

Honeywell Primary Control Cross Reference

Page 1	R177, R180, R187, R190B, RA190B, R190C, R887, R890B RA890B, R890C, RA890C, RA890XB,XC, RA890D
Pages 2–4	RA890E
Pages 5–7	RA890F
Pages 8–9	RA890G
Page 10	RA890H,J,K
Page 11	R485
Pages 12–13	R4075
Pages 14–15	R4138
Pages 16–17	R4795
Pages 18–19	R7023
Page 20	R7795
Pages 21–24	7800 SERIES
Page 25	FIREYE™ TFM2,3 and UVM2,3,5



TABLE 1—CROSS REFERENCE				
Device To Be Replaced	Current Replacement	7800 Series Replacement ② ③	Wiring Designation and Terminal Number	Comments
R177A	① RA890F	RM7890A1015	power—1,2 limit—1-5 motor—3 ignition—4 controller—R,W,B detector—F,G	Remove Series 10 Controller and rewire. Same as RA890F except does not have “proof of flame” terminal (terminal 5 on RA890E,F). Requires Q270A Subbase with RA890F. Requires Q7800F1004 Subbase with RM7890A1015.
R180A	① RA890F	RM7890A1015	power—1,2 jumper—1-3 limit, main valve—4 controller—R,W,B detector—F,G	Continuous pilot applications only. Remove Series 10 Controller and rewire. Requires Q270A Subbase with RA 890F. Requires Q7800F1004 Subbase with RM7890A1015.
R180B	① RA890F	RM7890A1015	power —1,2 limit, main valve—5 motor, pilot valve—3 ignition—4 controller—R,W,B detector—F,G	Functionality same as RA890F. Remove Series 10 Controller and rewire. Requires Q270A Subbase with RA890F. Requires Q7800F1004 Subbase with RM7890A1015.
R187A	① RA890F	RM7890A10105	power—1,2 limit—1-5 motor—3 ignition—4 controller—R,W,B detector—F,G	Remove Series 10 Controller and rewire. Requires Q270A Subbase with RA890F. Requires Q7800F1004 Subbase with RM7890A1015
R190B, RA190B	① RA890F	RM7890A1015	See R180B	Remove Series 10 Controller and rewire. Requires Q270A Subbase with RA890F. Requires Q7800F1004 Subbase with RM7890A1015.
R190C	None	RM7838A,B RM7890B1014	See Modernization Wiring Information section	Used in W124 and ID051 panels. See Modernization Wiring Information section.
R887A	① RA890F	RM7890A1015	power—1,2 limit—1-5 motor—3 ignition—4 controller—T,T detector—F,G	Rewire. Requires Q270A Subbase with RA890F. Requires Q7800F1004 Subbase with RM7890A1015.
R890B, RA890B	① RA890F	RM7890A1015	power—1,2 limit—1 motor, pilot valve—3 ignition—4 main valve—5 controller—6 jumper—T,T detector—F,G	Requires Q7800F1004 Subbase with RM7890A1015.
R890C, RA890C	RA890F	RM7890A1015	Same as R890B, RA890B	Requires Q7800F1004 Subbase with RM7890A1015.
RA890XB	RA890F	RM7890A1015	Same as R890B	Requires Q7800F1004 Subbase with RM7890A1015.
RA890XC			RA890B	
RA890D	R4140M	RM7840M1017	Same as R890B, RA890B except controller always on terminal 6 and LF switch to T,T	Requires Q520A Subbase and R7247A Amplifier Requires rewire with Q7800A1005 Subbase and R7847A1009 or R7847B1007 Amplifier with RM7840M1017.

FOOTNOTES:

- ① Refer to Primary Cross-Reference section to select proper voltage, frequency, and timings.
 ② Select R7847A1025, 1033 or R7847B1023, 1031 Amplifier. JR2 must be clipped when using 3 second amplifier.
 ③ See Modernization Wiring Information section.

TABLE 2—RA890E CROSS REFERENCE									
Device to be Replaced RA890E	Replacement			Amplifier ⑥	Function of Device to be replaced				Comments
	Current RA890F	7800 Series ② ③ ⑧			Voltage (Vac)	Frequency (Hz)	Safety Switch Timing (Secs)	FFRT (sec)	
1009	RA890F1338	④ RM7890A1015		R7847A1025	120	60	30	0.8	
1017	None	① ⑤ EC7890A1011		R7847A1025	208	60	30	0.8	
1025	None	⑤ EC7890A1011		R7847A1025	240	60	30	0.8	
1033	RA890F1338	④ RM7890A1015		R7847A1025	120	50	30	0.8	
1041	None	⑤ EC7890A1011		R7847A1025	220	50	30	0.8	
1058	None	⑤ EC7890A1011		R7847A1025	240	50	30	0.8	
1066	RA890F1346	④ RM7890A1015		R7847A1033	120	60	30	2-4	
1074	None	① ⑤ EC7890A1011		R7847A1033	208	60	30	2-4	
1082	None	⑤ EC7890A1011		R7847A1033	240	60	30	2-4	
1090	RA890F1346	④ RM7890A1015		R7847A1033	120	50	30	2-4	
1108	None	⑤ EC7890A1011		R7847A1033	220	50	30	2-4	
1116	None	⑤ EC7890A1011		R7847A1033	240	50	30	2-4	
1124	RA890F1270	④ RM7890A1015		R7847A1025	120	60	15	0.8	
1132	None	① ⑤ EC7890A1011		R7847A1025	208	60	15	0.8	
1140	None	⑤ EC7890A1011		R7847A1025	240	60	15	0.8	
1157	RA890F1270	④ RM7890A1015		R7847A1025	120	50	15	0.8	
1165	RA890F1304	⑤ EC7890A1011		R7847A1025	220	50	15	0.8	
1173	None	⑤ EC7890A1011		R7847A1025	240	50	15	0.8	
1181	RA890F1288	④ RM7890A1015		R7847A1033	120	50/60	15	2-4	
1199	None	① ⑤ EC7890A1011		R7847A1033	208	50/60	15	2-4	
1207	None	⑤ EC7890A1011		R7847A1033	240	50/60	15	2-4	
1215	RA890F1288	④ RM7890A1015		R7847A1033	120	50	15	2-4	
1223	None	⑤ EC7890A1011		R7847A1033	220	50	15	2-4	
1231	RA890F1387	⑤ EC7890A1011		R7847A1033	240	50	15	2-4	
1249	RA890F1338	④ RM7890A1015		R7847A1025	120	50/60	30	0.8	N.O.
1256	None	① ⑤ EC7890A1011		R7847A1025	208	50/60	30	0.8	N.O.
1264	None	⑤ EC7890A1011		R7847A1025	240	50/60	30	0.8	N.O.
1272	None	⑤ EC7890A1011		R7847A1025	220	50	30	0.8	N.O.
1280	RA890F1346	④ RM7890A1015		R7847A1033	120	50/60	30	2-4	N.O.
1298	None	① ⑤ EC7890A1011		R7847A1033	208	60	30	2-4	N.O.
1306	None	⑤ EC7890A1011		R7847A1033	240	60	30	2-4	N.O.
1314	RA890F1346	④ RM7890A1015		R7847A1033	120	50	30	2-4	N.O.
1322	None	⑤ EC7890A1011		R7847A1033	220	50	30	2-4	N.O.
1330	None	⑤ EC7890A1011		R7847A1033	240	50	30	2-4	N.O.
1348	RA890F1270	④ RM7890A1015		R7847A1025	120	50/60	15	0.8	N.O.
1355	None	① ⑤ EC7890A1011		R7847A1025	208	50/60	15	0.8	N.O.
1363	None	⑤ EC7890A1011		R7847A1025	240	50/60	15	0.8	N.O.

TABLE 2—RA890E CROSS REFERENCE (continued)

Device to be Replaced RA890E	Replacement		Function of Device to be replaced					Comments
	Current RA890F	7800 Series ② ③ ④	Amplifier ⑥	Voltage (Vac)	Frequency (Hz)	Safety Switch Timing (Secs)	FFRT (sec)	Alarm Contacts ⑦
1371	None	⑤ EC7890A1011	R7847A1025	240	50	15	0.8	N.O.
1389	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	2-4	N.O.
1397	RA890F1296	① ⑤ EC7890A1011	R7847A1033	208	50/60	15	2-4	N.O.
1405	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	2-4	N.O.
1413	RA890F1338	④ RM7890A1015	R7847A1025	120	60	30	0.8	N.C.
1421	None	① ⑤ EC7890A1011	R7847A1025	208	60	30	0.8	N.C.
1439	None	⑤ EC7890A1011	R7847A1025	240	60	30	0.8	N.C.
1447	RA890F1346	④ RM7890A1015	R7847A1033	120	60	30	2-4	N.C.
1454	None	⑤ EC7890A1011	R7847A1033	240	60	30	2-4	N.C.
1462	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	N.C.
1470	None	① ⑤ EC7890A1011	R7847A1025	208	50/60	15	0.8	N.C.
1488	None	⑤ EC7890A1011	R7847A1025	240	50/60	15	0.8	N.C.
1496	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	2-4	N.C.
1504	RA890F1296	① ⑤ EC7890A1011	R7847A1033	208	50/60	15	2-4	N.C.
1512	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	2-4	N.C.
1520	None	④ RM7890A1015	R7847A1033	120	60	45	2-4	N.O.
1538	None	⑤ EC7890A1011	R7847A1033	240	60	45	2-4	N.O.
1546	None	⑤ EC7890A1011	R7847A1025	240	50	30	0.8	N.O.
1553	None	① ⑤ EC7890A1011	R7847A1025	208	50	30	0.8	
1561	RA890F1304	⑤ EC7890A1011	R7847A1025	220	50	15	0.8	N.O.
1579	None	⑤ EC7890A1011	R7847A1025	220	50	15	0.8	N.C.
1587	RA890F1288	④ RM7890A1015	R7847A1033	120	50	15	2-4	N.C.
1595	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50	15	2-4	N.C.
1603	RA890F1338	④ RM7890A1015	R7847A1025	120	50/60	30	0.8	Spdt
1611	None	⑤ EC7890A1011	R7847A1025	220	50	30	0.8	Spdt
1629	RA890F1346	④ RM7890A1015	R7847A1033	120	50/60	30	2-4	Spdt
1637	None	⑤ EC7890A1011	R7847A1033	240	50/60	30	2-4	Spdt
1645	RA890F1346	④ RM7890A1015	R7847A1033	120	50	30	2-4	Spdt
1652	None	⑤ EC7890A1011	R7847A1033	220	50	30	2-4	Spdt
1660	None	⑤ EC7890A1011	R7847A1033	240	50	30	2-4	Spdt
1678	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	Spdt
1686	None	① ⑤ EC7890A1011	R7847A1025	208	50/60	15	0.8	Spdt
1694	None	⑤ EC7890A1011	R7847A1025	240	50/60	15	0.8	Spdt
1702	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	2-4	Spdt
1710	RA890F1296	① ⑤ EC7890A1011	R7847A1033	208	50/60	15	2-4	Spdt

