

ROBERTSHAW 24 VOLT DUAL COMBINATION GAS VALVES

- 720 Series Dual Valve Gas Control can be used to replace MOST constant pilot valves
- Designed for a wide variety of 24V heating applications
- Available with or without pressure regulator
- Uni-Kits are factory set at 3.5" w.c. for natural gas
- Can be converted to LP gas by installing regulator conversion kit included



RMI Part No.	Robert Shaw OEM Part No.	Inlet	Outlet	Straight Thru	Side Outlet w/ 1/2" plugs	Pressure Regulator	BTU Capacity Nat / LP*
720-400	7200ER	1/2"	3/4"	yes	no	UniKit*	150,000 / 240,000
720-402	7200ER	1/2"	3/4"	yes	yes	UniKit*	150,000 / 240,000
720-404	7200ER	3/4"	3/4"	yes	yes	UniKit*	150,000 / 240,000
720-406	7200ER	3/4"	3/4"	yes	no	UniKit*	150,000 / 240,000

ROBERTSHAW INTERMITTENT PILOT, DIRECT SPARK OR H.S.I. GAS VALVE

- 720 Series Pilot Ignition Gas Valve designed for all three applications.
- Designed for a wide variety of 24V heating applications.
- Uni-Kits are factory set at 3.5" w.c. for natural gas
- Can be converted to LP gas by installing regulator conversion kit included



RMI Part No.	Robert Shaw OEM Part No.	Inlet	Outlet	Straight Thru	Side Outlet w/ 1/2" plugs	Pressure Regulator	BTU Capacity Nat / LP*
720-079	7200IPER	1/2"	3/4"	yes	yes	UniKit*	150,000 / 240,000

ROBERTSHAW 710 SERIES LOW PROFILE GAS VALVES

- Series 710 Low profile gas heating valves are designed for recreational vehicles and other applications with limited space.
- Maximum capacity is 70,000 for natural gas and 112,000 for LP gas.
- Combines manual gas cock, automatic pilot safety valve and pilot outlet
- (2) 1/2" X 3/8" reducer bushings included with the 710-203, 710-401, 710-501 & 710-502



RMI Part No.	Robert Shaw OEM Part No.	Valve Type	Inlet	Outlet	Straight Thru	3 Position Side Outlet	Pressure Regulator	BTU Capacity LP	TP or TC
710-203	7000SLC	hydraulic	1/2"	1/2"	yes	yes	none	70,000 / 112,000	TC
710-401	7000ELC	24 volt	1/2"	1/2"	yes	yes	none	70,000 / 112,000	TC
710-501	7000MVLC	millivolt	1/2"	1/2"	yes	yes	none	70,000 / 112,000	TP
710-502	7000MVRLC	millivolt	1/2"	1/2"	yes	yes	3.5" w.c. nat gas	70,000 / 112,000	TP
710-508‡	7000MVRLC	millivolt	3/8"	3/8"	yes	no	3.5" w.c. nat gas	70,000 / 112,000	TP & TC
710-511**‡	7000MVRB-4-LC	millivolt	1/2"	3/8"	yes	no	Hi-Lo adjustable 1.7" to 3.5" Nat	70,000 / 112,000	TP & TC

ROBERTSHAW 700 SERIES MILLIVOLT GAS VALVES

- 700 Series Millivolt Gas Valves are wall thermostat actuated.
- Valve combines a manual gas cock, automatic pilot safety and a millivolt operator.
- Automatic pilot safety is separate from gas cock and provides gas shutoff in case of pilot outage.

