

# Installation Instructions

## T-Connector



Mazda 6 Sedan and Coupe



Toyota Camry



Mazda CX-7

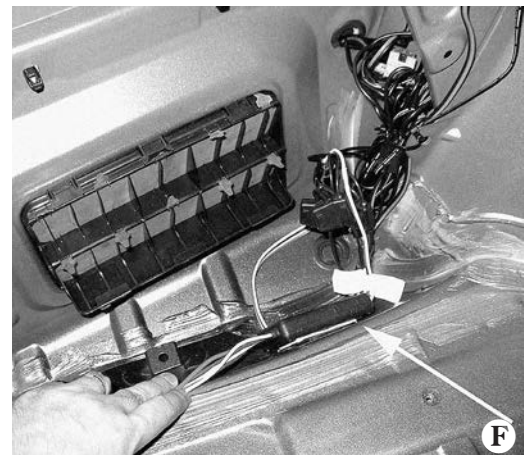
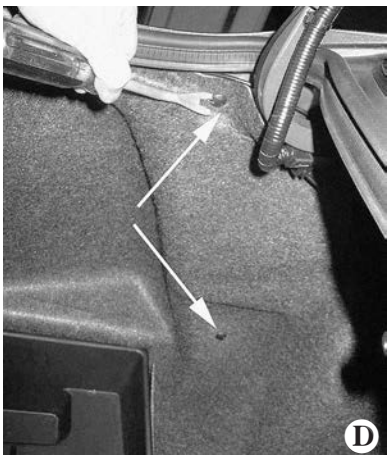


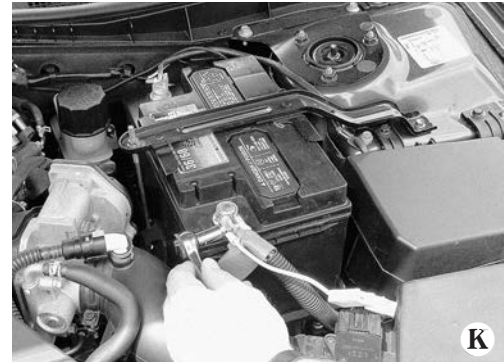
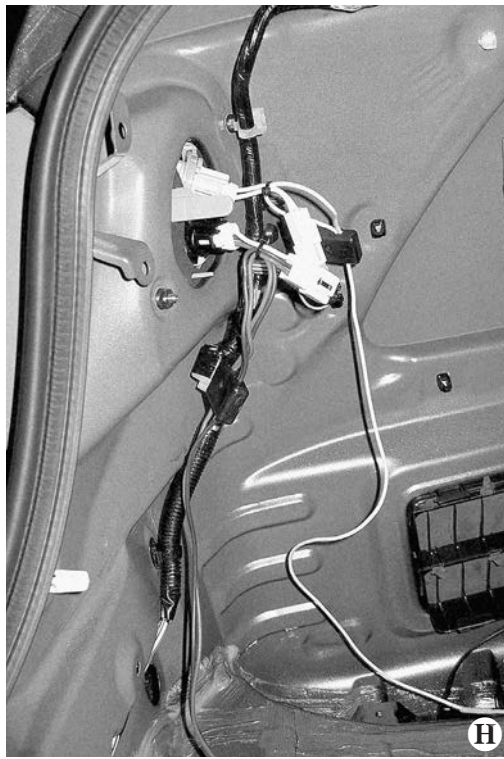
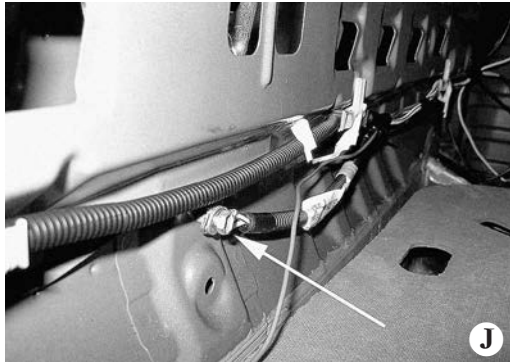
Toyota FJ Cruiser

