

THE FIRING LINE

Honeywell Flame Rod and Pilot Burner Cross Reference

Cross Reference Data:

HONEYWELL

C7004 page 1
C7005 page 1
C7007 page 2
C7008 page 3
C7009 page 4
C7011 page 4
ID5200 page 4
Q179 pages 5-7

PYRONICS

3EN page 9
4EN page 9

PROTECTION CONTROLS

R11 page 9
R12 page 9
R14 page 9

BARBER COLEMAN

1256 page 9

FIREYE™

69ND1 page 9

NOTE: Some burner manufacturers make their own flame rods, which are not listed in this section. Generally, a functional replacement can be selected from the TRADELINE® or FLAME SAFEGUARD Catalogs.

C7004B FLAME ROD HOLDER

Device to be Replaced	Current Replacement	Specifications of Device to be Replaced			Comments
		Mounting (Pipe Size)	Flame Rod Diameter (in.)	Flame Rod Used	
C7004B1002	C7004B1002	2 in. pipe-setscrew	3/16	102709A,B,C,D,E ^② or 102711 ^③ (order separately)	—
C7004B1010	C7004B1002 ^①	2 in. pipe-setscrew	3/16		Angle body.
C7004B1028	C7004B1028	1-1/4 in. pipe-setscrew	3/16	102709A,B,C,D,E ^② or 102711 ^③ (order separately)	—
C7004B1036	C7004B1002 ^①	2 in. pipe-setscrew	3/16		Angle body.
C7004B1044	C7004B1051	1-1/4 in. threaded	3/16	102709A,B,C,D,E ^② or 102711 ^③ (order separately)	—
C7004B1051	C7004B1051	1-1/4 in. threaded	3/16		For positive pressure fire box.

① Replacement is not an angle body holder.

② 102709A-E Kanthal A1 Flame Rods.

③ 102711 12-inch Globar Flame Rod.

C7005 PILOT BURNER AND FLAME ROD ASSEMBLY

Device to be Replaced	Current Replacement	Specifications of Device to be Replaced		Comments
		Orifice (in.)	Size Gas Type	
C7005A1003	None	0.082	Manufactured	—
C7005A1011	None	0.082	Manufactured	—
C7005A1029	C7005A1037	0.052	Natural	—
C7005A1037	C7005A1037	0.052	Natural	—
C7005A1045	C7005A1037 ^①	0.028	Propane	—
C7005B1001	None	0.082	Manufactured	C7005B models include ignition electrode.
C7005B1019	None	0.082	Manufactured	C7005B models include ignition electrode.
C7005B1027	C7005B1035	0.052	Natural	C7005B models include ignition electrode.
C7005B1035	C7005B1035	0.052	Natural	C7005B models include ignition electrode.
C7005B1043	C7005B1035 ^①	0.028	Propane	C7005B models include ignition electrode.
C7005B1050	C7005B1035 ^①	0.028	Propane	C7005B models include ignition electrode.
C7005B1068	None	0.021	Butane	C7005B models include ignition electrode.

① The orifice of the C7005 is in the venturi assembly. When replacing the C7005, use the existing venturi of the device being replaced. If a new venturi or a propane venturi is required, order according to Table 1.

TABLE 1

Orifice Size (in.)	Venturi Part Number
0.052	100204B
0.028	101867B

C7007 FLAME ROD HOLDER

Device to be Replaced	Current Replacement	Specifications of Device to be Replaced			Comments
		Mounting (Pipe Size)	Flame Rod Diameter (in.)	Flame Rod Used	
C7007A1001	C7007A1001	1/2 in. NPT male	3/16	102709A,B,C or D (order separately)	—
C7007A1019	C7007A1001 ^①	1/2 in. NPT female	3/16	102709A,B,C or D (order separately)	—
C7007A1027	C7007A1001 ^①	3/4 in. NPT female	3/16	102709A,B,C or D (order separately)	—
C7007A1035	C7007A1001 ^①	1 in. NPT female	3/16	102709A,B,C or D (order separately)	—

① Use appropriate standard pipe coupling.

