WIRING DIAGRAMS

Heat Only: Gas or Oil Furnace

- Common Optional:
- G used for independent fan control only. Most heat only, gas or oil forced air systems do not use a fan (G) wire.

Cool Only:

- Common Optional:
- Cool only, compatible T6 models:
  - TH6210U2001
  - TH6220U2000
  - TH6320U2008

M36882

M36883
1H/1C: Gas Furnace

2H/1C: Gas Furnace

2 Transformer System, 1H/1C: Oil Furnace

2 Transformer System, Hot Water Heat with Air-Conditioning (or Hot Water Coil)
Hot Water Boiler, Heat Only

```
S 0 Y2 G C U
S 0 O/B Y E
L/A A W
W K R
Rc
```

**HOT WATER BOILER, HEAT ONLY.**

COMPATIBLE T6 MODELS:
- TH6210U2001
- TH6220U2000
- TH6320U2008

**R/Rc SWITCH UP**

```
M36888
```

---

Hot Water Heat with Power Open Zone Valve

```
S 0 Y2 G C U
S 0 O/B Y E
L/A A W
W K R
Rc
```

**HOT WATER HEAT WITH POWER OPEN ZONE VALVE.**

COMPATIBLE T6 MODELS:
- TH6210U2001
- TH6220U2000
- TH6320U2008

**R/Rc SWITCH UP**

```
M36889
```

---

2H/2C: Gas Furnace

```
S 0 Y2 G C U
S 0 O/B Y E
L/A A W
W K R
Rc
```

**2H/2C GAS FURNACE + AIR-CONDITIONING.**

COMPATIBLE T6 MODELS:
- TH6210U2001
- TH6220U2000
- TH6320U2008

**COMMON OPTIONAL**

```
M36890
```

---

1H/1C: Heat Pump without Aux Heat

```
S 0 Y2 G C U
S 0 O/B Y E
L/A A W
W K R
Rc
```

**1H/1C HEAT PUMP WITHOUT AUX HEAT.**

COMPATIBLE T6 MODELS:
- TH6210U2001
- TH6220U2000
- TH6320U2008

**COMMON OPTIONAL**

```
M36891
```

---

1 COMMON OPTIONAL TO THERMOSTAT.

```
HONEYWELL V8043 ZONE VALVES
```

**COMMON OPTIONAL TO THERMOSTAT.**

```
M36892
```

---

L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.

```
SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
```

---

DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS!

```
THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.
```

```
M36893
```
2H/1C: Heat Pump with Electric Aux Heat

COMPATIBLE T6 MODELS:
- TH6210U2001 (NO AUX HEAT LOCKOUT)
- TH6220U2000
- TH6320U2008

COMMON OPTIONAL.

L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.

SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.

DIFFERENT HEAT PUMP MODELS LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE.

IF LOCKOUT OF AUX HEAT ON HIGH OUTDOOR TEMPERATURE IS REQUIRED, WIRE C7089U1006 TO THE TWO “S” TERMINALS. TH6210U MODEL CANNOT DO AUX HEAT LOCKOUT.

MOST HEAT PUMPS SHARE THE SAME SET OF HEAT STRIPS FOR AUX AND EM HEAT. IN THOSE CASES E ISN’T USED. THE TH6320U2008 MODEL CAN BE CONFIGURED FOR SEPARATE AUX AND E. IF THIS IS DONE, WIRE ONE SET OF STRIPS TO E TO BE ENERGIZED IN EM HEAT AND A DIFFERENT SET OF STRIPS TO AUX TO BE ENERGIZED IN AUX HEAT.

DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.

2H/2C: Heat Pump without Aux Heat

COMPATIBLE T6 MODELS:
- TH6320U2008

COMMON OPTIONAL.

L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.

SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.

DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.
3H/2C Heat Pump with Electric Aux Heat

3H/2C HEAT PUMP WITH ELECTRIC AUX HEAT.
COMPATIBLE T6 MODELS: TH6320U2008

R/Rc SWITCH UP

HEAT PUMP/AIR-HANDLER

COMMON OPTIONAL.
L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
DIFFERENT HEAT PUMP MODELS LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE.
IF LOCKOUT OF AUX HEAT ON HIGH OUTDOOR TEMPERATURE IS REQUIRED, WIRE C7089U1006 TO THE TWO “S” TERMINALS.
MOST HEAT PUMPS SHARE THE SAME SET OF HEAT STRIPS FOR AUX AND EM HEAT. IN THOSE CASES E ISN’T USED. THE TH6320U2008 MODEL CAN BE CONFIGURED FOR SEPARATE AUX AND E. IF THIS IS DONE, WIRE ONE SET OF STRIPS TO E TO BE ENERGIZED IN EM HEAT AND A DIFFERENT SET OF STRIPS TO AUX TO BE ENERGIZED IN AUX HEAT.
DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.

Dual Fuel, 2H/1C: Heat Pump

DUAL FUEL 2H/1C HEAT PUMP
COMPATIBLE T6 MODELS: TH6220U2000, TH6320U2008

R/Rc SWITCH UP

FURNACE/HEAT PUMP

COMMON OPTIONAL.
L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
DIFFERENT HEAT PUMP MODELS LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE.
WIRE C7089U1006 TO THE TWO “S” TERMINALS.
DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.
Dual Fuel, 3H/2C: Heat Pump

- **DUAL FUEL 3H/2C HEAT PUMP**

  - **COMPATIBLE T6 MODELS:** TH6320U2008

**Note:**
- **COMMON OPTIONAL.**
- **L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.**
- **SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.**
- **DIFFERENT HEAT PUMP MODELS LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE.**
- **WIRE C7089U1006 TO THE TWO “S” TERMINALS.**
- **DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS!** THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.

M36696