RMI Part No.	Robert Shaw OEM Part No.	Inlet	Outlet	Straight Thru	3 Position Side Outlet	Pressure Regulator	Capacity	TP or TC
700-501	7000AMV	1/2"	1/2"	yes	yes	none	100,000	TP
700-503	7000BMV	1/2"	3/4"	yes	yes	none	240,000	TP
700-505	7000BMV	3/4"	3/4"	yes	no	none	240,000	TP
700-508	7000BMVR	1/2"	1/2"	yes	no	3.5" w.c. nat gas	240,000	TP
700-511	7000BMVR-S7C	3/4"	3/4"	yes	no	UniKit*	300,000	TP
700-515	7000BMVR-LP	3/4"	3/4"	yes	no	10" w.c. LP	485,000	TP



NOTES for page 180:

*LP conversion kit use part no. 1751-013 *Natural gas conversion kit use part no. 1751-003 *UniKit comes set for Nat w/ LP conv kit in box

** 710-511 use conversion kit 1751-021 to convert to LP gas.

† Valves can be used as either Natural or LP. However, if no pressure reg is part of valve and conversion kit is not used-there must be a regulator installed before valve to regulate gas.

‡ Both the 710-508 & 710-511 valve have special quick dropout safety magnet to meet specifications used with quick dropout pilot assembly 1819-100 and also require the use of 1960-027

low mas thermocouple.

TP = thermopile TC = thermocouple

HONEYWELL MECHANICAL THERMOSTATS

The 'Round' One

- T87K Round™ available as heat only or 1 heat/ 1 cool (3 11/16" dia x 1 3/4")
- T827K rectangular for single stage heat only (4 3/4" x 2 7/8" x 1 3/8")



RMI Part No.	Temperature Range	Voltage	Stages
T87K1007	40°F to 90°F	24Vac	1 Heat
T87N1000	40°F to 90°F	24Vac	1 Heat / 1 Cool
T827K1009	45°F to 95°F	12Vdc; 750mV	1 Heat

LUXPRO MECHANICAL THERMOSTATS

- Snap action mechanism
- Adjustable heat anticipator
- PSM30 is heating only
- PSM40 is heating and cooling
- 3 1/2" x 3" x 1 3/8"



RMI Part No.	Temperature Range	Voltage	Stages
PSM30	45°F to 90°F	millivolt or 24Vac	1 Heat
PSM40	45°F to 90°F	millivolt or 24Vac	1 Heat / 1 Cool

WHITE-ROGERS 90 SERIES "BIG BLUE" UNIVERSAL THERMOSTAT

- Large 12 square inch touchscreen display with 10 second backlight
- Extra large touch keys for easy operation
- 7 day, 5+1+1 day Programmable or Non-programmable
- Unique color-coded temperature touch keys for quick adjustments
- Intuitive menu-driven programming, with audio prompt
- Programmable fan & comfort circulating fan
- 4.6" x 5.9" x 1.2"



RMI Part No.	Temperature Range	Voltage	Stages
1F95-1277	45°F to 99°F	battery: mV to 24Vac	single/multi/heat pump
1F97-1277	45°F to 99°F	battery: mV to 24Vac	single

ROBERTSHAW 200 SERIES MECHANICAL THERMOSTATS

- All models have Uni-Line's famous sealed-in-glass switch feature which requires no leveling
- 2 13/16" rounded square x 1 5/16"



RMI Part No.	Temperature Range	Voltage	Stages
200-401	48°F to 86°F	24Vac	1 Heat
200-402	48°F to 86°F	24Vac	1 Heat w/ positive off
200-403	39°F to 77°F	24Vac	1 Heat - energy conserving
200-501	48°F to 86°F	millivolt	1 Heat
200-502	48°F to 86°F	millivolt	1 Heat w/ positive off
200-503	39°F to 77°F	millivolt	1 Heat - energy conserving

LUXPRO DIGITAL NON-PROGRAMMABLE THERMOSTAT

- Battery powered only
- Large illuminated digital display
- Attractive slim design with soft touch buttons
- PSD010B is compatible with most 24V, millivolt (both with no fans) and 2-wire hydronic heat systems
- PSD022B is compatible with same - up to 2 stages - as well as most air conditioning systems and single stage heat pumps
- 5.05" x 3.25" x 1.10"



RMI Part No.	Temperature Range	Voltage	Stages
PSD010B	45°F to 90°F	millivolt or 24Vac	1 Heat
PSD022B	45°F to 90°F	millivolt or 24Vac	up to 2 Heat / 2 Cool

