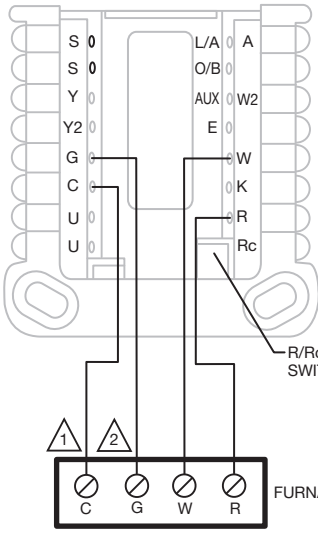
Honeywell

T6 Pro Wi-Fi Wiring Diagrams

ADDENDUM

WIRING DIAGRAMS

Heat only: Gas or Oil Furnace



HEAT ONLY.
GAS OR OIL FURNACE.

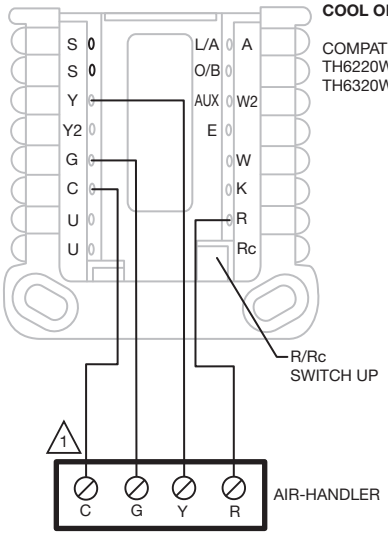
COMPATIBLE T6 MODELS:
TH6220WF2006
TH6320WF2003

1 COMMON REQUIRED.

2 G USED FOR INDEPENDENT FAN CONTROL ONLY. MOST HEAT ONLY, GAS OR OIL FORCED AIR SYSTEMS DO NOT USE A FAN (G) WIRE.

M36897A

Cool only



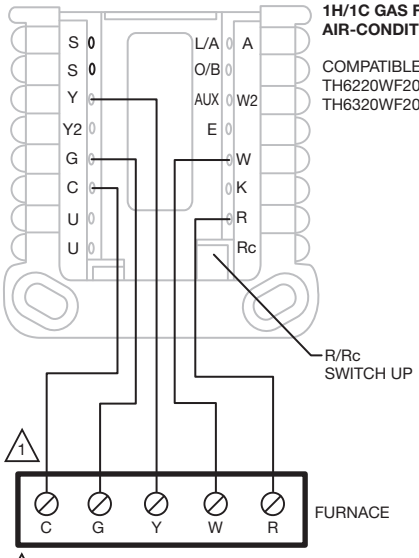
COOL ONLY.

COMPATIBLE T6 MODELS:
TH6220WF2006
TH6320WF2003

1 COMMON REQUIRED.

M36898A

1H/1C: Gas Furnace



1H/1C GAS FURNACE + AIR-CONDITIONING.

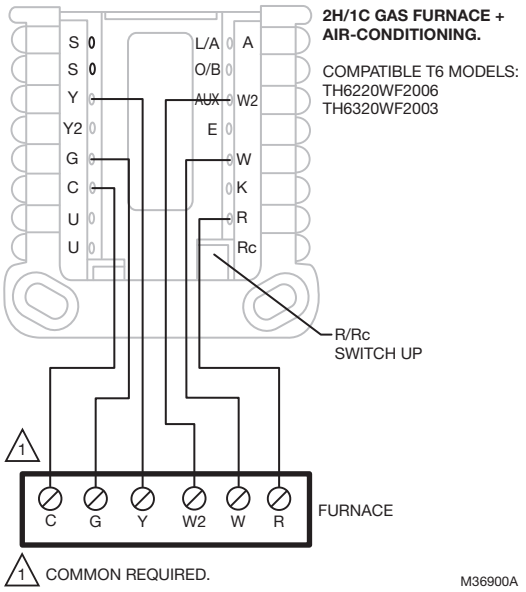
COMPATIBLE T6 MODELS:
TH6220WF2006
TH6320WF2003

