

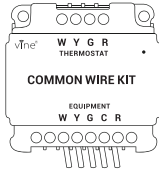
TJ-A01

Thermostat Common Wire Kit

Installation Instruction

vTne

▲ IMPORTANT: Read entire instructions before starting the thermostat.



If there is no common wire (C) on your existing thermostat, and there is no spare wire available, the wire extender is needed or a new wire may be installed from the HVAC to Common Wire Kit. (See the Fig.1)

Contents

Contents	Quantity
Common Wire Kit	1
Diode 'Y'	1
Wire nuts	2
5 Parallel Wires	1
User manual	1

WARNING

!	HAZARD OF ELECTRICAL SHOCK The following installation procedure should be performed by qualified personnel:
!	Knowledgeable about and licensed in accordance with local electrical installation code requirements.
!	Able to read, interpret, and follow the instructions and precautions provided.
!	Trained on the operation and fundamentals of residential HVAC apparatus, and familiar with the associated hazards.
!	Failure to follow these instructions can result in personal injury and/or damage to Common Wire Kit.
!	Before installing Thermostat Common Wire Kit, turn off all power to the unit. There may be more than one power disconnect. Electrical shock can cause injury or death.
!	NOTE: Take a photograph of the initial wiring of the HVAC system to use as a reference and to help prevent wiring mishaps during the installation process.

INSTALLATION

Step1 LOCATION

The Thermostat Common Wire Kit can be mounted inside the HVAC unit or inside the control box. The Thermostat Common Wire Kit should not be installed in a location where the accessory or wiring may be exposed to the elements. Wires running from accessory are 9-in. Long. Thermostat Common Wire Kit should be within 9-in. Of thermostat connections to HVAC terminal block. If required, use 3M double-sided adhesive to attach the wiring harness to a flat surface (for example, the furnace casing).

Step2 WIRING REQUIREMENTS

The Thermostat Common Wire Kit wiring has the following requirements:

- All system wiring must be in compliance with all applicable local and national codes.
- All wiring should be color coded in conformance with standard recommendations.

Step3 ACCESSORY WIRING

Firstly, connect one side of 5 Parallel wires to the Common Wire Kit according to the terminals of W,Y,G,C, R terminals.

The Thermostat Common Wire Kit wiring has the following requirements:

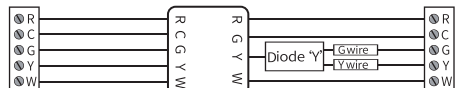
Depending on the application and the usage of the Thermostat Common Wire Kit, wiring will vary. Refer to the below wiring diagrams for more information on wiring the accessory.

- DO NOT connect 5pin terminal G, Y, or W wires of the Common Wire Kit to the R and C terminals of the HVAC unit, damage may result.
- Do not connect the G and Y wires of the Diode 'Y' to the R or C terminal of the thermostat.
- The 4pin terminal G wire of the Common Wire Kit must always be connected to the C terminal of the thermostat.
- The 4pin terminal Y wire of the Common Wire Kit must always be connected to the BLUE wire of the Diode 'Y' through the wire nuts.
- The G and Y wires of the Diode 'Y' should be regarded as extensions of the G and Y wires of the HVAC unit. For example, if the G wire on the Diode 'Y' is connected to terminal W on the thermostat to control heat, the 5pin terminal G wire of the Common Wire Kit must be connected to W on the HVAC unit to control heat.
- The wiring diagrams are examples of the uses of the Thermostat Common Wire Kit. Each example may have more than one method of connection that will work. An experienced installer may use different combinations to achieve desired results.

SAMPLE WIRE DIAGRAMS

HVAC SYSTEM

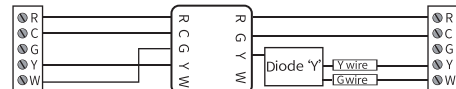
THERMOSTAT



4 existing wires with Common Wire Kit to accommodate thermostat that requires 5 wires.

HVAC SYSTEM

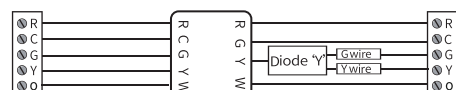
THERMOSTAT



3 existing wires with Common Wire Kit to accommodate thermostat has heating and cooling, not fan control.

HVAC SYSTEM

THERMOSTAT



4 existing wires with Common Wire Kit to accommodate a single stage heat pump.