

Part Number: PK960-08B03**Kit Contents**

Item #	Quantity Req'd.	Description
PK960-08B03 – Trailer Wire Kit		
1	1	Converter Box with Harness
1	2	Nuts(90182-A0010)

Hardware Bag Contents

Item #	Quantity Req'd.	Description

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	1	Tow Hitch Kit (PK960-08B08)
2	1	Undercover (PK960-08M10)
3		

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Safety glasses	
Cloth / shop towel	
Special Tools	Notes
Installation Tools	Notes
Torque wrench	0-100 lbf-ft
1/2" socket wrench	
1/2" x 6" socket extension	
1/2" socket	21mm
3/8" socket wrench	
3/8" x 6" socket extension	
3/8" sockets	10mm
Special Chemicals	Notes

General Applicability

MY21 and newer Sienna models

Recommended Sequence of Application

Item #	Accessory
1	Converter
2	Hitch
3	Undercover

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Req'd.	Description
1		
2		
3		

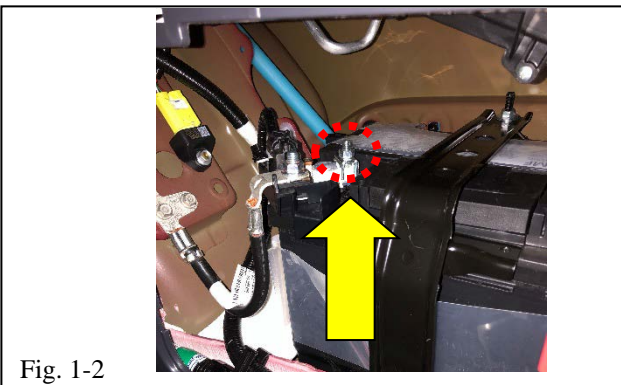
Legend**STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.**OPERATOR SAFETY:** Use caution to avoid risk of injury.**CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.**TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this 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.**REGULATORY MARK:** This mark indicates the component is related to regulatory compliance

1. Prepare the Vehicle for Installation.

- (a) Verify kit contents
- (b) Place the vehicle in Park with the parking brake set and leave the hatch open.
- (c) Locate the battery in the right rear quarter panel. Disconnect the negative battery terminal.
- Disengage the 2 claws and the 2 handles to remove the battery service hole cover (Fig. 1-1).



- Guide 2x
- Claw 2x



- Loosen the rear nut and disconnect the cable from the negative battery terminal (Fig. 1-2).

2. Install Converter Box

- (a) Locate left rear wheel well and remove spare tire panel (Fig. 2-1).

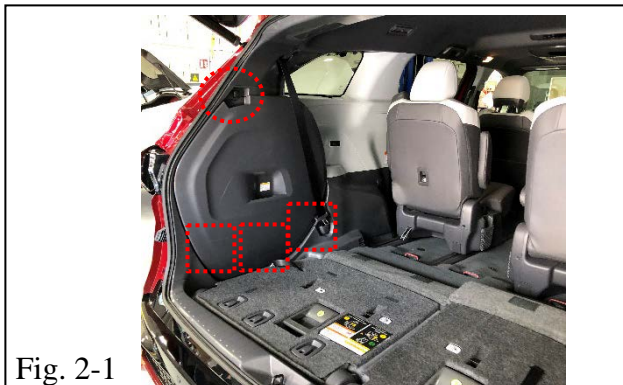


Fig. 2-1

- Handle 1X
□ Claws 3X

- (b) If equipped, remove 3 lug nuts to remove spare tire (Fig. 2-2).

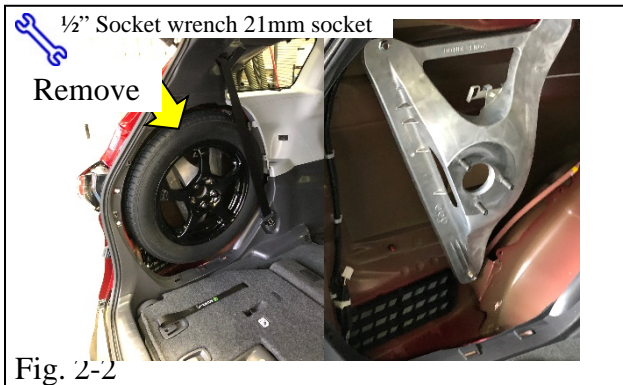


Fig. 2-2

- (c) Below where spare tire was located, remove grommet and remove tape from body side connector (Fig. 2-3).