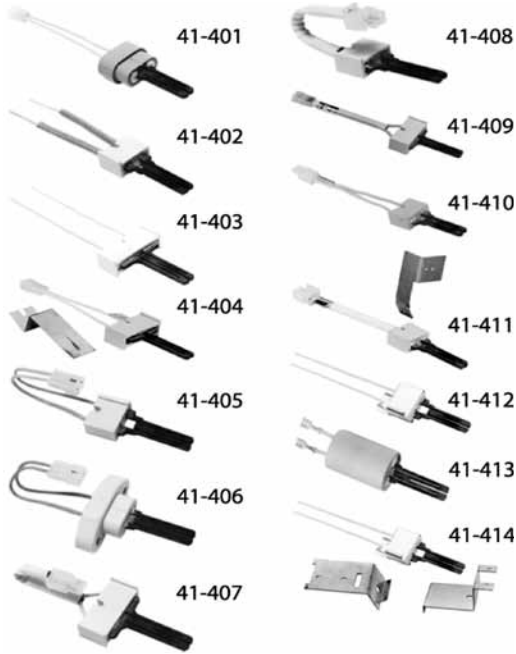
ROBERTSHAW DIGITAL PROGRAMMABLE THERMOSTAT

- 7 day programmable - allows four settings per day
- Pop-up wizard launches instant installation menu for thermostat settings
- Bigger brighter backlight with nightlight option
- Circulating fan maintains optimal air circulation between demand cycles for improved comfort and minimal energy use
- 6.75" x 4.375" x 1.625"



RMI Part No.	Temperature Range	Voltage	Stages
RS6110	45°F to 90°F	24Vac	1 Heat / 1 Cool

HOT SURFACE HEATING IGNITORS



RMI Part No.	Factory No.
41-401	271A
41-402	2714W
41-403	271M
41-404	271M
41-405	271D
41-406	271Y
41-407	271

RMI Part No.	Factory No.
41-408	271N
41-409	271
41-410	271N
41-411	271N
41-412	271NM
41-413	271C
41-414	271NM

We have inventory on a wide range of the following manufacturers' gas controls:

- Robertshaw
- Honeywell
- White-Rodgers
- ITT-General
- Johnson Controls

We Also Have Next Day Air Direct Shipment available on many non-stocked and special order controls direct from the above manufacturers

PARTS TIP

When replacing a control or valve, get the following information from the original part in order to speed the process of finding the replacement part:

- Manufacturer's Name
- Numbers from Original Part
- Voltage Listing
- Inlet/Outlet Direction
- Inlet/Outlet Size
- BTU of Appliance
- Appliance Model Number
- Appliance Serial Number
- Mounting Type if Applicable

ROBERTSHAW HOT SURFACE IGNITION MODULE REPLACEMENT UNI-KIT®

The 780-910 Uni-Kit is a must for service truck stock in that it will easily replace the widest variety of hot surface ignition modules found in the field today, including systems using:

- Local (sense through the Hot Surface Ignitor) or Remote Flame Sensors
- Single or Three Ignition Attempts
- 4 or 7 Second Ignition Trial Time
- 17 or 34 Second Ignitor Warm-Up Time
- 34 Seconds Pre-Purge or Non-PrePurge
- Natural or LP Gas Controls
- 120 VAC Hot Surface Ignitors



RMI Part No.	Length
780-910	Universal Hot Surface Ignitor Module

ROBERTSHAW UNIVERSAL PILOT IGNITION MODULE REPLACEMENT UNI-KITS®



780-001 (NONLOCKOUT)

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)

Lockout feature shuts off all gas to the furnace, should pilot ignition fail to occur after a pre-determined time period. The 780-002 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.

FEATURES

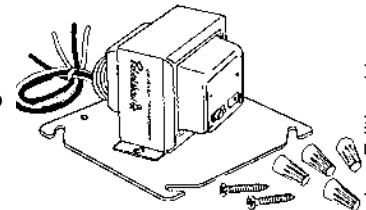
- Replaces one rod and/or two rod systems.
- Reduces truck stock inventory, saving space and money.
- Includes vent damper adapter assembly.
- Easy to install with complete in-depth installation instructions.