TABLE 2—RA890E CROSS REFERENCE (continued)

TABLE 2—RA890E CROSS REFERENCE (continued)									
Device to be Replaced RA890E	Replacement		Amplifier ⑥	Function of Device to be replaced					Comments
	Current RA890F	7800 Series ② ③ ④		Voltage (Vac)	Frequency (Hz)	Safety Switch Timing (Secs)	FFRT (sec)	Alarm Contacts ⑦	
1728	RA809F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	2-4	Spdt	
1736	None	① ⑤ EC7890A1011	R7847A1025	208	50/60	30	0.8	Spdt	
1744	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50	15	2-4	Spdt	
1751	None	⑤ EC7890A1011	R7847A1025	240	50/60	30	0.8	Spdt	
1769	None	⑤ EC7890A1011	R7847A1033	220	50	15	2-4	Spdt	
1777	RA890F1288	④ RM7890A1015	R7847A1033	120	50	15	2-4	Spdt	
1785	None	⑤ EC7890A1011	R7847A1033	220	50	15	2-4	N.O.	
1793	RA890F1304	⑤ EC7890A1011	R7847A1025	220	50	15	0.8	N.O.	
1801	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50	15	2-4		
1819	None	⑤ EC7890A1011	R7847A1033	220	50	15	2-4		
1827	RA890F1288	④ RM7890A1015	R7847A1033	120	50	15	2-4		
1835	None	⑤ EC7890A1011	R7847A1033	220	50	30	2-4		
1843	None	⑤ EC7890A1011	R7847A1033	240	50	30	2-4		
1850	None	⑤ EC7890A1011	R7847A1025	240	50/60	30	0.8		Fungus-Proof
1868	None	① ⑤ EC7890A1011	R7847A1025	208	50/60	30	0.8		Fungus-Proof
1876	RA890F1304	⑤ EC7890A1011	R7847A1025	220	50	15	0.8	Spdt	
1884	None	⑤ EC7890A1011	R7847A1025	240	50/60	30	0.8	Spdt	
1892	None			100	50/60	15	0.8		Special for Yamatake (Japan)
1900	None	① ⑤ EC7890A1011	R7847A1025	200	50/60	15	0.8		Special for Yamatake (Japan)
1918	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8		
1926	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	2-4		
1934	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	Spdt	
1942	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	2-4	Spdt	
1959	None			100	50/60	15	2-4	Spdt	Special for Yamatake (Japan)
1967	None	⑤ EC7890A1011	R7847A1033	220	50	30	2-4		
1975	None	① ⑤ EC7890A1011	R7847A1033	208	60	15	2-4	Spdt	

FOOTNOTES:

- ① EC7890 operating voltage is 187 Vac to 264 Vac 50/60 Hz
- ② Suggested Replacement Device has a 10 Second Safety Switch Time
- ③ Select Wiring Subbase
 - Q7800A1005 for Panel Mounting - Wiring conversion required
 - Q7800B1003 for Burner/Wall Mounting - Wiring conversion required
 - Q7800F1004 - Mounts to existing wiring subbase
- ④ Alternate Replacement RM7890B1014. RM7890B has a shutter output terminal.
- ⑤ Alternate Replacement EC7890B1010. EC7890B has a shutter output terminal. A 240 to 120 10va minimum transformer will be needed if detector system changed to shutter type detector.
- ⑥ For Sensor Leadwire runs greater than 50feet select appropriate amplifier.
 - R7847A1075 for 0.8 Flame Failure Response
 - R7847A1082 for 3.0 Flame Failure Response
- ⑦ 7800 Series has only a line voltage output alarm.
- ⑧ RM7890A1056 or RM7890B1040 can also replace the RM7890A1015. A jumper between terminals 3 and 20 will need to be added.

TABLE 3—RA890F CROSS REFERENCE

Device to be Replaced RA890F	Replacement			Function of Device to be replaced					Comments
	Current RA890F	7800 Series ② ③ ④	Amplifier ⑥	Voltage (Vac)	Frequency (Hz)	Safety Switch Timing (Secs)	FFRT (sec)	Alarm Contacts ⑦	
1007	RA890F1338	④ RM7890A1015	R7847A1025	120	50/60	30	0.8		
1015	RA890F1346	④ RM7890A1015	R7847A1033	120	50/60	30	3		
1023	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8		
1031	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	3		
1049	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	Spdt	
1056	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	3	Spdt	
1064	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	Spdt	
1072	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	3	Spdt	
1080	RA890F1296	① ⑤ EC7890A1011	R7847A1033	208	50/60	15	3	Spdt	
1098	RA890F1304	⑤ EC7890A1011	R7847A1025	220	50/60	15	0.8	Spdt	
1106	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	15	0.8		
1114	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	3		
1122	RA890F1338	④ RM7890A1015	R7847A1025	120	50/60	30	0.8	Spdt	
1130	RA890F1346	④ RM7890A1015	R7847A1033	120	50/60	30	3	Spdt	
1148	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	30	0.8	Spdt	
1155	NONE	⑤ EC7890A1011	R7847A1033	240	50/60	30	3	Spdt	
1163	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	15	0.8	Spdt	
1171	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	3	Spdt	
1189	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	30	0.8	Spdt	
1197	NONE	⑤ EC7890A1011	R7847A1033	240	50/60	30	3		
1205	NONE	NONE		100	50/60	15	3	Spdt	Special for Yamatake (Japan)
1213	NONE	⑤ EC7890A1011	R7847A1033	220	50/60	15	3	Spdt	
1221	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	3	Spdt	
1239	RA890F1338	④ RM7890A1015	R7847A1025	120	50/60	30	0.8		
1247	RA890F1346	④ RM7890A1015	R7847A1033	120	50/60	30	3		
1254	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8		
1262	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	3		
1270	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	Spdt	
1288	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	3	Spdt	
1296	RA890F1296	① ⑤ EC7890A1011	R7847A1033	208	50/60	15	3	Spdt	
1304	RA890F1304	⑤ EC7890A1011	R7847A1025	220	50/60	15	0.8	Spdt	
1312	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	15	0.8		
1320	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	3		
1338	RA890F1338	④ RM7890A1015	R7847A1025	120	50/60	30	0.8	Spdt	
1346	RA890F1346	④ RM7890A1015	R7847A1033	120	50/60	30	3	Spdt	
1353	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	30	0.8	Spdt	

TABLE 3—RA890F CROSS REFERENCE (continued)

Device to be Replaced RA890F	Replacement			Function of Device to be replaced					Comments
	Current RA890F	7800 Series ② ③ ⑥	Amplifier ④	Voltage (Vac)	Frequency (Hz)	Safety Switch Timing (Secs)	FFRT (sec)	Alarm Contacts ⑦	
1361	NONE	⑤ EC7890A1011	R7847A1033	240	50/60	30	3	Spdt	
1379	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	15	0.8	Spdt	
1387	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	3	Spdt	
1395	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	30	0.8		
1403	NONE	⑤ EC7890A1011	R7847A1033	240	50/60	30	3		Special for Yamatake (Japan)
1411	NONE	NONE		100	50/60	15	3	Spdt	
1429	NONE	⑤ EC7890A1011	R7847A1033	220	50/60	15	3	Spdt	
1437	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	Spdt	
1445	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	3	Spdt	
1452	NONE	① ⑤ EC7890A1011	R7847A1025	208	50/60	15	0.8	Spdt	
1460	NONE	NONE		100	50/60	15	0.8	Spdt	
1478	RA890F1478	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	Spdt	Fast Response Safe Start Check
1486	RA890F1338	④ RM7890A1015	R7847A1025	120	50/60	30	0.8		
1494	RA890F1346	④ RM7890A1015	R7847A1033	120	50/60	30	3		
1502	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8		
1510	RA890F1288	④ RM7890A1015	R7847A1033	120	50/60	15	3		
1528	RA890F1270	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	Spdt	
1536	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	15	0.8		
1544	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	3		
1551	RA890F1338	④ RM7890A1015	R7847A1025	120	50/60	30	0.8	Spdt	
1569	RA890F1346	④ RM7890A1015	R7847A1033	120	50/60	30	3	Spdt	
1577	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	30	0.8	Spdt	
1585	NONE	⑤ EC7890A1011	R7847A1033	240	50/60	30	3	Spdt	
1593	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	15	0.8	Spdt	
1601	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	30	0.8		
1619	NONE	⑤ EC7890A1011	R7847A1033	240	50/60	30	3		
1627	RA890F1478	④ RM7890A1015	R7847A1025	120	50/60	15	0.8		Fast Response Safe Start Check
1635	NONE	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	Spdt	Tamper Reistant Relay Cover
1643	NONE	④ RM7890A1015	R7847A1033	120	50/60	15	3		Tamper Reistant Relay Cover
1650	NONE	⑤ EC7890A1011	R7847A1025	220	50/60	15	0.8	Spdt	15 second Delayed Pull in
1668	NONE	⑤ EC7890A1011	R7847A1025	220	50/60	10	0.8	Spdt	
1676	NONE	④ RM7890A1015	R7847A1025	120	50/60	15	0.8	Spdt	Approved -40F (-40C)
1684	NONE	④ RM7890A1015	R7847A1025	120	50/60	10	0.8	Spdt	
1692	RA890F1692	⑤ EC7890A1011	R7847A1025	220	50/60	15	0.8	Spdt	Honeywell - Mexico Only
1700	RA890F1700	④ RM7890A1015	R7847A1025	120	50/60	30	0.8	Spdt	Honeywell - Mexico Only
1718	RA890F1718	④ RM7890A1015	R7847A1033	120	50/60	30	3	Spdt	Honeywell - Mexico Only