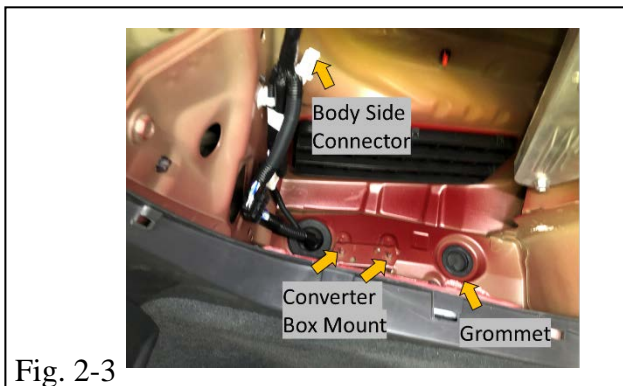


Fig. 2-3

- (d) Install converter box using 2 nuts that came with converter box. Converter box label should be facing exterior of vehicle (Fig. 2-4).

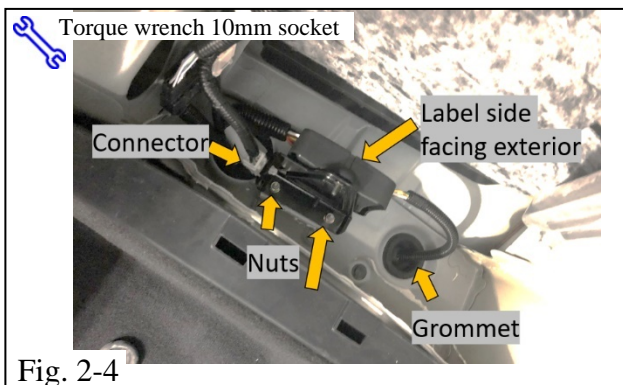
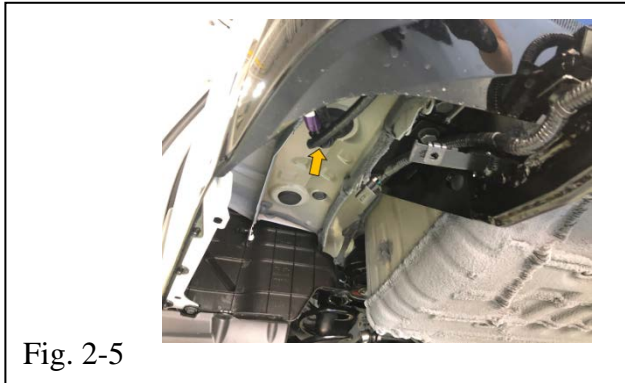


Fig. 2-4

Torque nuts to 4.8Nm (3.5ft-lbf).

- (e) Connect the vehicle side connector to the converter box connector and pull lightly to confirm connection. Pass converter box connector through open grommet hole. (Fig.2-4).



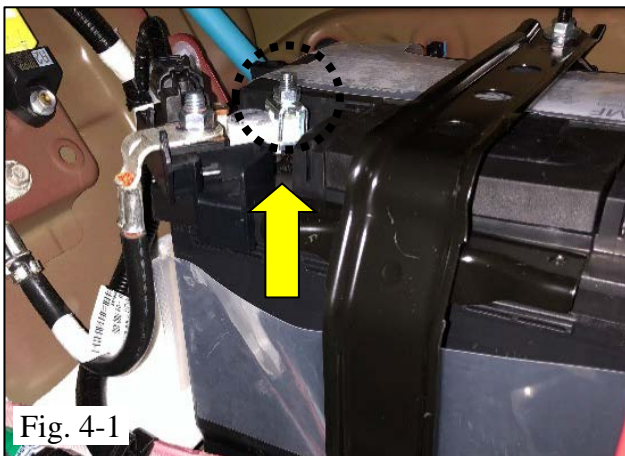
- (f) Raise vehicle and pull wires through the bottom of vehicle. Grommet should seat into the hole after pulling (Fig. 2-5).

3. Install Tow Hitch Kit and Undercover per PK960-08B08 instructions.

⚠ NOTE: Once complete, return to these instructions and complete remaining steps and function checks.

4. Complete the Installation

- (a) Position the negative battery cable at the original factory position, torque battery nut, and replace battery cover (Fig. 4-1).



⚠ Torque: 5.4N·m (48in-lbf)

⚠ CAUTION: Do not touch the positive terminal with any tool when replacing the cable.