C7008 FLAME ROD AND HOLDER ASSEMBLIES

Device to be Replaced	Current Tradeline Replacement	Specifications of Device to be Replaced			Comments
		Mounting (Pipe Size)	Flame Rod Diameter (in.)	Flame Rod Used	
C7008A1000	C7008A1174 ^①	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	6	—
C7008A1018	C7008A1174	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	12	—
C7008A1026	C7008A1182 ^①	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	18	—
C7008A1034	C7008A1182	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	24	—
C7008A1042	C7008A1174 ^{① ③}	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	6	Angle pattern.
C7008A1059	C7008A1174 ^③	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	12	Angle pattern.
C7008A1067	C7008A1182 ^{① ③}	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	18	Angle pattern.
C7008A1075	C7008A1182 ^③	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	24	Angle pattern.
C7008A1083	C7008A1174 ^①	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	6	Less cover.
C7008A1091	C7008A1174	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	12	Less cover.
C7008A1109	C7008A1182 ^①	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	18	Less cover.
C7008A1117	C7008A1182	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	24	Less cover.
C7008A1125	C7008A1182 ^②	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	27	—
C7008A1133	C7008A1182 ^①	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	18	—
C7008A1141	C7008A1182	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	24	—
C7008A1158	C7008A1174	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	12	Less cover.
C7008A1166	C7008A1174	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	12	Less cover and Rajah connector.
C7008A1174	C7008A1174	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	12	TRADELINER [®] .
C7008A1182	C7008A1182	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	24	TRADELINER [®] .
C7008A1190	C7008A1174 ^①	1/4 in. NPT male	3/16 in., one end 6-32 NC threaded	4-1/2	

- ① Cut flame rod to length.
- ② Replacement has 24-inch flame rod.
- ③ Replacement is straight pattern.

C7009, C7011 AND ID5200 FLAME ROD ASSEMBLIES AND HOLDERS

Device to be Replaced	Current Replacement	Specifications of Device to be Replaced			Comments
		Mounting (Pipe Size)	Flame Rod Diameter	Flame Rod Length (in.)	
C7009A1009	C7009A1009	1/8 in. NPT male	3/16 in. one end 3-56NF-2A threaded	4	—
C7009A1017	C7009A1025 ^①	1/8 in. NPT male	3/16 in. one end 3-56NF-2A threaded	8	—
C7009A1025	C7009A1025	1/8 in. NPT male	3/16 in. one end 3-56NF-2A threaded	12	—
C7009A1033	C7009A1009 ^①	1/8 in. NPT male	3/16 in. one end 3-56NF-2A threaded	2-1/2	—
C7009A1041	C7009A1025 ^①	1/8 in. NPT male	3/16 in. one end 3-56NF-2A threaded	—	Less flame rod.
C7009A1058	C7009A1058	1/8 in. NPT male	3/16 in. one end 3-56NF-2A threaded	9	—
C7011A1005	None	1-1/4 in. pipe-setscrew	3/16 in.	—	Use 102709A,B,C,D, or E rod (order separately). ^③
1D5200A1X	C7007A1001 ^②	3/4 in. NPT female	3/16 in.	—	Use 102709A,B,C,D, or E rod (order separately). ^③
1D5200A2X	C7007A1001 ^②	1 in. NPT female	3/16 in.	—	Use 102709A,B,C,D, or E rod (order separately). ^③

① Cut flame rod to length.

② Replacement C7007A1001 has 1/2 in. NPT male mounting. Use appropriate standard pipe coupling.

③ Kanthal A1.