TABLE 3—RA890F CROSS REFERENCE (continued)								
Device to be Replaced RA890F	Replacement		Function of Device to be replaced					Comments
	Current RA890F	7800 Series ② ③ ⑥	Amplifier ④	Voltage (Vac)	Frequency (Hz)	Safety Switch Timing (Secs)	FFRT (sec)	Alarm Contacts ⑦
1726	RA890F1726	⑤ EC7890A1011	R7847A1033	240	50/60	30	3	Spdt
1734	Consult Original Equipment Manufacturer			120	50/60	15	3	Spdt

FOOTNOTES:

- ① EC7890 operating voltage is 187 Vac to 264 Vac 50/60 Hz
- ② Suggested Replacement Device has a 10 Second Safety Switch Time
- ③ Select Wiring Subbase
 - Q7800A1005 for Panel Mounting - Wiring conversion required
 - Q7800B1003 for Burner/Wall Mounting - Wiring conversion required
 - Q7800F1004 - Mounts to existing wiring subbase
- ④ Alternate Replacement RM7890B1014. RM7890B has a shutter output terminal.
- ⑤ Alternate Replacement EC7890B1010. EC7890B has a shutter output terminal. A 240 to 120 10va minimum transformer will be needed if detector system changed to shutter type detector.
- ⑥ For Sensor Leadwire runs greater than 50feet select appropriate amplifier.
 - R7847A1075 for 0.8 Flame Failure Response
 - R7847A1082 for 3.0 Flame Failure Response
- ⑦ 7800 Series has only a line voltage output alarm.
- ⑧ RM7890A1056 or RM7890B1048 can replace the RM7890A1015. Terminals 3 and 20 will need to be jumped.

TABLE 4—RA890G CROSS REFERENCE

Device to be Replaced RA890G	Replacement		Function of Device to be replaced					Comments
	Current RA890G	7800 Series ② ③ ④ ⑤ ⑦	Amplifier	Voltage (Vac)	Frequency (Hz)	Safety Switch Timing (Secs)	FFRT (sec)	Alarm Contacts ④
1005	RA890G1229	④ RM7890A1015	R7849A1015	120	50/60	15	0.8	
1013	RA890G1229	④ RM7890A1015	R7849A1015	120	50/60	15	0.8	Spdt
1021	None	⑤ EC7890A1011	R7849A1015	240	50/60	15	0.8	
1039	RA890G1245	⑤ EC7890A1011	R7849A1015	220	50/60	15	0.8	Spdt
1047	RA890G1260	④ RM7890A1015	R7849A1023	120	50/60	15	3	
1054	RA890G1260	④ RM7890A1015	R7849A1023	120	50/60	15	3	Spdt
1062	None	① ⑤ EC7890A1011	R7849A1023	208	50/60	15	3	Spdt
1070	RA890G1229	④ RM7890A1015	R7849A1015	120	50/60	15	0.8	
1088	RA890G1229	④ RM7890A1015	R7849A1015	120	50/60	15	0.8	Spdt
1096	None	⑤ EC7890A1011	R7849A1015	240	50/60	15	0.8	
1104	RA890G1245	⑤ EC7890A1011	R7849A1015	220	50/60	15	0.8	Spdt
1112	RA890G1260	④ RM7890A1015	R7849A1023	120	50/60	15	3	
1120	RA890G1260	④ RM7890A1015	R7849A1023	120	50/60	15	3	Spdt
1138	None	① ⑤ EC7890A1011	R7849A1023	208	50/60	15	3	Spdt
1146	RA890G1286	⑤ EC7890A1011	R7849A1023	240	50/60	15	3	Spdt
1153	RA890G1229	④ RM7890A1015	R7849A1015	120	50/60	15	0.8	
1161	RA890G1229	④ RM7890A1015	R7849A1015	120	50/60	15	0.8	Spdt
1179	RA890G1260	④ RM7890A1015	R7849A1023	120	50/60	15	3	
1187	RA890G1260	④ RM7890A1015	R7849A1023	120	50/60	15	3	Spdt
1195	None	⑤ EC7890A1011	R7849A1015	240	50/60	15	0.8	Spdt
1203	RA890G1302	⑤ EC7890A1011	R7849A1023	220	50/60	15	3	Spdt
1211	None	④ RM7890A1015	R7849A1015	120	50/60	15	0.8	
1229	RA890G1229	④ RM7890A1015	R7849A1015	120	50/60	15	0.8	Spdt
1237	None	⑤ EC7890A1011	R7849A1015	240	50/60	15	0.8	
1245	RA890G1245	⑤ EC7890A1011	R7849A1015	220	50/60	15	0.8	Spdt
1252	None	④ RM7890A1015	R7849A1023	120	50/60	15	3	
1260	RA890G1260	④ RM7890A1015	R7849A1023	120	50/60	15	3	Spdt
1278	None	① ⑤ EC7890A1011	R7849A1023	208	50/60	15	3	Spdt
1286	RA890G1286	⑤ EC7890A1011	R7849A1023	240	50/60	15	3	Spdt
1294	None	⑤ EC7890A1011	R7849A1015	240	50/60	15	0.8	Spdt
1302	RA890G1302	⑤ EC7890A1011	R7849A1023	220	50/60	15	3	Spdt

TABLE 4—RA890G CROSS REFERENCE (continued)								
Device to be Replaced RA890G	Replacement			Function of Device to be replaced				
	Current RA890G	7800 Series ② ③ ④ ⑤ ⑦	Amplifier	Voltage (Vac)	Frequency (Hz)	Safety Switch Timing (Secs)	FFRT (sec)	Alarm Contacts ⑥
1310	None	④ RM7890A1015	R7849A1015	120	50/60	15	0.8	Spdt
1328	RA890G1328	④ RM7890A1015	R7849A1015	120	50/60	15	0.8	Spdt
1336	RA890G1336	④ RM7890A1015	R7849A1023	120	50/60	15	3	Spdt
1344	RA890G1344	Consult Original Equipment Manu- facturer		120	50/60	15	3	Spdt
								Special for North American Manu- facturing

FOOTNOTES:

- ① EC7890 operating voltage is 187 Vac to 264 Vac 50/60 Hz
- ② Suggested Replacement Device has a 10 Second Safety Switch Time
- ③ Select Wiring Subbase
 - Q7800A1005 for Panel Mounting - Wiring conversion required
 - Q7800B1003 for Burner/Wall Mounting - Wiring conversion required
 - Q7800F1004 - Mounts to existing wiring subbase
- ④ Alternate Replacement RM7890B1014. RM7890B has a shutter output terminal.
- ⑤ Alternate Replacement EC7890B1010. EC7890B has a shutter output terminal. A 240 to 120 10va minimum transformer will be needed if detector system changed to shutter type detector.
- ⑥ 7800 Series has only a line voltage output alarm.
- ⑦ RM7890A1056 or RM7890B1048 can replace RM789A1015. A jumper between terminals 3 and 20 will need to be added.

TABLE 5—RA890H,J,K DYNAMIC SELF-CHECK CROSS REFERENCE

Device to be Replaced	Replacement		Function of Device to be replaced				Comments
	Current RA890	7800 Series ② ③	Amplifier ⑥	Voltage (Vac)	Frequency (Hz)	Safety Switch Timing (Secs)	FFRT (sec) Alarm Contacts ⑦
RA890H	For Intermittent Pilot Applications with Ampli-Check						
1003	None	④ RM7890A1015	R7847B1031	120	50/60	15	2.5 Spst Tamper Reistant Relay Cover
1011	None	① ⑤ EC7890A1011	R7847B1031	208	50/60	15	2.5 Spst Tamper Reistant Relay Cover
1029	None	⑤ EC7890A1011	R7847B1031	240	50/60	15	2.5 Spst Tamper Reistant Relay Cover
1037	None	None		100	50/60	15	2.5 Spst Tamper Reistant Relay Cover
1045	None	⑤ EC7890A1011	R7847B1031	220	50/60	15	2.5 Spst Tamper Reistant Relay Cover
1052	None	④ RM7890A1015	R7847B1031	120	50/60	15	2.5 Spst Tamper Reistant Relay Cover
RA890J	For Standing Pilot Applications with Ampli-Check						
1008	None	④ RM7890C1005	R7847B1031	120	50/60	15	2.5 Spst Tamper Reistant Relay Cover
1016	None	④ RM7890C1005	R7847B1031	120	50/60	15	2.5 Spst Tamper Reistant Relay Cover
1024	None	None		208	50/60	15	2.5 Spst Tamper Reistant Relay Cover
1032	None	None		240	50/60	15	2.5 Spst Tamper Reistant Relay Cover
RA890K	Same as RA890H but without Safe Start Check						
1006	None	None		120	50/60	15	2.5 Spst Tamper Reistant Relay Cover
1024	None	None		208	50/60	15	2.5 Spst Tamper Reistant Relay Cover
1032	None	None		240	50/60	15	2.5 Spst Tamper Reistant Relay Cover

FOOTNOTES:

- ① EC7890 operating voltage is 187 Vac to 264 Vac 50/60 Hz
- ② Suggested Replacement Device has a 10 Second Safety Switch Time
- ③ Select Wiring Subbase
 - Q7800A1005 for Panel Mounting - Wiring conversion required
 - Q7800B1003 for Burner/Wall Mounting - Wiring conversion required
 - Q7800F1004 - Mounts to existing wiring subbase
- ④ Alternate Replacement RM7890B1014. RM7890B has a shutter output terminal.
- ⑤ Alternate Replacement EC7890B1010. EC7890B has a shutter output terminal. A 240 to 120 10va minimum transformer will be needed if detector system changed to shutter type detector.
- ⑥ For Sensor Leadwire runs greater than 50feet select appropriate amplifier.
R7847B1072 for 3.0 Flame Failure Response
- ⑦ 7800 Series has only a line voltage output alarm.

