### Part Number: PT725-78221

#### **Kit Contents:**

Item#	Quantity Req'd	Description	
1	1	Converter	
2	1	Flat 4-pin wire harness	
3	1	Interior wire harness	
5	6	Foam tape Bolt (M5) Nut(M5)	
6	2		
7	2		
8	25	Cable tie-white	

#### **Hardware Bag Contents**

Item#	Quantity Req'd	Description
58		Foam tape, Bolt (M5), Nut(M5), Cable tie-white

#### **Additional Items**

(may be required)

Item#	Quantity Req'd	Description
L		

#### Vehicle Service Parts

Item#	Quantity Req'd	Description

## **General Applicability**

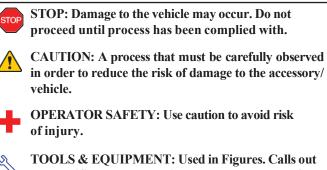
Vehicle body must be above 65°F to apply the adhesive on the converter to the body panel.

#### **Recommended Sequence of Application**

Item#	Description
1	Trailer hitch
2	Trailer wire harness

Personal & Vehicle Protection	Notes
Safety Glasses	
Seat Protectors	
Special Tools	Notes
LED Tester - 4-pin	SST 00002-62195
Installation Tools	Notes
Torque wrench	100 lbf·in
Rachet	
Sockets	10 and 12mm
Trim panel removal tools	
Special Chemicals	Notes
VDC approved cleaner	

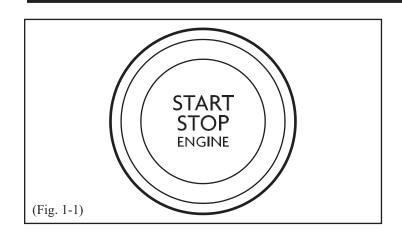
#### Legend

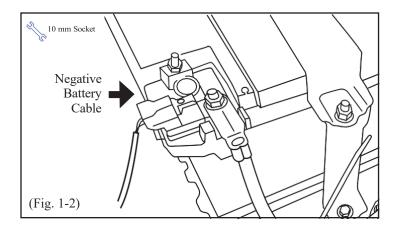


the specific tools and equipment recommended for the process.

**REVISION MARK:** This mark highlights a change in installation with respect to previous issue.

SAFETY TORQUE: This mark indicates that torque is related to safety.



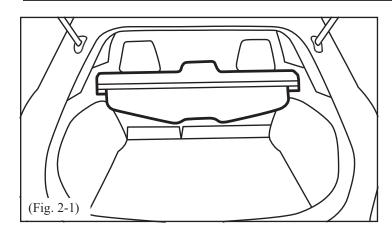


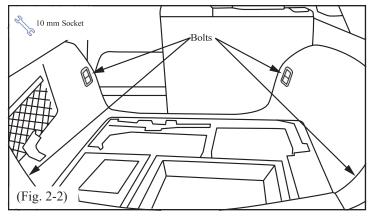
# (Fig. 1-3)

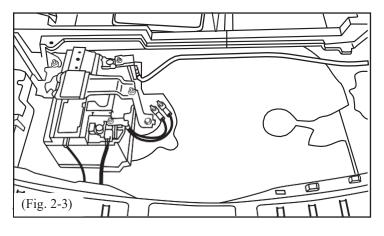
## 1. Supplemental Restraint System (SRS)

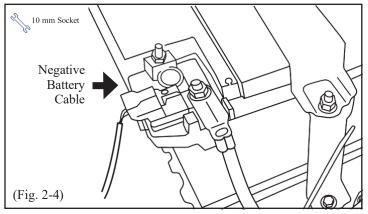
- a. Failure to carry out procedures listed below could result in possible deployment of airbag, personal injury, or unnecessary repair to SRS.
- b. Vehicle should be in the ignition off state (Fig. 1-1).
  - c. Remove the smart key from the vehicle and open all necessary doors and hatch.
- d. Disconnect the negative battery cable (Fig. 1-2). Location and steps in Section 2.

- e. Never use a voltmeter to troubleshoot any of the harnesses or connectors to the SRS. Accidentally probing the connectors to the SRS can lead to deployment of the airbag (Fig. 1-3).
- f. SRS wire harness loom/cover is bright yellow in color.









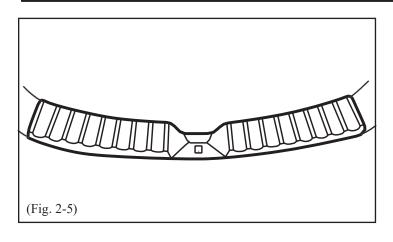
### 2. Rear Cargo Area

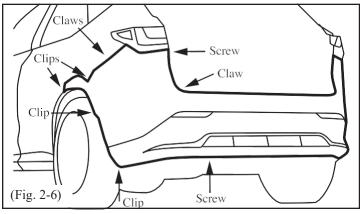
a. Remove tonneau cover and deck board (Fig. 2-1).

