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# simple™

C-WIRE ADAPTER MODULE

**Installation Guide**

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## Introduction

The Simple thermostat supports supports 2 heating stages and 2 cooling stages for conventional systems, and 2 heating/cooling stages for heat pumps, with or without emergency heat.

A common wire (C wire) or other 24VAC power source is required. This C-Wire Adapter Module can be used to add a common connection to your system.

**WARNING:** Line voltage and millivolt systems are not supported.

Common wiring configurations found in houses covered in this guide are:

- 4 wire Heating and Cooling with Fan Control - RH/RC, W, Y, G
- 3 wire A/C with Fan Control - RH/RC, Y, G
- 2 wire Heat Only - RH/RC, W

To perform the installation, you will need:

- Small phillips screwdriver
- Small standard screwdriver

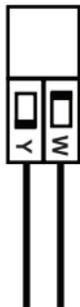
A digital version of this guide complete with pictures may be found under the Installation section of: <https://www.thesimple.com/support>

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## In the Box

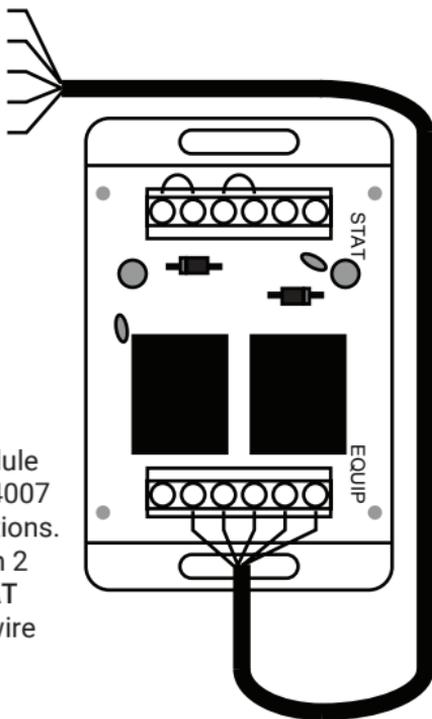
Diode Pair



1N4007 Diode



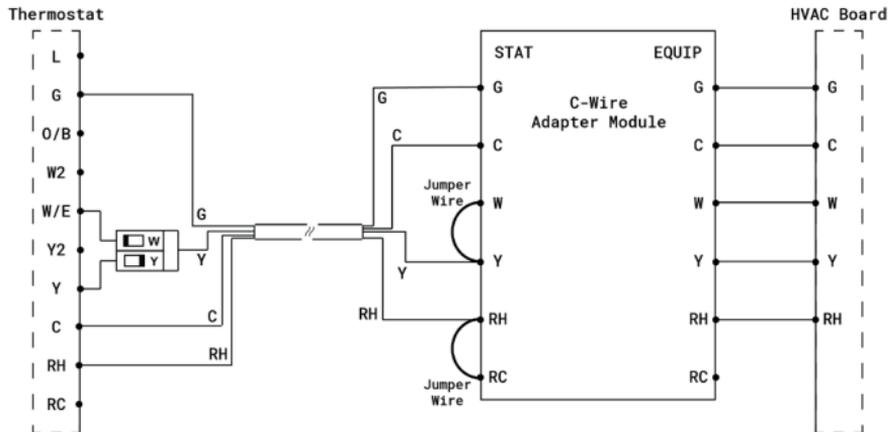
C-Wire Adapter Module



The diode pair and C-Wire Adapter Module are used for all configurations. The 1N4007 diode is only used for 2 wire configurations. The C-Wire Adapter Module comes with 2 metal jumpers pre-installed on the STAT side. These jumpers are not used in 2 wire configurations.

## 4 wire A/C and Heating with Fan Control

### Wiring Diagram:



### At the thermostat wall plate:

1. Shut off power to the thermostat and remove it from the wall.
2. Take a picture of the wiring to use as a reference.
3. Disconnect the existing wires and attach the appropriate wire labels included in the thermostat's box.
4. Remove the old thermostat wall plate and install the Simple thermostat's wall plate.

### At the thermostat wall plate, follow the Wiring Diagram:

1. Insert and secure your original RH, RC, or R wire into the RH terminal on the wall plate.
2. Insert and secure your original G wire into the G terminal.
3. Insert and secure your original W wire into the C terminal.
4. Insert your Y wire into the top of the diode pair; secure the set screw.
5. Insert and secure the W lead of the diode pair into the W/E terminal.
6. Insert and secure the Y lead of the diode pair into the Y terminal.

WARNING: Do not cross the diode pair leads, or system damage may occur when energized.

