



# MODERNIZATION ADAPTER PFM2

**Fireye Modernization Adapter Kit is a plug-in assembly designed to assist with the replacement of Fireye 26RJ8 Models using infra-red flame detection or 25RU8 Models using ultraviolet flame detection with new solid state modular Fireye FLAME-MONITOR | #Series Burner Management Controls.**

## DESCRIPTION

Fireye Modernization Adapter Kit is a plug-in assembly designed to assist in the replacement of Fireye 26RJ8 Models using infra-red flame detection or 25RU8 Models using ultraviolet flame detection with new solid state modular Fireye Flame-Monitor Series Burner Management Controls.

PFM2R- PFM2UV Modernization Adapter Kit					
Replaces	Control Unit	Display Module	Programmer Module	Amplifier Module	Scanner
<b>PFM2R</b>					
26RJ8-6058 26RJ8-6060 26RJ8-6068 26RJ8-6160	E110	ED510	EP260 (10 SEC. PTFI) (10 -15 SEC. MTFI)	E1R1	REPLACE 48PT1 CELL WITH 4-263-1 OR USE 48PT2
<b>PFM2UV</b>					
25RU8-6558 25RU8-6560	E110	ED510	EP260	EUV1	REPLACE 45UV2 SCANNER WITH UV1A SCANNER

<p>A standard <b>PFM2R</b> Modernization Kit contains the following:</p> <ul style="list-style-type: none"> <li><b>E110</b> Control (120V 50/60 Hz)</li> <li><b>ED510</b> Display Module</li> <li><b>EP260</b> Programmer Module</li> <li><b>E1R1</b> Amplifier Module</li> <li><b>4-263</b> Firetron Cell and Label</li> <li><b>60-2060-3</b> Adapter</li> </ul>	<p>A standard <b>PFM2UV</b> Modernization Kit contains the following:</p> <ul style="list-style-type: none"> <li><b>E110</b> Control (120V 50/60 Hz)</li> <li><b>ED510</b> Display Module</li> <li><b>EP260</b> Programmer Module</li> <li><b>EUV1</b> Amplifier Module</li> <li><b>UV1A6</b> Scanner</li> <li><b>60-2060-3</b> Adapter</li> </ul>
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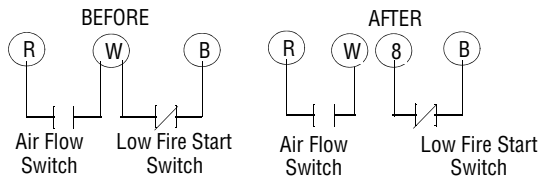
**NOTE:** E110 consists of: EB700  
EC600 Dust Cover  
Mounting Screw (48-1836)

**NOTE:** The original enclosure wiring terminal board may have been exposed to oil, moisture, dirt, etc. which could be absorbed by the board and cause leakage current across signal terminals 14 and 15. Leakage current will cause a false signal to be generated. It may be advisable to re-wire using wiring base 60-1466-2 or 60-1386-2.

1. Loosen the two chassis retaining screws and remove chassis from enclosure. Note type and model number.



2. For 26RJ8, 6058, 6068, and 25RU8 6558 only re-connect the low-fire start interlock or any other starting interlock on the enclosure terminal board as follows:



The above is not necessary with 26RJ8 6060, 6160D, 25RU8 6560.

3. When a 26RJ8-6059 or 25RU8-6558 control is replaced, a jumper wire must be installed between terminals 12 and 13 on the enclosure terminal board.
4. When a 26RJ8-6060, 6160D or 25RU8-6558, 6560 control is replaced, if the ignition transformer is connected to terminal 1 it must be re-connected to terminal 5 on the enclosure terminal board.
5. Note the typical circuit diagrams figure for complete information.
6. Install the modernization adapter and tighten the two retaining screws.



