



MODERNIZATION ADAPTER PD4

DESCRIPTION

FIREYE® Modernization Adapter PD4 assists with the replacement of FIREYE 26SJ5 models listed below using infrared or rectification flame detection, with solid state modular FIREYE D40-41 Series Burner Management Controls.

PD4 MODERNIZATION ADAPTER KIT*			
REPLACES	CONTROL UNIT	AMPLIFIER MODULE	SCANNER
26SJ5-1000 1102 6000 6002 5900T 5901T 5903	70D40 FOR 120VAC OPERATION OR 70D41 FOR 230VAC* OPERATION	72D1R1	REPLACE 48PT1 CELL WITH 4-263 OR USE 48PT2 SCANNER
26SJ5-1150 1152 6052 6152		72DRT1	REUSE 69ND1 FLAME ROD*
<p>*The Standard PD4 Modernization Adapter Kit contains the following:</p> <p>70D40 Control (120V 50/60Hz) 72D1R1 Amplifier Module 4-263 Firetron Cell and Label 60-2060-4 Adapter D-4041 Bulletin</p> <p>*For 230VAC or Flame Rod applications, order components separately.</p>			

INSTALLATION



Caution: Installer must be trained safety control technician. Verify that electrical power is disconnected before starting installation.

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



2. The circuit diagram on the next page illustrates the interconnection between the 26SJ5 and 70D40, 41 control, and illustrates the recommended method of connecting the supply, limit switch, and momentary start switch. It also illustrates the two SPDT load switch circuits, whose function is the same for both 26SJ5 and 70D40, 41 controls. All wiring must have 600 volt insulation. If a Fireye 51CQI push-button pilot light assembly is installed, a jumper wire must be installed across the pilot light socket.

3. 26SJ5 models 1150, 1152, 6052, 6152 units permitted the use of both infrared and rectification flame rod methods of flame detection. The 70D40, 41 units do not have dual capability. 72D1RT1 Amplifier is used for rectification flame rod method of flame detection. 72D1R1 Amplifier is used for infrared flame detection. Note the typical circuit diagram for complete information.

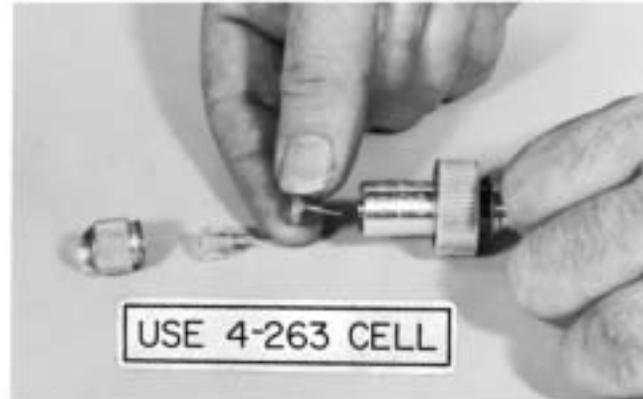
4. Install the Modernization adapter and tighten the two retaining screws.