Q179 PILOT BURNER AND FLAME ROD ASSEMBLY

Device to be Replaced	Current Replacement	Specifications of Device to be Replaced			Comments
		Gas Type (Orifice Size—Inches)	Port and Burner Tip ^①	With Ignition Electrode	
Q179A1001	Q179A1001	Natural	I	Yes	
Q179A1019	Q179A1001 + 47540 ^②	LP	I	Yes	—
Q179A1027	None	Natural	45 Degree I	Yes	—
Q179A1035	Q179A1035	Natural	45 Degree Right-Hand	Yes	—
Q179A1043	Q179A1035 + 47540 ^②	LP	45 Degree Right-Hand	Yes	—
Q179A1050	Q179A1050	Natural	T	Yes	—
Q179A1068	Q179A1050 + 47540 ^②	LP	T	Yes	—
Q179A1076	Q179A1076	Natural	45 Degree Y	Yes	—
Q179A1084	Q179A1976 + 47540 ^②	LP	45 Degree Y	Yes	—
Q179A1092	Q179A1092	Natural	45 Degree T	Yes	—
Q179A1100	Q179A1092 + 47540 ^②	LP	45 Degree T	Yes	—
Q179A1118	Q179A1118	Natural	45 Degree Left-Hand	Yes	—
Q179A1126	Q179A1126	Natural	I	Yes	High temperature.
Q179A1134	None	Natural	45 Degree Left-Hand	Yes	High temperature.
Q179A1142	Q179A1050 + 133450A ^③	Natural	T	Yes	Special electrode.
Q179A1159	None	Natural	T	Yes	Right-hand electrode.
Q179A1167	Q179A1167	Natural	I	Yes	Special orifice. ^④
Q179A1175	Q179A1050 + 133449A ^⑤	Natural	T	Yes	Left-hand electrode.

① See page 8.

② Replacement must be modified with 0.013 inch LP gas orifice, part no. 47540.

③ Part no. 133450A, 45 degree I port flame rod and insulator assembly.

④ 0.028 inch diameter orifice.

⑤ Part no. 133449A, right-hand, 90 degree flame rod and insulator assembly.

Q179 PILOT BURNER AND FLAME ROD ASSEMBLY (continued)

Device to be Replaced	Current Replacement	Specifications of Device to be Replaced			Comments
		Gas (Orifice) Type	Port Type ^①	With Ignition Electrode	
Q179B1000	Q179A1001 ^⑥	Natural	I	No	
Q179B1018	Q179A1001 + 47540 ^{②③⑥}	LP	I	No	
Q179B1026	None	Natural	45 Degree I	No	
Q179B1034	Q179A1035 + 47540 ^{②③⑥}	LP	45 Degree Right-Hand	No	
Q179B1042	Q17901042	Natural	T	No	
Q179B1059	Q17901042 + 47540 ^{②③}	LP	T	No	
Q179B1067	Q179A1076 ^⑥	Natural	45 Degree Y	No	
Q179B1075	Q179A1076 + 47540 ^{②③⑥}	LP	45 Degree Y	No	
Q179B1083	Q179A1092 ^⑥	Natural	45 Degree T	No	
Q179B1091	Q179A1035 ^⑥	Natural	45 Degree Right-Hand	No	
Q179B1109	None	Natural	45 Degree Left-Hand	No	
Q179B1117	Q179B1117	Natural	I (Large)	No	
Q179B1125	None	Natural	I	No	High temperature.
Q179B1133	None	Natural	45 Degree Left-hand	No	High temperature.
Q179B1141	Q179A1001 + 133450A ^{②⑥}	Natural	I	No	Special electrode.
Q179B1158	None	Natural	T	No	Right-hand electrode.
Q179B1166	None	Natural	45 Degree T	No	Special orifice.
Q179B1174	None	Natural	I	No	High temperature.
Q179B1182 ^⑤	Q179B1182 ^⑤	Natural	T	No	Proprietary to Cleaver Brooks.

- ① See page 8.
- ② Current replacement must be modified with special part (orifice or special electrode).
- ③ Part no. 47540, 0.013 inch LP orifice.
- ④ Part no. 133450A, 45 degree I port flame rod and insulator assembly.
- ⑤ Available from proprietary OEM only.
- ⑥ Replacement has ignition electrode in addition to flame electrode (rod).

