

Honeywell Programmer Control Cross Reference

CROSS REFERENCE

Honeywell has provided proprietary and/or “labelled” controls to certain Original Equipment Manufacturers (OEM) at their request. Proprietary controls are available only from the OEM, while “labelled” controls can, in some instances, be purchased directly from Honeywell. Where a control is available only from the OEM, we have placed a footnote in the “Replacement Control” column. Refer questions about a particular OEM control to the particular OEM (see list below):

Cleaver Brooks Div.
Aqua—Chem Inc.
ATTN: Parts Manager
P.O. Box 421
Milwaukee, WI 53201
414-577-2710

Lennox Industries Inc.
Lennox Parts Center
P.O. Box 7658
4251 121st Street
Urbandale, IA 50322
515-251-4440

Gordon-Piatt Energy Group
Parts Manager
C Street and Warehouse Road
Winfield, KS 67156
316-221-4470

Ray Burner Co.
Engineering & Sales Dept.
401 Parr Boulevard
Richmond, CA 94801
610-236-4272

Vapor Power International
661 S. County Line Road
Franklin Park, IL 60131
630-694-5500



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Table 1. HONEYWELL R4181 PROGRAMMER CROSS REFERENCE

Device to be Replaced	7800 Series Replacement ¹	Prepurge					Interlocks						MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments			
		Timing	Lo-Fire On-Off	Type			Start	Running	Lockout	Preignition	Hi-fire	Lo-fire								PFEP	INTR Pilot	INTM Pilot
				LHL	LHL PRV	OP Damp																
R4181A1000	RM7840G1014	40		LF PRV			X	X			X	10	X		15	4-wire	120 208 240	60				
R4181A1018	RM7840L1018	60			X	X	X		X		X	10	X		15	4-wire	120 208 240	60				
R4181A1026	RM7840G1014	40		LF PRV		X	X			X	10	X		X	15, 30	4-wire	120 208 240	60				
R4181A1034	RM7840L1018	60			X	X	X		X		X	10	X		10, 15	4-wire	120 208 240	60				
R4181A1042	RM7840L1018	60			X			X	X	X	X	10	X		10, 15	4-wire	120	60				
R4181A1059	RM7840L1018	55			X			X	X	X	X	7	X		10, 30	4-wire	120	60				

¹ See Conversion Wiring Diagram in Modernization Wiring Information section.

Table 2. HONEYWELL R4127 PROGRAMMER CROSS REFERENCE

Device to be Replaced	7800 Series Replacement 1 2 3 4 5 7 8 9 10 11 12 13 14	Prepurge				Interlocks						INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments			
		Timing	Lo-Fire On-Off	Type			Start	Running	Lockout	Preignition	Hi-fire									Lo-fire	PFEP	INTM Pilot
				LHL	LHL PRV	Op Damp																
R4127A1007	RM7840G1014 or RM7840L1018	30	X			X				X						15	15	3-wire	120 208 240	60	With R7253A	
R4127A1015	RM7840G1014 or RM7840L1018	30	X			X				X						15	15	3-wire	120 208 240	60	With Q535 and R7253A	
R4127A1023	RM7840G1014 or RM7840L1018	30	X			X				X						15	15	3-wire	120 208 240	60	With Q536 and R7253A	
R4127A1031	RM7840G1014 or RM7840L1018	30	X			X				X						15	15	3-wire	120 208 240	60	With Q535	
R4127A1049	RM7840G1014 or RM7840L1018	30	X			X				X						15	15	3-wire	120 208 240	60	With Q536	
R4127A1056	RM7840G1014 or RM7840L1018	30	X			X				X						15, 60	15	3-wire	120	60		
R4127A1064	RM7840G1014 or RM7840L1018	30	X			X				X						15	15	3-wire	120 208 240	60		
R4127A1072	None	30	X			X				X						15	15	3-wire	120 208 240	50	With Q535 international model	
R4127A1080	RM7840G1014 or RM7840L1018	30	X			X				X						15, 60	15	3-wire	120 208 240	60	Produced in Canada	
R4127A1098	RM7840G1014 or RM7840L1018	30	X			X				X						15	15	3-wire	120	60		
R4127A1106	None																					International model
R4127A1114	None																					

See footnotes on page 6.

Table 2. HONEYWELL R4127 PROGRAMMER CROSS REFERENCE (Continued)

Device to be Replaced	7800 Series Replacement 1 2 3 4 5 7 8 9 10 11 12 13 14	Prepurge				Interlocks						PFEF	INTR Pilot	MFEP	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments		
		Timing	Lo-Fire On-Off	Type			Start	Running	Lockout	Preignition	Hi-fire										Lo-fire	
				LHL	LHL PRV	Op Damp																
R4127B1039	or	RM7840G1014	30	X					X	X							15	3- wife	120	60	Ray Burner RC2A with R7254A, Q536	
R4127B1047	or	RM7840L1018	30	X					X	X								15	3- wife	120	60	Ray Burner RC2B with R7254A, Q535
R4127B1054	or	RM7840G1014	30	X					X	X								15	3- wife	120	60	Ray Burner
R4127C1003	or	RM7840L1018	30	X					X	X								15	3- wife	120	60	Ray Burner with R7255A
FOOTNOTES:																						

1 Refer to conversion wiring diagrams in Modernization Wiring Information section.
 2 RM7840G meets current UL requirements.
 3 RM7840L meets current insurance requirements.
 4 See series ST7800A Plug-in Timers for prepurge timings available.
 5 R4127A,B,C Start Interlocks become RM7840 Preignition Interlocks.
 6 No longer available.
 7 Replacement controls are 120 Vac, 50/60 Hz.
 8 RM7840G1014 MFEP is 10, 15, or 30 seconds.
 9 RM7840L1018 MFEP is 10 or 15 seconds.
 10 RM7840G1014 and RM7840L1018 PFEF is 4 or 10 seconds.
 11 Select proper flame amplifier.
 12 Use with existing Honeywell Flame Detectors.
 13 With selectable air-flow switch check (AFSC).
 14 With selectable air-flow switch check (AFSC).
 15 Requires Q7800A or Q7800B Subbase.

Table 3. HONEYWELL BC7000 PROGRAMMER REPLACEMENT CROSS REFERENCE

Device to be Replaced	Replacement			Prepurge		Interlocks						INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments	
	Used With	Direct 1 3 4 5	7800 Series 1 2 3 4 5 6	Purge Timer	Timing	Type	Start	Running	Lockout	Preignition	Hi-fire									Lo-fire
PM720G1197	BC7000L1042	Consult Original Equipment Manufacturer			40	LHL, LF Proven			X	X	X	X	10	X	10, 15	15	4-wire	120	60	Proprietary to York-Shiple, LWCO annunciation on terminal 18"
PM720G1205	BC7000L1042	Consult Original Equipment Manufacturer			40	LHL, LF Proven			X	X	X	X	10	X	10, 15	15	4-wire	120	60	Proprietary to York-Shiple, LWCO annunciation on terminal 18
PM720G2005	BC7000L1000	R7140G2008	RM7800G1018	ST7800A 1047	40	LHL, LF Proven	X					10	X	10, 15, 30	X	15	4-wire	120	60	
PM720G2013	BC7000L1000	R7140G2008	RM7800G1018	ST7800A 1047	40	LHL, LF Proven	X					10	X	10*	X	15	4-wire	120	60	10 sec MFEF or intermittent pilot
PM720G2021	BC7000L1000	Consult Original Equipment Manufacturer			60	LHL, LF Proven	X					7	X	13*	X	30	4-wire	120	60	13 sec MFEF or intermittent pilot proprietary to Lennox
PM720G2039	BC7000L1000	R7140G2008	RM7800G1018	ST7800A 1047	40	LHL, LF Proven	X					10	X	10, 15, 30	X	15	4-wire	120	50	
PM720L1022	BC7000L1018	Consult Original Equipment Manufacturer			8	LHL, HF-LF Proven			X	X	X	7	X	8	X	4	4-wire	120	60	Proprietary to Cleaver Brooks
PM720L1030	BC7000L1000	R7140L2007	RM7800L1012	ST7800A 1039	30	LHL, HF-LF Proven			X	X	X	10	X	10, 15	X	15	4-wire	120	60	
PM720L1063	BC7000L1034	Consult Original Equipment Manufacturer			10	LHL, HF-LF Proven			X	X	X	7	X	8	X	4	4-wire	120	60	Proprietary to Vapor Corporation
PM720L1089	NEVER PRODUCED																			

See footnotes on page 10.

