



M SERIES



MicroM

MODERNIZATION ADAPTER 60-1764

Assists with the Replacement of an
RA890 with the M-Series II or
MicroM Control System

DESCRIPTION

Modernize an existing RA890 Control installation by installing a Fireye M Series Control.

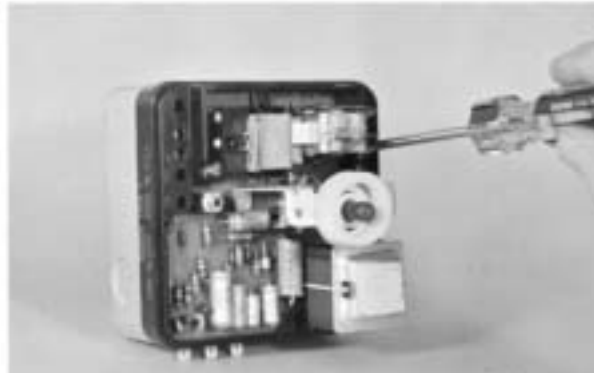
SPECIAL FEATURES

	M-SERIES II	MicroM
Flame Detection	UV Flame Rod	UV Flame Rod UV Self-Check Infrared
Safety Timings	Solid State Logic	Micro Processor Controlled
Temperature Range	-40°F to +125°F	-40°F to +140°F
Indication	Status LED's	Status LED's
Diagnostics	Alarm LED	Smart LED's
Design Footprint	Modular	Modular
Trial for Ignition	5 or 10 seconds Program Specific	5 or 10 seconds Program Specific
Flame Failure Response Time	0.8 or 2-4 seconds	0.8 or 3 seconds
Compatibility	No Re-wiring Required	No Re-wiring Required
Fireye Bulletin	C-4000	MC-5000

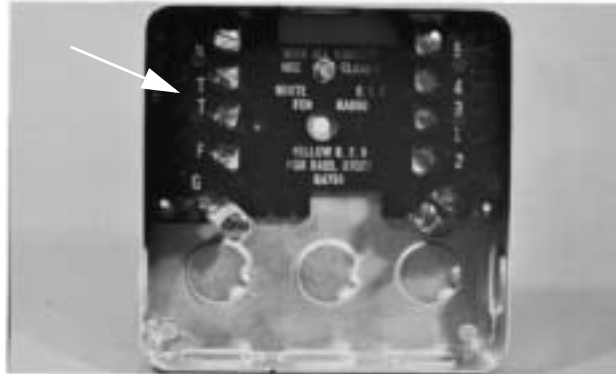


CAUTION: Installer must be a trained safety control technician. Verify that electrical power is disconnected before starting installation.

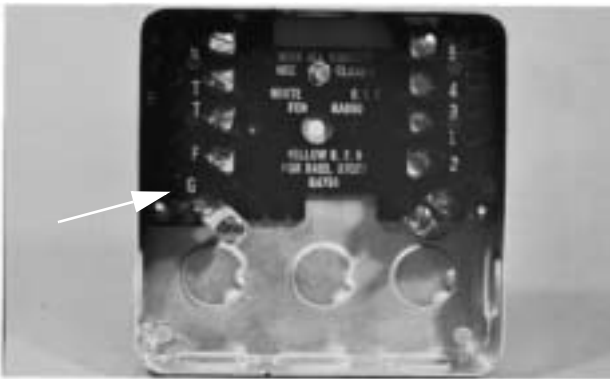
1. Loosen the 10 chassis retaining screws and remove the RA890 from the wiring base. Verify that the installation operates at 120 volts.



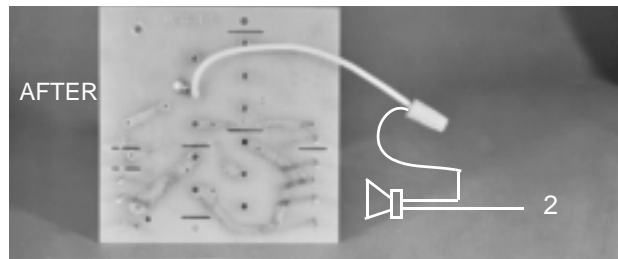
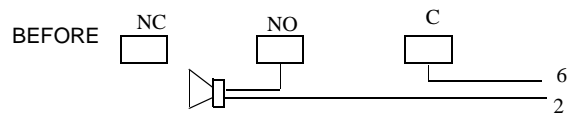
2. Verify that the wires connected to terminals T7, T6 on the Q270 wiring base are rated for line voltage and that all switches and controllers in this circuit are rated for line voltage.



