



OC Panel Kits For Aruba IV (AWR) Gas Hot Water Boilers PN 233200 Freeport II (FWZ) Oil Hot Water Boilers PN 233201

Installation Instruction Sheet

I. Product Description

Select Crown boilers are equipped with control systems that are compatible with the Crown OC (Option Control) Panel. See Figure 1. Crown’s OC Panel system is designed to simplify the installation, operation and service of the entire boiler system and save energy. A variety of “plug-in” OC Panel Cards may be field installed into the OC Panel. See table below for available OC Panel Card Kits. The OC Panel provides mechanical connections, along with the electrical connections to the boiler’s control system. Only wiring to field-installed components is required.

OC Panel Card Kits

Description	Part Number
High Limit Aquastat Kit - Manual Reset	233202
Outdoor Air Reset Kit	233203
Low Water Cutoff Kit - Auto Reset	450602
Low Water Cutoff Kit - Manual Reset	450604

OC (OPTION CARD) PANEL

OC PANEL CARD

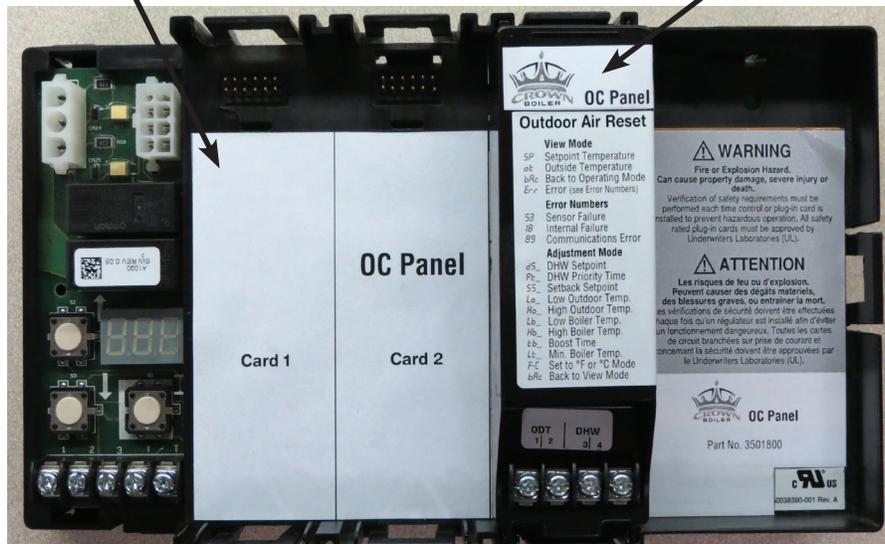


FIGURE 1: OC PANEL SHOWN WITH OC PANEL OUTDOOR RESET CARD

II. OC Panel Kit for AWR Boilers PN 233200

A. Contents

Description	Part Number
OC Panel	3501800
Wire Harness	9601890
Installation Instructions	980769

B. Installation

1. Shut-off all power to the boiler.
2. Remove the front door to access the vestibule compartment.
3. Hook the bottom tabs of the OC Panel into the lower set of notches on the vestibule panel found just above the boiler control mounting bracket then press the tabs located on top of the OC Panel into the upper set of notches on the vestibule panel until they snap into place. See Figure 2.
4. Insert the 3 pole Molex connector into the P7 plug on the Option Panel and insert the 8 pole Molex connector into P6 plug on the Option Panel. For Steps 4 thru 8 see Figure 3.
5. Remove the jumper from Option Plug #1 located on the top of the boiler control bracket next to the heating thermostat terminal connections and discard.
6. Insert the remaining 5 pole Molex connector into Option Plug #1.
7. If there is thermostat wiring connected to the T-T terminals located next to Option Plug #1, remove this wiring from these terminals and reconnect them to the T-T terminals located on the OC Panel. If this is a new installation connect the thermostat wiring to the T-T terminals on the OC Panel and proceed to Step 8.
8. Connect the two remaining black wires from P6 on the OC Panel to the T-T terminals located next to Option Plug #1.
9. Install and set-up OC Panel Cards as specified in the instructions provided with them.
10. Attach the front door to the boiler.