Table 3. HONEYWELL BC7000 PROGRAMMER REPLACEMENT CROSS REFERENCE (Continued)

Device to be Replaced		Replacement			Prepurge		Interlocks						Comments									
Program Module	Used With	Direct 1 3 4 5	7800 Series 1 2 3 4 5 6	Purge Timer	Timing	Type	Start	Running	Lockout	Preignition	Hi-fire	Lo-fire	PFFP	INTM Pilot	INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	
PM720L1097	BC7000L1018	Consult Original Equipment Manufacturer			8	LHL, HF-LF Proven		X	X	X	X	X	7	X	X	8	4	4-wire	120	50	Proprietary to Cleaver Brooks	
PM720L1105	BC7000L1034	Consult Original Equipment Manufacturer			8	LHL, HF-LF Proven		X	X	X	X	X	7	X	X	8	4	4-wire	120	50	Proprietary to Vapor Corporation	
PM720L1105	BC7000L1034	Consult Original Equipment Manufacturer			8	LHL, HF-LF Proven		X	X	X	X	X	7	X	X	8	4	4-wire	120	50	Proprietary to Vapor Corporation	
PM720L1113	BC7000L1042	Consult Original Equipment Manufacturer			30	LHL, HF-LF Proven		X	X	X	X	X	10	X	X	10, 15	15	4-wire	120	60	Proprietary to York-Shiple, LWCO annunciation on terminal 18"	
PM720L1121	BC7000L1042	Consult Original Equipment Manufacturer			30	LHL, HF-LF Proven		X	X	X	X	X	10	X	X	10, 15	15	4-wire	120	60	Proprietary to York-Shiple, LWCO annunciation on terminal 18. energy saving prepurge (ESP)	
PM720L1139	BC7000L1000	R7140L2007	RM7800L1012	ST7800A 1039	30	LHL, HF-LF Proven		X	X	X	X	X	10	X	X	10, 15	X	15	4-wire	120	60	Reduced sensitivity to line noise
PM720L2004	BC7000L1000	None	RM7800E1010	ST7800A 1039	30	LHL, HF-LF Proven		X	X	X	X	X	10	X	X	10, 15	X	15	4-wire	120	60	Energy saving prepurge (ESP)
PM720L2012	BC7000L1000	R7140L2007	RM7800L1012	ST7800A 1039	30	LHL, HF-LF Proven		X	X	X	X	X	10	X	X	10, 15	X	15	4-wire	120	50	
PM720L2020	BC7000L1000	R7140L2007	RM7800L1012	ST7800A 1021	10	LHL, HF-LF Proven		X	X	X	X	X	10	X	X	10, 15	X	15	4-wire	120	60	

See footnotes on page 10.

Table 3. HONEYWELL BC7000 PROGRAMMER REPLACEMENT CROSS REFERENCE (Continued)

Device to be Replaced	Replacement			Prepurge		Interlocks						Voltage	Frequency	Comments										
	Used With	Direct 1 3 4 5	7800 Series 1 2 3 4 5 6	Purge Timer	Timing	Type	Start	Running	Lockout	Preignition	Hi-fire				Lo-fire	INTR Pilot	MFEF	Spark Term	Postpurge	Modulation				
PM720M2002	BC7000L1000	R7140M1007	RM7800M1011	ST7800A 1039 (30 seconds), ST7800A 1062 (90 seconds)	30, 90	On- Off, LF Proven	X	X	X	X	X	X	X	10*	X	15	2-wire	120	60	10second MFEF or intermittent pilot				
PM720M2010	BC7000L1000	R7140M1007	RM7800M1011	ST7800A 1013 (7 seconds)	7		X	X	X	X	X	X	X	10*	X	15		120	60	10second MFEF or intermittent pilot				
PM720M2036	BC7000L1000	R7140M1007	RM7800M1011	ST7800A 1013 (7 seconds), ST7800A 1039 (30 seconds)	7, 30		X	X	X	X	X	X	X	10*	X	15		120	60	10second MFEF or intermittent pilot				
PM720M2044	BC7000L1000	R7140M1007	RM7800M1011	ST7800A 1039 (30 seconds), ST7800A 1062 (90 seconds)	30, 90	On- Off, LF Proven	X	X	X	X	X	X	X	10*	X	15	2-wire	120	50	10second MFEF or intermittent pilot				
PM720M2051	BC7000L1000	R7140M1007	RM7800M1011	ST7800A 1013 (7 seconds), ST7800A 1039 (30 seconds)	7, 30		X	X	X	X	X	X	X	10*	X	15		120	50	10second MFEF or intermittent pilot				
BC7000L100	None	See Program Module for Current Replacements																			12 0	50		
BC7000L101	None	Consult Original Equipment Manufacturer																				12 0	50	
BC7000L103	None	Consult Original Equipment Manufacturer																				12 0	60	
BC7000L104	None	Consult Original Equipment Manufacturer																				12 0	60	

See footnotes on page 10.

FOOTNOTES:

- 1 4 or 10 second PFEP.
- 2 With S7800A1001 Keyboard Display Module.

3 Select proper amplifier:

<u>Old Amplifier:</u>	<u>Replacement Amplifier:</u>
R7247A1005	R7847A1033
R7247A1021	R7847A1025
R7247B1003	R7847B1031
R7247C1001	R7861A1026 See Note 5
R7248A1004	R7848A1008
R7248B1028	R7848B1006
R7249A1003	R7849A1023
R7476A1007	R7886A1001

- 4 With Selectable Airflow Switch Check.
- 5 Use with existing flame detectors, EXCEPT C7012E,F—Replace with C7061A,F and appropriate R7861 Amplifier.

Table 4. HONEYWELL R4140 PROGRAMMER CROSS REFERENCE.

Device to be Replaced	Replacement			Purge Timer	Prepurge		Interlocks						INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments
	Direct	7800 Series 2 6 7 8 9			Timing	Type	Start	Running	Lockout	Preignition	Hi-fire	Lo-fire								
		None	2, 6, 7																	
R4140D1004	None	None	None	30		X	X							10	X	55	4- wire	120	60	Maxon special sequence for postpurge pilot systems. Uses special Q520A1196.
R4140E1001	None	None	None	31		X	X							3		15	4- wire	120	60	For direct spark ignition systems
R4140G1007	R7140G1000	RM7840G1014	RM7840G1014	60	HL, LF Proven	X	X		X	X	X			10	X	16	4- wire	120	60	
R4140G1015	R7140G1000	RM7840G1014	RM7840G1014	60	LHL, LF Proven	X	X		X	X	X			10	X	16	4- wire	120	60	
R4140G1023	Consult Original Equipment Manufacturer			72	LHL, LF Proven	X	X		X	X	X			10	X	16	4- wire	120	60	Proprietary to Cleaver Brooks CB20
R4140G1031	R7140G2008 1	RM7840G1014	RM7840G1014	60	LHL, LF Proven	X	X		X	X	X			10	X	16	4- wire	120	60	
R4140G1049	R7140G2008 1	RM7840G1014	RM7840G1014	60	LHL, LF Proven	X	X		X	X	X			10	X	16	4- wire	120	60	
R4140G1056	R7140G2008 1	RM7840G1014	RM7840G1014	60	LHL, LF Proven	X	X		X	X	X			10	X	16	4- wire	120	60	
R4140G1064	R7140G2008 1	RM7840G1014	RM7840G1014	60	LHL, LF Proven	X	X		X	X	X			10	X	16	4- wire	120	60	
R4140G1072	R7140G2008 1	RM7840G1014	RM7840G1014	60	LHL, LF Proven	X	X		X	X	X			10	X	16	4- wire	120	60	
R4140G1080	R7140G2008 1	RM7840G1014	RM7840G1014	60	LHL, LF Proven	X	X		X	X	X			10	X	16	4- wire	120	60	
R4140G1098	None	None	None	60	LHL, LF Proven	X	X		X	X	X			10	X	16	4- wire	240	50	International model
R4140G1106	R7140G1000	RM7840G1014	RM7840G1014	60	LHL, LF Proven	X	X		X	X	X			10	X	16	4- wire	120	60	

See footnotes on page 16.

