## Mazda CX-50 Trailer **Hitch** User Guide



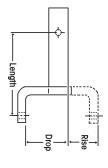
# Congratulations on Your Purchase of a Genuine Mazda Trailer Hitch

owner's manual when properly attached and secured your CX-50 to safely tow up to weights shown in the vehicle Your new trailer hitch has been specifically designed for

wire harness kit is for use in the US, CANADA and MEXICO only. being able to accommodate up to 9 amps of current draw. Trailer lighting converter. The supplied converter is designed to an industry standard, This trailer towing system is also equipped with a trailer lighting power

## The A-B-C's of Draw Bars and Ball Mounts

drop to suit your particular application. accept a class II mount with a precise rise or best fitting ball mount. Ball mounts vary by One way to even out a load is to select the measurements. Your CX-50 receiver hitch will weight rating, shaft length and rise / drop



## **A WARNING**

Selecting the proper ball mount for your towing application is important. For best towing, your trailer should always be set up to tow on a level plane.

## center of the retaining pin-hole. Ensure that there is no risk of trailer-coupler Ball Mount Length The ball mount length is the distance from the center of the ball hole to the

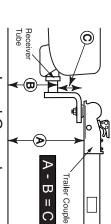
### Ball Mount Rise

contact with the CX-50 bumper.

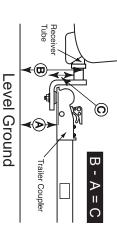
- A = Distance from the ground to bottom of trailer coupler
- B = Distance from ground to top I.D of the receiver tube opening
- C = Amount of rise necessary to keep the trailer level

## Ball Mount Drop

- A = Distance from the ground to bottom of trailer coupler
- B = Distance from ground to top I.D of the receiver tube opening
- C = Amount of drop necessary to keep the trailer level



Level Ground



## 7-way Trailer Lighting Power Converter (Turbo)

electrical connector to accommodate standard trailer lighting. This converter is designed to an industry standard and is fused with a 15 amp fuse Included with your trailer hitch is a power converter with a 7-way flat

## **Overload Protection**

turn signals will continue to function normally. After power is removed (lights trailer lights on the marker lights and left / right brake lights and turn signals. turned off) for several minutes, the power converter will reset itself For example, if the marker lights draw excessive current, the brake lights and The power converter has separate protection of 9 amps per output channel to

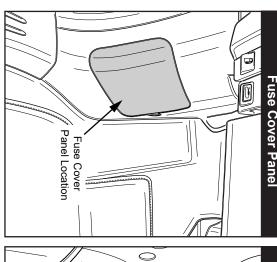


lighting power converter inoperable. In this case, all trailer lighting will become inoperable and one should proceed to the troubleshooting guide on the back of this card. system could result in a blown fuse and render the Exceeding the 15 amp max limit on the trailer lighting

## Additional Assistance

Please reference the vehicle owner's manual or visit your local by referring to the troubleshooting guide on the back of this card. Electrical problems other than those listed above may be resolved Mazda dealer for additional information concerning the trailer hitch

Fuse Relay Box



Remove fuse relay box cover panel from underneath the dashboard on the driver side of the vehicle.

> labeled ESCL of the fuse relay box. 15 amp fuse will be located in cavity

VA40-V3-920 Rev A

05/19/2021

## 4-way Trailer Lighting Power Converter (Non-Turbo)

electrical connector to accommodate standard trailer lighting. This converter is designed to an industry standard and is fused with a 15 amp fuse Included with your trailer hitch is a power converter with a 4-way flat

## **Overload Protection**

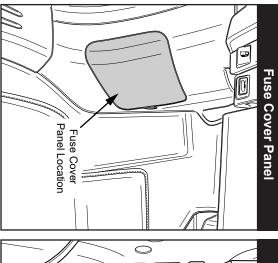
turn signals will continue to function normally. After power is removed (lights trailer lights on the marker lights and left / right brake lights and turn signals. turned off) for several minutes, the power converter will reset itself. For example, if the marker lights draw excessive current, the brake lights and The power converter has separate protection of 9 amps per output channel to