- (b) Reinstall spare tire and wheel well cover (Fig.4-2).




Accessory Function Checks

- ☐ Faults in the wiring harness installation
- ☐ Converter mounting
- ☐ Wire harness
- ☐ Negative battery cable nut torque.

Correct routing of the wire harness

Pushing or pulling of the converter by any outside force

Pinching of the wire harness

 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.

Vehicle Function Checks

With the Special Service Tool (SST) (Part Number 00002-62195) attached to the trailer sub wire harness plug and with the engine running, perform the following steps:

CAUTION: Be sure the exhaust gas is completely ventilated.



CAUTION: Be sure the vehicle is in “Park” and that the parking brake is applied.

- ☐ Turn on headlamps.
- ☐ Turn on left turn signal
- ☐ Turn on right turn signal
- ☐ Apply foot brake
- ☐ Turn on left turn signal and apply foot brake.
- ☐ Turn on right turn signal and apply foot brake
- ☐ Turn on hazard lights switch

Look For:

Marker and taillights on both SST and vehicle are lit.

Left turn lights on both SST and vehicle are flashing.

Right turn lights on both SST and vehicle are flashing.


Stop lights on both SST and vehicle are lit.

Left turn lights are flashing and right stop lights are lit on both SST and vehicle.

Right turn lights are flashing, and left stop lights are lit on both SST and vehicle.

All turn signal lights are flashing on both SST and vehicle.

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

Check:	Look For:
<div data-bbox="154 289 807 478"> <input type="checkbox"/> With hazard lights switch on, apply the foot brake <input type="checkbox"/> Turn off the hazard lights switch, apply the foot brake. </div> <div data-bbox="139 495 740 564"> <p>The following checks are to be performed with the ignition switch off and the engine stopped.</p> </div> <div data-bbox="154 598 789 1318"> <input type="checkbox"/> Turn on headlamps <input type="checkbox"/> Apply foot brake <input type="checkbox"/> Turn on left turn signal <input type="checkbox"/> Turn on right turn signal <input type="checkbox"/> Turn on left turn signal and apply foot brake <input type="checkbox"/> Turn on right turn signal and apply foot brake <input type="checkbox"/> With hazard lights switch on, apply foot brake <input type="checkbox"/> Turn off the hazard light switch, apply foot brake </div> <div data-bbox="139 1350 807 1417"> <p>The following check is to be performed with the engine running, the car in “Reverse” and the foot brake applied.</p> </div> <div data-bbox="185 1430 784 1484"> <p> CAUTION: Be sure the foot brake is applied.</p> </div> <div data-bbox="154 1533 633 1581"> <input type="checkbox"/> Rear Back-up sensor connection. </div>	<div data-bbox="894 273 1446 375"> <p>Both stop lights on the vehicle are lit, both turn/stop lights on the SST and the turn lights on the vehicle are flashing.</p> </div> <div data-bbox="894 409 1440 478"> <p>Both turn/stop lights on the SST and the stop lights on the vehicle are lit.</p> </div> <div data-bbox="894 581 1455 646"> <p>Marker and taillights on both SST and vehicle are lit</p> </div> <div data-bbox="894 690 1408 728"> <p>Stop lights on both SST and vehicle are lit</p> </div> <div data-bbox="894 779 1409 846"> <p>Left turn lights are not lit on both SST and vehicle.</p> </div> <div data-bbox="894 867 1427 932"> <p>Right turn lights are not lit on both SST and vehicle.</p> </div> <div data-bbox="894 961 1404 1029"> <p>Both stop lights are lit and not flashing on both SST and vehicle.</p> </div> <div data-bbox="894 1058 1404 1123"> <p>Both stop lights are lit and not flashing on both SST and vehicle.</p> </div> <div data-bbox="894 1152 1455 1218"> <p>All turn signal lights are flashing on both SST and vehicle.</p> </div> <div data-bbox="894 1234 1398 1335"> <p>Both stop lights on the vehicle and the turn/stop lights on the SST are lit, but not flashing</p> </div> <div data-bbox="894 1516 1424 1581"> <p>Listen for sound when object is placed near sensor.</p> </div>
<u>Vehicle Appearance Check</u>	<u>Look For:</u>
<div data-bbox="154 1694 807 1764"> <input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection. </div>	<div data-bbox="894 1709 1433 1812"> <p>Ensure no damage (including scuffs and scratches) was caused during the installation process.</p> </div>