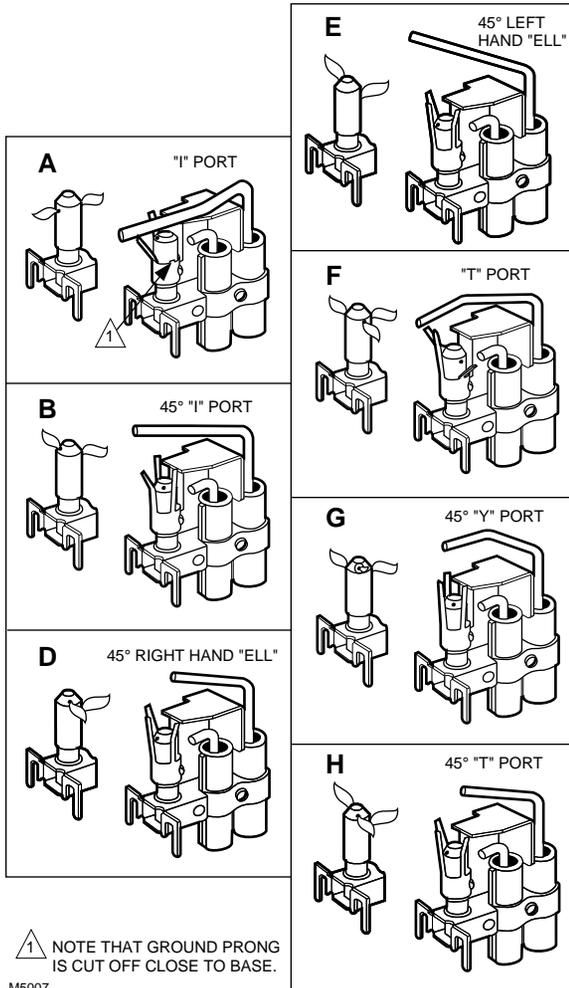
Q179 PILOT BURNER AND FLAME ROD ASSEMBLY (continued)

Device to be Replaced	Current Replacement	Specifications of Device to be Replaced			Comments
		Gas Type (Orifice Size—Inches)	Burner Tip and Mounting ^①	With Ignition Electrode	
Q179C1009	Q179C1009	Natural (0.026)	D1 tip, rear mount	Yes	—
Q179C1017	None	Natural (0.024)	K3 tip, rear mount	Yes	—
Q179C1025	Q179C1025	Natural (0.024)	L4 tip, rear mount	Yes	—
Q179C1033	Q179C1033	Natural (0.026)	D7 tip, left-side mount	Yes	—
Q179C1041	Q179C1041	Natural (0.026)	D8 tip, right-side mount	Yes	—
Q179C1058	Q179C1058	Natural (0.024)	L10 tip, left-side mount	Yes	—
Q179C1066	Q179C1066	Natural (0.024)	K11 tip, right-side mount	Yes	—
Q179C1074	Q179C1009	Natural (0.026)	D1 tip, rear mount	Yes	With 2 in. wing span target.
Q179C1082	None	Natural (0.026)	K11 tip, left-side mount	Yes	Rheem Manufacturing special.
Q179D1008	Q179D1008	Natural (0.026)	D1 tip, rear mount	No	—
Q179D1016	Q179D1016	Natural (0.026)	D7 tip, left-side mount	No	—
Q179D1024	Q179D1024	Natural (0.026)	D8 tip, right-side mount	No	—
Q179D1032	Q179D1032	Natural (0.026)	D1 tip, rear mount	No	With 2 in. wing span target.
Q179D1057	Q179D1057	Natural (0.024)	L10 tip, left-side mount	No	—
Q179D1065	None	LP (0.016)	D1 tip, rear mount	No	—
Q179D1925	Q179D1925	LP (0.016)	D1 tip, rear mount	No	With 2 in. wing span target.

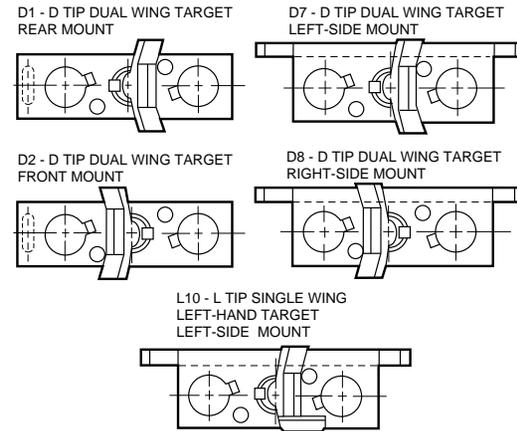
^① See page 8.

