

# Robertshaw® GAS IGNITION CONTROLS

## UNIVERSAL IGNITION CONTROLS

Robertshaw's Universal Ignition Control Uni-Kits feature a flame sense circuit that will work equally well on a one rod (local sense) or a two rod (remote sense) application.

### FEATURES

- Replaces one rod and/or two rod systems.
- Reduces truck stock inventory, saving space and money.
- Includes vent damper adaptor assembly.
- Easy-to-install with complete in-depth installation instructions.

### ORDERING DATA

#### 780-001 (NONLOCKOUT)

The automatic recycle features assure that, in the event of flame failure, main gas is disabled and the spark repetition sequence is restarted until pilot gas is ignited. Only after pilot ignition has been re-established can main gas be returned to the burner.

#### 780-002 (LOCKOUT)

These kits have a lockout feature to shut off all gas to the furnace, should pilot ignition fail to occur after a predetermined time period. The 780-002 provides 3 tries for ignition, each ignition period is 90 seconds followed by a 6 minute time delay between ignition attempts. After 3 tries if no pilot flame is sensed, unit goes into lockout and must be reset at the thermostat.

#### 780-003 (LOCKOUT WITH PRE-PURGE)

These kits have a lockout feature to shut off all gas to the furnace, should pilot ignition fail to occur after a predetermined time period. The 780-003 provides 3 tries for ignition, each ignition period is 60 seconds followed by a 5 minute time delay between ignition attempts. After 3 tries if no pilot flame is sensed, unit goes into lockout and must be reset at the thermostat. The 780-003 has a 45 second pre-purge.



### REPLACES

- ROBERTSHAW
- JOHNSON CONTROLS
- HONEYWELL

### SPECIFICATIONS

Input Voltage	24 VAC to 50/60 Hz
Transformer	24 VAC / 20 VA
Spark rate	3 to 4 sparks per second
Relay contact ratings	
Pilot valve	1 amp at .5 PF
Main valve	1 amp at .5 PF
Combined load	1.5 at .4 PF
Flame sense current	.7 $\mu$ A DC @ 25°C / 24 VAC
Maximum total current load	1.5 amp
Flame failure reignition time	.8 seconds maximum
Thermostat anticipator setting	.7 amp
Ambient temperature rating	-40 to 175° (-40 to 80°C)
Relative humidity	95% noncondensing at 104°F

### CROSS-REFERENCE – HONEYWELL

HONEYWELL PART NUMBER	ORDER/USE UNI-LINE PART NUMBER	HONEYWELL PART NUMBER	ORDER/USE UNI-LINE PART NUMBER	HONEYWELL PART NUMBER	ORDER/USE UNI-LINE PART NUMBER	HONEYWELL PART NUMBER	ORDER/USE UNI-LINE PART NUMBER
S86A1001	780-001	S86F1000	780-001	S860D1009	780-003	S8610H1004★	780-002•
S86A1019	780-001	S86F1018	780-001	S860D1017	780-003	S8610H1012	780-002•
S86A1027	780-001	S86F1026	780-001	S8600A1001	780-002•	S8610H1020★	780-003•
S86A1035	780-001	S86F1042	780-001	S8600B1009	780-002•	S8610H1038	780-002•
S86B1009	780-001	S86F1059	780-001	S8600B1025	†	S8610H1046	780-002•
S86B1017	780-001	S86F1067	780-001	S8600C1015	780-002	S8610H1053	780-002•
S86B1025	780-001	S86F1075	780-001	S8600F1000	780-001	S8610H1061★	780-002•
S86B1007	780-002•	S86F1083	780-001	S8600F1034	780-001	S8610H1079	780-002•
S86B1015	780-002•	S86F1091	780-001	S8600F1042	780-001	S8610M1003	780-002•
S86C1023★	780-002	S86G1008	780-002•	S8600H1006	780-002•	S8610M1011★	780-002•
S86B1031	780-002•	S86G1016	780-002•	S8600H1022	780-002•	S8610M1029	780-002•
S86C1049	780-002•	S86G1024★	780-002•	S8600H1048	780-002•	S8610U1003	780-002•
S86C1056	780-002•	S86G1032	780-002•	S8600H1055	780-002•	S8620C1003	†
S86D1005	780-002•	S86G1057	780-002•	S8600H1063★	780-002	S8620C1011	†
S86D1013★	780-002•	S86G1073	780-002•	S8600H1071	780-002•	S8620H1002	780-002
S86D1021	780-002•	S86H1006	780-002•	S8600H1089	780-002•	S8620H1010	†
S86E1002	780-001	S86H1014★	780-002•	S8600H1097	780-002•	S8620H1028	780-003
S86E1010	780-001	S86H1022	780-002•	S8600H1105	780-002•	S8660D1002	780-003
S86E1016	780-002•	S86H1048	780-002•	S8600M1005	780-002•	S8660J1008	†
S86E1028	780-001	S86H1055	†	S8600M1013	780-002•	S8660K1006	†
S86E1036	780-001	S86H1063	†	S8610A1009	780-001	S8670D1000	780-003
S86E1044	780-001	S86H1089	780-002•	S8610B1007	780-002•	S8670D1018	780-003
S86E1051	780-001	S86H1097	780-002•	S8610B1015	780-002•	S8670E1007	780-003
S86E1069	780-001	S86H1105	780-002•	S8610C1005	780-002•	S90A1005	780-001
S86E1077	780-001	S86H1113	780-002•	S8610F1008	780-001	S90B1003	780-002•
S86E1101	780-001	S86H1139★	780-002•	S8610F1016	780-001	S90B1011	780-002•
S86E1119	780-001	S86H1147	780-002•	S8610F1024	780-001		
S86E1127	780-001	S860C1000	780-003	S8610F1032	780-001		

• 780-002 replacement has 60 seconds lockout timing.

★ Has 15 second lockout timing.

† No replacement-contact O.E.M.