### Mazda 6



### Toyota Camry





#### TOOLS REQUIRED:

Drill (3/32" Drill Bit), Philips Head Screwdriver, 10mm Socket & Ratchet or 10mm Wrench, Wire Crimpers, Wire Cutters, Trim Panel Remover

#### 1. Mazda 6 Sedan and Coupe

- A. Locate the vehicle wiring inside the vehicle's rear cargo area by partially removing the plastic threshold cover and felt trunk liner **A**.
- B. On the driver's side only, using a 10mm socket, remove two nuts on the back of the vehicle taillight housing. Then pull the taillight housing directly rearward to remove **B**. Separate the vehicle's wiring connectors, being careful not to break the locking tabs. Remove the taillight housing and set aside.
- C. At the driver's side taillight socket, clean an area using a mixture of rubbing alcohol and water and apply the foam-padded tape. Make sure to cover any sharp edges on the sheet metal, as shown **C**. Route approximately 2 ft (.60 meters) of the **black** 12 ga. wire into the trunk area. Route the remaining wire through the opening in the taillight socket, behind the bumper. Carefully replace the vehicle taillight housing; making sure the **black** wire is in between the taillight housing's gasket and the foam-padded tape. Make sure taillight is properly seated on alignment tap. Replace with the two 10 mm nuts removed in step B.

#### Toyota Camry

- A. Locate the vehicle wiring inside the vehicle's rear cargo area by partially removing the plastic threshold cover and felt trunk liner **D**. On the Driver's side remove the small plastic cargo tray, by removing the plastic nuts that hold it in place **D**.
- B. In the area underneath from where the plastic cargo tray was removed, locate a small rubber grommet **E**. Carefully slit the grommet and route the **black** 12 ga. wire out underneath the vehicle.

#### Mazda CX-7

- A. Locate the vehicle wiring inside the vehicle's rear cargo area by partially removing all floor coverings, cargo trays, plastic threshold cover, access panels and trim panels, being careful not to damage and clips or screws. Set aside all items removed being careful not to damage parts.
- B. On the Passenger's side, near the threshold area, locate rubber grommet. Carefully slit the grommet and route the **black** 12 ga. wire out underneath the vehicle.

#### NOTE

Toyota FJ Cruiser Instructions begin after step 9.

2. Behind the taillights, there will be connection points matching the ends of the T-Connector adapter on the back of each of the vehicle taillight housings **G H I**. On the driver's side, attach each end of the T-Connectors containing the **yellow** and the **red** wires. Ensure that the connectors are fully inserted with locking tabs in place.
3. Route the T-Connector containing the **green** wire below the threshold cover to the passenger's side taillight housing. Repeat step 4 using the T-Connector ends containing the **green** wire.
4. From inside the trunk, connect the **black** 12 ga. wire and the red wire from the T-Connector **black** box with the supplied **yellow** butt connector.
5. Locate a suitable grounding point near the connector.

#### Option 1:

Clean dirt and rustproofing from the area. Drill a 3/32" hole and secure the white wire using the eyelet and screw provided.

#### Option 2:

Locate existing ground stud. Loosen bolt, place screw eyelet on stud and re-tighten bolt **J**.

#### CAUTION

Verify what is behind any surface prior to drilling to avoid damage to the vehicle and/or personal injury. Do not drill into any exposed surfaces.

6. On the driver's side underneath the bumper, locate the **black** 12 ga. wire from Mazda 6 Sedan and Coupe step C, Toyota Camry step B and Mazda CX-7 step B. Following existing wiring, route the **black** wire into the engine compartment up to the battery **K**.

#### WARNING

Route the wire being careful to avoid any hot pipes, heat shields, the fuel tank or any other points that may pinch or break the wire.