### At the HVAC Control Panel:

1. Shut off power to the control panel and remove its door.
2. Take a picture of the wiring to use as a reference.
3. Remove your C-Wire Adapter Module from its box, and take off the top panel.
4. There are two jumpers on the side labeled **STAT**. ***Do not remove them.***
5. Mount the C-Wire Adapter Module to the system panel's wall, near the control board. The module is pre-wired on the **EQUIP** side.

**At the C-Wire Adapter Module, follow the STAT side of the Wiring Diagram:**

1. Remove the **R** wire from the control panel. Insert and secure it into the **RH** terminal of the **STAT** side of the module.
2. Remove the **Y** wire from the control panel. Insert and secure it into the **Y** terminal of the **STAT** side of the module.
3. Remove the **W wire** from the control panel. Insert and secure it into the **C terminal** of the **STAT** side of the module.
4. Remove the **G** wire from the control panel. Insert and secure it into the **G** terminal of the **STAT** side of the module.

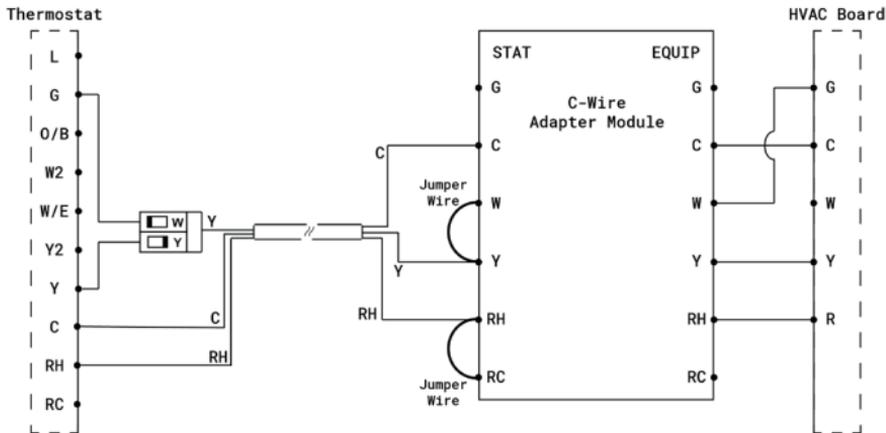
**At the HVAC control panel, follow the EQUIP side of the Wiring Diagram:**

1. Your C-Wire Adapter Module comes pre-wired on the **EQUIP** side. Strip approximately 1 cm of the sheathing off each wire.
2. Take the **RH** wire from the **EQUIP** side of the module. Insert and secure it into the **R** terminal of the control panel.
3. Take the **Y** wire from the **EQUIP** side of the module. Insert and secure it into the **Y** terminal of the control panel.
4. Take the **W** wire from the **EQUIP** side of the module. Insert and secure it into the **W** terminal of the control panel.
5. Take the **G** wire from the **EQUIP** side of the module. Insert and secure it into the **G** terminal of the control panel.
6. Take the **C** wire from the **EQUIP** side of the module. Insert and secure it into the **C** terminal of the control panel.

Replace the C-Wire Adapter Module's cover, close the control panel door, and turn on the system's power to continue with your installation.

## 3-Wire A/C and Fan Control

### Wiring Diagram:



### At the thermostat wall plate:

1. Shut off power to the thermostat and remove it from the wall.
2. Take a picture of the wiring to use as a reference.
3. Disconnect the existing wires and attach the appropriate wire labels included in the thermostat's box.
4. Remove the old thermostat wall plate and install the Simple thermostat's wall plate.

## At the thermostat wall plate, follow the Wiring Diagram:

1. Insert and secure your original RH, RC, or R wire into the RH terminal on the wall plate.
2. Insert and secure your original G wire into the C terminal.
3. Insert your Y wire into the top of the diode pair; secure the set screw.
4. Insert and secure the W lead of the diode pair into the G terminal.
5. Insert and secure the Y lead of the diode pair into the Y terminal.

WARNING: Do not cross the diode pair leads, or system damage may occur when energized.

## At the HVAC Control Panel:

1. Shut off power to the control panel and remove its door.
2. Take a picture of the wiring to use as a reference.
3. Remove your C-Wire Adapter Module from its box, and take off the top panel.
4. There are two jumpers on the side labeled **STAT**. **Do not remove them.**
5. Mount the C-Wire Adapter Module to the system panel's wall, near the control board. The module is pre-wired on the **EQUIP** side.

**At the C-Wire Adapter Module, follow the STAT side of the Wiring Diagram:**

1. Remove the R wire from the control panel. Insert and secure it into the RH terminal of the **STAT** side of the module.
2. Remove the Y wire from the control panel. Insert and secure it into the Y terminal of the **STAT** side of the module.
3. Remove the G wire from the control panel. Insert and secure it into the C terminal of the **STAT** side of the module.