1 COMMON REQUIRED.

M36899A

33-00324-03

2H/1C: Gas Furnace

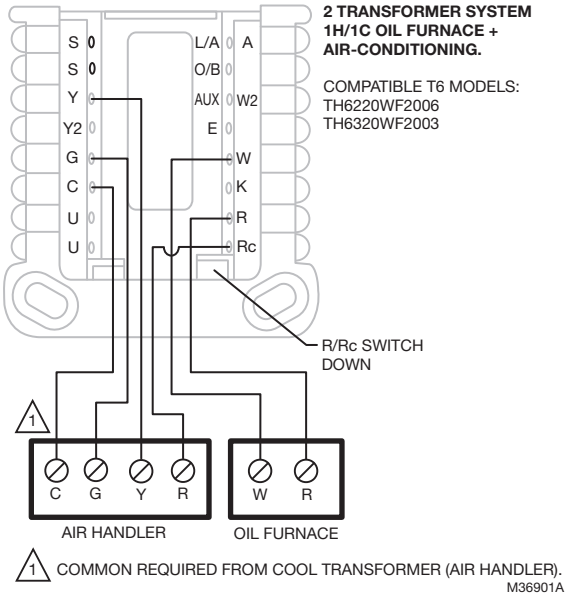


2H/1C GAS FURNACE + AIR-CONDITIONING.