Table 4. HONEYWELL R4140 PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Replacement			Prepurge		Interlocks						INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments		
	Direct	7800 Series 2 6 7 8 9	Purge Timer	Timing	Type	Start	Running	Lockout	Preignition	Hi-fire	Lo-fire									PFEP	INTM Pilot
R4140G1114	None	None		70	LHL, LF Proven	X	X			X	10	X	10, 30, 60	X	25	4- wire	120	60			
R4140G1122	None	None		70	LHL, LF Proven	X	X			X	10	X	10, 30, 60	X	25	4- wire	208	60			
R4140G1130	R7140G2008 ₁	RM7840G1014 ₁	ST7800A1054	60	LHL, LF Proven	X	X			X	10	X	10, 15	X	16	4- wire	120	60			
R4140G1148	R7140G2008 ₁	RM7840G1014 ₁	ST7800A1054	60	"LHL, LF Proven	X	X			X	10	X	10, 15	X	16	4- wire	120	60			
R4140G1155	None	EC7850A1122	ST7800A1054	60	LHL, LF Proven	X	X	X	X	X	5	X	5	X	15	4- wire	240	50	Proprietary to Gordon-Platt Energy		
R4140G1163	R7140G2008 ₁	RM7840G1014 ₁	ST7800A1054	60	LHL, LF Proven	X	X			X	10	X	10	X	16	4- wire	120	60			
R4140G1171	R7140G2008 _{1 3}	RM7840G1014 _{1 3}	ST7800A1062 (90 seconds)	70	LHL, LF Proven	X	X			X	10	X	10, 30, 60	X	25	4- wire	120	60			
R4140G1189	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF-LF Proven	X	X	X	X	X	10	X	10	X	15	4- wire	120	60	Gordon-Platt Energy GP201		
R4140G1197	None	EC7850A1122	ST7800A1054	60	LHL, LF Proven	X	X			X	5	X	5, 10, 15	X	16	4- wire	240	50	International model		
R4140L1006	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF-LF Proven			X	X	X	10	X	10, 15	X	16	4- wire	120	60			
R4140L1014	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF-LF Proven			X	X	X	10	X	10, 15	X	16	4- wire	120	60			
R4140L1022	Consult Original Equipment Manufacturer			72	LHL, HF-LF Proven			X	X	X	10	X	10, 15	X	15	4- wire	120	60	Cleaver Brooks CB40		
R4140L1030	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF-LF Proven			X	X	X	10	X	10, 15	X	16	4- wire	120	60	With nonrotatable timer		
R4140L1048	None	EC7850A1122	ST7800A1047 (40 seconds)	45	LHL, HF-LF Proven			X	X	X	10	X	2, 5, 10	X	15	4- wire	220	50	International model		

See footnotes on page 16.

Table 4. HONEYWELL R4140 PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Replacement			Prepurge		Interlocks						INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments		
	Direct	7800 Series 2 6 7 8 9	Purge Timer	Timing	Type	Start	Running	Lockout	Preignition	Hi-fire	Lo-fire									PFEF	INTM Pilot
R4140L1055	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF- LF Proven		X	X	X	X	X	10, 30	X	"15	4- wire	120	60				
R4140L1063	Consult Original Equipment Manufacturer			9.5	LHL, HF- LF Proven		X	X	X	X	X	8		3.5	2- wire	120	60	Vapor Corporation			
R4140L1071	None	RM7840L1018	ST7800A1054	60	LHL, HF- LF Proven		X	X	X	X	X	10, 15, 30	X	15	4- wire	240	50	International model			
R4140L1089	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF- LF Proven		X	X	X	X	X	10	X	15	4- wire	120	60	Gordon-Platt Energy GP301			
R4140L1097	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF- LF Proven		X	X	X	X	X	10, 15	X	15	4- wire	120	60				
R4140L1105	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF- LF Proven		X	X	X	X	X	10, 15	X	16	4- wire	120	60				
R4140L1113	None	EC7850A1122	ST7800A1054	60	LHL, HF- LF Proven		X	X	X	X	X	5, 10, 15	X	15	4- wire	240	50	International model			
R4140L1121	Consult Original Equipment Manufacturer			5.5	LHL, HF- LF Proven		X	X	X	X	X			8				ICI Model			
R4140L1139	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF- LF Proven		X	X	X	X	X	10, 15	X	15	4- wire	120	60				
R4140L1147	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF- LF Proven		X	X	X	X	X	10, 15, 30	X	15	4- wire	120	60				
R4140L1154	None	EC7850A1122	Check R4140 for purge timing	Select able	LHL, HF- LF Proven		X	X	X	X	X	5, 10	X	15	4- wire	240	50	Approved by Australian Gas Association			
R4140L1162	Consult Original Equipment Manufacturer			60	LHL, HF- LF Proven		X	X	X	X	X	5, 15	X	16	4- wire	120	60	Fulton Special			
R4140L1170	None	EC7850A1122	ST7800A1054	60	LHL, HF- LF Proven		X	X	X	X	X	5, 10	X	15		240	50				

See footnotes on page 16.

Table 4. HONEYWELL R4140 PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Replacement		Prepurge		Interlocks						PFEF	INTM Pilot	INTR Pilot	MFEP	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments
	Direct	7800 Series 2 6 7 8 9	Purge Timer	Timing	Type	Start	Running	Lockout	Preignition	Hi-fire										
R4140M1004	R7140M1007 1	RM7840M1017 1	ST7800A1039 (30 seconds)	31	On-Off	X	X				10	X		10	15		120	60		
R4140M1012	R7140M1007 1	RM7840M1017 1	ST7800A1039 (30 seconds)	31	On-Off	X	X				10	X		10	15		120	60		
R4140M1020	R7140M1007 1 4 5	RM7840M1017 1 4	ST7800A1047 (40 seconds)	42	On-Off, LF Proven	X	X			X	10	X		10	15		120	60	Isolated damper motor contact	
R4140M1038	R7140M1007 1 4 5	RM7840M1017 1 4	ST7800A1047 (40 seconds)	42	On-Off, LF Proven	X	X			X	10	X		10	15		120	60	Isolated damper motor contact	
R4140M1046	R7140M1007 1 4 5	RM7840M1017 1 4	ST7800A1062 (90 seconds)	96	On-Off, LF Proven	X	X			X	10	X		10	25		120	60	Isolated damper motor contact	
R4140M1053	R7140M1007 1 4 5	RM7840M1017 1 4	ST7800A1062 (90 seconds)	96	On-Off, LF Proven	X	X			X	10	X		10	25		120	60	Isolated damper motor contact	
R4140M1061	R7140M1007	None		31	On-Off, LF Proven	X	X				10	X		5, 10	15		240	50	International model	
R4140M1079	R7140M1007	RM7840M1017	ST7800A1062	90	On-Off, LF Proven	"X					10	X		10	25		120	60	Gordon-Platt Energy GP101	
R4140M1087	None	None		31	On-Off	X	X				10	X		5, 10, 15	15		240	50	International model	
R4140M1095	Never produced																		Never produced	
R4140M1103	R7140M1007 1	RM7840M1017 1	ST7800A1039 (30 seconds)	31	On-Off	X	X				10	X		10, 30	15		120	60		
R4140M1111	R7140M1007 1	RM7840M1017 1	ST7800A1039 (30 seconds)	31	On-Off	X	X				10	X		10, 30	15		120	60		
R4140M1129	Never produced				On-Off, LF Proven															
R4140M1137	Never produced				On-Off, LF Proven															
R4140M1145	R7140M1007 1 4 5	RM7840M1017 1 4	ST7800A1047 (40 seconds)	42	On-Off, LF Proven	X	X			X	10	X		10	15		120	60	Isolated damper motor contact	
R4140M1152	R7140M1007 1 4 5	RM7840M1017 1 4	ST7800A1047 (40 seconds)	42	On-Off, LF Proven	X	X			X	10	X		10	15		120	60	Isolated damper motor contact	

See footnotes on page 16.