7. Assemble the control and modules and install the unit into the modernization adapter. Tighten the chassis retainer.



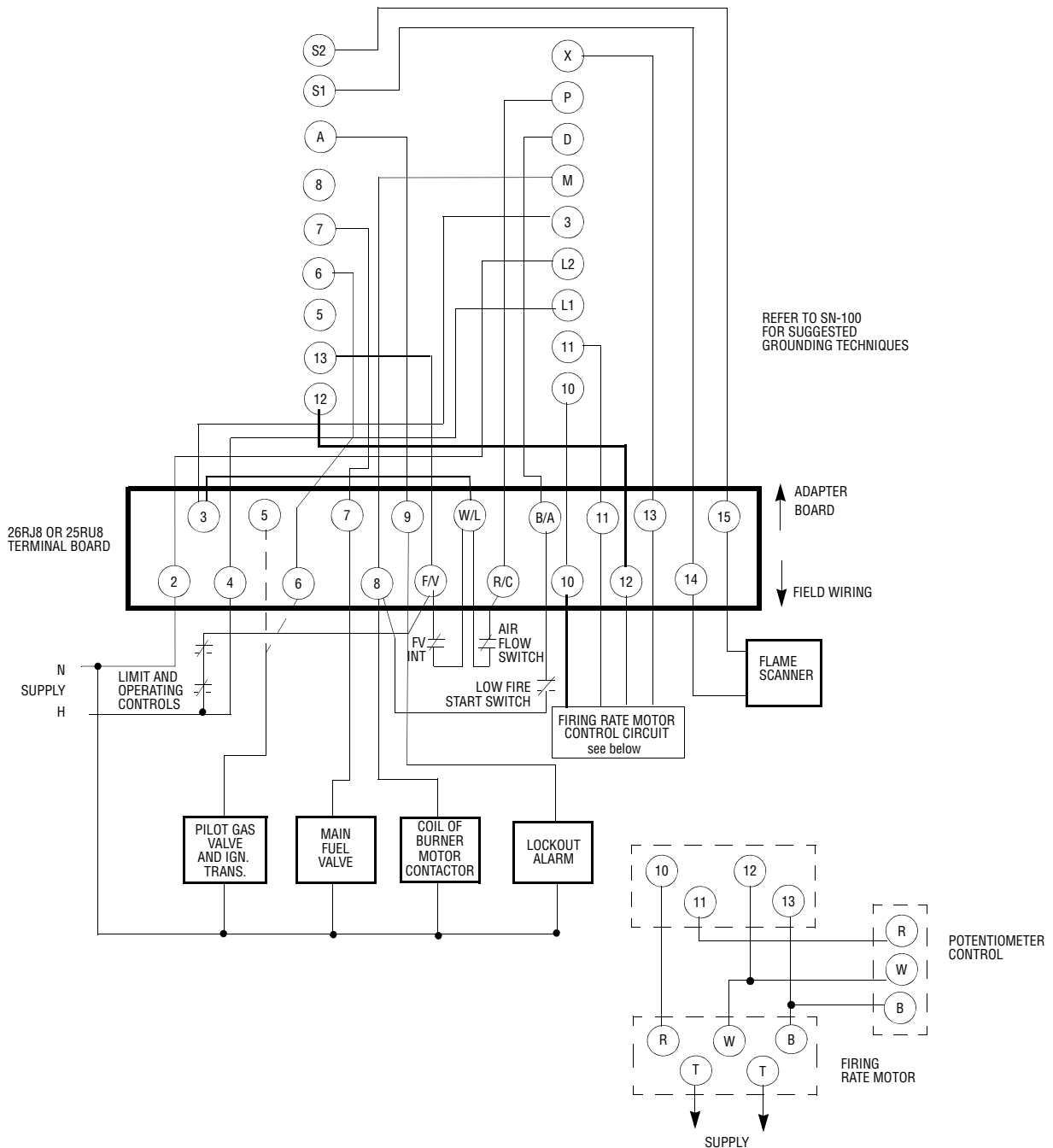
8. Replace the #4-128 Firetron cell in the scanner with the #4-263 Firetron cell. Attach the label supplied with the #4-263 Firetron cell to the scanner body.



9. Replace the 45UV2 scanner with UV1A6, and connect it to the existing wires. Scanner installation requires modification of the mounting pipe, 45UV2 1010 mounts on unthreaded 3/4" pipe, 45UV2 1020 mounts on threaded 1/2" pipe, UV1A6 mounts on threaded 1/2" pipe.
10. Turn the power on (refer to bulletins E-1101 and EP-2601). Initiate a normal burner start-up and operational test as described for the EP260 program used.
11. For assistance with non-standard installations, contact your Fireeye distributor.



