 8).

4. Attach new HMI bezel to new HMI bracket using new clips (Figure 7).

5. Line up the HMI bracket assembly with hinges and reassemble hinges to unit using two screws (Figure 5 & 6).

6. Secure HMI bracket using two screws (Figure 4).

7. Reconnect HMI cable to HMI touch panel (Figure 3).

8. Reconnect and turn on 120 V power supply, water supply and gas supply.

9. Confirm proper operation of new HMI installed.

10. Line up front panel assembly to pins located on top side on unit and secure it using two screws on bottom side (Figure 2A, 2B & 2C).

*Wires:

Brown	24+
Blue	24-
Black	A+
Green	B-
Green	G
Green/White	A+
Green	B-
Black	Cl+
Green	Cl-