7. Disconnect the vehicle's Negative (-) battery cable. If not removed, remove the fuse from the **yellow** fuse holder (provided). After cutting the fuse holder wire, attach the ring terminal and secure to the vehicle's Positive (+) battery cable. Connect the other end of the fuse holder to the **black** 12 ga. wire, using the **Yellow** butt connector (provided) **L**.
8. Reconnect the vehicle's Negative (-) battery cable and install the 10 amp fuse into the fuse holder from step 7 **K**.

#### WARNING

All connections must be complete for the T-Connector to function properly. Test and verify installation with a test light or trailer once installed.

9. Secure the remainder of the T-Connector harness with the cable ties provided, to prevent damage or rattling and being careful to avoid any areas that would cut or pinch the wire. On the driver's side on the floor of the rear cargo area, clean a flat area using a mixture of rubbing alcohol and water. Mount the T-Connector **black** box using double-sided tape provided. Replace the trunk threshold and felt trunk liner.

#### NOTE

Store 4-Flat in rear cargo area when not in use.



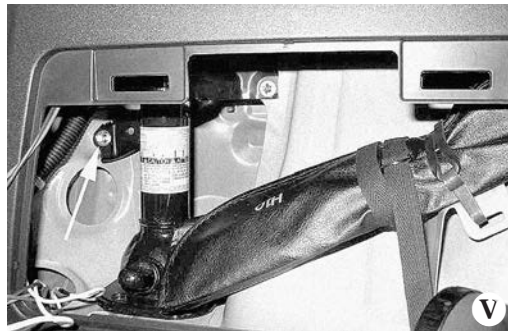
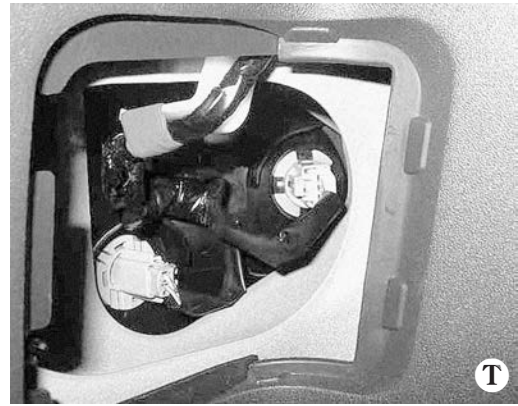
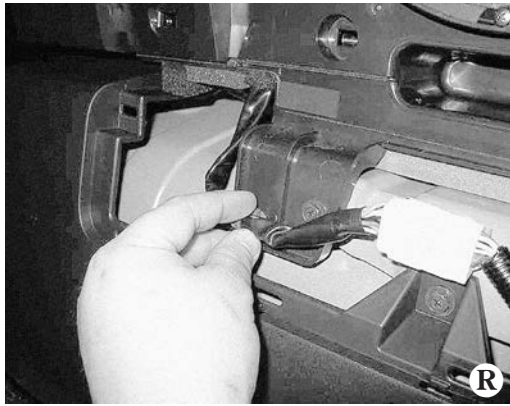
#### WARNING

Overloading circuit can cause fires. DO NOT exceed lower of towing manufacturer rating or:

- Max. stop/turn light: 1 per side (2.1 amps)
- Max. tail lights: (4.2 amps)

Read vehicle's owners manual & instruction sheet for additional information.

# Toyota FJ Cruiser



## Toyota FJ Cruiser ONLY

1. Open the rear door. Remove the jack storage compartment door on the Driver's side. Remove the five screws holding the threshold in place ①. Using a trim panel tool, carefully pry the threshold plate away from the vehicle, being careful not to damage any clips.

2. Remove the two Phillip head screws on the Driver's side & Passenger's side connecting the trim panel to the vehicle floor ②. Using a Phillips head screwdriver, remove the cargo clips on both sides of the vehicle. Remove the access panels on each side to gain access to the connection points ③.

