






MODERNIZATION ADAPTER PFM3

FIREYE™ Modernization Adapter PFM3 is a plug-in assembly designed to assist with the replacement of Fireye 26RJ8 Model 6070 using infrared flame detection or 25RU8 Model 6570 using ultraviolet flame detection with new solid state modular Fireye™ FLAME-MONITOR | #Series Burner Management Controls.

PFM3R — PFM3UV MODERNIZATION ADAPTER KIT						
	REPLACES	CONTROL UNIT	DISPLAY MODULE	PROGRAMMER MODULE	AMPLIFIER MODULE	SCANNER
PFM3R	26RJ8 6070	E110	ED510	EP160* (10-15 SEC. TFI) OR EP161 (10-30 SEC. TFI) OR EP170 (10 SEC. TFI AND SPARK CUTOFF)	E1R1	REPLACE 48PT1 CELL WITH 4-263 OR USE 48PT2 SCANNER
PFM3UV	25RU8 6570			EUV1	REPLACE 45UV2 SCANNER WITH UV1A SCANNER	
  						
<p>*EP160 Programmer module is included with the PFM3 Adapter kits. Certain applications may require extended TFI timing (EP161) or early spark termination (EP170).</p>						

<p>A standard PFM3R Modernization Kit contains the following:</p> <ul style="list-style-type: none"> E110 Control (120V 50/60 Hz) ED510 Display Module EP260 Programmer Module E1R1 Amplifier Module 4-263 Firetron Cell and Label 60-2060-3 Adapter 	<p>A standard PFM3UV Modernization Kit contains the following:</p> <ul style="list-style-type: none"> E110 Control (120V 50/60 Hz) ED510 Display Module EP260 Programmer Module EUV1 Amplifier Module UV1A6 Scanner 60-2060-3 Adapter
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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 the chassis from its enclosure. Note the chassis type and model number.



5. Install the Modernization adapter and tighten the two retaining screws.



FOR PFM3R Infrared

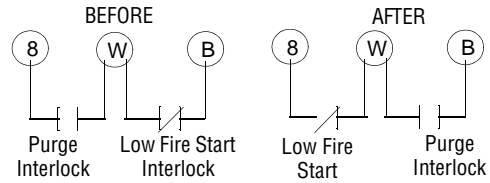
7. Replace the #4-128 Firetron cell in the scanner with the #4-263 Firetron cell. Attach the label supplied with the #4-263 Firetron cell, to the scanner body



For PFM3UV ultraviolet

8. 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 $\frac{3}{4}$ " pipe, 45UV2 1020 mounts on threaded 1" pipe, UV1A6 mounts on threaded $\frac{1}{2}$ " pipe.

2. Reconnect the low fire start interlock or any other starting interlock on the enclosure terminal board as follows:
3. Assure that there are no electric power consuming devices (Lamps, annunciators, relays, timers) connected to the W or B terminal board.



If the need arises for an auxiliary function, refer to the recommendations in bulletin EP-1601.

NOTE: Leave the burner motor contactor connected to terminal 8. See complete wiring diagram on the next page.