COMPATIBLE T6 MODELS:
TH6220WF2006
TH6320WF2003

M36900A

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

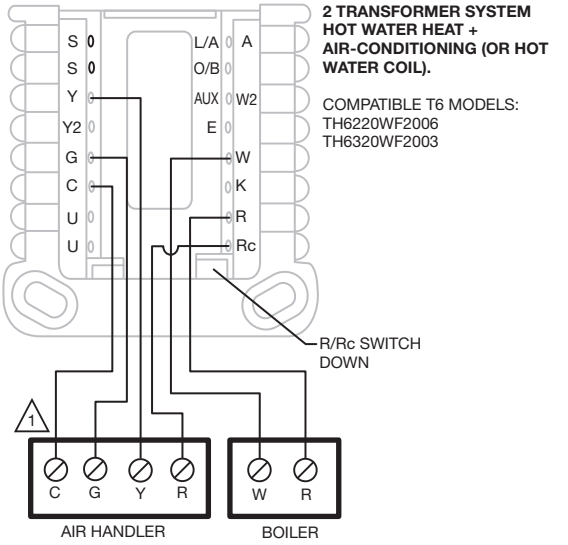


2 TRANSFORMER SYSTEM 1H/1C OIL FURNACE + AIR-CONDITIONING.

COMPATIBLE T6 MODELS:
TH6220WF2006
TH6320WF2003

M36901A

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

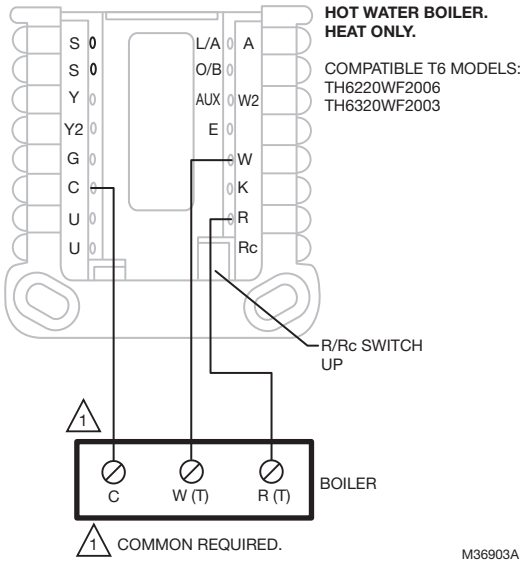


2 TRANSFORMER SYSTEM HOT WATER HEAT + AIR-CONDITIONING (OR HOT WATER COIL).

COMPATIBLE T6 MODELS:
TH6220WF2006
TH6320WF2003

M36902A

Hot Water Boiler, Heat Only

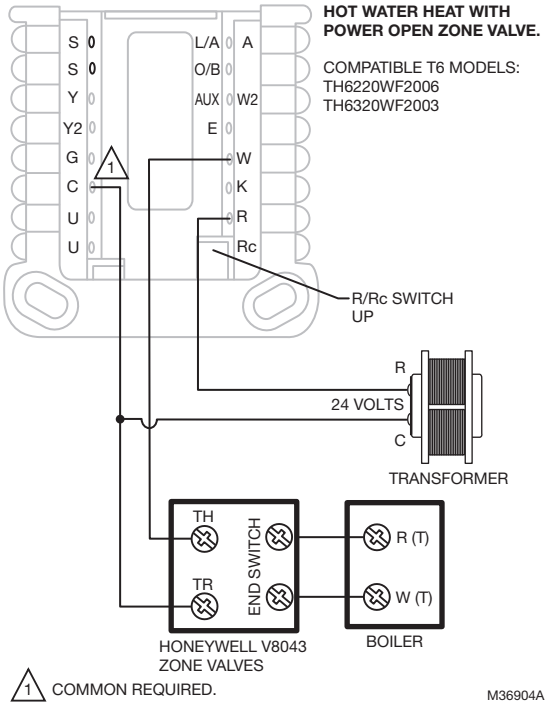


HOT WATER BOILER. HEAT ONLY.

COMPATIBLE T6 MODELS:
TH6220WF2006
TH6320WF2003

M36903A

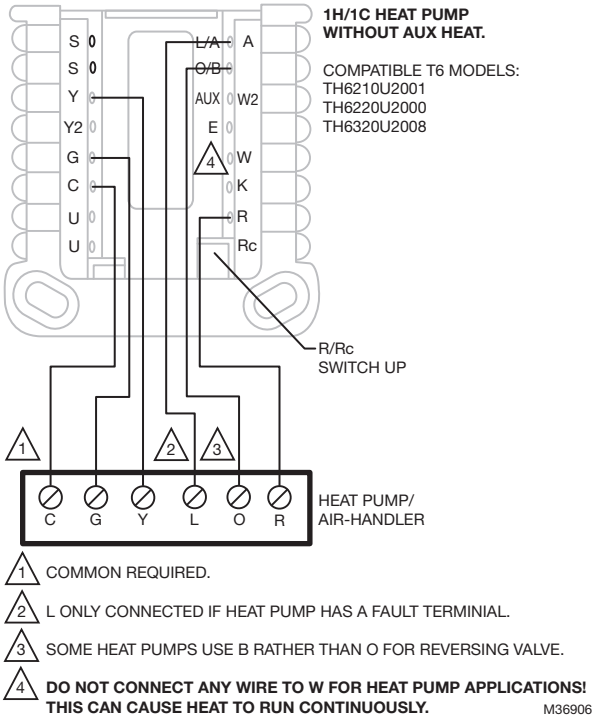
Hot Water Heat with Power Open Zone Valve



HOT WATER HEAT WITH POWER OPEN ZONE VALVE.

COMPATIBLE T6 MODELS:
TH6220WF2006
TH6320WF2003

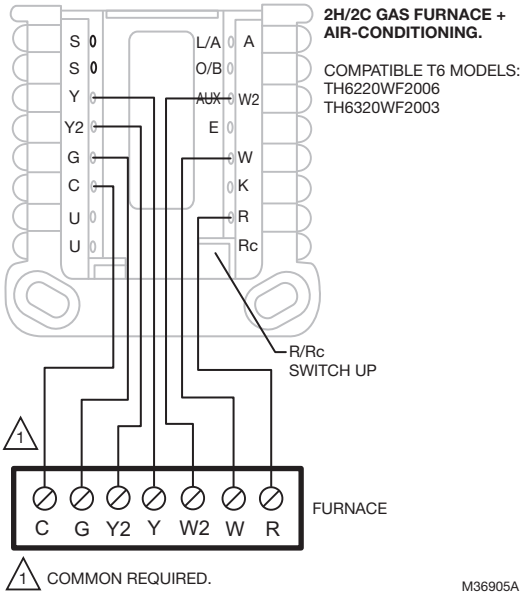
1H/1C: Heat Pump without Aux Heat



1H/1C HEAT PUMP WITHOUT AUX HEAT.

