

Wiring Cross Reference

TO CONVERT HONEYWELL **GP301 (R4140L1089)**
 TO **E110, ED510, EP160**, and **60-1386-2**
 Refer to Amplifier and Scanner Reference Guide

| Honeywell | Function | Fireye | |
|---------------------------|---|---------|------------|
| L1 | Hot – 120 VAC | L1 | |
| L2 | Ground – Neutral | L2 | |
| S1 | Scanner | S1 | |
| S2 | Scanner | S2 | |
| L1 – 13 | Operating Control | L1 – 13 | |
| 13 - 3 | Pre-Ignition Interlocks (Fuel Valve Interlock) | 13 – 3 | |
| 3 – P | Running Interlocks (Air Flow Switch) | 3 – P | |
| 18 | 4 Sec – Early Spark Termination | 5 | See Note 1 |
| 5 | 10 Sec – Interrupted Pilot/Ign | 5 | |
| 6 | Oil Valve – Direct Spark | 6 | See Note 2 |
| 7 | Main Fuel Valve – Pilot Ignited | 7 | |
| M | Blower Motor | M | |
| M – D | Low Fire Start Switch | M – D | |
| A | Alarm | A | |
| Modulation Circuit | | | |
| X | High Fire | X | |
| 10 | Common | 10 | |
| 11 | Auto | 11 | |
| 12 | Low Fire | 12 | |

Note 1 If terminal 18 (early spark termination) is used, use **EP170** programmer.

Note 2 For direct spark ignition, connect ignition transformer to terminal 5 (of **EP170**) and oil valve to terminal 7. Jumper terminal 6 to 7.

Refer to Bulletin E-1101 for proper installation, grounding, operational and safety checkout procedures. Perform safety checks of the entire system prior to allowing fuel entry into boiler. Complete safety checks, flame signal levels, minimum pilot tests with fuel on.