TABLE 6—R485 PRIMARY RELAY CROSS REFERENCE									
Device to be Replaced	Replacement		Function of Device to be replaced				Comments		
	7800 Series	Amplifier	Wiring Sub-base	Voltage (Vac)	Frequency (Hz)	Solid State	FFRT (sec)	Flame Detector Type	
R485A1001	RM7885A1015	R7847A1033	② Q7800B1003	120	50/60	No	2-4	Flame Rod, Rectifying Photocell, C7012A, C	Mounted on Q270A Base
R485A1019	EC7885A1011	R7847A1033	② Q7800B1003	240	50/60	No	2-4	Flame Rod, Rectifying Photocell, C7012A, C	Mounted on Q270A Base
R485A1027	① EC7885A1011	R7847A1033	② Q7800B1003	208	50/60	No	2-4	Flame Rod, Rectifying Photocell, C7012A, C	Mounted on Q270A Base
R485A1035	RM7885A1015	R7847A1033	② Q7800B1003	120	50	No	2-4	Flame Rod, Rectifying Photocell, C7012A, C	International Model
R485A1043	RM7885A1015	R7847A1025	② Q7800B1003	120	50/60	No	0.8	Flame Rod, Rectifying Photocell ③	International Model
R485A1050	EC7885A1011	R7847A1025	② Q7800B1003	240	50	No	0.8	Flame Rod, Rectifying Photocell ③	International Model
R485A1068	RM7885A1015	R7847A1033	② Q7800B1003	120	60	No	2-4	Flame Rod, Rectifying Photocell, C7012A, C	Fungus Proof
R485A1076	EC7885A1011	R7847A1033	② Q7800B1003	240	50/60	No	2-4	Flame Rod, Rectifying Photocell, C7012A, C	Fungus Proof
R485B1000	RM7885A1015	R7847A1033	② Q7800B1003	120	50/60	Yes	3.0	Flame Rod, Rectifying Photocell, C7012A, C	Mounted on Q270A Base
R485B1018	EC7885A1011	R7847A1033	② Q7800B1003	240	50/60	Yes	3.0	Flame Rod, Rectifying Photocell, C7012A, C	Mounted on Q270A Base
R485B1026	① EC7885A1011	R7847A1033	② Q7800B1003	208	50/60	Yes	3.0	Flame Rod, Rectifying Photocell, C7012A, C	Mounted on Q270A Base
R485B1034	EC7885A1011	R7847A1025	② Q7800B1003	240	50/60	Yes	0.8	Flame Rod, Rectifying Photocell ③	Mounted on Q270A Base
R485B1042	RM7885A1015	R7847A1025	② Q7800B1003	120	50/60	Yes	0.8	Flame Rod, Rectifying Photocell ③	Mounted on Q270A Base
R485X1005	EC7885A1011	R7847A1033	② Q7800B1003	240	50	No	2-4	Flame Rod, Rectifying Photocell, C7012A, C	International Model
R485X1013	① EC7885A1011	R7847A1033	② Q7800B1003	208	50	No	2-4	Flame Rod, Rectifying Photocell, C7012A, C	International Model
R485X1021	EC7885A1011	R7847A1033	② Q7800B1003	220	50	No	2-4	Flame Rod, Rectifying Photocell, C7012A, C	International Model
R485X1039	RM7885A1015	R7847A1033	② Q7800B1003	120	50	No	2-4	Flame Rod, Rectifying Photocell, C7012A, C	International Model
R485X1047	EC7885A1011	R7847A1025	② Q7800B1003	220	50	No	0.8	Flame Rod, Rectifying Photocell ③	International Model
R485X1054	EC7885A1011	R7847A1033	② Q7800B1003	220	50/60	Yes	3.0	Flame Rod, Rectifying Photocell, C7012A, C	Mounted on Q270A Base
R485X1062	EC7885A1011	R7847A1025	② Q7800B1003	220	50/60	Yes	0.8	Flame Rod, Rectifying Photocell ③	Mounted on Q270A Base

FOOTNOTES:

- ① Replacement EC7885 operating voltage is 187 Vac to 264 Vac, 50/60Hz
 ② Use Q7800A1005 for Panel Mount Applications
 ③ If Rectifying Photocell needs replacement - see C7962 with appropriate R7851B amplifier

TABLE 7—R4075 CROSS REFERENCE

TABLE 7—R4075 CROSS REFERENCE												
Device to be Replaced	Replacement			Function of Device to be replaced							Comments	
	120 Vac	208/220/240	Amplifier	Wiring Sub-	Voltage	Frequen-	Solid	FFRT	Terminal	Continuous		Flame Detector
R4075A1009	RM7885A1015	① EC7885A1011	R7847A1033	② Q7800B1003	120/208/240	50/60	No	2-4	Yes	No	Flame Rod, Rectifying Photocell, ③ C7012A, C	With Q442A flush mount cabinet, with Q294 surface mount cabinet with Q295 Mounting Plate
R4075A1017	RM7885A1015	① EC7885A1011	R7847A1033	② Q7800B1003	120/208/240	50/60	No	2-4	Yes	No	Flame Rod, Rectifying Photocell, ③ C7012A, C	With Q442A flush mount cabinet, with Q294 surface mount cabinet with Q295 Mounting Plate
R4075A1025	RM7885A1015	① EC7885A1011	R7847A1025	② Q7800B1003	120/208/240	50/60	No	2-4	Yes	No	Flame Rod, Rectifying Photocell, ③ C7012A, C	With Q442A flush mount cabinet, with Q294 surface mount cabinet with Q295 Mounting Plate
R4075A1033	RM7885A1015	① EC7885A1011	R7847A1025	② Q7800B1003	120/208/240	50/60	No	2-4	Yes	No	Flame Rod, Rectifying Photocell, ③ C7012A, C	With Q442A flush mount cabinet, with Q294 surface mount cabinet with Q295 Mounting Plate
R4075A1041	RM7885A1015	① EC7885A1011	R7847A1033	② Q7800B1003	120/208/240	50	No	2-4	Yes	No	Flame Rod, Rectifying Photocell, ③ C7012A, C	With QrrreA flush mount cabinet
R4075A1058	RM7885A1015	① EC7885A1011	R7847A1033	② Q7800B1003	120/208/240	50	No	2-4	Yes	No	Flame Rod, Rectifying Photocell, ③ C7012A, C	With QrrreA flush mount cabinet
R4075B1007	RM7885A1015	① EC7885A1011	R7847A1033	② Q7800B1003	120/208/240	50/60	No	2-4	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012A, C	
R4075B1015	RM7885A1015	① EC7885A1011	R7847A1033	② Q7800B1003	120/208/240	50/60	No	2-4	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012A, C	
R4075B1023	RM7885A1015	① EC7885A1011	R7847A1033	② Q7800B1003	110/220	50	No	2-4	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012A, C	
R4075B1031	RM7885A1015	① EC7885A1011	R7847A1025	② Q7800B1003	120/208/240	50/60	No	2-4	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012A, C	
R4075B1049	RM7885A1015	① EC7885A1011	R7847A1025	② Q7800B1003	110/220	50	No	2-4	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012A, C	

TABLE 7—R4075 CROSS REFERENCE (continued)

TABLE 7—R4075 CROSS REFERENCE (continued)												
Device to be Replaced	Replacement			Function of Device to be replaced						Comments		
	120 Vac	208/220/240	Amplifier	Wiring Sub-	Voltage	Frequen-	Solid	FFRT	Terminal		Continuous	Flame Detector
R4075B1056	RM7885A1015		R7847A1033	② Q7800B1003	120	50/60	No	2-4	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012A, C	
R4075C1005	RM7885A1015		Select Proper Amplifier	② Q7800B1003	120	50/60	Yes	See Amp	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012	
R4075C1013		① EC7885A1011	Select Proper Amplifier	② Q7800B1003	208	50/60	Yes	See Amp	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012	
R4075C1021		① EC7885A1011	Select Proper Amplifier	② Q7800B1003	220	50	Yes	See Amp	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012	
R4075C1039		① EC7885A1011	Select Proper Amplifier	② Q7800B1003	240	50/60	Yes	See Amp	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012	
R4075D1003	RM7885A1015		Select Proper Amplifier	② Q7800B1003	120	50/60	Yes	See Amp	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012	
R4075E1000	RM7885A1015		Select Proper Amplifier	② Q7800B1003	120	50/60	Yes	See Amp	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012	Dual System device, will required 2 RM7885 systems.
R4075E1018		① EC7885A1011	Select Proper Amplifier	② Q7800B1003	220	50	Yes	See Amp	No	Yes	Flame Rod, Rectifying Photocell, ③ C7012	Dual System device, will required 2 EC7885 systems.