COMPATIBLE T6 MODELS:
TH6210U2001
TH6220U2000
TH6320U2008

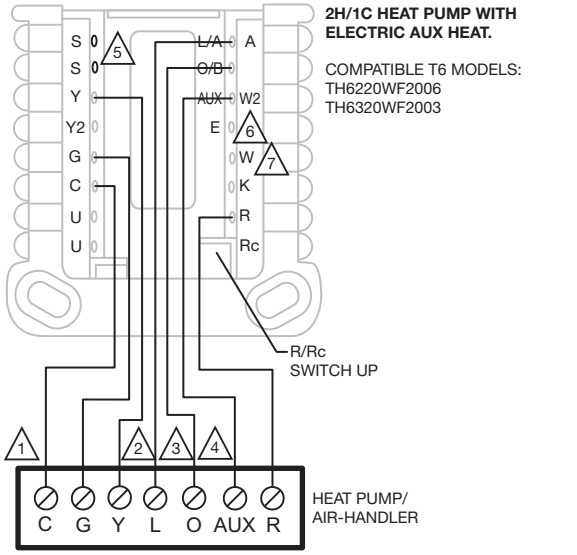
2H/2C: Gas Furnace



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

COMPATIBLE T6 MODELS:
TH6220WF2006
TH6320WF2003

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



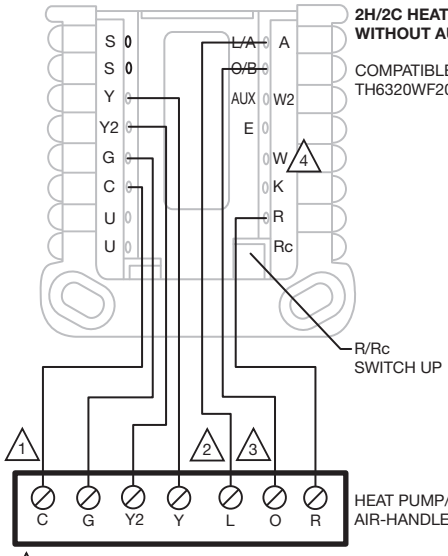
2H/1C HEAT PUMP WITH ELECTRIC AUX HEAT.

COMPATIBLE T6 MODELS:
TH6220WF2006
TH6320WF2003

1. COMMON REQUIRED.
2. L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
3. SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
4. DIFFERENT HEAT PUMP MODELS LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE.
5. LOCKOUT OF AUX HEAT ON HIGH OUTDOOR TEMPERATURE CAN BE DONE THROUGH ROUTER/INTERNET CONNECTION AND HOME APP OR WIRE C7089U1006 TO THE TWO "S" TERMINALS.
6. MOST HEAT PUMPS SHARE THE SAME SET OF HEAT STRIPS FOR AUX AND EM HEAT. IN THOSE CASES E ISN'T USED. THE TH320WF2006 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.
7. **DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.**

M36907A

2H/2C: Heat Pump without Aux Heat



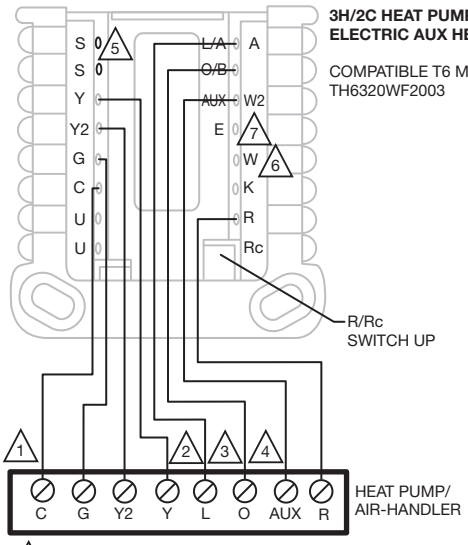
2H/2C HEAT PUMP WITHOUT AUX HEAT.