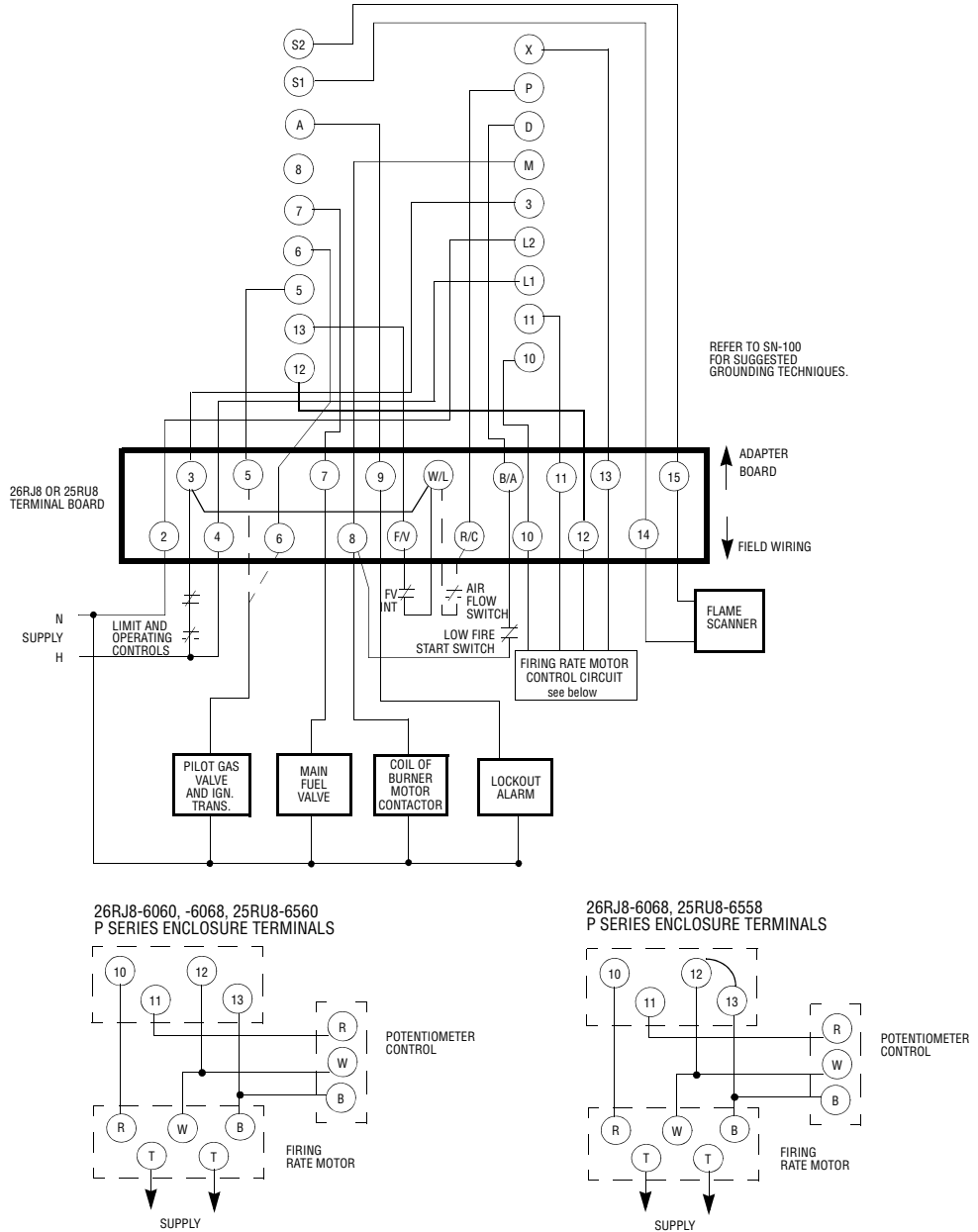
Typical circuit diagram for modernizing a Fireye 26RJ8-6160D Control installation using a 60-2060-2 Modernization Adapter with a Fireye Flame-Monitor series control, consisting of an E110 control, an ED510 Display Module, an EP260 Programmer and E1R1 Amplifier.





Below is a typical circuit diagram for modernizing a Fireye 26RJ8-6058, 6060, 6068 control installation using a 60-2060-2 modernization adapter with a Fireye Flame-Monitor control consisting of an E110 control, ED510 display module, EP260 programmer and E1R1 amplifier, or a 25RU8-6558, 6560 control installation using a 60-2050-2 modernization adapter with a Fireye Flame-Monitor series, consisting of E110 control, ED510 Display Module, EP260 programmer and EUV1 amplifier.

1. CAUTION: Examine the enclosure terminal board. If there is a screw in the FV terminal position, remove it or replace the terminal board with #61-3057. The PFM Adapter may be short circuited if the screw is not removed.
2. 26RJ8-6058, -6060, -6068, 25RU8-6558, -6560. If a fuel valve proof of closure switch is not used, a jumper must be installed between terminals FV and W/L on the enclosure terminal board. If the enclosure terminal board does not have FV terminal use red jumper provided in 60-2060-2 adapter box and jumper FV to W/L on the adapter.
3. 26RJ8-6058, -6060, -6068, 25RU8-6558, -6560. If a fuel valve proof of closure switch is added to the installation, connect the switch to terminals FV and W on the Enclosure terminal board. Remove the wire going to terminal 3 from the operating controls and connect to the FV terminal as shown with the dotted lines. If a fuel valve proof of closure switch is added to the installation, and the enclosure terminal board does not have an FV terminal, replace the terminal board with Part Number 61-3057.



NOTE: 26RJ8-6160D IF A FUEL VALVE PROOF OF CLOSURE SWITCH IS NOT USED, A JUMPER MUST BE INSTALLED BETWEEN TERMINALS FV AND W/L ON THE ENCLOSURE TERMINAL BOARD. IF THE ENCLOSURE TERMINAL BOARD DOES NOT HAVE FV TERMINAL, USE RED JUMPER PROVIDED IN 60-2060-2 ADAPTER BOX AND JUMPER FV TO W/L ON THE ADAPTER.



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