

Honeywell Primary Control Cross Reference

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TABLE 2—RA890E CROSS REFERENCE									
Device to be Replaced RA890E	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	
1009	RA890F1338	RM7890A1031	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	RM7890A1031	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	RM7890A1031	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	RM7890A1031	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	RM7890A1031	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	RM7890A1031	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	RM7890A1031	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	RM7890A1031	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	RM7890A1031	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	RM7890A1031	R7847A1025	120	50/60	30	0.8	Spdt
1611	None	⑤ EC7890A1011	R7847A1025	220	50	30	0.8	Spdt
1629	RA890F1346	RM7890A1031	R7847A1033	120	50/60	30	2-4	Spdt
1637	None	⑤ EC7890A1011	R7847A1033	240	50/60	30	2-4	Spdt
1645	RA890F1346	RM7890A1031	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 RM7890B1048 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	RM7890A1031	R7847A1025	120	50/60	30	0.8		
1015	RA890F1346	RM7890A1031	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	RM7890A1031	R7847A1025	120	50/60	30	0.8	Spdt	
1130	RA890F1346	RM7890A1031	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		Special for Yamatake (Japan)
1205	NONE	NONE		100	50/60	15	3	Spdt	
1213	NONE	⑤ EC7890A1011	R7847A1033	220	50/60	15	3	Spdt	
1221	RA890F1387	⑤ EC7890A1011	R7847A1033	240	50/60	15	3	Spdt	
1239	RA890F1338	RM7890A1031	R7847A1025	120	50/60	30	0.8		
1247	RA890F1346	RM7890A1031	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	RM7890A1031	R7847A1025	120	50/60	30	0.8	Spdt	
1346	RA890F1346	RM7890A1031	R7847A1033	120	50/60	30	3	Spdt	
1353	NONE	⑤ EC7890A1011	R7847A1025	240	50/60	30	0.8	Spdt	