FOOTNOTES:

- ① Replacement EC7885 operating voltage is 198 Vac to 264 Vac, 50/60Hz
- ② Use Q7800A1005 for Panel Mount Applications
- ③ If Rectifying Photocell needs replacement - see C7962 with appropriate amplifier

TABLE 8—HONEYWELL R4138 CROSS REFERENCE

TABLE 8—HONEYWELL R4138 CROSS REFERENCE											
Device to be Replaced	Replacement			Function of Device to be replaced						Comments	
	Current	7800 Series		Voltage (Vac)	Frequency (Hz)	Safety Switch Timing (Secs)	Purge Timing	Amplifier	1 second Power Failure Override		
		Functional 7800 Series ① ③ ④ ⑦	Purge Timer ⑤								Amplifier ⑥
R4138A1004	None	② RM7838A1014	Selectable	Selectable	120/208/240	50/60	15	Selectable	Flame Rod or C7012E, F		
R4138A10012	None	② RM7838A1014	Selectable	Selectable	120/208/240	50/60	15	Selectable	Flame Rod or C7012E, F		
R4138A1020	None	RM7838A1014	Selectable	Selectable	120	50/60	15	Selectable	Flame Rod or C7012E, F		
R4138A1038	None	RM7838A1014	Selectable	Selectable	120	50/60	15	Selectable	Flame Rod or C7012E, F		
R4138B1002	None	② RM7838A1014	Selectable	Selectable	120/208/240	50/60	15	Selectable	Flame Rod or C7012E, F	Yes	
R4138B1010	None	② RM7838A1014	Selectable	Selectable	120/208/240	50/60	30	Selectable	Flame Rod or C7012E, F	Yes	
R4138B1028	None	RM7838A1014	Selectable	Selectable	120	50/60	15	Selectable	Flame Rod or C7012E, F	Yes	
R4138C1000	None	None	Selectable	Selectable	100	50/60	15	Selectable	Selectable		Neon Lights; Never Produced
R4138C1018	None	RM7838A1014	Selectable	Selectable			15	Selectable	Selectable		Incandescent Lights
R4138C1026	None		Selectable	Selectable	240	50/60	15	Selectable	Selectable		Incandescent Lights
R4138C1034	None		Selectable	Selectable	220	50	15	Selectable	Selectable		Incandescent Lights
R4138D1008	None	RM7838A1014	Selectable	Selectable	120	50/60	15	Selectable	Selectable	Yes	Neon Lights; Never Produced
R4138D1016	None	RM7838A1014	Selectable	Selectable	120	50/60	15	Selectable	Selectable	Yes	Incandescent Lights
R4138X1001	None	② RM7838A1014	Selectable	Selectable	120/200/230	50	15	Selectable	Flame Rod or C7012E, F		

Footnotes for TABLE 8—HONEYWELL R4138 CROSS REFERENCE

- ① Suggested Replacement is a Semi-Automatic functioning device. If R4138 was operated autom atically select a similar functioning RM like a RM7895 for example.
- ② Replacement Device for 120 Vac 50/60 Hz Applications Only - Recontrol if voltage option NOT 120 Vac
- ③ Suggested Replacement Device has a 10 Second Safety Switch Time
- ④ Select Wiring Subbase
Q7800A1005 for Panel Mounting - Wiring conversion required
Q7800B1003 for Burner/Wall Mounting - Wiring conversion required
- ⑤ Purge Timer Options - Check timing of installed S427 and select appropriate Puge Timer. NOTE: A purge timer MUST be installed in replacement Relay Module

Timing	ST7800	Timing	ST7800
2 seconds	A1005	2.5 Minute	A1070
7 seconds	A1013	4 Minute	A1088
10 seconds	A1021	6 Minute	A1096
30 seconds	A1039	9 Minute	A1104
40 seconds	A1047	12 Minute	A1112
60 seconds	A1054	15 Minute	A1120
90 seconds	A1062	22 Minute	A1138
		30 Minute	A1146

⑥ Amplifier Options

Rectification	Standard	>50 feet lead-wire run	Ampli-check	>50 feet lead-wire run
0.8 sec. FFRT	R7847A1025	R7847A1075	R7847B1023	R7847B1064
3 sec. FFRT	R7847A1033	R7847A1082	R7847B1031	R7847B1072
UV				
0.8 sec. FFRT	R7849A1015		R7849B1013	
3 sec. FFRT	R7849A1023		R7849B1021	
Dynamic Self-Check for Detector				
C7012E, F	R7847C1005			
C7061A, F	R7861A1026	3 sec. FFRT		
	R7861A1034	0.8 sec. FFRT		
C7076A, D	R7886A1001			

- ⑦ Replacement RM7838 DOES NOT have provisions for 1 second Power Failure Override

TABLE 9—HONEYWELL R4795 CROSS REFERENCE

TABLE 9—HONEYWELL R4795 CROSS REFERENCE													
Device to be Replaced	Replacement			Function of Device to be replaced								Comments	
	Current ⑤ ⑥	R7795 Option ④ ⑧	Purge Timer ⑤	7800 Series			Voltage (Vac)	Fre- quency (Hz)	Safety Switch Timing (Secs)	Purge Tim- ing	Amplifier		Alarm Con- tacts
R4795A1008	R4795A1016	R7795A1001 or R7795B1009	Selectable	RM7895A1014	Selectable	Selectable	④	120	50/60	15	Selectable	Selectable	
R4795A1016	R4795A1016	R7795A1001 or R7795B1009	Selectable	RM7895A1014	Selectable	Selectable	Selectable	120	50/60	15	Selectable	Selectable	Spdt
R4795A1024	R4795A1016	R7795B1009	ST795A1031	RM7895A1014	ST7800A1039	R7847A1033	R7847A1033	120	50/60	15	ST71A1018	R7289A1004	
R4795A1032	R4795A1016	R7795B1009	ST795A1031	RM7895A1014	ST7800A1039	R7847A1033	R7847A1033	120	50/60	15	ST71A1018	R7289A1004	Spdt
R4795A1040	None	None		EC7895A1010	Selectable	Selectable	Selectable	220	50/60	15	Selectable	Selectable	Spdt
R4795A1057	None	None		EC7895A1010	Selectable	Selectable	Selectable	240	50/60	15	Selectable	Selectable	Spdt
R4795A1065	R4795A1016	R7795B1009	ST795A1049	RM7895A1014	ST7800A1054	R7847A1033	R7847A1033	120	50/60	15	ST71A1026	R7289A1004	
R4795A1073	R4795A1016	R7795B1009	ST795A1049	RM7895A1014	ST7800A1054	R7847A1033	R7847A1033	120	50/60	15	Selectable	R7289A1004	Spdt
R4795A1081	R4795A1016	R7795A1001 or R7795B1009	Selectable	RM7895A1014	Selectable	Selectable	Selectable	120	60	15	Selectable	Selectable	Spdt
													-40F (-40C) rated use with R7289A1020 (Rectification or R7290A1027 (UV) Amplifiers
R4795A1099	None	None		None				100	50/60	15	Selectable	Selectable	Spdt
R4795A1107	None	None		① EC7895A1010	Selectable	Selectable	Selectable	200	50/60	15	Selectable	Selectable	Spdt
R4795C1004				RM7895A1014	Selectable	Selectable	Selectable	120	50/60	15	ST71A1018	Selectable	Continuous Pilot Applications. Use Q267A subbase
R4795D1002	None	R7795A1001 or R7795B1009	Selectable	RM7895A1014	Selectable	Selectable	Selectable	120	50/60	15	Selectable	Selectable	Spdt
R4795D1010	None	R7795A1001 or R7795B1009	Selectable	RM7895A1014	Selectable	Selectable	Selectable	120	50/60	15	Selectable	Selectable	
R4795D1028	None	None		EC7895A1010	Selectable	Selectable	Selectable	220	50/60	15	Selectable	Selectable	Spdt
R4795D1036	None	None		EC7895A1010	Selectable	Selectable	Selectable	240	50/60	15	Selectable	Selectable	Spdt
R4795D1044	None	None		None				100	50/60	15	Selectable	Selectable	Spdt
R4795D1051	None	R7795A1001 or R7795B1009	Selectable	RM7895A1014	Selectable	Selectable	Selectable	120	60	15	Selectable	Selectable	Spdt
													-40F (-40C) rated use with R7289A1020 (Rectification or R7290A1027 (UV) Amplifiers
R4795D1069	None	None		① EC7895A1010	Selectable	Selectable	Selectable	200	50/60	15	Selectable	Selectable	Spdt

Footnotes for TABLE 9—HONEYWELL R4795 CROSS REFERENCE

- ① EC7895 operating voltage is 187 Vac to 264 Vac 50/60 Hz
- ② Suggested Replacement Device has a 10 Second Safety Switch Time
- ③ Select Wiring Subbase
 - Q7800A1005 for Panel Mounting - Wiring conversion required
 - Q7800B1003 for Burner/Wall Mounting - Wiring conversion required
 - Q7800F1012 - Mounts to existing wiring subbase
- ④ Select Wiring Subbase
 - Q795A1004 for Burner/Wall Mounting
 - Q795A1012 for Panel Mounting (no sides)
- ⑤ Purge Timer Options

	R4795 w/ ST71	R7795 w/ ST795	7800 Series w/ ST7800
7	A1000	A1015	A1013
10	A1042	A1023	A1021
30	A1018	A1031	A1039
60	A1026	A1049	A1054
90	A1034	A1056	A1062

- ⑥ Amplifier Options

	R4795 w/	R7795 w/	7800 Series w/
Rectification			
0.8	R7289A1012		⑦ R7847A1025
3	R7289A1004	R7795B1009	⑦ R7847A1033
3 rated for -40	R7289A1020	R7795B1009	⑦ R7847A1033
UV			
0.8	R7290A1019		R7849A1015
3	R7290A1001	R7795A1001	R7849A1023
3 rated for -40	R7290A1027	R7795A1001	R7849A1023

- ⑦ For Sensor Leadwire runs greater than 50feet select appropriate amplifier.
R7847A1075 for 0.8 Flame Failure Response
R7847A1082 for 3.0 Flame Failure Response
- ⑧ Replacement Devices have only a line voltage output alarm.
- ⑨ RM7897A1002 can be used in place of RM7895A1014. A jumper between terminals 5 and 20 will need to be added.