RMI Part No.	Length
780-001	Universal Intermittent Module (Natural Gas - Non Lockout)
780-002	Universal Intermittent Module (LP w/Lockout)

620 TRANSFORMERS

The 620 Series Transformers are available in a wide variety of models from universal enclosed to single voltage open frame. Refer to the ordering chart to select a transformer to meet your needs. Component recognized by Underwriter Laboratories Inc.

- UL Approved
- Thermal Fuse Protection
- Meets NEMA Standards
- Made in USA



S8610 UNIVERSAL INTERMITTENT PILOT MODULES

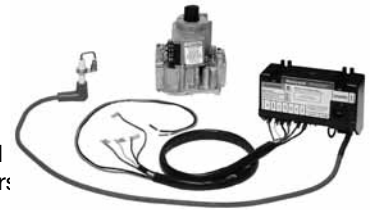
- Provides ignition sequence, flame monitoring and safety shut-off for intermittent pilot central furnaces and heating appliances
- One or two rod intermittent pilot control
- Continuous retry with configurable lockout timing
- For use with Natural or LP gas
- Includes spark cable adapters to allow field replacement of both Honeywell and competitive controls without replacing existing spark cable



RMI Part No.	Description
S8610U3009	Universal Intermittent Pilot Module

Y8610 RETROFIT INTERMITTENT IGNITION SYSTEM

- Retrofit kit is complete kit converting conventional standing pilot system to intermittent pilot system
- For use with 24Vac gas fired atmospheric furnaces, boiler and heating appliances
- Kit includes S8610U3009 control module, VR8304M3558 combination gas control and (2) 3/4" and (2) 1/2" reducing bushings
- Use with single rod or dual rod/remote flame sensing applications
- For use with Natural or LP gas
- Includes spark cable adapters and installation hardware



RMI Part No.	Description
Y8610U6006	Retrofit I.P. gas burner ignition system

S8910 UNIVERSAL INTERMITTENT PILOT CONTROL

- Provides operating control of a direct ignition system using a 120Vac hot surface ignitor
- For local (single rod) or remote (dual rod) rectification type flame sensing applications
- Contains easy-to-use instructions plus accessories required to adapt the existing HSI module



RMI Part No.	Description
S8910U1000	Universal Hot Surface Ignition Control

ST9120 UNIVERSAL ELECTRONIC FAN TIMER

- Integrates control of all combustion blower and circulating fan operations in a gas warm-air appliance
- DIP switch selectable heat and cool delay on and off times
- Diagnostic LED and continuous EAC and HUM terminal connections



RMI Part No.	Description
ST9120U1011	Universal electronic fan timer

HONEYWELL SMARTVALVE™ SYSTEM CONTROLS



- Intermittent HSI pilot control combines gas flow control with electronic sequencing
- Pilot and main gas control functions
- Electrode flame sensor
- Continuous retry
- SmartValve™ replacement only

Hot Surface Pilot / Sensor Assembly (for SmartValve™ Systems)

- Unique Keyed Plug Connector
- Replace without Removing the Pilot Burner

RMI Part No.	Description
Q3400A1024	Ignitor/Sensor/Lead



RMI Part No.	Inlet	Outlet	Straight Thru	Opening Characteristics	3/4" x 1/2" Reducer Bushings	Natural to LP conversion kit
SV9501M2528	1/2"	1/2"	yes	standard	no	yes
SV9501M8129	1/2"	1/2"	yes	fast	no	yes
SV9502H2522	1/2"	1/2"	yes	slow	no	yes
SV9602P4832	3/4"	3/4"	yes	step	two	no (LP only)
SV9602P4840	3/4"	3/4"	yes	step	two	no (LP only)