**At the HVAC control panel, follow the EQUIP side of the Wiring Diagram:**

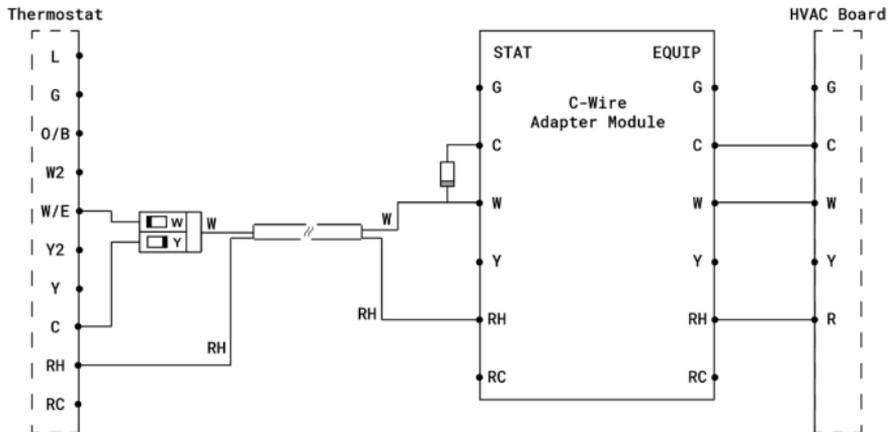
1. Your C-Wire Adapter Module comes pre-wired on the **EQUIP** side. Strip approximately 1 cm of the sheathing off the red, white, blue, and yellow wires. Wrap the unused green wire out of the way.
2. Take the W wire from the **EQUIP** side of the module. Insert and secure it into the G terminal of the control panel.
3. Take the RH wire from the **EQUIP** side of the module. Insert and secure it into the R terminal of the control panel.
4. Take the Y wire from the **EQUIP** side of the module. Insert and secure it into the Y terminal of the control panel.
5. Take the C wire from the **EQUIP** side of the module. Insert and secure it into the C terminal of the control panel.

Replace the C-Wire Adapter Module's cover, close the control panel door, and turn on the system's power to continue with your installation.

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## 2-wire Heat Only

### Wiring Diagram:



### At the thermostat wall plate:

1. Shut off power to the thermostat and remove it from the wall.
2. Take a picture of the wiring to use as a reference.
3. Disconnect the existing wires and attach the appropriate wire labels included in the thermostat's box.
4. Remove the old thermostat wall plate and install the Simple thermostat's wall plate.

### At the thermostat wall plate, follow the Wiring Diagram:

1. Insert and secure your original RH, RC, or R wire and G wire into their correspondingly labeled terminals on the wall plate.
2. Insert your W wire into the top of the diode pair; secure the set screw.
3. Insert and secure the W lead of the diode pair into the W/E terminal.
4. Insert and secure the Y lead of the diode pair into the C terminal.

WARNING: Do not cross the diode pair leads, or system damage may occur when energized.

### At the HVAC Control Panel:

1. Shut off power to the control panel and remove its door.
2. Take a picture of the wiring to use as a reference.
3. Remove your C-Wire Adapter Module from its box, and take off the top panel.
4. There are two jumpers on the unwired side labeled STAT. **Remove them.**
5. Mount the C-Wire Adapter Module to the system panel's wall, near the control board. The module is pre-wired on the EQUIP side.

**At the C-Wire Adapter Module, follow the STAT side of the Wiring Diagram:**

1. Remove the **R** wire from the control panel. Insert and secure it into the **RH** terminal of the **STAT** side of the module.
2. Remove the **W** wire from the control panel. Insert and secure it into the **W** terminal of the **STAT** side of the module.
3. Retrieve the 1N4007 diode. Insert and secure the lead with the silver band into the **W** terminal of the **STAT** side of the module. Insert and secure the other lead into the **C** terminal of the **STAT** side of the module.

**At the HVAC control panel, follow the EQUIP side of the Wiring Diagram:**

1. Your C-Wire Adapter Module comes pre-wired on the **EQUIP** side. Strip approximately 1 cm of the sheathing off the red, white, and blue wires. Wrap the unused green and yellow wires out of the way.
2. Take the **RH** wire from the **EQUIP** side of the module. Insert and secure it into the **R** terminal of the control panel.
3. Take the **W** wire from the **EQUIP** side of the module. Insert and secure it into the **W** terminal of the control panel.
4. Take the **C** wire from the **EQUIP** side of the module. Insert and secure it into the **C** terminal of the control panel.

Replace the C-Wire Adapter Module's cover, close the control panel door, and turn on the system's power to continue with your installation.