Table 4. HONEYWELL R4140 PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Replacement		Prepurge		Interlocks						INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments	
	Direct	7800 Series 2 6 7 8 9	Purge Timer	Timing	Type	Start	Running	Lockout	Preignition	Hi-fire									Lo-fire
R4140M1160	R7140M1007 4 5	RM7840M1017	ST7800A1062 (90 seconds)	96	On-Off, LF Proven	X		X		X	X	10	X	25		120	60	Isolated damper motor contact	
R4140M1178	R7140M1007 4 5	RM7840M1017	ST7800A1062 (90 seconds)	96	On-Off, LF Proven	X		X		X	X	10	X	25		120	60	Isolated damper motor contact	
R4140M1186	R7140M1007 1 5	RM7840M1017	ST7800A1047 (40 seconds)	42	On-Off, LF Proven	X				X	X	10	X	15		120	60		
R4140M1194	R7140M1007 1 5	RM7840M1017	ST7800A1062 (90 seconds)	96	On-Off, LF Proven	X				X	X	10	X	15		120	60		
R4140M1202	None	None		31	On-Off, LF Proven	X				X	X	5, 10	X	15		240	50	Approved by Australian Gas Association	
R4140M1210	Consult Original Manufacturer			31	On-Off, LF Proven	X						10	X	25		120	60	Fulton Special	
R4140P1007	None	RM7896C1010	ST7800A1062	90	On-Off	X						10	X	15		120	60	Gordon Platt GP001	
R4140Y1005	None	RM7895A1014	ST7800A1013	7	On-Off	X						10	X	15		120	60		
R4140Y1013	None	RM7895A1014	ST7800A1013	7	On-Off	X						4	X	15		120	60		
R4140Y1021	None	RM7895A1014	ST7800A1039	30	On-Off	X						10	X	15		120	60		
R4140Y1039	None	RM7895A1014	ST7800A1039	30	On-Off	X						4	X	15		120	60		
R4140Y1047	None	RM7895A1014	ST7800A1054	60	On-Off	X						10	X	15		120	60		
R4140Y1054	None	RM7895A1014	ST7800A1054	60	On-Off	X						4	X	15		120	60		
R4140Y1062	None	RM7895A1014	ST7800A1062	90	On-Off	X						10	X	15		120	60		
R4140Y1070	None	RM7895A1014	ST7800A1062	90	On-Off	X						4	X	15		120	60		

See footnotes on page 16.

FOOTNOTES:

- 1 R4140 Start Interlocks become Pre-Ignition Interlocks (must remain closed throughout Purge).
- 2 4 or 10 second PFEF
- 3 60 second MFEF is not available with replacement device.
- 4 Spring return Firing Rate Motor (damper motor).
- 5 Remove Jumpers J1 and J2.
- 6 Select proper amplifier:

Old Amplifier	New Amplifier
R7247A1005	R7847A1033
R7247A1021	R7847A1025
R7247B1003	R7847B1031
R7247C1001	R7861A1026
R7248C1004	R7848A1008
R7248B1028	R7848B1006
R7249A1003	R7849A1023
R7476A1007	R7886A1001
- 7 With Selectable Airflow Switch Check (AFC).
- 8 Used with existing flame detectors—EXCEPT C7012E.F.—Replace with C7061A.F. and appropriate 7861 Flame Amplifier.
- 9 Requires Q7800A or Q7800B Wiring Subbase.

Table 5. HONEYWELL R 4150 PROGRAMMER CROSS REFERENCE.

Device to be Replaced	Replacement		Prepurge		Interlocks				PFEP	INTM Pilot	INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments
	Direct 1, 2, 6, 7, 8	7800 Series 1, 2, 6, 7, 8, 9	Purge Timer	Timing	Type	Start	Running	Lockout										
R4150A1007	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15	15	120	60	Includes R7257 Amplifier.	
R4150A1015	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15	15	120	50		
R4150A1023	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15	15	120	60		
R4150A1031	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15, 30	X	120	60	Kewanee label.	
R4150A1049	International Model			30	On-Off	X	X				10	X	5	X	200	60	Includes R7257 International model.	
R4150A1056	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				15	X	15	X	120	60		
R4150A1064	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15, 30	X	120	60		
R4150A1072	International Model			30	On-Off	X	X				10	X	15	X	200	60	International model.	
R4150A1080	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15, 30	X	120	60	Kewanee label.	
R4150A1098	Never Produced																Never produced	
R4150A1106	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				15	X	5	X	120	60		
R4150A1114	None	RM7840M1017	ST7800A1054	60	On-Off	X	X				10	X	15	X	120	60		
R4150A1122	None	RM7840M1017	ST7800A1062	90	On-Off	X	X				10	X	15	X	120	60		
R4150A1130	None	RM7840M1017	ST7800A1054	60	On-Off	X	X				10	X	15, 30	X	120	60		
R4150A1148	None	RM7840M1017	ST7800A1062	90	On-Off	X	X				10	X	15, 30	X	120	60		
R4150A1155	None	RM7840M1017	ST7800A1062	90	On-Off	X	X				10	X	15, 30	X	120	60	Kewanee label.	
R4150A1163	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				15	X	15	X	120	60		
R4150A1171	None	RM7840M1017	ST7800A1062	90	On-Off	X	X				15	X	X	X	120	60		
R4150A1189	None	RM7840M1017	ST7800A1062	90	On-Off	X	X				15	X	15	X	120	60		
R4150A1197	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15	X	120	50	International model	
R4150A1205	International Model			37	On-Off	X	X				10	X	2	X	220	50	International model	
R4150A1213	International Model			37	On-Off	X	X				10	X	5	X	220	50	International model	
R4150A1221	International Model			37	On-Off	X	X				10	X	5	X	240	50	International model	
R4150A1239	None	RM7840M1017	ST7800A1062	90	On-Off	X	X				15	X	15	X	120	60		

See footnotes on page 22.

Table 5. HONEYWELL R 4150 PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Replacement		Prepurge		Interlocks				PFP	INTM Pilot	INTR Pilot	MFEP	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments
	Direct 1, 2, 6, 7, 8	7800 Series 1, 2, 6, 7, 8, 9	Purge Timer	Timing	Type	Start	Running	Lockout										
R4150A1247	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15	15	120	60		
R4150A1254	None	RM7840M1017	ST7800A1062	90	On-Off	X	X				10	X	15	20	120	60		
R4150A1262	International Model			30	On-Off	X	X				10	X	15	15	220	50	International model	
R4150A1270	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				30	X	15	15	120	60		
R4150A1288	None	RM7840M1017	ST7800A1047 (40 seconds)	35	On-Off	X	X				10	X	15	15	120	60	5 second stabilization before PFEF.	
R4150A1296	International Model			30	On-Off	X	X				10	X	15	15	220	50	International model. Ignition on 3 secs before pilot valve.	
R4150B1005	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15	15	120	60	R7258A included	
R4150B1013	Never Produced																Never produced	
R4150C1003	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15	15	120	60	R7259A included	
R4150C1011	Never Produced																	
R4150C1029	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	10	15	120	60	R7259A included	
R4150D1001	Never Produced																Never produced	
R4150E1008	None	None		30		X	X				3		15		120	60	For direct spark ignition applications	
R4150F1006	International Model																International - Japan	
R4150F1014	International Model																International - Japan	
R4150G1004	R7140G2008	RM7840G1014	ST7800A1054 (60 seconds)	50	LHL, LF Proven	X	X				9	X	15	8	120	60	3-wire	
R4150G1012	R7140M1007 4, 5	RM7840M1017	ST7800A1062 (90 seconds)	72	On-Off, LF Proven	X	X				13	X	15	15	120	60		

See footnotes on page 22.