3. If a Fireye UV amplifier is to be installed, remove the ground strap from terminals G on the Q270 Wiring base. If a flame rectification amplifier is to be installed, do not remove the ground strap.

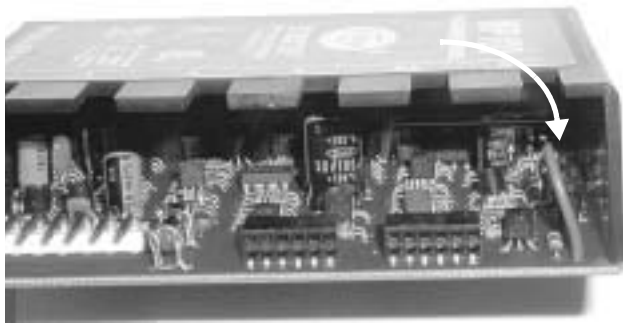


4. The Fireye M-Series II or MicroM Controls provide a line voltage alarm circuit that is powered following a safety lockout. If the RA890 installation includes a line voltage alarm circuit, reconnect it as follows:

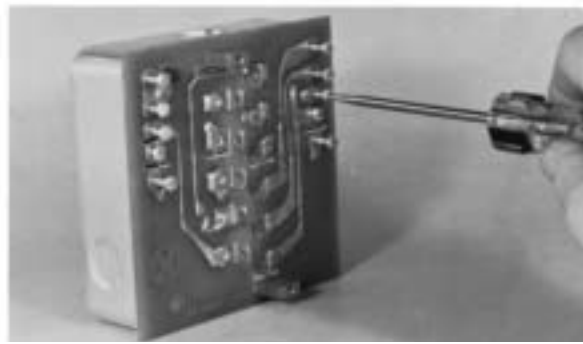


5. If a Fireye UV amplifier is to be installed, mount and wire a Fireye UV1A, UV1B or UV2 Flame Scanner following the instructions provided in Fireye Bulletin C-4000 or MC-5000.
If a Fireye flame rectification amplifier is to be installed, use the existing flame rod.
Refer to cross reference listing for proper selection of components.

6. If a Fireye MART is being installed on an installation equipped with a constant pilot, clip out the red wire loop on the MP100 programmer.



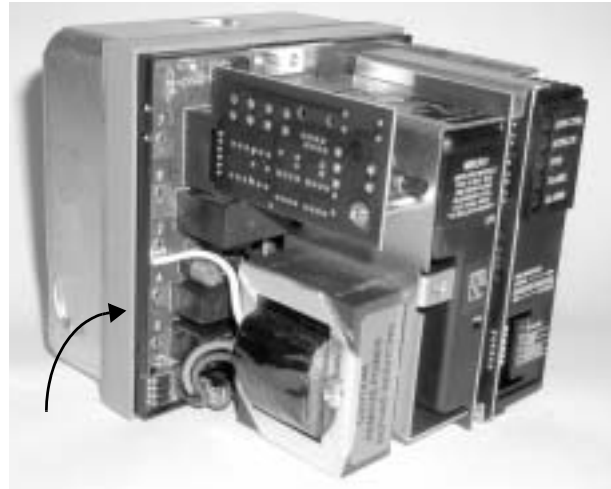
7. Install the Fireye 60-1764 Modernization Adapter and tighten the 10 retaining screws.