TABLE 10—HONEYWELL R7023 CROSS REFERENCE

TABLE 10—HONEYWELL R7023 CROSS REFERENCE										
Device to be Replaced	Replacement		Function of Device to be replaced						Comments	
	7800 Series	Amplifier	Wiring Subbase	Voltage	Frequency	Relay	Solid	FFRT		Flame Detector Type
R7023A1005	RM7823A1016	R7847A1033	② Q7800B1003	120	50/60	(2)spdt	no	2-4	Flame rod, rectifying photocell, C7012A, C	International Model
R7023A1013	① EC7823A1004	R7847A1033	② Q7800B1003	208	50/60	(2)spdt	no	2-4	Flame rod, rectifying photocell, C7012A, C	
R7023A1021	EC7823A1004	R7847A1033	② Q7800B1003	220	50	(2)spdt	no	2-4	Flame rod, rectifying photocell, C7012A, C	
R7023A1039	EC7823A1004	R7847A1033	② Q7800B1003	240	50/60	(2)spdt	no	2-4	Flame rod, rectifying photocell, C7012A, C	
R7023A1047	RM7823A1016	R7847A1025	② Q7800B1003	120	50/60	(2)spdt	no	0.8	Flame rod, rectifying photocell	
R7023A1054	① EC7823A1004	R7847A1025	② Q7800B1003	208	50/60	(2)spdt	no	0.8	Flame rod, rectifying photocell	
R7023A1062	EC7823A1004	R7847A1025	② Q7800B1003	220	50	(2)spdt	no	0.8	Flame rod, rectifying photocell	
R7023A1070	EC7823A1004	R7847A1025	② Q7800B1003	240	50/60	(2)spdt	no	0.8	Flame rod, rectifying photocell	International Model
R7023B1003	RM7823A1016	R7847A1033	② Q7800B1003	120	50/60	(2)spdt	yes	3	Flame rod, rectifying photocell, C7012A, C	
R7023B1011	EC7823A1004	R7847A1033	② Q7800B1003	240	50/60	(2)spdt	yes	3	Flame rod, rectifying photocell, C7012A, C	
R7023B1029	① EC7823A1004	R7847A1033	② Q7800B1003	208	50/60	(2)spdt	yes	3	Flame rod, rectifying photocell, C7012A, C	
R7023B1037	EC7823A1004	R7847A1025	② Q7800B1003	240	50/60	(2)spdt	yes	0.8	Flame rod, rectifying photocell	
R7023B1045	RM7823A1016	R7847A1025	② Q7800B1003	120	50/60	(2)spdt	yes	0.8	Flame rod, rectifying photocell	
R7023B1052	EC7823A1004	R7847A1033	② Q7800B1003	220	50/60	(2)spdt	yes	3	Flame rod, rectifying photocell, C7012A, C	International Model
R7023B1060	EC7823A1004	R7847A1025	② Q7800B1003	220	50/60	(2)spdt	yes	0.8	Flame rod, rectifying photocell	International Model
R7023C1001	RM7823A1016	R7849A1023	② Q7800B1003	120	50/60	(1)spdt	yes	3	UV - C7027, C7035, C7044	
R7023C1019	RM7823A1016	R7849A1015	② Q7800B1003	120	50/60	(1)spdt	yes	0.8	UV - C7027, C7035, C7044	
R7023C1027	EC7823A1004	R7849A1015	② Q7800B1003	220	50/60	(1)spdt	yes	0.8	UV - C7027, C7035, C7044	International Model
R7023C1035	EC7823A1004	R7849A1023	② Q7800B1003	220	50/60	(1)spdt	yes	3	UV - C7027, C7035, C7044	International Model
R7023C1043	EC7823A1004	R7849A1023	② Q7800B1003	240	50/60	(1)spdt	yes	3	UV - C7027, C7035, C7044	
R7023C1050	EC7823A1004	R7849A1015	② Q7800B1003	240	50/60	(1)spdt	yes	0.8	UV - C7027, C7035, C7044	
R7023C1068	RM7823A1016	R7849A1023	② Q7800B1003	120	60	(1)spdt	yes	3	UV - C7027, C7035, C7044	-40F (-40C) Rated

TABLE 10—HONEYWELL R7023 CROSS REFERENCE (continued)

Device to be Replaced	Replacement		Function of Device to be replaced					Comments	
	7800 Series	Amplifier	Wiring Subbase	Voltage	Frequency	Relay	Solid	FFRT	Flame Detector Type
R7023X1002	None			120	25	(2)spdt	no	2-4	Flame rod, rectifying photocell
R7023X1010	None			240	25	(2)spdt	no	2-4	Flame rod, rectifying photocell, C7012A, C
R7023X1028	EC7823A1004	R7847A1033	② Q7800B1003	220	50	(2)spdt	no	2-4	Flame rod, rectifying photocell, C7012A, C
R7023X1036	EC7823A1004	R7847A1025	② Q7800B1003	220	50	(2)spdt	no	0.8	Flame rod, rectifying photocell
R7023X1044	EC7823A1004	R7847A1033	② Q7800B1003	220	50/60	(2)spdt	yes	3	Flame rod, rectifying photocell, C7012A, C
R7023X1051	EC7823A1004	R7847A1025	② Q7800B1003	220	50/60	(2)spdt	yes	0.8	Flame rod, rectifying photocell
R7023X1069	EC7823A1004	R7847A1025	② Q7800B1003	220	50/60	(2)spdt	no	0.8	Flame rod, rectifying photocell
R7023X1077		R7847A1025	② Q7800B1003	100	50/60	(2)spdt	yes	0.8	Flame rod, rectifying photocell
R7023X1085	EC7823A1004	R7847A1025	② Q7800B1003	220	50/60	(2)spdt	yes	0.8	Flame rod, rectifying photocell
R7023X1093	EC7823A1004	R7849A1015	② Q7800B1003	220	50/60	(1)spdt	yes	0.8	UV - C7027, C7035, C7044

FOOTNOTES:

- ① EC7823 operating voltage is 187 Vac to 264 Vac 50/60 Hz
- ② Use Q7800A1005 for Panel Mount applications.
- ③ Replace rectifying Photocell with C7962B detector and appropriate R7851B Amplifier
- ④ Shutter type detectors can be used with the EC/RM7823 Flame Switches - Select appropriate amplifier.

TABLE 11—HONEYWELL R7795 CROSS-REFERENCE

TABLE 11—HONEYWELL R7795 CROSS-REFERENCE																	
Device to be Replaced	Current Replacement ③	7800 Series Replacement ① ② ④ ⑧ ⑨	FUNCTIONS OF DEVICE TO BE REPLACED										Comments				
			Prepurge Timing	Flame Detector Type ②	FFRT	Air-Flow SW Check	Run/Test Switch	Safety Switch Timing (Sec) ⑦	PFEP	INTM Pilot	INTR Pilot	MFEP		De-layed MV	Voltage (Vac)	Frequency (Hz)	
R7795A1001	R7795A1001	RM7895A1014	selectable	UV	3				10	4, 10	X			120	50/60		
R7795A1019	Not Produced													120	50/60		
R7795A1027	Consult Original Equipment Manufacturer			UV	3				10	4, 10	X			120	50/60	Proprietary to Fulton Boiler	
R7795B1009	R7795B1009	RM7895A1014	selectable	Rect	3				10	4, 10	X			120	50/60		
R7795B1017	⑤ R7795B1009	⑥ RM7895A1014	selectable	Rect	3				10	4, 10	X			120	50/60	With Remote Reset Cover	
R7795B1025	Consult Original Equipment Manufacturer			Rect	3				10	4, 10	X			120	50/60	Proprietary to Fulton Boiler	
R7795C1007	R7795C1007	RM7895C1012	selectable	UV	3			X	10	4, 10		X	10	X	120	50/60	
R7795C1015	Consult Original Equipment Manufacturer			UV	3			X	10	4, 10		X	10	X	120	50/60	Proprietary to Cleaver Brooks.
R7795D1005	R7795D1005	RM7895C1012	selectable	Rect	3			X	10	4, 10		X	10	X	120	50/60	
R7795E1002	None	RM7895B1013	selectable	UV	3	X			10	4, 10				120	50/60		
R7795F1000	None	RM7895B1013	selectable	Rect	3	X			10	4, 10				120	50/60		
R7795G1008	None	RM7895D1011	selectable	UV	3	X	X	X	10	4, 10		X	10	X	120	50/60	
R7795H1006	None	RM7895D1011	selectable	Rect	3	X	X	X	10	4, 10		X	10	X	120	50/60	

FOOTNOTES:

- ① Choose Wiring Subbase Q7800A1005 for Panel Mounting or Q7800B1003 for Burner or Wall Mounting
- ② Choose Flame Amplifier, R7847A1033 for Rectification or R7849A1023 for UV
- ③ Select proper ST795 for R7795 Replacement
- ④ Select proper ST7800 for 7800 Series Replacement
- ⑤ Order Reset Cover (part number 198365B) separately.
- ⑥ Order S7820A1007 Reset Module separately.
- ⑦ Mechanical Lockout in 15 seconds
- ⑧ RM7897A1002 can be used in place of RM7895A1014. A jumper between terminals 5 and 20 will need to be added.
- ⑨ RM7897C1000 can be used in place of RM7895C1012. A jumper between terminals 5 and 20 will need to be added.