COMPATIBLE T6 MODELS:
TH6320WF2003

1. COMMON REQUIRED.
2. L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINIAL.
3. SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
4. **DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.**

M36908A

3H/2C Heat Pump with Electric Aux Heat



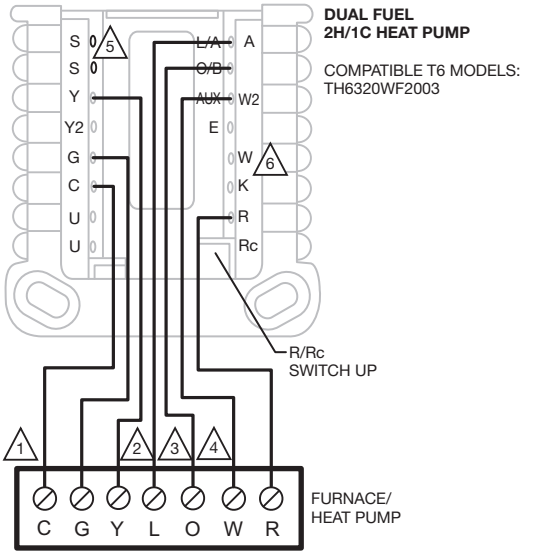
3H/2C HEAT PUMP WITH ELECTRIC AUX HEAT.

COMPATIBLE T6 MODELS: TH6320WF2003

1. COMMON REQUIRED.
2. L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
3. SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
4. DIFFERENT HEAT PUMP MODELS LABEL THE AUXILIARY HEAT TERMINAL DIFFERENTLY THAN SHOWN. CONSULT HEAT PUMP WIRING GUIDE.
5. LOCKOUT OF AUX HEAT ON HIGH OUTDOOR TEMPERATURE CAN BE DONE THROUGH ROUTER/INTERNET CONNECTION AND HOME APP OR WIRE C7089U1006 TO THE TWO "S" TERMINALS.
6. **DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.**
7. MOST HEAT PUMPS SHARE THE SAME SET OF HEAT STRIPS FOR AUX AND EM HEAT. IN THOSE CASES E ISN'T USED. THE TH6320WF2006 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.

M36909A

Dual Fuel, 2H/1C: Heat Pump



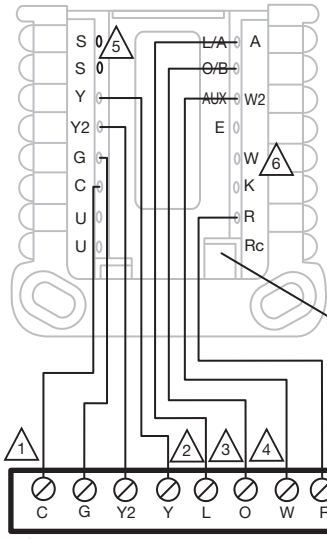
DUAL FUEL 2H/1C HEAT PUMP

COMPATIBLE T6 MODELS: TH6320WF2003

1. COMMON REQUIRED.
2. L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
3. SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
4. THE HEAT PUMP AND FURNACE HAVE SEPARATE BOARDS. WE SHOW THEM TOGETHER TO SIMPLIFY THE DIAGRAM. W IS FROM THE FURNACE BOARD.
5. BALANCE POINT LOCKOUT CAN BE DONE THROUGH ROUTER/ INTERNET CONNECTION AND HOME APP OR WIRE C7089U1006 TO THE TWO "S" TERMINALS.
6. **DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.**

M36910B

Dual Fuel, 3H/2C: Heat Pump



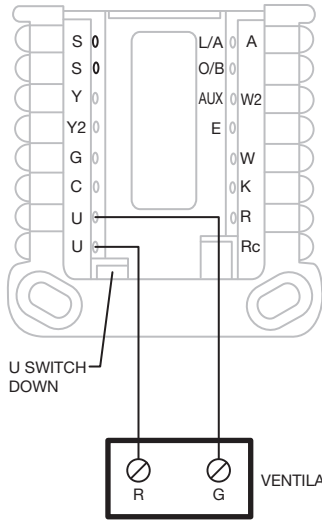
DUAL FUEL 3H/2C HEAT PUMP

COMPATIBLE T6 MODELS: TH6320WF2003

1. COMMON REQUIRED.
2. L ONLY CONNECTED IF HEAT PUMP HAS A FAULT TERMINAL.
3. SOME HEAT PUMPS USE B RATHER THAN O FOR REVERSING VALVE.
4. THE HEAT PUMP AND FURNACE HAVE SEPARATE BOARDS. WE SHOW THEM TOGETHER TO SIMPLIFY THE DIAGRAM. W IS FROM THE FURNACE BOARD.
5. LOCKOUT OF AUX HEAT ON HIGH OUTDOOR TEMPERATURE CAN BE DONE THROUGH ROUTER/INTERNET CONNECTION AND HOME APP OR WIRE C7089U1006 TO THE TWO "S" TERMINALS.
6. **DO NOT CONNECT ANY WIRE TO W FOR HEAT PUMP APPLICATIONS! THIS CAN CAUSE HEAT TO RUN CONTINUOUSLY.**