8. Install the Fireye M Series Control and tighten the two chassis retaining screws.



9. Wrap the supplied self-stick gasket around adapter to provide insulation.



10. Install the Fireye cover and tighten the retainer.

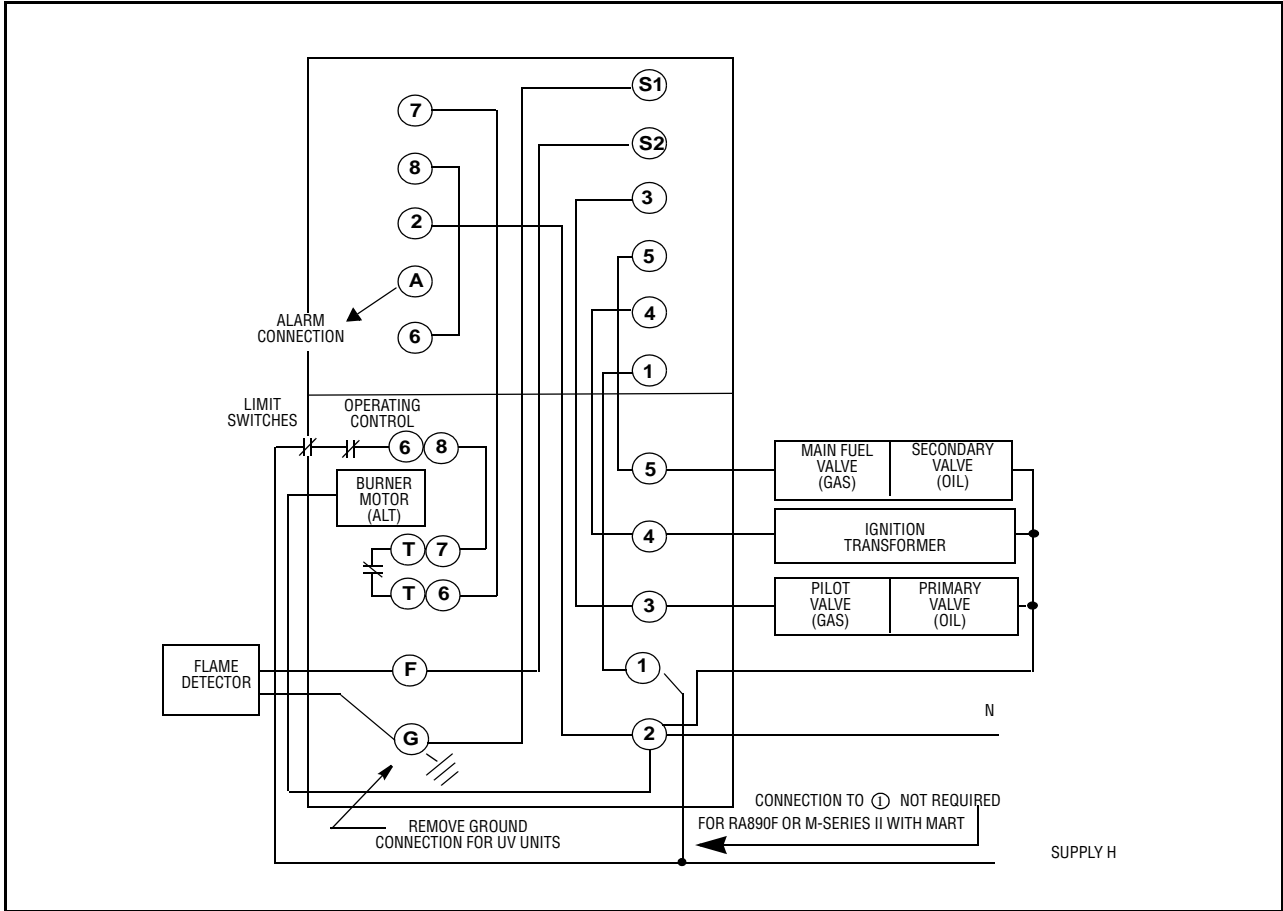


11. Referring to Fireye bulletins C-4000 or MC-5000, turn power on. Initiate a normal burner start-up and operational test as described for the installed control.

12. For assistance with non-standard installation, contact a Fireye Distributor.

M-SERIES TO M-SERIES II TO MICROM CROSS REFERENCE LISTING

M-SERIES Part Number	M-SERIES II REPLACEMENT MODULES				MicroM REPLACEMENT MODULES				
	Chassis	Amplifier	Programmer	Programmer Dipswitch #8	Chassis	Amplifier	Programmer	Programmer Dipswitch #6	
UVM1D	MC120	MAUV1T	MP100	N/A	MEC120	MEUV1	MEP100	N/A	
UVM1F	MC120	MAUVI	MP100	N/A	MEC120	MEUV4	MEP100	N/A	
TFM1D	MC120	MART1T	MP100	See Note #1	MEC120	MERT1	MEP100	N/A	
TFM1F	MC120	MART1	MP100	See Note #1	MEC120	MERT4	MEP100	N/A	
- N/A — Not Applicable					- N/A — Not Applicable				
- Programmer Dipswitches apply to MP230H, and MP560 only - Note #1: For Standing Pilot, clip out red jumper on MP100. - Note #2: Dipswitch #8 ON when red jumper of UVM6 is clipped.					- Programmer Dipswitches apply to ME200, and ME500 Series Programmers				



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.



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