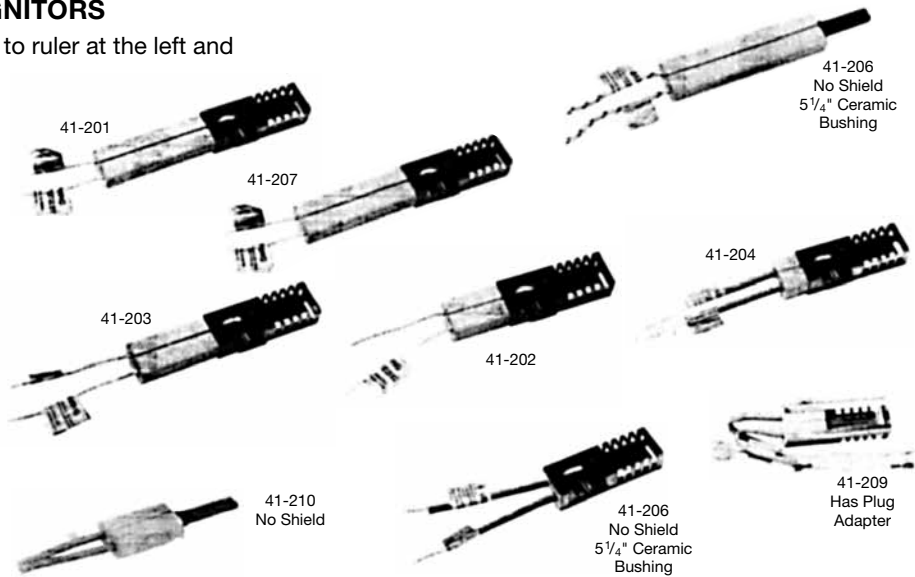
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CONTROLS & PILOTS

HOT SURFACE OVEN IGNITORS

Norton Style Oven Ignitors - Match old unit to ruler at the left and order by RMI part number.

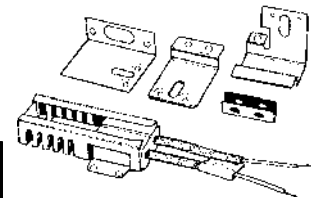
Ruler Measurement	RMI Part No.
7 1/2"	41-207
7"	41-206
6 1/2"	41-203
6"	41-203
5 1/2"	41-202
5"	41-202
4 1/2"	41-204
4"	41-204
3 1/2"	41-210 41-205 & 41-209
3"	
2 1/2"	
2"	
1 1/2"	
1"	
1/2"	
0"	



CARBORUNDUM REPLACEMENT OVEN IGNITOR KIT

- Includes brackets and instruction sheets.
- Replaces many models of Carborundum ignitors.

RMI Part No.	Description
41-208	Carborundum Ignitor Replacement



ROBERTSHAW 110 SERIES WATER HEATER THERMOSTATS

- All models feature a built-in, non-cycling Energy Cut-Off (ECO) system
- Domestic models have a 160°F temperature stop.
- All models have a 5 1/2" sensing element and various shank lengths ▲

RMI Part No.	Robert Shaw OEM Part No.	Inlet	Outlet	Shank Length ▲	BTU Capacity	Temp. High Stop	Pressure Regulator Setting
110-202	220RTSP	1/2"	1/2" inv flare	1-3/8"	45,000	160°	4.0" w.c. Nat Gas
110-206	R110RTSP	1/2"	1/2" inv flare	2-3/8"	38,000	160°	3.5" w.c. Nat Gas
110-262	220RLTSP	1/2"	1/2" inv flare ¹	1-3/8"	100,000	160°	10.0" w.c. LP only
110-265	220RLPTSP	1/2"	1/2" inv flare ²	1-3/8"	100,000	160°	10.0" w.c. LP only
110-326	R110RTSP	1/2"	1/2" inv flare	1-3/8"	45,000	160°	3.5" w.c. Nat Gas
110-508	R103RVSLPPA	3/8"	3/8"	1-1/2"	10,000	160°	11" w.c. LP
110-509	R103RVTSLP	3/8" inv flare	3/8" inv flare	1-3/8"	10,000	160°	11" w.c. LP

¹ right hand threads - adjustable from 9.0" to 12" w.c.
² left hand threads - adjustable from 9.0" to 12" w.c.

▲ Shank extension (part number 10-250) for 110 Series increases length of 1-1/4" and 1-3/8" shank models to approximately 3"



Place end with wires on 0 mark of ruler. Match overall length and select appropriate part number.

CONTROLS & PILOTS

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