Table 5. HONEYWELL R 4150 PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Replacement			Purge Timer	Prepurge		Interlocks					INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments
	Direct 1, 2, 6, 7, 8	7800 Series 1, 2, 6, 7, 8, 9	RM7840G1014		Timing	Type	Start	Running	Lockout	Preignition	Hi-fire								
R4150G1020	R7140G2008	RM7840G1014	ST7800A1054 (60 seconds)	50	LHL, LF Proven	X	X			X			10	8	3- wire	120	60	Kewanee label	
R4150G1038	International Model			50	LHL, LF Proven	X	X			X			15	8	3- wire	220	50	International model	
R4150G1046	R7140G2008	RM7840G1014	ST7800A1054 (60 seconds)	50	LHL, LF Proven	X	X			X			10	8	3- wire	120	60		
R4150G1053	Consult Original Equipment Manufacturer			72	LHL, LF Proven	X	X			X			10, 15	9	3- wire	120	60	Cleaver Brooks CB2	
R4150G1061	Consult Original Equipment Manufacturer			72	LHL, LF Proven			X	X	X			10, 15	15	3- wire	120	60	Cleaver Brooks CB4, CB4-1	
R4150G1079	R7140M1007	RM7840M1017	ST7800A1062 (90 seconds)	72	LHL, LF Proven	X	X			X			15	15		120	60		
R4150G1087	Consult Original Equipment Manufacturer			72	LHL, LF Proven	X	X			X			10, 15	15	4- wire	120	60	Cleaver Brooks CB2-1	
R4150G1095	Never Produced																	Never produced	
R4150G1103	R7140G2008	RM7840G1014	ST7800A1054	60	LHL, LF Proven	X	X			X			10, 30	15	3- wire	120	60		
R4150G1111	R7140G2008	RM7840G1014	ST7800A1054	60	LHL, LF Proven	X	X			X			15	15	4- wire	120	60		
R4150G1129	None	RM7840L1018	ST7800A1054	60	LHL, LF Proven		X		X	X			10	15	4- wire	120	60	Gordon-Platt Energy GP200	
R4150G1137	R7140G2008	RM7840G1014	ST7800A1054	60	LHL, LF Proven	X	X			X		X	10, 30	15	4- wire	120	60		
R4150G1145	R7140G2008	RM7840G1014	ST7800A1054	60	LHL, LF Proven	X	X			X			10	15	4- wire	120	60		

See footnotes on page 22.

Table 5. HONEYWELL R 4150 PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Replacement			Prepurge		Interlocks						PFP	INTM Pilot	INTR Pilot	MFEP	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments
	Direct 1, 2, 6, 7, 8	7800 Series 1, 2, 6, 7, 8, 9	Purge Timer	Timing	Type	Start	Running	Lockout	Preignition	Hi-fire	Lo-fire										
R4150G1152	Never Produced																				Never produced
R4150G1160	Consult Original Equipment Manufacturer		72	LHL, LF Proven	X	X	X			X			X	10, 15		15	4- wire	120	60		Cleaver Brooks CB2-1A
R4150G1178	R7140G2008	RM7840G1014	60	LHL, LF Proven	X	X				X			X	15		15	4- wire	120	60		
R4150G1186	R7140G1000	RM7840G1014	60	LHL, LF Proven	X	X				X			X	10, 15		15	4- wire	120	60		
R4150G1194	Never Produced																				Never produced
R4150G1202	International Model		62	LHL, LF Proven	"X	X				X			X	5	X	5	4- wire	240	50		International model to Gordon-Piatt Energy Specifications.
R4150H1002	International Model		30	On-Off	X	X							X	13, 58		13	3- wire	120	60		International model
R4150H1010	International Model		30	On-Off	X	X							X	13, 58		13	3- wire	240	60		International model
R4150H1028	International Model		30	On-Off	X	X							X	13, 58		13	3- wire	220	50		International model
R4150H1036	International Model		30	On-Off	X	X							X	13, 58		13	3- wire	208	60		
R4150J1007	International Model		37	On-Off	X								X	2		2		220	50		International model
R4150K1005	International Model		37	On-Off	X								X	5		5		220	50		International model
R4150L1003	R7140L1009	RM7840L1018	72	LHL, HF-LF Proven			X	X	X	X			X	10, 15		15	3- wire	120	60		
R4150L1011	R7140L1009	RM7840L1018	72	LHL, HF-LF Proven			X	X	X	X			X	10, 15		15	3- wire	120	60		

See footnotes on page 22.

Table 5. HONEYWELL R 4150 PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Replacement		Prepurge		Interlocks					PFEF	INTM Pilot	INTR Pilot	MFEP	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments
	Direct 1, 2, 6, 7, 8	7800 Series 1, 2, 6, 7, 8, 9	Purge Timer	Timing	Type	Start	Running	Lockout	Preignition										
R4150L1029	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF-LF Proven		X	X	X	X	10	X	10	15	4- wire	120	60	Gordon-Platt Energy GP300 (original)	
R4150L1037	R7140L1009	RM7840L1018	ST7800A1062 (90 seconds)	72	LHL, HF-LF Proven		X	X	X	X	10	X	10, 15	15	4- wire	120	60		
R4150L1045	R7140L1009	RM7840L1018	ST7800A1062 (90 seconds)	72	LHL, HF-LF Proven		X	X	X	X	10	X	10, 15	15	4- wire	120	60		
R4150L1052	Never Produced																	Never produced	
R4150L1060	Consult Original Equipment Manufacturer			72	LHL, HF-LF Proven		X	X	X	X	10	X	10, 15	15	4- wire	120	60	Cleaver Brooks CB4- 1A	
R4150L1078	R7140L1009	RM7840L1018	ST7800A1054	60	LHL, HF-LF Proven			X	X	X	10	X	10	15	4- wire	120	60	Gordon-Platt Energy GP300	
R4150M1001	R7140M1007	RM7840M1017	ST7800A1062	90	On-Off	X	X				10	X	10	20		120	60	Ray Burner	
R4150M1019	None	RM7840M1017	ST7800A1062	90	On-Off	X	X				10	X	10	20		120	60	Ray Burner - Special Base	
R4150M1027	R7140M1007	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15	15		120	60		
R4150M1035	R7140M1007	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15	15		120	60		
R4150M1043	R7140M1007	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15	15		120	60		
R4150M1050	R7140M1007	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	15, 30	15		120	60		
R4150M1068	R7140M1007	RM7840M1017	ST7800A1062	90	On-Off	X	X				10	X	15	15		120	60		
R4150M1076	R7140M1007	RM7840M1017	ST7800A1062	90	On-Off	X	X				10	X	15	15		120	60		
R4150M1084	R7140M1007	RM7840M1017	ST7800A1062	90	On-Off	X	X				10	X	15	15		120	60		
R4150M1092	None	RM7840M1017	ST7800A1062	90	On-Off	X	X	X			10	X	15	20		120	60	Gordon-Platt Energy GP100 (original)	
R4150M1100	R7140M1007	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	10, 30	15		120	60		
R4150M1118	None	RM7840M1017	ST7800A1039	30	On-Off	X	X				15	X	15	15		120	60		
R4150M1126	R7140M1007	RM7840M1017	ST7800A1039	30	On-Off	X	X				10	X	10	15		120	60		

See footnotes on page 22.

Table 5. HONEYWELL R 4150 PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Replacement		Prepurge		Interlocks					PFEP	INTM Pilot	INTR Pilot	MFEP	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments
	Direct 1, 2, 6, 7, 8	7800 Series 1, 2, 6, 7, 8, 9	Purge Timer	Timing	Type	Start	Running	Lockout	Preignition										
R4150M1134	R7140M1007	RM7840M1017	ST7800A1039	30	On-Off	X	X						10	X		15	120	60	
R4150M1142	R7140M1007	RM7840M1017	ST7800A1062	90	On-Off	X	X						10	X		20	120	60	
R4150M1159	R7140M1007	RM7840M1017	ST7800A1062	90	On-Off	X	X						10	X		20	120	60	
R4150M1167	Never Produced																		Never produced
R4150M1175	None	RM7840M1017	ST7800A1062	90	On-Off	X	X		X				10	X		20	120	60	Gordon-Platt Energy GP100
R4150X1004	International Model																		
R4150X1012	International Model			30	On-Off	X	X						5	X		15	220	50	International model
R4150X1020	International Model			30	On-Off	X	X						5	X		15	240	50	International model

FOOTNOTES:

- 1 R4150 Start Interlocks become Pre-Ignition Interlocks (must remain closed throughout Purge).
- 2 4 or 10 second PFEP.
- 3 60 Second MFEP is not available with replacement device.
- 4 Spring return Firing Rate Motor (damper motor).
- 5 Remove Jumpers J1 and J2.
- 6 Select proper amplifier:
 Old Amplifier: R7257A1028
 Replacement Amplifier: R7847A1033
 R7258A1001 R7848A1008
 R7259A1000 R7849A1023
- 7 With Selectable Air Flow Switch Check (AFC).
- 8 Use with existing flame detectors—EXCEPT C7012E,F—replace with C7061A,F and appropriate R7861 Flame Amplifier.
- 9 Requires Q7800A or Q7800B Wiring Subbase.