TABLE 12—7800 SERIES CROSS REFERENCE

Device to be Replaced	Current Replacement	Alternate Replacement	Flame Amplifier ①	Prepurge			Voltage (Vac)	Frequency (Hz)	Preignition	Run/ Test Switch	PFEP Pilot	INTM Pilot	INTR Pilot	MFEP	Delayed MV	Shutter Drive Output	Postpurge	Comments
				Prepurge Timing	Air-flow	Air-Flow Switch Check												
CR7890B1019	CR7890B1019						120	50/60			10	X						Integrated shutter SSUV detector with RM7890B1014 Function using a Brad Harrison type 3R9006A20A120 9 pin connector.
EC7823A1004	EC7823A1004		Selectable				230	50/60								X		Flame switch with shutter drive
EC7885A1003	EC7885A1011		Selectable				200	50/60			4, 10	X				X		Semi-Automatic combustion control - Special for Yamatake
EC7885A1011	EC7885A1011		Selectable				230	50/60			4, 10	X				X		Semi-Automatic combustion control
EC7885A1029	EC7885A1011		Selectable				230	50/60			4, 10	X				X		Semi-Automatic combustion control
EC7890A1003	None		Selectable				200	50/60			4, 10	X						Intermittent pilot only - Special for Yamatake
EC7890A1011	EC7890A1011	EC7890B1010	Selectable				230	50/60			4, 10	X						Intermittent pilot only
EC7890B1002	None		Selectable				200	50/60			4, 10	X				X		Intermittent pilot only - Special for Yamatake
EC7890B1010	EC7890B1010		Selectable				230	50/60			4, 10	X				X		Intermittent pilot only, with shutter drive
EC7890B1028	EC7890B1010		Selectable				230	50/60			4, 10	X				X		Intermittent pilot only, with shutter drive
EC7895A1002	None		Selectable	② Selectable	Proven		200	50/60			4, 10	X				X		With shutter drive - Special for Yamatake
EC7895A1010	EC7895A1010		Selectable	② Selectable	Proven		230	50/60			4, 10	X				X		With shutter drive.
EC7895A1028	EC7895A1010		Selectable	② Selectable	Proven		230	50/60			4, 10	X				X		With shutter drive.
EC7895C1000	EC7895C1000		Selectable	② Selectable	Proven		230	50/60			4, 10		X			X		With shutter drive
EC7895C1018	Not Produced																	
EC7895C1026	EC7895C1000		Selectable	② Selectable	Proven		230	50/60			4, 10		X			X		With shutter drive
RM7823A1008	RM7823A1016		Selectable				120	50								X		Flame switch
RM7823A1016	RM7823A1016		Selectable				120	50/60								X		Flame switch
RM7838A1006	RM7838A1014		Selectable	② Selectable			120	50			4, 10	X				X		Semi-automatic control, comes with S7800 Display
RM7838A1014	RM7838A1014		Selectable	② Selectable			120	50/60			4, 10	X				X		Semi-automatic control, comes with S7800 Display
RM7838B1005	RM7838B1013	RM7838B1021	Selectable	② Selectable	Proven		120	50/60	X	X	4, 10	X	X	10		X		Semi-Automatic Programmer control with S7800 Display Module, 4 wire modulation, LF/HF proving
RM7838B1013	RM7838B1013	RM7838B1021	Selectable	② Selectable	Proven		120	50/60	X	X	4, 10	X	X	10		X		Semi-Automatic Programmer control with S7800 Display Module, 4 wire modulation, LF/HF proving
RM7838B1021	RM7838B1021	RM7838B1021	Selectable	② Selectable	Proven		120	50/60	X	X	4, 10	X	X	10		X		Semi-Automatic Programmer control with Valve Proving Feature and Programmable Post Purge, comes with S7800A1142 Display Module, 4 wire modulation, LF/HF proving. With Blinkum Fault Messaging.

TABLE 12—7800 SERIES CROSS REFERENCE (continued)

Device to be Replaced	Current Replacement	Alternate Replacement	Flame Amplifier ①	Prepurge			Voltage (Vac)	Frequency (Hz)	Preignition	Run/ Test Switch	PFEP	INTM Pilot	INTR Pilot	MFEP	Delayed MV	Shutter Drive Output	Postpurge	Comments
				Purge Timing	Air-flow	Air-Flow Switch Check												
RM7838C1004	RM7838C1004	RM7838C1012	Selectable	③ Selectable	Proven		120	50/60	X	X	4, 10	X	X	15		X		Semi-Automatic Programmer control with S7800 Display Module, 4 wire modulation, LF/HF proving, Alarm Sounds only on safety shutdown. Requires S77800C Purge Timer.
RM7838C1012	RM7838C1012	RM7838C1012	Selectable	③ Selectable	Proven		120	50/60	X	X	4, 10	X	X	15		X		Semi-Automatic Programmer control with Valve Proving Feature and Programmable Post Purge, comes with S7800A1142 Display Module, 4 wire modulation, LF/HF proving, Alarm Sounds only on safety shutdown. Requires S77800C Purge Timer. With Blinkum Fault Messaging
RM7885A1007	RM7885A1015		Selectable				120	50			4, 10	X				X		Semi-Automatic combustion control
RM7885A1015	RM7885A1015		Selectable				120	50/60			4, 10	X				X		Semi-Automatic combustion control
RM7885A1023	None		Selectable				100	50/60			4, 10	X				X		Semi-Automatic combustion control - Special for Yamatake
RM7888A1001	RM7888A1019		Selectable				120	50			4					X		PLC Sequencing per North American Manufacturing specifications
RM7888A1019	RM7888A1019		Selectable				120	50/60			4					X		PLC Sequencing per North American Manufacturing specifications
RM7888A1027	RM7888A1027		Selectable				120	50/60			10					X		PLC Sequencing per North American Manufacturing specifications
RM7890A1007	RM7890A1015	RM7890A1056	Selectable				120	50			4, 10	X						Intermittent pilot only
RM7890A1015	RM7890A1015	RM7890A1056	Selectable				120	50/60			4, 10	X						Intermittent pilot only
RM7890A1031	RM7890A1031		Selectable				120	50/60			Fixed 30	X						Intermittent pilot only
RM7890A1049	RM7890A1049		Selectable				100	50/60			4, 10	X						Intermittent pilot only - Special for Yamatake
RM7890A1056	RM7890A1056	RM7890B1048	Selectable				120	50/60	X	X	4, 10	X	X	X				With Valve Proving Feature and Pre Ignition Interlock Input. With Blinkum Fault Messaging
RM7890B1006	RM7890B1014	RM7890B1048	Selectable				120	50			4, 10	X				X		RM7890A1007 with shutter drive
RM7890B1014	RM7890B1014	RM7890B1048	Selectable				120	50/60			4, 10	X				X		RM7890A1015 with shutter drive
RM7890B1022	RM7890B1022		Selectable				100	50/60			4, 10	X				X		RM7890A1015 with shutter drive - Special for Yamatake
RM7890B1030	RM7890B1030		Selectable				120	50/60			fixed 10	X				X		with shutter drive - Alarm outputs moment reset pushed per North American Manufacturing specifications
RM7890B1048	RM7890B1048		Selectable				120	50/60	X	X	4, 10	X	X	X		X		With Valve Proving Feature and Pre Ignition Interlock Input. With Blinkum Fault Messaging
RM7890C1005	RM7890C1005		Selectable				120	50/60				X						for Standing Pilot Applications
RM7890D1004	RM7890D1004		Selectable				120	50/60			15/30	X	X					for Infrared Heater Applications

TABLE 12—7800 SERIES CROSS REFERENCE (continued)