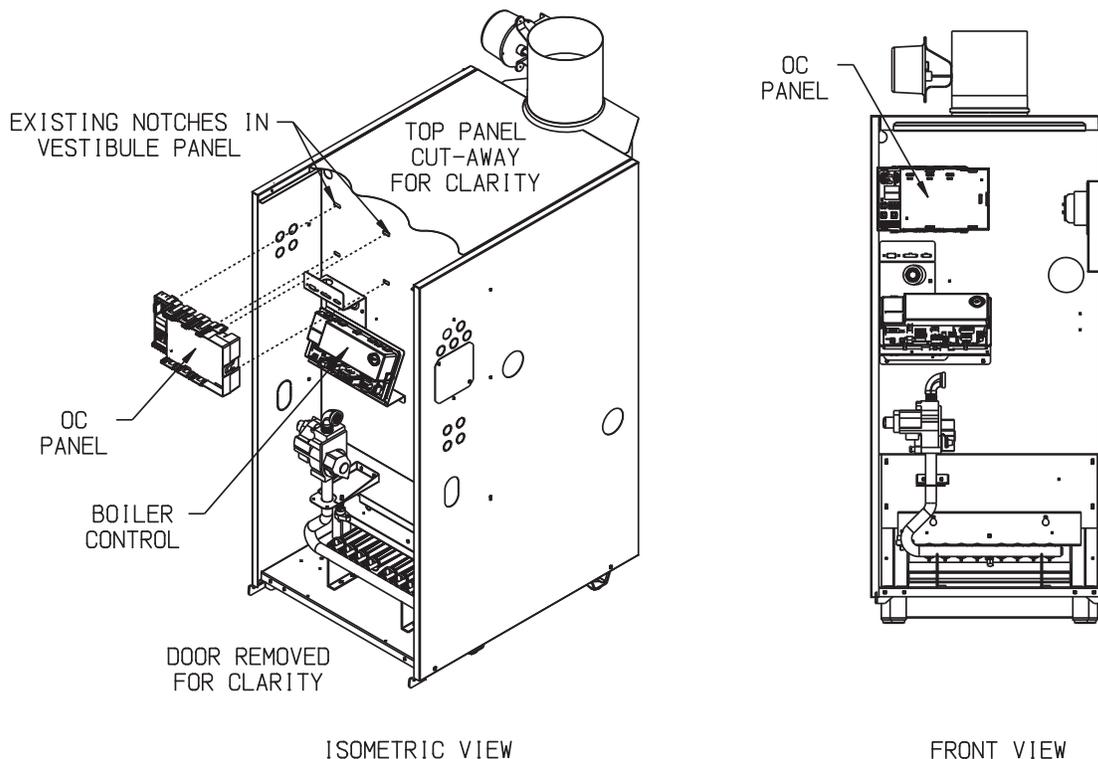


FIGURE 2: LOCATING THE OC PANEL ON AWR BOILERS

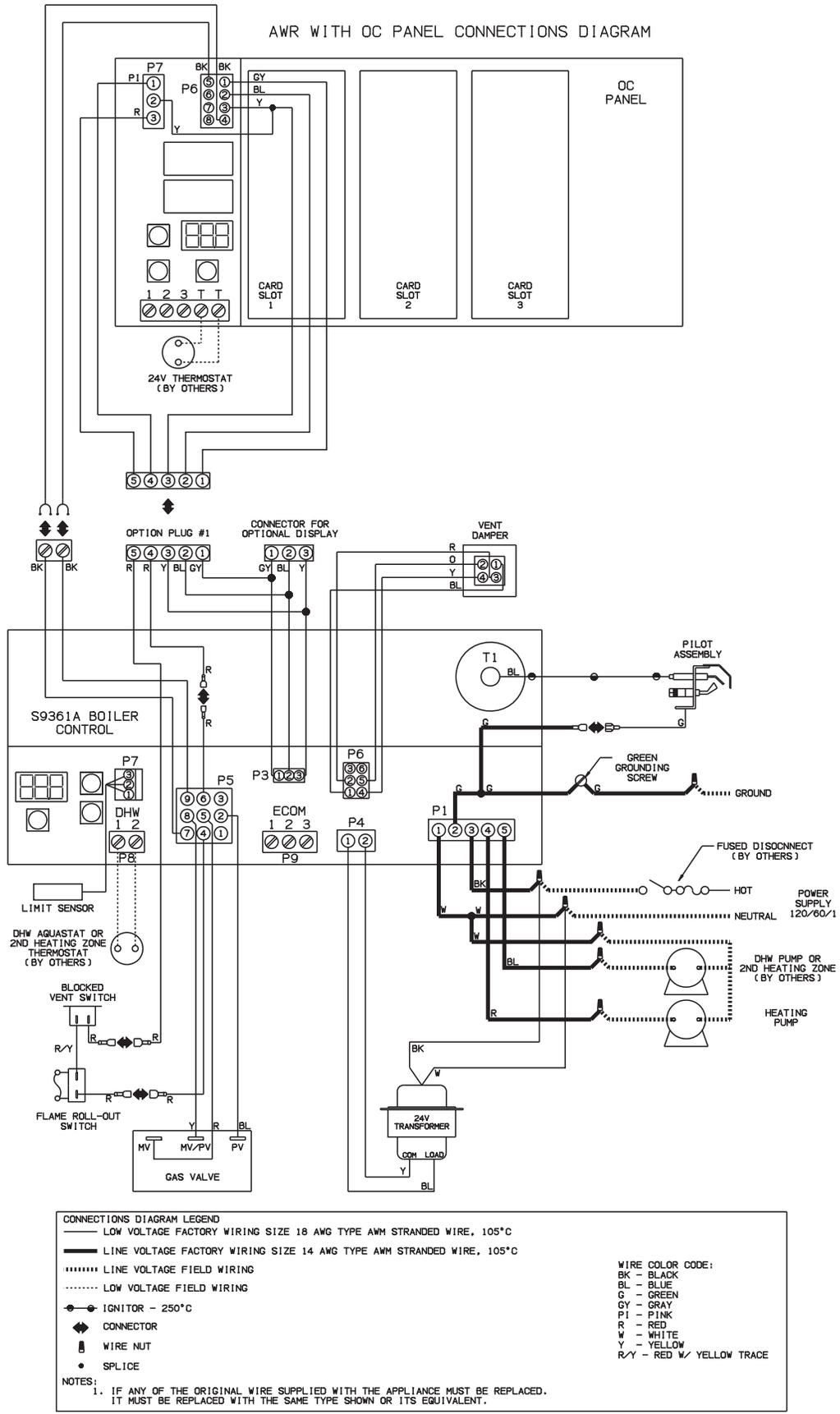


FIGURE 3: WIRING CONNECTIONS DIAGRAM FOR THE OC PANEL ON AWR BOILERS

III. OC Panel Kit for FWZ Boilers PN 233201

A. Contents

Description	Part Number
Console Chassis	410330
Console Cover	410331
(6) #10 x 3/4" Sheet Metal Screw	90-054
(4) 10-32 x 1/2" Machine Screw	900150
Gasket	410100
OC Panel	3501800
AT72D Transformer	3502000
Limit Circuit Wire Harness	9601900
Console Wire Harness	9601901
Option Panel Wire Harness	9601902
(3) Plastic Bushing	960053
Installation Instructions	980769

B. Installation

1. Shut-off all power to the boiler.
2. Remove the boiler control and sensor from the well located on top of the boiler. Do not disconnect the burner wiring from the boiler control.
3. Place the gasket over the well so that it rests on top of the jacket. (Figure 4)
4. The control chassis, OC Panel, transformer and wire harnesses have been preassembled at the factory. Line up the four mounting holes in the control chassis to the prepunched holes on the top jacket panel and fasten with (4) #10 x 3/4" sheet metal screws. See Figure 4.
5. Reinsert the sensor into the well making sure that it is fully bottomed out and remount the boiler control to the well.
6. Refer to Figure 5 for wire routing to the boiler control.