Table 6. HONEYWELL 7800 SERIES PROGRAMMER, PRIMARY CONTROL CROSS REFERENCE.

Device to be Replaced	Current Replacement	Prepurge		Interlocks										Modulation	Comments						
		Timing	Type	Start	Running	Lockout	Preignition	Hi-fire	Lo-fire	Air-Flow SW Check	Run/Test Switch	Flame Timer	PFEF			INTM Pilot	INTR Pilot	MFEF	Postpurge	Voltage	Frequency
RM7800E1002	RM7800E1010	Selectable	LHL HF, LF PRV			X	X	X	X	X	X	X	X	X	X	10, 15	15	120	50	4-wire	with Energy Saving Purge and display module
RM7800E1010	RM7800E1010	Selectable	LHL HF, LF PRV			X	X	X	X	X	X	X	X	X	X	10, 15	15	120	50/60	4-wire	with Energy Saving Purge and display module
RM7800G1000	RM7800G1018	Selectable	LHL LF PRV	X				X						X	10, 15, 30	30	120	50	4-wire	With display module	
RM7800G1018	RM7800G1018	Selectable	LHL LF PRV	X				X						X	10, 15, 30	30	120	50/60	4-wire	With display module	
RM7800L1004	RM7800L1012	Selectable	LHL HF, LF PRV			X	X	X	X	X	X	X	X	X	10, 15	15	120	50	4-wire	With display module	
RM7800L1012	RM7800L1012	Selectable	LHL HF, LF PRV			X	X	X	X	X	X	X	X	X	10, 15	15	120	50/60	4-wire	With display module	
RM7800L1038	RM7800L1038	Selectable	LHL HF, LF PRV			X	X	X	X	X	X	X	X	X	10, 15	15	120	50/60	4-wire	Fulton Proprietary	
RM7800L1046	RM7800L1046	Selectable	LHL HF, LF PRV			X	X	X	X	X	X	X	X	X	10, 15	15	120	50/60	4-wire	Vapor Proprietary (49320086)	
RM7800L1053	RM7800L1053	Selectable	LHL HF, LF PRV			X	X	X	X	X	X	X	X	X	10, 15	15	120	50/60	4-wire	With display module-Intermittent Pilot	
RM7800L1061	RM7800L1079	Selectable	LHL HF, LF PRV			X	X	X	X	X	X	X	X	X	10, 15	15	120	50/60	4-wire	Cleaver Brook Proprietary (833-2719)	
RM7800L1079	RM7800L1079	Selectable	LHL HF, LF PRV			X	X	X	X	X	X	X	X	X	10, 15	15	120	50/60	4-wire	Cleaver Brook Proprietary (833-2718)	
RM7800M1003	RM7800M1011	Selectable	LHL LF PRV	X				X						X	10	10	120	50	2-wire	With display module	
RM7800M1011	RM7800M1011	Selectable	LHL LF PRV	X				X						X	10	10	120	50/60	2-wire	With display module	
RM7800M1036	RM7800M1036	Selectable	LHL LF PRV	X				X						X	10	10	120	50/60	2-wire	Fulton Proprietary	

Table 6. HONEYWELL 7800 SERIES PROGRAMMER, PRIMARY CONTROL CROSS REFERENCE. (Continued)

Device to be Replaced	Current Replacement	Prepurge		Interlocks								PFEF	INTM Pilot	INTR Pilot	MFEP	Postpurge	Voltage	Frequency	Modulation	Comments
		Timing	Type	Start	Running	Lockout	Preignition	Hi-fire	Lo-fire	Air-Flow SW Check	Run/Test Switch									
RM7838A1006	RM7838A1014	Selectable	LHL HF PRV	X	X	X	X	X	X	X	X	X	X	4, 10	X		120	50		Semi-automatic control, with display module
RM7838A1014	RM7838A1014	Selectable	LHL HF PRV	X	X	X	X	X	X	X	X	X	4, 10	X		120	50/60		Semi-automatic control, with display module	
RM7838B1005	RM7838B1013	Selectable	LHL HF, LF PRV	X	X	X	X	X	X	X	X	X	4, 10	X		120	50		With display module	
RM7838B1013	RM7838B1013	Selectable	LHL HF, LF PRV	X	X	X	X	X	X	X	X	X	4, 10	X		120	50/60		With display module	
RM7838C1004	RM7838C1004	Selectable	LHL HF, LF PRV	X	X	X	X	X	X	X	X	X	4, 10	X		120	50/60		With display module. Alarm sounds only on safety shutdown, Requires ST7800C type Purge Timer	
RM7840E1008	RM7840E1016	Selectable	LHL HF, LF PRV		X	X	X	X	X	X	X	X	4, 10	X		120	50	4-wire	with Energy Saving Purge	
RM7840E1016	RM7840E1016	Selectable	LHL HF, LF PRV		X	X	X	X	X	X	X	X	4, 10	X		120	50/60	4-wire	with Energy Saving Purge	
RM7840G1006	RM7840G1014	Selectable	LHL LF PRV	X		X	X	X	X	X	X	X	4, 10	X		120	50	4-wire		
RM7840G1014	RM7840G1014	Selectable	LHL LF PRV	X		X	X	X	X	X	X	X	4, 10	X		120	50/60	4-wire		
RM7840L1000	RM7840L1018	Selectable	LHL HF, LF PRV		X	X	X	X	X	X	X	X	4, 10	X		120	50	4-wire		
RM7840L1018	RM7840L1018	Selectable	LHL HF, LF PRV		X	X	X	X	X	X	X	X	4, 10	X		120	50/60	4-wire		
RM7840L1026	RM7840L1026	Selectable	LHL HF, LF PRV		X	X	X	X	X	X	X	X	4, 10	X		120	50/60	4-wire	Intermittent Pilot	

Table 6. HONEYWELL 7800 SERIES PROGRAMMER, PRIMARY CONTROL CROSS REFERENCE. (Continued)

Device to be Replaced	Current Replacement	Prepurge		Interlocks								PFEP	INTM Pilot	INTR Pilot	MFEP	Postpurge	Voltage	Frequency	Modulation	Comments		
		Timing	Type	Start	Running	Lockout	Preignition	Hi-fire	Lo-fire	Air-Flow SW Check	Run/Test Switch										Flame Timer	
RM7840L1034	RM7840L1042	Selectable	LHL HF, LF PRV		X	X	X	X	X	X	X	X	X	X	4, 10	X	10, 15	15	120	50/ 60	4-wire	Cleaver Brook Proprietary (833-2721)
RM7840L1042	RM7840L1042	Selectable	LHL HF, LF PRV		X	X	X	X	X	X	X	X	X	X	4, 10	X	10, 15	15	120	50/ 60	4-wire	Cleaver Brook Proprietary (833-2720)
RM7840M1009	RM7840M1017	Selectable	LHL LF PRV				X		X	X	X	X	X	4, 10	X	10	15	120	50	2-wire		
RM7840M1017	RM7840M1017	Selectable	LHL LF PRV		X	X	X	X	X	X	X	X	X	4, 10	X	10	15	120	50/ 60	2-wire		