### NOTE

If the vehicle is equipped with an optional subwoofer unit on the Passenger side, there will be no cargo clip and the access panel will not be accessible unless the Subwoofer unit is removed.

3. If the vehicle is equipped with an optional subwoofer unit, see Subwoofer Removal steps below. Otherwise, skip to Step 5.

### Subwoofer Removal

- A. Using a trim panel remover tool, remove access panel just below the Subwoofer unit ④.
- B. Using a trim panel remover tool, carefully remove the front trim/grill assembly from the subwoofer unit. There will be eight (8) clips holding it in place ⑤.
- C. Using a 10mm socket remove the four (4) 10mm bolts holding the subwoofer unit in place ⑥.

### NOTE

An extension will be needed to remove the two upper bolts holding the subwoofer unit in place.

- D. Locate the wiring harness just below the unit, pull the retaining clip from the bracket and carefully disconnect the harness ⑦. Carefully pull out the subwoofer unit a set aside in an area where it will not be damaged.
  - E. Remove the access panel behind the Passenger side taillight to gain access to the connection points.
4. Using a trim panel remove tool carefully pull back the interior trim panels on both Driver's side and Passenger's side ⑧.
  5. On the Driver's side, locate the trailer wiring harness ①. Route the harness containing the Red wire and the harness containing the Yellow wire behind the trim panel up to the access panel location ①.
  6. Locate the vehicle's three (3) pin rear tail lamp connector and separate from the tail lamp assembly ②. Plug the harness containing the Red wire in between these separated halves. Be sure that the connectors are fully inserted.

### NOTE

The tail lamp plug area is very small and may be difficult for hands to reach inside. Long nose pliers may be used to assist in the removal and connection of the plugs.

7. Locate the vehicle's two (2) pin rear tail lamp connector and separate from the tail lamp assembly. Plug the harness containing the Yellow wire in between these separated halves. Be sure that the connectors are fully inserted.
8. Route the harness containing the Green wire to the Passenger's side. Start by routing the harness out of the Driver's side trim panel, route along the rear threshold area, behind the Passenger's side trim panel up to the access panel location.
9. Repeat step 7 using the harness containing the Green wire.
10. Inside of the Jack Storage compartment, locate the bracket holding the jack in place. Using a 10mm socket remove the bolt to the left of the jack ⑨.
11. Locate the White wire with the ring terminal. Attach the White wire with the ring terminal and re-tighten.
12. Disconnect the vehicle's Negative (-) battery cable. If not removed, remove the fuse from the Yellow fuse holder (provided). After cutting the fuse holder wire, attach the ring terminal and secure to the vehicle's Positive (+) battery cable. Connect the other end of the fuse holder to the Black 12 ga. wire, using the Yellow butt connector (provided).
13. Beginning from the front of the vehicle, route the black 12 ga. wire rearward along the frame rail avoiding any hot pipes, heat shields, the fuel tank or any other points that may pinch or break the wire.
14. Continuing on as illustrated, route the black 12 ga. wire to the rear driver's side. Locate the rubber grommet located near the wheel well and cut a hole in the grommet and route the wire up through this hole and attach the black 12 ga. wire to the red wire from the T-Connector Black Box with the supplied yellow butt connector.

15. Reconnect the vehicle's Negative (-) battery cable and install the 10 amp fuse into the fuse holder from step 12.

### ⚠ WARNING

All connections must be complete for the T-Connector to function properly. Test and verify installation with a test light or trailer once installed.

16. Replace the interior trim panels, access panels, rear threshold plate, cargo clips, jack storage compartment cover and subwoofer unit removed during installation.

### NOTE

Make sure subwoofer connection plug is fully inserted.



### ⚠ WARNING

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- Max. tail lights: (4.2 amps)

Read vehicle's owners manual & instruction sheet for additional information.