7. If there is thermostat wiring connected to the T-T3 terminals located on the boiler control, remove this wiring from these terminals and reconnect them to the T-T terminals located on the OC Panel. If this is a new installation connect the thermostat wiring to the T-T terminals on the OC Panel and proceed to Step 8. (Figure 6)
8. Connect the two black wires from P6 on the OC Panel to the T-T3 terminals on the boiler control.
9. Connect the green wire (spliced into the yellow wire from P6 to the green grounding screw on the boiler control.
10. Connect the black wire from the transformer to the black wires wire nutted on the boiler control.
11. Connect the white wire from the transformer to the white wires wire nutted on the boiler control.
12. Plug the three pole mini wire connector used for Enviracom communications into J2 on the boiler control.
13. Disconnect the red wire with the female quick disconnect from B1 on the boiler control and reconnect it to the red wire with the male quick disconnect from the wire harness attached to P7 on the OC Panel.
14. Connect the other red wire with the female quick disconnect from the wire harness attached to P7 on the OC Panel to the male tab on B1 located on the boiler control.
15. Connect the remaining white wire from P7 on the OC Panel to the L2 terminal on the boiler control.
16. Install and set-up OC Panel Cards as specified in the instructions provided with them.
17. Slide the console cover over the console chassis from the front and attach the back with four 10-32 x 1/2" machine screws.