**Q179 PILOT BURNER AND FLAME ROD ASSEMBLY
(PORTS, BURNER TIPS AND MOUNTING)**

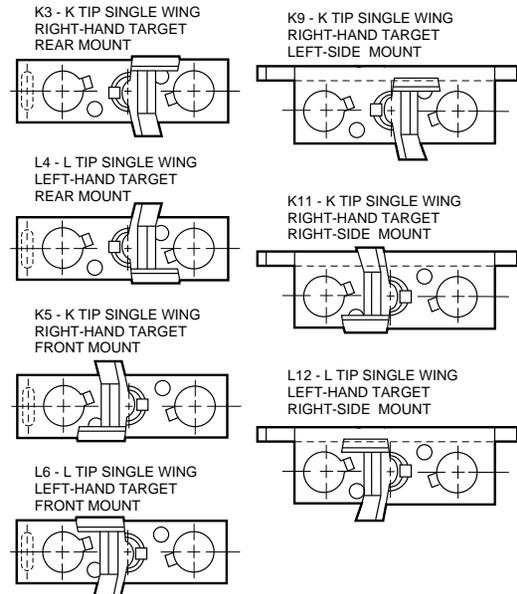
Q179A,B



Q179C OR D



Q179C ONLY



NOTE: MOUNTING NUMBER DESIGNATES BOTH BRACKET TYPE AND TARGET CONFIGURATION. DESCRIPTION REFERENCE POINT IS FROM BACK OF BURNER TARGET.

M2871

COMPETITIVE FLAME ROD AND HOLDER ASSEMBLIES

Device to be Replaced	Current Tradeline Replacement ^③	Specifications of Device to be Replaced			Comments
		Mounting (Pipe Size)	Rod Diameter (in.)	Flame Rod Length (in.)	
Pyronics					
3EN6	C7008A1174 ^① ^②	3/8 in. NPT male	1/8	6	Angle body.
3EN12	C7008A1174 ^①	3/8 in. NPT male	1/8	12	Angle body.
4EN6	C7008A1174 ^① ^②	1/2 in. NPT male	1/8	6	Angle body.
4EN12	C7008A1174 ^①	1/2 in. NPT male	1/8	12	Angle body.
Protection Controls					
R1106	C7008A1174 ^① ^②	3/4 in. NPT male	1/8	6	Angle body.
R1112	C7008A1174 ^①	3/4 in. NPT male	1/8	12	Angle body.
R1118	C7008A1182 ^① ^②	3/4 in. NPT male	1/8	18	Angle body.
R1124	C7008A1182 ^①	3/4 in. NPT male	1/8	24	Angle body.
R1206	C7008A1174 ^① ^②	3/4 in. NPT male	3/16	6	Angle body.
R1212	C7008A1174 ^①	3/4 in. NPT male	3/16	12	Angle body.
R1218	C7008A1182 ^① ^②	3/4 in. NPT male	3/16	18	Angle body.
R1224	C7008A1182 ^①	3/4 in. NPT male	3/16	24	Angle body.
R1406	C7008A1174 ^① ^②	3/4 in. NPT male	1/4	6	Angle body.
R1412	C7008A1174 ^①	3/4 in. NPT male	1/4	12	Angle body.
R1418	C7008A1182 ^① ^②	3/4 in. NPT male	1/4	18	Angle body.
R1424	C7008A1182 ^①	3/4 in. NPT male	1/4	24	Angle body.
Barber Coleman					
1256-14-6	C7008A1174 ^②	1/4 in. IPS male	Unknown	6	Angle body.
1256-14-12	C7008A1174	1/4 in. IPS male	Unknown	12	Angle body.
1256-4-6	C7008A1174 ^②	1/4 in. IPS male	Unknown	6	—
1256-4-12	C7008A1174	1/4 in. IPS male	Unknown	12	—
Fireye™					
69ND1 1000K4	C7008A1174 ^①	1/2 in. NPT male	Unknown	12	
69ND1 1000K6	C7008A1182 ^① ^②	1/2 in. NPT male	Unknown	18	
69ND1 1000K8	C7008A1182 ^①	1/2 in. NPT male	Unknown	24	

① Use appropriate standard pipe coupling.

② Cut flame rod to length.

③ In some cases, the current replacement has a different mounting means, flame rod length and/or diameter, and a different body style. These should be checked before making a replacement. A pilot turndown test should be performed after making a replacement.

Honeywell

Helping You Control Your World