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	
D – 8	High Fire Purge Interlock	D – 8	
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.