Table 7. FIREYE™ TO HONEYWELL PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Current Replacement 1 2 4	7800 Series Replacement 1 2 3 6 12 13 20 23 32 33	Prepurge				Interlocks						INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments
			Timing	Lo-Fire On-Off	LHL	LHL PRV	OP Damp	Start	Running	Lockout	Preignition	Hi-fire								
25RU8 4580	None	RM7840L1018 or RM7800L1012	47					X			X	X				20	3-wire	50/60	50/60	4 sec FFRT, used with self-check UV flame detector
25RU8 6558	None	RM7840G1014 or RM7800G1018	33	X				X			X					15	3-wire	120/60	50/60	4 sec FFRT, UV type flame detector.
25RU8 6560	None	RM7840L1018 or RM7800G1018	60	X							X					10	4-wire	120/60	50/60	1-4 sec FFRT, UV type flame detector.
24RU8 6566	None	RM7840G1014 or RM7840L1018	30	X							X					10	2-wire	120/60	50/60	4 sec FFRT, UV type flame detector.
25RU8 6570	None	RM7840L1018 or RM7800L1012	63	X							X					15	4-wire	120/60	50/60	4 sec FFRT, UV type flame detector.
25RU8 6580	None	RM7840L1018 or RM7800L1012	45		X							X				20	4-wire	120/60	50/60	1-2 sec FFRT, UV type flame detector.
26CF6 1000	None	RM7840M1017 or RM7840L1018	30	X							X					15		120/60	50/60	1-4 sec FFRT, IR type flame detector.
26CF6 1010	None	RM7840M1017 or RM7840L1018	37					X			X					15		120/60	50/60	1-4 sec FFRT, IR type flame detector.
26CF6 1011	None	RM7840M1017 or RM7840L1018	98					X			X					25		120/60	50/60	1-4 sec FFRT, IR type flame detector.
26CF6 1012	None	RM7840G1014 or RM7840L1018	60	X							X					20	3-wire	120/60	50/60	1-4 sec FFRT, IR type flame detector.
26CF6 5020	None	RM7840M1017 or RM7840L1018	37					X			X					10		120/60	50/60	1-4 sec FFRT, IR type flame detector.

See footnotes on page 36.

Table 7. FIREYE™ TO HONEYWELL PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Current Replacement 1 2 4	7800 Series Replacement 1 2 3 6 12 13 20 23 32 33	Prepurge				Interlocks						INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments		
			Timing	Lo-Fire On-Off	Type			Running	Lockout	Preignition	Hi-fire	Lo-fire									PFEP	INTM Pilot
					LHL	LHL PRV	OP Damp															
26CF6 5021	None	RM7840M1017 or RM7840L1018	98						X	X								120	50/ 60	1-4 sec FFRT, IR type flame detector.		
26CF6 5022 26CF6 5022A	None	RM7840L1018	60		X					X								120	50/ 60	With AUTOCHECK feature, same as Honeywell R7245B AMPLI-CHECK™.		
26CF6 5023 26CF6 5023A	None	RM7840G1014 or RM7840L1018	60	X				X										120	50/ 60	4 sec FFRT, IR type flame detector.		
26CF6 RC-3A	None	RM7840G1014 or RM7840L1018	60	X				X										120	50/ 60	Ray Burner special, 2 sec FFRT.		
26RJ8 1000	None	RM7840G1014 or RM7800G1018 23	30	X				X										115 230	50/ 60	4 sec FFRT, IR type flame detector, low voltage controller.		
26RJ8 1001	None	RM7840G1014 or RM7800G1018 23	30	X				X										115 230	50/ 60	Orr and Sewbower special, IR type flame detector, low voltage controller.		
26RJ8 1002	None	Consult OEM for replacement	30	X				X										115 230	50/ 60	Cleaver Brooks special, 4 sec FFRT, IR type flame detector, low voltage controller.		
26RJ8 1003	None	RM7840G1014 or RM7800G1018 23	30	X				X										115 230	50/ 60	North America special, 4 sec FFRT, IR type flame detector, low voltage controller.		
26RJ8 1004	None	RM7840G1014 or RM7800G1018 23	30	X				X										115 230	50/ 60	4 sec FFRT, IR type flame detector, B&W FM boiler special, vacuum tube circuitry.		

See footnotes on page 36.

Table 7. FIREYE™ TO HONEYWELL PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Current Replacement 1 2 4	Prepurge					Interlocks						Voltage	Modulation	Postpurge	Spark Term	MFEF	INTR Pilot	INTM Pilot	PFEP	Frequency	Comments													
		Timing	Lo-Fire On-Off	Type			Start	Running	Lockout	Preignition	Hi-fire	Lo-fire																							
				LHL	LHL PRV	OP Damp																													
26RJ8 1005	None or RM7800M1011 23	30			X	X																		115 230		60								4 sec FFRT, IR type flame detector, B&W FM boiler special, vacuum tube circuitry.	
26RJ8 1006	None or RM7840G1014 or RM7800G1018 23	30	X			X																													4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.
26RJ8 1008	None or RM7840G1014 or RM7800G1018 23	30	X			X																													4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.
26RJ8 1009	None or RM7840M1017 or RM7800M1011 23	30				X																													4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.
26RJ8 1011	None or RM7840G1014 or RM7800G1018 23	0	X			X																													North America special, IR type flame detector, low voltage controller, vacuum tube circuitry.
26RJ8 1012 26RJ8 1012T	None or RM7840G1014 or RM7800G1018 23	35																																	North America special, dual IR type flame detectors, vacuum tube circuitry.
26RJ8 1016 26RJ8 1016T	None or RM7840G1014 or RM7800G1018 23	65																																	1 sec FFRT, dual IR type flame detectors, vacuum tube circuitry.
26RJ8 1018	None or RM7840G1014 or RM7800G1018 23	45	X			X																													2-4 sec FFRT, IR type flame detectors, low voltage controller, vacuum tube circuitry.
26RJ8 1114, 26RJ8 1115, 26RJ8 5914	None	45	X			X																													U.S. Navy special, no replacement available, voltage controller, vacuum tube circuitry.

See footnotes on page 36.

Table 7. FIREYE™ TO HONEYWELL PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Current Replacement 1 2 4	7800 Series Replacement 1 2 3 6 12 13 20 23 32 33	Prepurge				Interlocks						PFEFP	INTM Pilot	INTR Pilot	MFEP	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments
			Timing	Lo-Fire On-Off	Type			Running	Lockout	Preignition	Hi-fire	Lo-fire										
					LHL	LHL PRV	OP Damp															
26RJ8 6008	None	RM7840G1014 or RM7800G1018 23	35	X						X	X					15, 55	15	3- wire	120 208 240	60	1-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.	
26RJ8 6009	None	RM7840M1017 or RM7800M1011 23	35			X				X						15	55	55	120 208 240	50/ 60	B&W FM boiler special, 1-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.	
26RJ8 6012	None	RM7840G1014 or RM7800G1018 23	35	X						X						15	55	30	120 208 240	50/ 60	1-4 sec FFRT, dual IR type flame detectors, low voltage controller, vacuum tube circuitry.	
26RJ8 6016	None	RM7840G1014 or RM7800G1018 23	65							X						15	55	15	120 208 240	50/ 60	1-4 sec FFRT, dual IR type flame detectors, low voltage controller, vacuum tube circuitry.	
26RJ8 6018	None	RM7840G1014 or RM7800G1018 23	45	X						X						15, 30	30	15	120 208 240	50/ 60	1-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.	
26RJ8 6026	None		60	X							X					15	80	2- wire	120	60	1-4 sec FFRT, IR type flame detector, low voltage controller, special for air heaters	
26RJ8 6058	None	RM7840G1014 or RM7800G1018 23	35	X						X						15, 55	55	15	120	60	1-4 sec FFRT, IR type flame detector, vacuum tube circuitry.	
26RJ8 6060	None	RM7840L1018 or RM7800G1018 23	60	X						X						10, 30	30	20	120	50/ 60	1-4 sec FFRT, IR type flame detector, vacuum tube circuitry.	
26RJ8 6066	None	RM7840G1014 or RM7800G1018 23	30							X						15, 25	25	10	120	50/ 60	1-4 sec FFRT, IR type flame detector, vacuum tube circuitry.	

See footnotes on page 36.