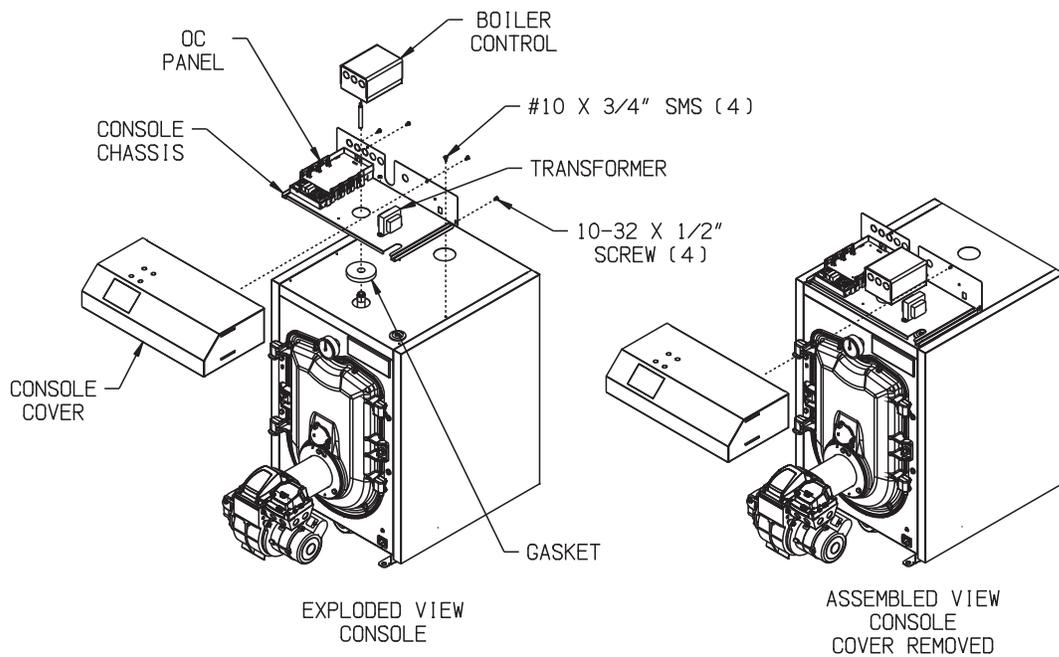


FIGURE 4: LOCATING THE OC PANEL ON FWZ BOILERS

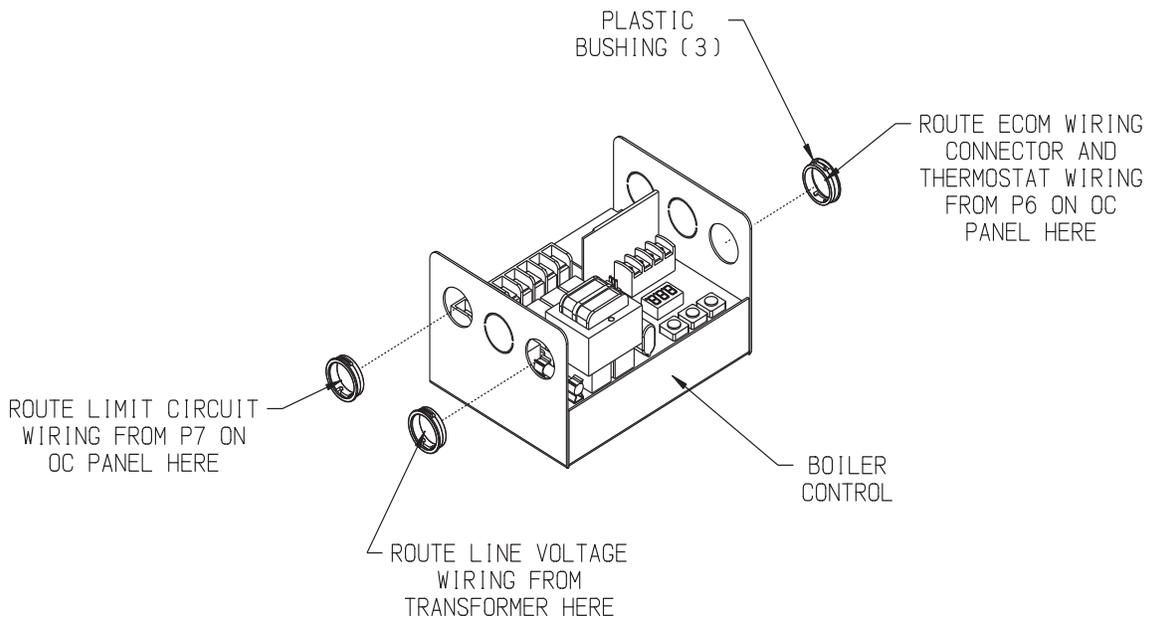


FIGURE 5: FWZ BOILER CONTROL WIRE ROUTING

Notes



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