Device to be Replaced	Current Replacement	Alternate Replacement	Flame Amplifier ①	Prepurge			Voltage (Vac)	Frequency (Hz)	Preignition	Run/ Test Switch	PFEP	INTM Pilot	INTR Pilot	MFEP	Delayed MV	Shutter Drive Output	Postpurge	Comments
				Prepurge Timing	Air-flow	Air-Flow Switch Check												
RM7895A1006	RM7895A1014	RM7897A1002	Selectable	② Selectable	Proven		120	50			4, 10	X				X		
RM7895A1014	RM7895A1014	RM7897A1002	Selectable	② Selectable	Proven		120	50/60			4, 10	X				X		
RM7895A1022	Not Produced																	
RM7895A1030	RM7895A1030		Selectable	② Selectable	Proven		120	50/60			Limited	X				X		Required Q7800A1013 sub-base. Special for Fulton.
RM7895A1048	RM7895A1048		Selectable	② Selectable	Proven		120	50/60			4, 10	X				X		Spark shuts off during PFEP if flame sensed
RM7895A1055	RM7895A1055		Selectable	② Selectable	Proven		100	50/60			4, 10	X				X		Special for Yamatake
RM7895A1063	RM7895A1063		Selectable	② Selectable	Proven		120	50/60			90	X				X		
RM7895B1005	RM7895B1013		Selectable	② Selectable	Proven	X	120	50			4, 10	X				X		
RM7895B1013	RM7895B1013		Selectable	② Selectable	Proven	X	120	50/60			4, 10	X				X		
RM7895C1004	RM7895C1012	RM7897C1000	Selectable	② Selectable	Proven		120	50		X	4, 10		X	10	X	X		
RM7895C1012	RM7895C1012	RM7897C1000	Selectable	② Selectable	Proven		120	50/60		X	4, 10		X	10	X	X		
RM7895C1020	RM7895C1020		Selectable	② Selectable	Proven		120	50/60		X	10		X	10	X	X		Special Early Spark Termination
RM7895D1003	RM7895D1011		Selectable	② Selectable	Proven	X	120	50		X	4, 10		X	10	X	X		
RM7895D1011	RM7895D1011		Selectable	② Selectable	Proven	X	120	50/60		X	4, 10		X	10	X	X		
RM7895E1002	RM7895E1002		Selectable	② Selectable	Proven		120	50/60					X	15/30				for Infrared Heater Applications
RM7895E1010	RM7895E1010		Selectable	② Selectable	Proven		120	50/60					X	15/30				AERCO Special
RM7895F1001	RM7895F1001		Selectable	② Selectable	Proven		120	50/60					X	15/30				for Infrared Heater Applications
RM7896A1004	RM7896A1012	RM7897A1002	Selectable	② Selectable	Proven		120	50			4, 10	X		10		X	15	
RM7896A1012	RM7896A1012	RM7897A1002	Selectable	② Selectable	Proven		120	50/60			4, 10	X		10		X	15	
RM7896B1003	RM7896B1011		Selectable	② Selectable	Proven	X	120	50			4, 10	X		10		X	15	
RM7896B1011	RM7896B1011		Selectable	② Selectable	Proven	X	120	50/60			4, 10	X		10		X	15	
RM7896C1002	RM7896C1010	RM7897C1000	Selectable	② Selectable	Proven		120	50		X	4, 10		X	10	X	X	15	
RM7896C1010	RM7896C1010	RM7897C1000	Selectable	② Selectable	Proven		120	50/60		X	4, 10		X	10	X	X	15	
RM7896C1028	Not Produced																	
RM7896C1036	RM7896C1036		Selectable	② Selectable	Proven		120	50/60		X	10		X	10	X	X	15	Special Early Spark Termination
RM7896D1001	RM7896D1019		Selectable	② Selectable	Proven	X	120	50		X	4, 10		X	10	X	X	15	
RM7896D1019	RM7896D1019		Selectable	② Selectable	Proven	X	120	50/60		X	4, 10		X	10	X	X	15	
RM7896D1027	RM7896D1027		Selectable	② Selectable	Proven	X	120	50/60		X	4, 10		X	10	X	X	60	With Blinkum Fault Messaging, Special for Burnham

TABLE 12—7800 SERIES CROSS REFERENCE (continued)

Device to be Replaced	Current Replacement	Alternate Replacement	Flame Amplifier ①	Purge			Voltage (Vac)	Frequency (Hz)	Preignition	Run/Test Switch	PFEP	INTM Pilot	INTR Pilot	MFEP	Delayed MV	Shutter Drive Output	Postpurge	Comments
				Purge Timing	Air-flow	Air-Flow Switch Check												
RM7897A1002	RM7897A1002		Selectable	② Selectable	Proven		120	50/60	X	X	4, 10	X	X	10		X	Pro-grammed	With Pre Ignition Interlock Input and Blinkum Fault Messaging. Intermittent or Interrupted Pilot valve operation
RM7897C1000	RM7897C1000		Selectable	② Selectable	Proven		120	50/60	X	X	4, 10		X	10	X	X	Pro-grammed	With Pre Ignition Interlock Input and Blinkum Fault Messaging. Intermittent or Interrupted Pilot valve operation
RM7898A1002	RM7898A1002		Selectable	② Selectable	Proven		120	50/60	X	X	4, 10		X	10	X	X	Pro-grammed	With Valve Proving Feature, Pre Ignition Interlock Input and Blinkum Fault Messaging. Intermittent or Interrupted Pilot valve operation
RM7898A1018	RM7898A1018		Selectable	② Selectable	Proven		120	50/60	X	X	4, 10		X	10	X	X	Pro-grammed	With Valve Proving Feature, Pre Ignition Interlock Input and Blinkum Fault Messaging. Intermittent or Interrupted Pilot valve operation and Special Spark Shutoff feature.

FOOTNOTES:

① Amplifier Options

② Purge Timer Options

③ Purge Timer Options

Rectification	Standard	>50 feet leadwire run	Ampil-check	>50 feet leadwire run
0.8 sec. FFRT	R7847A1025	R7847A1075	R7847B1023	R7847B1064
3 sec. FFRT	R7847A1033	R7847A1082	R7847B1031	R7847B1072
UV				
0.8 sec. FFRT	R7849A1015		R7849B1013	
3 sec. FFRT	R7849A1023		R7849B1021	
Dynamic Self-Check for Detector				
C7012E, F	R7847C1005			
C7061A, F	R7861A1026	3 sec. FFRT		
	R7861A1034	0.8 sec. FFRT		
C7076A, D	R7886A1001			
C7961E, F	R7851C1008			
Optical C7927, C7962				
0.8 sec. FFRT	R7851B1018			
3 sec. FFRT	R7851B1000			

Timing	ST7800	Timing	ST7800
2 seconds	A1005	2.5 Minute	A1070
7 seconds	A1013	4 Minute	A1088
10 seconds	A1021	6 Minute	A1096
30 seconds	A1039	9 Minute	A1104
40 seconds	A1047	12 Minute	A1112
60 seconds	A1054	15 Minute	A1120
90 seconds	A1062	22 Minute	A1138
		30 Minute	A1146

Timing	ST7800	Timing	ST7800
2 seconds	C1003	14 Minute	C1078
20 seconds	C1011	16 Minute	C1086
4 Minute	C1029	18 Minute	C1094
6 Minute	C1037	20 Minute	C1102
8 Minute	C1045	22 Minute	C1110
10 Minute	C1052	24 Minute	C1128
12 Minute	C1060	30 Minute	C1135
		45 Minute	C1143

TABLE 13—HONEYWELL CROSS-REFERENCE FOR FIREYE™ TFM2,3 AND UVM2,3,5

Device to be Replaced	Replacement ① ② ③ ④ ⑤	7800 Replacement ① ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫	Voltage (Vac)	Frequency (Hz)	Flame Detector Type	FFRT (Sec)	PFEF (Sec)	Prepurge Timing (Sec)	Comments
TFM-2A7	⑬ R7795B1009 ⑮ R7795F1000	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Rectification	2-4	12	7	
TFM-2A30	⑬ R7795B1009 ⑮ R7795F1000	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Rectification	2-4	12	30	
TFM-2A90	⑬ R7795B1009 ⑮ R7795F1000	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Rectification	2-4	12	90	
TFM3-7 TFM3-3H	⑬ R7795B1009 ⑮ R7795F1000	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Rectification	2-4	12	7	Nonrecycle
TFM3-90	⑬ R7795B1009 ⑮ R7795F1000	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Rectification	2-4	12	90	Nonrecycle
TFM2	⑬ R7795B1009 ⑮ R7795F1000	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Rectification	2-4	4, 10	②	
TFM3X3H	⑬ R7795B1009 ⑮ R7795F1000	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Rectification	2-4	4, 10	②	Nonrecycle
UVM-2A	⑬ R7795A1001 ⑮ R7795E1002	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Ultraviolet	2-4	12	30	
UVM-2A7	⑬ R7795A1001 ⑮ R7795E1002	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Ultraviolet	2-4	12	7	
UVM-2A30	⑬ R7795A1001 ⑮ R7795E1002	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Ultraviolet	2-4	12	30	
UVM-2A90	⑬ R7795A1001 ⑮ R7795E1002	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Ultraviolet	2-4	12	90	
UVM3-7	⑬ R7795A1001 ⑮ R7795E1002	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Ultraviolet	2-4	12	7	Nonrecycle
UVM3-90	⑬ R7795A1001 ⑮ R7795E1002	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Ultraviolet	2-4	12	90	Nonrecycle
UVM2	⑬ R7795A1001 ⑮ R7795E1002	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Ultraviolet	2-4	4, 10 ②	②	
UVM3+3H	⑬ R7795A1001 ⑮ R7795E1002	⑬ RM7895A1014 ⑮ RM7895B1013	120	50/60	Ultraviolet	2-4	4, 10 ②	②	Nonrecycle
UVM5	⑭ R7795C1007 ⑮ R7795G1008	⑭ RM7895C1012 ⑮ RM7895D1011	120	50/60	Ultraviolet	2-4	4, 10 ②	②	Nonrecycle

FOOTNOTES

- ① The R7795 control is not a direct, plug-in replacement. See Modernization Wiring Information Section for wiring diagrams.
- ② These FIREYE™ devices use a plug-in "MT" timer card which includes a 10 second trial for ignition timing and the prepurge timing. MT710 provides a 7 second prepurge and a 10 second TFI, MT3010 provides a 30 second prepurge and a 10 second TFI, etc.
- ③ Use Q795A Subbase.
- ④ Use ST795A Plug-in Purge Timers.
- ⑤ Provides air-flow switch check (AFSC).
- ⑥ 4 or 10 second PFEF.

⑦ Use Q7800A (panel mount) or Q7800B (burner mount) Subbase.

⑧ Select proper flame signal amplifier.

⑨ Use ST7800A Plug-in Purge Timers.

⑩ 10 second MFEP.

⑪ Can be used with C7012E,F Dynamic Self-Check Ultraviolet Flame Detectors. Use R7847C Amplifier.

⑫ 120 Vac/60 Hz replacement is indicated. Identical model available with 120 Vac/50 Hz.

⑬ Intermittent pilot.

⑭ Interrupted pilot.

Automation and Control Solutions

Honeywell International Inc.	Honeywell Limited-Honeywell Limitée
1985 Douglas Drive North	35 Dynamic Drive
Golden Valley, MN 55422	Scarborough, Ontario M1V 4Z9
http://yourhome.honeywell.com	



Honeywell