Table 7. FIREYE™ TO HONEYWELL PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Current Replacement 1 2 4	7800 Series Replacement 1 2 3 6 12 13 20 23 32 33	Prepurge				Interlocks						Voltage	Modulation	Postpurge	Spark Term	MFEF	INTR Pilot	INTM Pilot	PFEP	Comments							
			Timing	Lo-Fire On-Off	Type			Start	Running	Lockout	Preignition	Hi-fire										Lo-fire						
					LHL	LHL PRV	OP Damp																					
26RJ8 6068	None	RM7840G1014 or RM7800G1018 23	45	X				X										X	15, 30		10		120	4- wire	15			1-4 sec FFRT, IR type flame detector, vacuum tube circuitry, for Canada.
26RJ8 6070	None	RM7840L1018 or RM7800L1012 23	65		X			X										X	15, 30		10		120	4- wire	15			1-4 sec FFRT, IR type flame detector, vacuum tube circuitry.
26RJ8 6080	None	RM7840L1018 or RM7800G1018 23	45		X				X									X	10, 15, 30		10		120	4- wire	20	X		1-2 sec FFRT, IR type flame detector, vacuum tube circuitry.
26RJ8 6160	None	RM7840L1018 or RM7800G1018 23	60	X				X										X	10, 30		7		120	4- wire	20	X		1-4 sec FFRT, IR type flame detector, vacuum tube circuitry.
26RJ8 CB-1	Consult OEM		45	X				X										X	15		10		120	4- wire	15			Cleaver Brooks special, IR type flame detector, low voltage controller.
26RJ8 CB-3	Consult OEM		45		X				X									X	"10, 15, 30		10		120	4- wire	"20			Cleaver Brooks special, IR type flame detector, low voltage controller.
29RF5 1000	None	RM7840G1014 or RM7800G1018 23	15	X				X										X	10		5		115 230		15			1-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.
29RF5 1001	None	RM7840G1014 or RM7800G1018 23	25	X				X										X	13		7		115 230		15			1-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.
29RF5 1002	None	RM7840G1014 or RM7800G1018 23	15	X				X										X	15		5		115 230		15			1-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.

See footnotes on page 36.

Table 7. FIREYE™ TO HONEYWELL PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Current Replacement 1 2 4	7800 Series Replacement 1 2 3 6 12 13 20 23 32 33	Prepurge				Interlocks						INTR Pilot	MFEF	Spark Term	Postpurge	Modulation	Voltage	Frequency	Comments		
			Timing	Lo-Fire On-Off	Type			Running	Lockout	Preignition	Hi-fire	Lo-fire									PFEP	INTM Pilot
					LHL	LHL PRV	OP Damp															
29RF5 1005	None	RM7840G1014 or RM7800G1018 23	15								X							115 230	50/ 60	2-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.		
29RF5 1009	None	RM7840G1014 or RM7800G1018 23	25	X							X							114 230	50/ 60	1-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.		
29RF5 1015	None	RM7840G1014 or RM7800G1018 23	15								X							115 230	50/ 60	2-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.		
29RF5 1103	None		15	X							X							115 230	50/ 60	Military special, IR type flame detector, low voltage controller, vacuum tube circuitry.		
29RF5 1104	None	RM7840G1014 or RM7800G1018 23	5	X							X							115 230	50/ 60	A.E.C. Kiins special, IR type flame detector, low voltage controller, vacuum tube circuitry.		
29RF5 6009	None	RM7840G1014 or RM7800G1018 23	25	X							X							120 208 240	60	1-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.		
29RF5 6015	None	RM7840G1014 or RM7800G1018 23	18	X							X							120 208 240	60	1-4 sec FFRT, IR type flame detector, low voltage controller, vacuum tube circuitry.		
29RF5 6103	None																			Military special, IR type flame detector, vacuum tube circuitry.		
D10-5016	None	RM7840L1018 or RM7800L1012 23	60		X													120 060	50/ 060	4 sec FFRT, rectification type flame detector, solid state circuitry.		

See footnotes on page 36.

Table 7. FIREYE™ TO HONEYWELL PROGRAMMER CROSS REFERENCE. (Continued)

Device to be Replaced	Current Replacement 1 2 4	Prepurge					Interlocks						Voltage	Modulation	Postpurge	Spark Term	MFEF	INTR Pilot	INTM Pilot	PFEP	Frequency	Comments			
		Timing	Lo-Fire On-Off	Type			Start	Running	Lockout	Preignition	Hi-fire	Lo-fire													
				LHL	LHL PRV	OP Damp																			
D10-5022	None or RM7800L1012 23	60		X					X	X	X	X	10	X	15	X	10, 15	X	X	10	50/ 60	120	4- wire	15	4 sec FFRT, IR type flame detector, auto check amplifier, solid state circuitry.
D10-5065	None or RM7840L1018 or RM7800L1012 23	60		X					X	X	X	X	10	X	15	X	10, 15	X	X	10	50/ 60	120	4- wire	15	4 sec FFRT, UV type flame detector, solid state circuitry.
D20-5015	None or RM7840L1018 or RM7800L1012 23	60	X										10	X	15	X	10, 15	X	X	10	50/ 60	120	4- wire	15	4 sec FFRT, rectification type flame detector, solid state circuitry.
D20-5023	None or RM7840L1018 or RM7800G1018 23	60	LF PRV						X					X	15	X	10, 15	X	X		50/ 60	120	4- wire	15	4 sec FFRT, IR type flame detector, solid state circuitry.
D20-5066	None or RM7840L1018 or RM7800L1012 23	60	LF PRV						X					X	15	X	10, 15	X	X		50/ 60	120	4- wire	15	4 sec FFRT, UV type flame detector, solid state circuitry.
D30-5010	None or RM7840M1017 23	30							X					X	15	X	10	X	X		50/ 60	120		15	4 sec FFRT, rectification type flame detector, solid state circuitry."
D30-5011	None or RM7840L1018 or RM7840M1017	90							X					X	15	X	10	X	X		50/ 60	120		15	4 sec FFRT, rectification type flame detector, solid state circuitry.
D30-5020	None or RM7840L1018 or RM7840M1017	30							X					X	15	X	10	X	X		50/ 60	120		15	4 sec FFRT, IR type flame detector, solid state circuitry.
D30-5021	None or RM7840L1018 or RM7840M1017	90							X					X	15	X	10	X	X		50/ 60	120		15	4 sec FFRT, IR type flame detector, solid state circuitry.
D30-5062	None or RM7840L1018 or RM7840M1017	30							X					X	15	X	10	X	X		50/ 60	120		15	4 sec FFRT, IR type flame detector, solid state circuitry.

See footnotes on page 36.

FOOTNOTES:

- 1 Refer to Modernization Wiring Information for conversion wiring information.
- 2 Refer to Modernization Programmer Selection section for proper subbase, amplifier and flame detector.
- 3 15 second postpurge.
- 4 Replacement is 120 Vac, 50/60 Hz.
- 5 42 second prepurge.
- 6 See Series ST7800A Plug-in Timers for prepurge timings available.
- 7 10 second PFEP.
- 8 96 second prepurge.
- 9 16 second postpurge.
- 10 4-wire modulation.
- 11 10, 15 second MFEP.
- 12 RM7840G,M meets current UL requirements.
- 13 RM7840L meets current insurance requirements.
- 14 70 second prepurge.
- 15 10, 30, or 60 second MFEP.
- 16 60 second prepurge.
- 17 10, 15, or 30 second MFEP.
- 18 10 second MFEP.
- 19 25 second postpurge.
- 20 4 or 10 second PFEP.
- 21 30 second prepurge.
- 22 40 second prepurge.
- 23 With display module.
- 24 Existing Fireye™ UV Sensors must be replaced with a Honeywell C7027A1080.
- 25 Running interlocks become lockout interlocks after main valve opens.
- 26 30 or 90 second prepurge.
- 27 5 second PFEP on terminal 6.
- 28 Available from proprietary OEM only.
- 29 5 second trial for ignition on terminal 6.
- 30 Early spark termination.
- 31 EP100, EP200 Series, add a 30 second waiting period after prepurge while motor is driving to low fire position for a total prepurge of 60 seconds.
- 32 Select proper flame amplifier.
- 33 Requires Q7800A or Q7800B Wiring Subbase.

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