- b. Remove four (4) 10mm bolts and side panels (Fig. 2-2).
- c. Remove the under floor items.

d. Identify and expose the battery (Fig. 2-3).

e. Disconnect the negative battery terminal (Fig. 2-4).



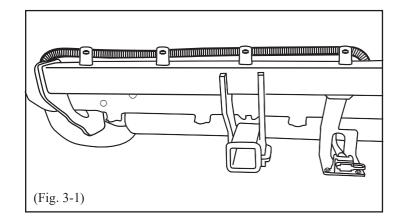


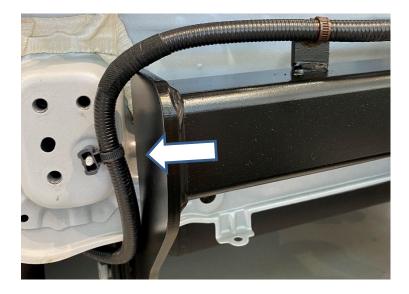
(Fig. 2-7)

f. Remove cargo sill plate (Fig. 2-5).

g. Remove the rear bumper cover by removing the driver and passenger side clips, claws and screws, as shown (Fig. 2-6).

h. Remove driver side subwoofer if equipped to expose the exterior grommet (Fig. 2-7).



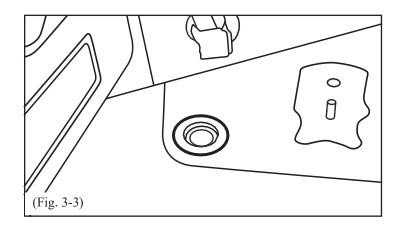


## 3. Install Exterior Wire Harness Cable

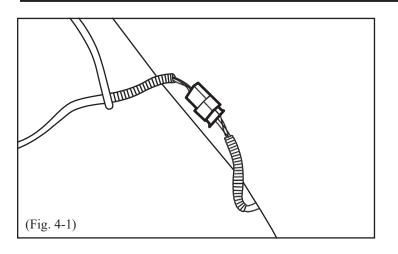
- a. Route exterior harness along the hitch with attachment points.
- b. Secure 4 PIN connector to mounting plate with included M5 bolt and nuts.

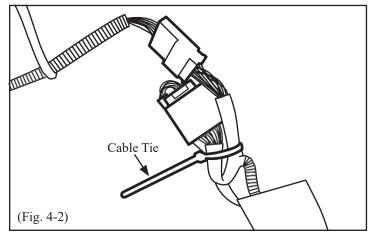
(Fig. 3-1)

c. Route exterior harness along the driver side hitch and clip into the attachment points (Fig. 3-2).



- d. Remove existing vehicle grommet from inside the vehicle. (Fig. 3-3)
- e. Route exterior wire harness through the opening in the floor pan from outside to inside
- f. Connect exterior harness to interior harness.

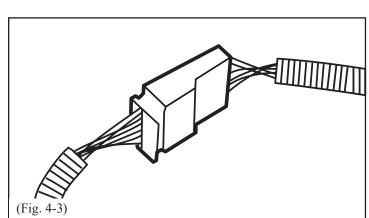


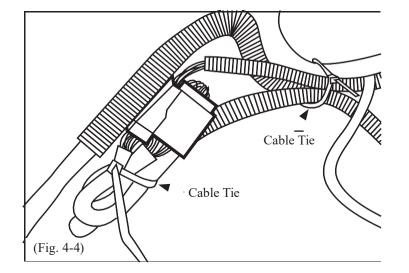


- 4. CARGO AREA WIRE HARNESS INSTALLATION
- a. Disconnect the passenger side combination lamp (Fig. 4-1).

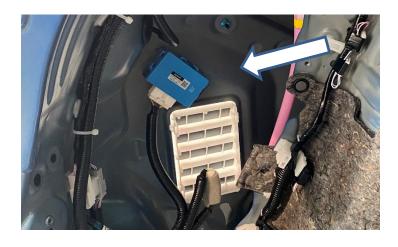
b. Connect the 'Y' wire harness to male and female connectors. Add white cable- tie as shown (Fig. 4-2).

c. Disconnect the driver side combination lamp connectors (Fig. 4-3).



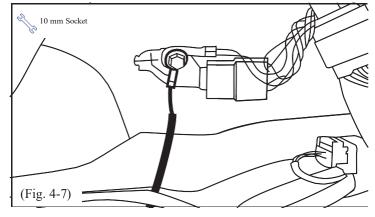


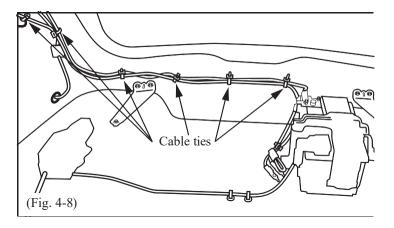
d. Connect the 'Y' wire harness to male and female connectors. Add cable tie-white as shown (Fig. 4-4).