## **▲WARNING**

lighting power converter inoperable. In this case, all trailer to the troubleshooting guide on the back of this card system could result in a blown fuse and render the Exceeding the 15 amp max limit on the trailer lighting lighting will become inoperable and one should proceed

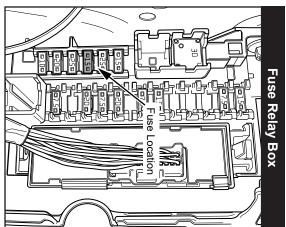
## Additional Assistance

Please reference the vehicle owner's manual or visit your local by referring to the troubleshooting guide on the back of this card Mazda dealer for additional information concerning the trailer hitch Electrical problems other than those listed above may be resolved



ocation

Remove fuse relay box cover panel from underneath the dashboard on the driver side of the vehicle.



labeled ESCL of the fuse relay box. 15 amp fuse will be located in cavity

VA40-V3-920 Rev A

05/19/2021

### 7-WAY TROUBLESHOOTING GUIDE (TURBO)

PART NUMBER:

VS40-V3-920

### 7-WAY TRAILER HITCH WIRING KIT

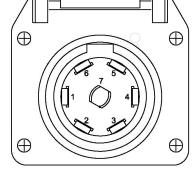
APPLICABLE MODELS: 2022 > CX-50

### **TOOLS REQUIRED:**

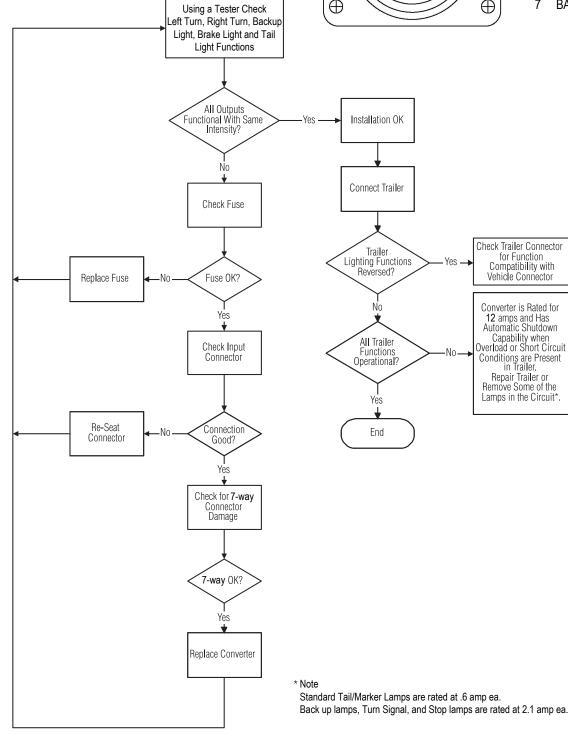
**TEST LIGHT** 

### METHOD:

- 1. Insert Tester into 7-way trailer connector.
- 2. Confirm individual circuit operations.



- LH STOP/TURN YELLOW 1 2 GROUND (-) WHITE 3 **ELECTRIC BRAKES BLUE** 4 RH STOP/TURN **GREEN** 12V BATTERY (+) RED/BLUE
- **RUNNING LAMPS BROWN** 6 **BACKUP LAMPS ORANGE**



Back up lamps, Turn Signal, and Stop lamps are rated at 2.1 amp ea.

### 4-WAY FLAT TROUBLESHOOTING GUIDE (NON-TURBO)

PART NUMBER: VS40-V3-920

4-WAY FLAT TRAILER HITCH WIRING KIT

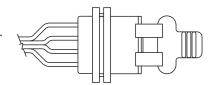
APPLICABLE MODELS: 2022 > CX-50

### **TOOLS REQUIRED:**

**TEST LIGHT** 

### METHOD:

- 1. Attach the test light ground connection to the male pin of the harness's 4-flat connector.
- Probe each of the female pins individually to confirm correct circuit operation.





Right Turn / Stop Left Turn / Stop Tail Ground Green Yellow Brown White