5. Assemble the control and module and install the unit into the modernization adapter. Tighten the chassis retainer.



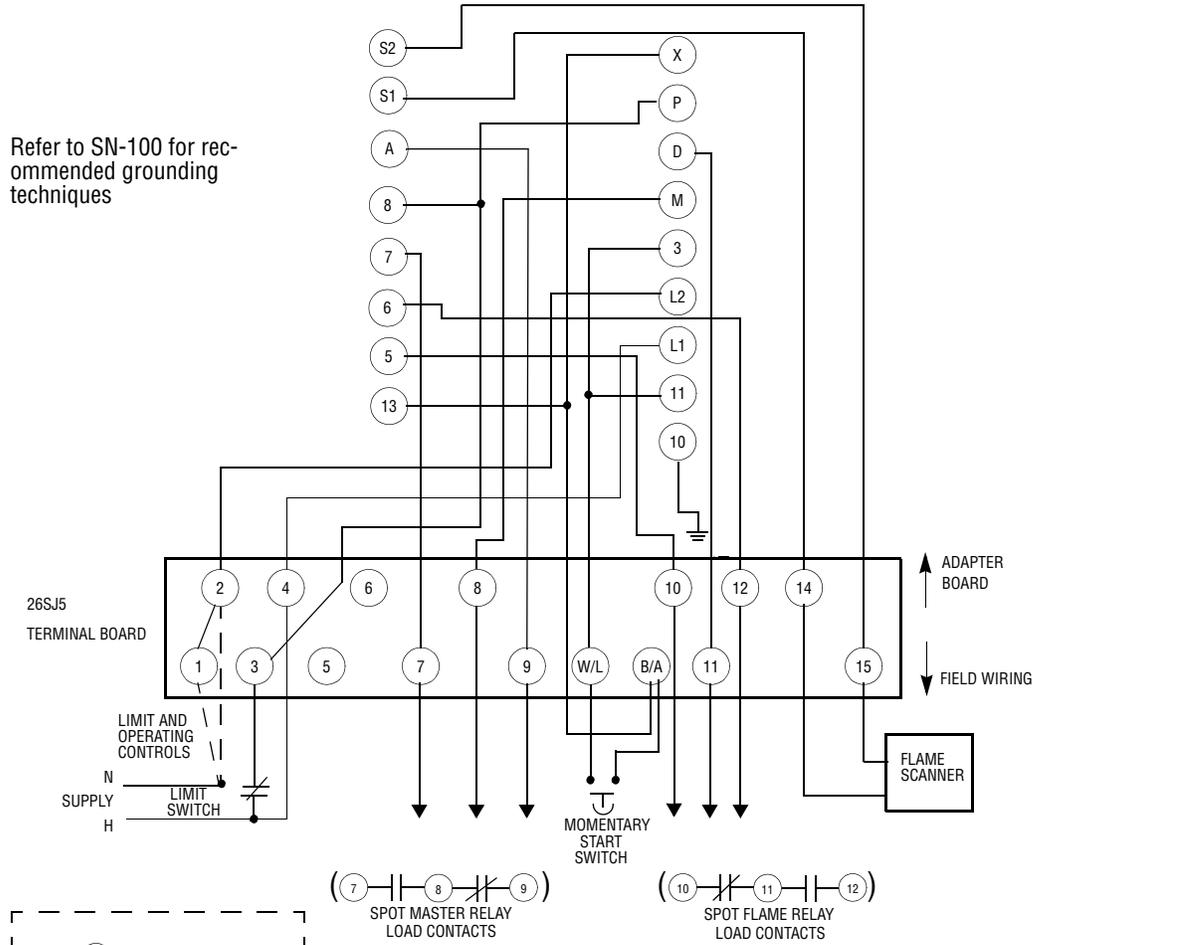
6. Replace the #4-128 Firetron cell in the scanner with the #4-263 firetron cell. Attach the label supplied with the 4-263 Firetron cell to the scanner body.



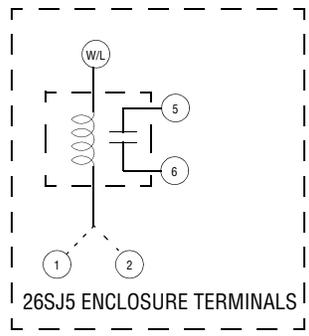
7. Referring to Fireye bulletin D-4041, turn on the power. Initiate a normal burner start-up and operational test as described for the D40 control unit.

8. For assistance with non-standard installations contact a Fireye Distributor (listed in the yellow pages under "Controls").

FIGURE 1. Typical basic circuit diagram for modernizing a Fireye 26SJ5 Control installation, using a 60-2060-4 Modernization Adapter with a Fireye D Series, comprising 70D40 (120V), 70D41 (230V) Control and 72D1R1 infrared Amplifier or 72DRT1 rectification Amplifier



Refer to SN-100 for recommended grounding techniques



Caution:

Check Terminal 7 on Existing Installation

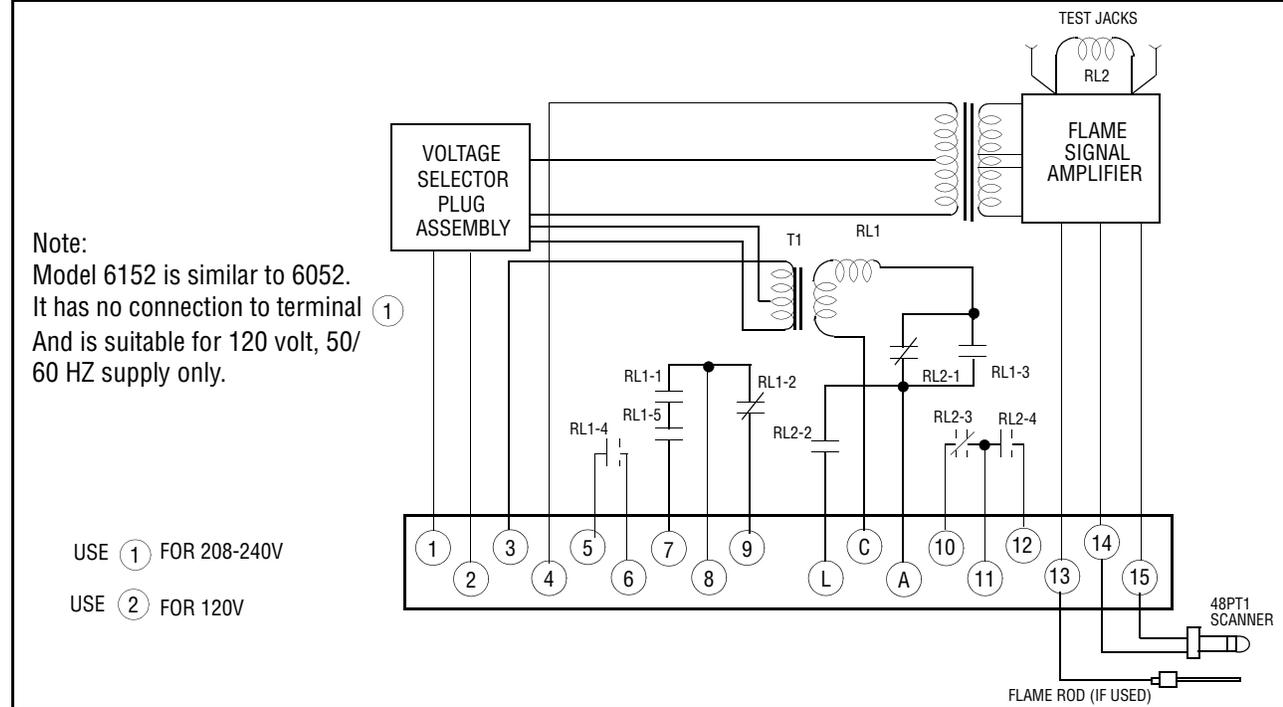
Do not exceed maximum contact rating on terminal 7 of 70D40, 41

Maximum Rating of Each External Load Terminal

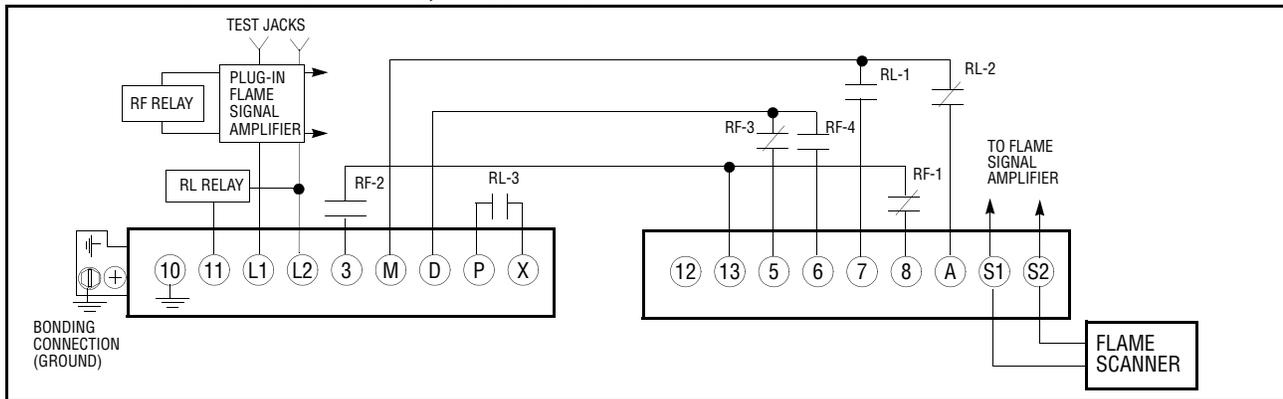
70D40 @ 120 VAC 5 AMPS or 125 VA Pilot Duty
70D41 @ 230 VAC 2.5 AMPS or 125 VA Pilot Duty

Note: Fireye 26SJ5 Controls include a SP-N.O. load circuit at terminals 5 and 6, which cannot be included when a PD4 Modernization Adapter Kit is used. If the 5-6 circuit function is desired, add auxiliary relay, connection as shown above. The terminal board pins on the 60-2060-4 Adapter at terminals 5 and 6 have been removed.

26SJ5-MODELS 6052, 6152 SCHEMATIC DIAGRAM



INTERNAL WIRING DIAGRAM OF TYPE D40, D41 CONTROLS



NOTICE

When Fireye products are combined with equipment manufactured by others and/or integrated into systems designed or manufactured by others, the Fireye warranty, as stated in its General Terms and Conditions of Sale, pertains only to the Fireye 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 Fireye shall be limited exclusively to the right to replacement or repair as above provided. In no event shall Fireye be liable for consequential or special damages of any nature that may arise in connection with such product or part.