M36911A

ERV or HRV Whole House Ventilator with Built In Transformer



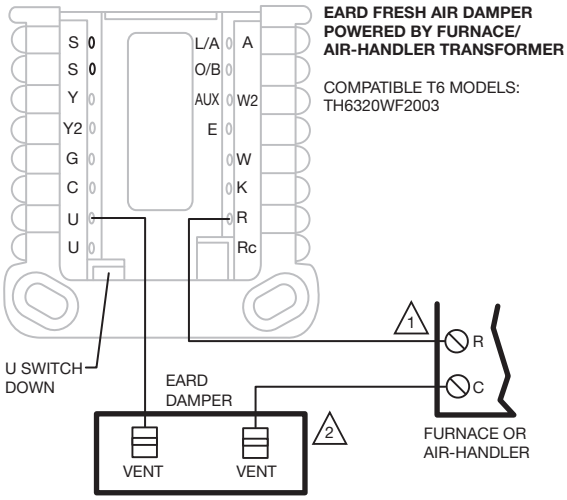
ERV OR HRV WHOLE HOUSE VENTILATOR WITH BUILT IN TRANSFORMER

COMPATIBLE T6 MODELS: TH6320WF2003

1. SEE DIAGRAMS ON PAGES 1-4 FOR HEAT/COOL SYSTEM WIRING.
2. TERMINAL LABELS VARY BY VENT MAKE/MODEL. ON THE HONEYWELL TRUEFRESH VENTILATORS THEY ARE LABELED R AND G AS SHOWN.

M36912A

EARD Fresh Air Damper Powered by Furnace/Air-Handler Transformer



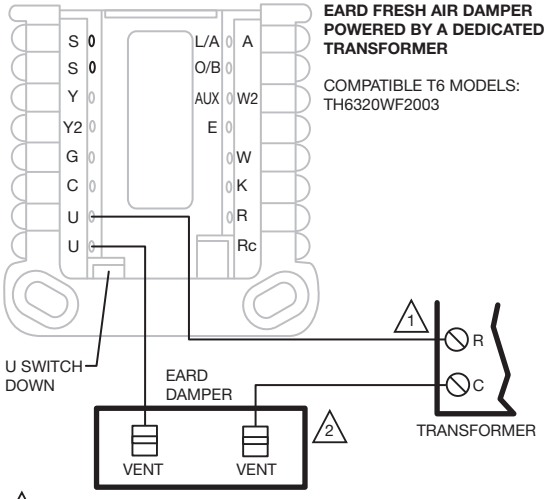
EARD FRESH AIR DAMPER POWERED BY FURNACE/ AIR-HANDLER TRANSFORMER

COMPATIBLE T6 MODELS: TH6320WF2003

1. SEE DIAGRAMS ON PAGES 1-4 FOR HEAT/COOL SYSTEM WIRING.
2. EARD DAMPERS USE APPROX. 8 VA. FOLLOW DIAGRAM WITH SEPARATE TRANSFORMER IF FURNACE TRANSFORMER NOT SIZED TO HANDLE ADDITIONAL LOAD.

M36913A

EARD Fresh Air Damper Powered by a Dedicated Transformer



EARD FRESH AIR DAMPER POWERED BY A DEDICATED TRANSFORMER

COMPATIBLE T6 MODELS: TH6320WF2003

1. SEE DIAGRAMS ON PAGES 1-4 FOR HEAT/COOL SYSTEM WIRING.
2. EARD DAMPERS USE APPROX. 8 VA. SEE TRANSFORMER INSTRUCTIONS FOR WIRING PRIMARY WIRES TO UTILITY POWER.

M36914A

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