- e. Clean area of the interior rear body panel, above the driver-side rear vent, with VDC approved cleaner.
- f. Connect the wire harness to the converter and remove the backing from the butyl tape on the back of the converter.
- g. Affix the converter to the cleaned area of the interior body panel, above the rear vent (Fig. 4-5).
- h. Remove the trim/panel support bracket to access ground point (Fig. 4-6).



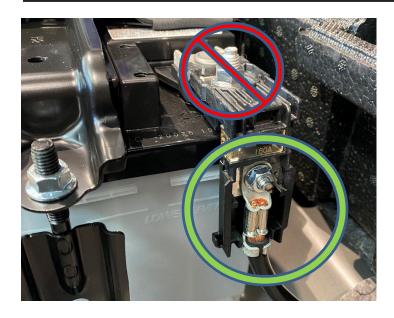




- i. Connect the ground terminal to the existing 10 mm ground bolt.
- j. Restore the trim/panel support bracket.

(Fig. 4-7).

k. Route harness as shown utilizing existing vehicle harness. Secure with cable ties (Fig. 4-8).





a. Connect the harness at the positive battery cable (Fig. 5-1).

▲ Torque: 5.0 Nm (51 kgf cm 44 in lbf)

b. Cable tie harness to existing wire as shown (Fig. 5-2).



- 10 mm Socket Negative Battery Cable (Fig. 5-3)
- c. Reconnect the vehicle's negative battery cable to original factory orientation (Fig 5-3).
  - ▲ Torque: 5.4 Nm (48 lbf in)
  - Do not touch the positive battery terminal with any tool when replacing the cable.

### 6. Reinstallation

- a. Perform function check first.
- b. Reinstall all temporarily removed panels and parts.
- c. Ensure all bolts are reinstalled to their respective torque specifications.

#### Accessory Function Checks

#### Major Action Item

1	Faults in the wiring harness installation.	Correct routing of the wire harness.
2	Converter mounting.	Pushing or pulling of the converter by any outside force.
3	Wire harness.	Pinching of the wire harness.
4	Plastic tie locations.	Positioning of the plastic tie locations.
5	Negative battery cable nut torque.	Nut torque should be: 5.4 N·m (48 lbf·in) Do not touch the positive battery terminal with any tool when replacing the cable.
6	Flat 4-pin bracket mounting bolt torque.	Nut torque should be: 3.9 N·m (35 lbf·in)

#### Vehicle Function Check

Check:	Look For:
Connect the Special Service Tool (SST) (Part Number 00002-62195) to the trailer sub-wire harness plug. Perform the following steps with the engine running: CAUTION: Be sure the vehicle is in "Park" and that the parking brake is applied. CAUTION: Be sure the exhaust gas is completely ventilated.	
Turn on headlamps.	Marker and tail lights on both SST and vehicle are lit.
Turn on left turn signal.	Left turn lights on both SST and vehicle are flashing.
Turn on right turn signal.	Right turn lights on both SST and vehicle are flashing.
Apply foot brake.	Stop lights on both SST and vehicle are lit.
Turn on left turn signal and apply foot brake.	Left turn lights are flashing and right stop lights are lit on both SST and vehicle.
Turn on right turn signal and apply foot brake.	Right turn lights are flashing and left stop lights are lit on both SST and vehicle.
With hazard lights switch on, apply foot brake.	All turn signal lights are flashing on both SST and vehicle.

## Checklist - these points MUST be checked to ensure a quality installation.

Turn off the hazard light switch, apply foot brake.	Both turn/stop lights on the SST and the stop lights on the vehicle are lit.			
PPO ONLY				
Install the short pin, then perform the following checks with the ignition switch off and the engine stopped.				
CAUTION: Do not start the engine.				
Turn on headlamps.	Marker and tail lights on both SST and vehicle are lit.			
Tum on left tum signal.	Left turn lights are not lit on both SST and vehicle.			
Turn on right turn signal.	Right turn lights are not lit on both SST and vehicle.			
Turn on left turn signal and apply foot brake.	Both stop lights are lit and not flashing on both SST and vehicle.			
Turn on right turn signal and apply foot brake.	Both stop lights are lit and not flashing on both SST and vehicle.			
Apply foot brake.	Both stop lights on the vehicle and the turn/stop lights on the SST are lit, but not flashing.			
With hazard lights switch on, apply foot brake.	All turn signal lights are flashing on both SST and vehicle.			

## Vehicle Appearance Check

After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process.
	(For PPO installations, refer to TMS Accessory Quality Shipping Standard.)

