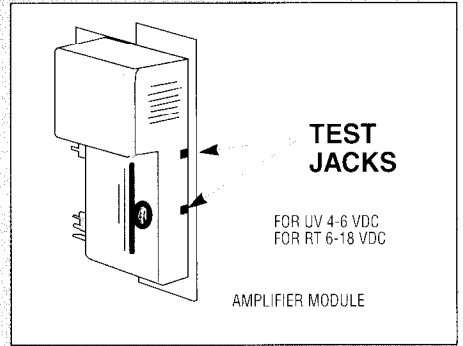
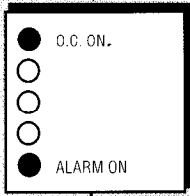


# M-SERIES II SERVICE GUIDE

## SITUATION #1 NORMAL LOCKOUT



NO HEAT



INSTALL DC VOLTMETER  
IN TEST JACKS

SHUT FUEL  
SUPPLY COCK

WAIT  
5  
MIN

RESET CONTROL

IS HEAT BEING  
CALLED FOR?  
NO → MAKE IT CALL FOR HEAT  
YES →

DID OPERATE  
CONTROL LED  
COME ON?  
NO → SEE SITUATION #2  
YES →

DID AIR FLOW  
LED  
COME ON?  
NO → SEE SITUATION #3  
YES →

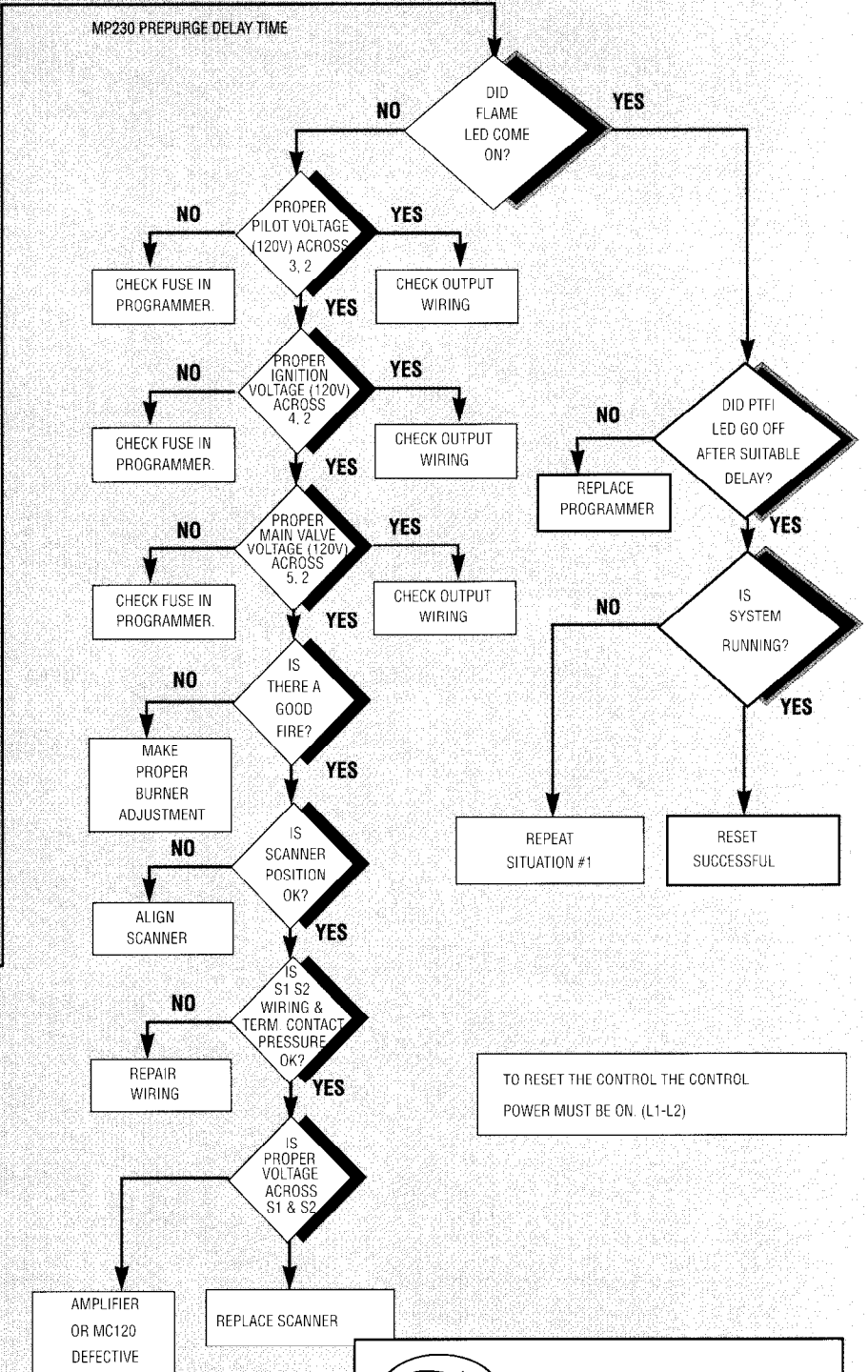
DID PTFI LED  
COME ON AFTER  
SUITABLE  
DELAY?  
YES →

IS PROGRAM.  
WINDOW  
CLOSED?  
NO → CLOSE WINDOW  
AND REPEAT  
SITUATION #1  
YES →

PROGRAMMER OR  
MC120 DEFECTIVE

MP100 4-7 SECONDS

MP230 PREPURGE DELAY TIME



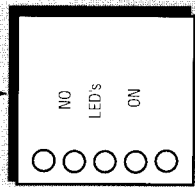
TO RESET THE CONTROL THE CONTROL  
POWER MUST BE ON. (L1-L2)