4. Note the typical circuit diagrams figure for complete information.

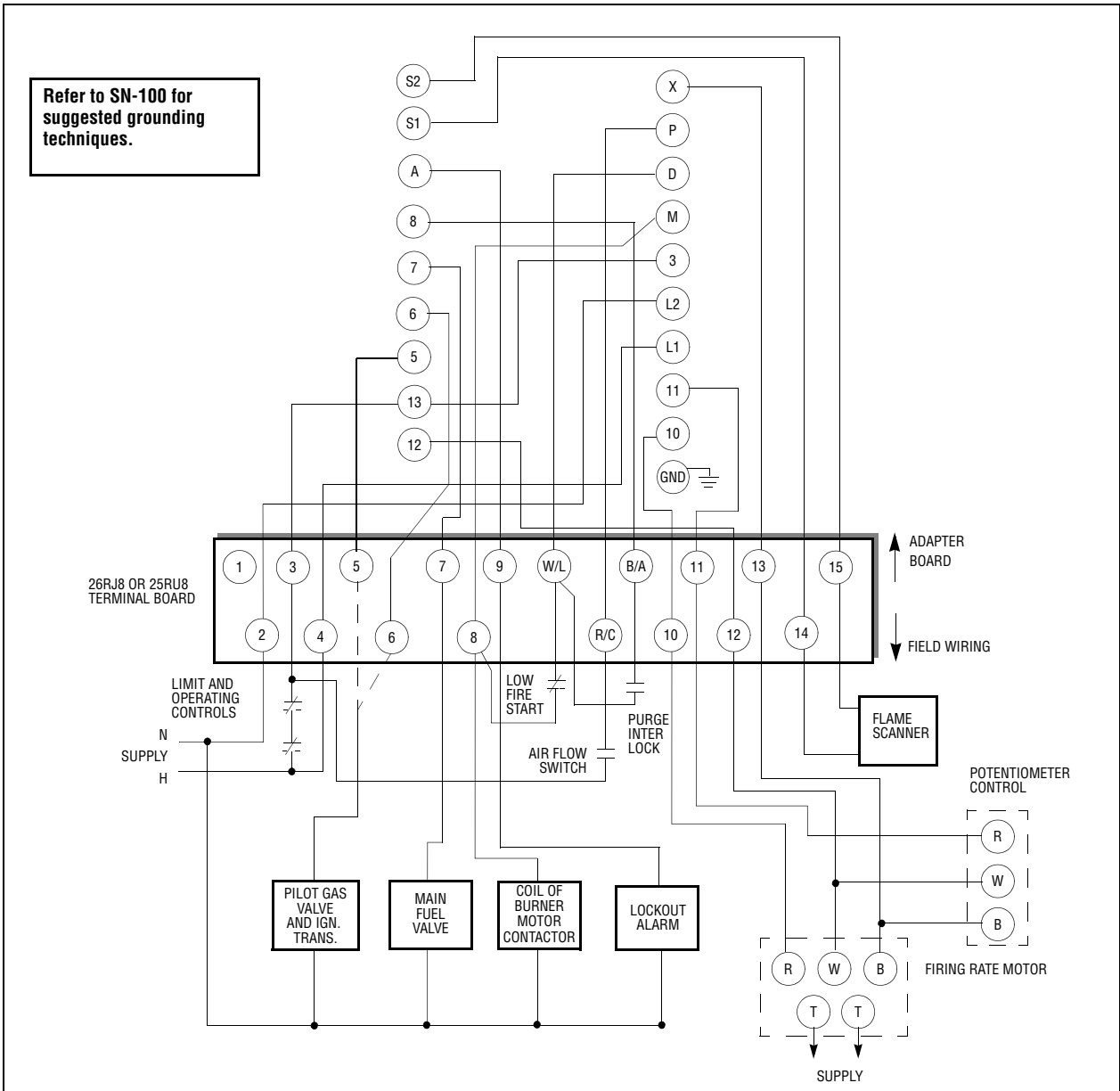
6. Assemble the control and modules and install the unit into the Modernization Adapter. Tighten the chassis retainer.



9. Referring to Fireeye Bulletins E-1101 and EP-1601, turn the power on. Initiate a normal burner start-up and operational test as described for the EP160 Programmer used.

10. For assistance with non-standard installations contact any Fireeye Distributor (listed in the Yellow Pages under *Controls*).

Typical circuit diagram for modernizing a Fireye 26RJ8-6070 control installation using a 60-2060-3 Modernization Adapter with a Fireye Flame-Monitor control, comprising E110 Control, ED510 Display, EP160 Programmer and E1R1 Amplifier, or 25RU8-6570 control installation using a 60-2060-3 Modernization Adapter with a Fireye Flame-Monitor series control, comprising E110 Control, ED510 display, EP160 programmer and EUV1 Amplifier.



Note: For systems with ignition connected to terminal 1, disconnect and move to terminal 5. For early spark termination, replace EP160 with EP170, move ignition transformer to terminal 5 and pilot valve to terminal 6.



NOTICE

When Fireeye products are combined with equipment manufactured by others and/or integrated into systems designed or manufactured by others, the Fireeye warranty, as stated in its General Terms and Conditions of Sale, pertains only to the Fireeye products and not to any other equipment or to the combined system or its overall performance.

WARRANTIES

FIREYE guarantees for *one year from the date of installation or 18 months from date of manufacture* of its products to replace, or, at its option, to repair any product or part thereof (except lamps, electronic tubes and photocells) which is found defective in material or workmanship or which otherwise fails to conform to the description of the product on the face of its sales order. **THE FOREGOING IS IN LIEU OF ALL OTHER WARRANTIES AND FIREYE MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED.** Except as specifically stated in these general terms and conditions of sale, remedies with respect to any product or part number manufactured or sold by Fireeye shall be limited exclusively to the right to replacement or repair as above provided. In no event shall Fireeye be liable for consequential or special damages of any nature that may arise in connection with such product or part.



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