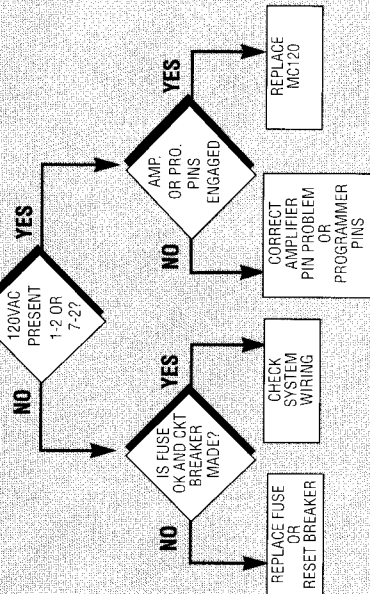
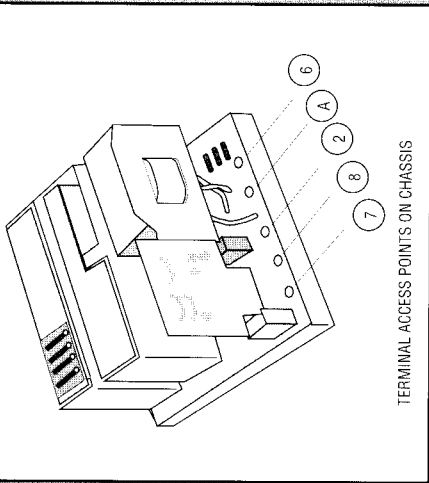
FLAME SAFEGUARD CONTROLS  
MTS-1 March 1998

### SITUATION #2

NO HEAT



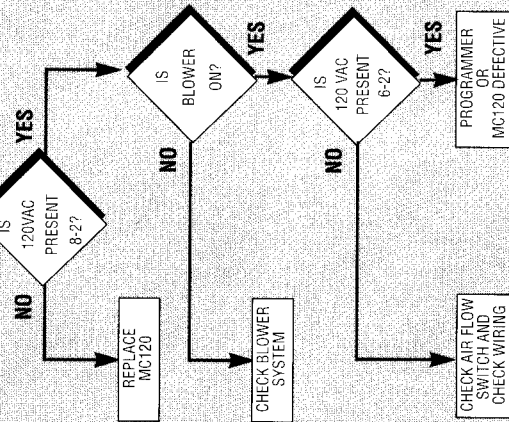
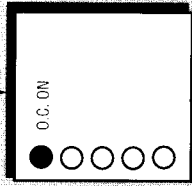
TERMINAL ACCESS POINTS ON CHASSIS



M-Series Fuse 2AG 8 amps.  
 Fireye Part Number: 23-176  
 or  
 Little Fuse Number: 225008

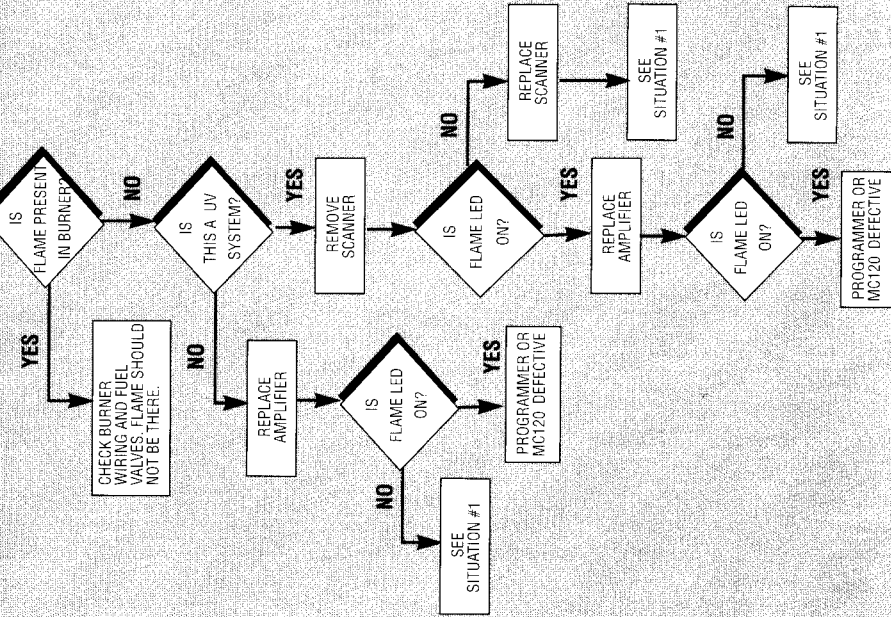
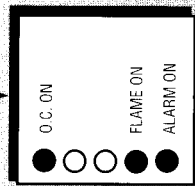
### SITUATION #3

NO HEAT



### SITUATION #4

NO HEAT



### TROUBLESHOOTING TIPS

1. Verify that there is a solid earth ground wire brought to the panel that the Fireye base is mounted to.
2. In a rectification system, verify that terminal S1 is solidly earth grounded, and confirm that the flame rod is aligned so it doesn't droop near the ignition spark.
3. Confirm that there is no measurable voltage present between the ground screw and terminal 2 (neutral).
4. Confirm that the 120 volt AC supply has its neutral leg earth grounded at the supply, (floating isolation transformers can cause problems).
5. Confirm that the ignition transformer's secondary winding is solidly earth grounded. The grounding method is usually through the transformer case. Dirt, paint, loose mounting hardware, etc., can all be factors.
6. There may be a problem with transients in the main power supply. If you think this may be the problem, you may want to run a ground wire directly from the pilot assembly back to the electrical panel where the Fireye control is mounted.