

Part Number: PT791-08041**Kit Contents**

Item #	Quantity Req'd.	Description
1	1	Hitch
2	1	Hitch Box Plug
3	1	Spacer Plate RH
4	1	Spacer Plate LH

Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	6	Bolt, hex head M12 x 1.25 x 40
2	6	Lock Washer, ½ "
3	6	Flat Washer, 12 mm

Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1		
2		
3		

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Cloth/Rag	
Special Tools	Notes
Installation Tools	Notes
Ratchet	3/8" Drive
Socket	10mm, 19mm
Socket Extension	4"
Torque Wrench	95 Nm (70 ft-lbs)
Exhaust Hanger Removal Tool	e.g. Snap On P/N YA3202
Scraper	
Flathead Screwdriver	Large
Tin Snips	
Panel Removal Tool	
Special Chemicals	Notes
None	

General Applicability

All Sienna models

Recommended Sequence of Application

Item #	Accessory
1	*Trailer Wire Harness
2	Towing Hitch
3	

*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.

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:-

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.

1. Prepare for the Installation.

(a) Remove the parts from the box and inspect for damage.



(b) Install the wire harness (P/N 08921-08890-WH) **BEFORE** the hitch.



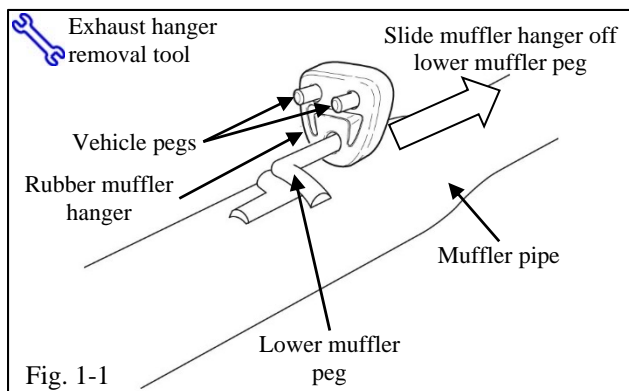
(c) Safety glasses should be worn.

(d) Protect the exhaust pipe with a cloth.



CAUTION: The muffler may be hot.

(e) For ease of installation, the muffler can be temporarily moved away from the hitch bracket area by sliding the rubber muffler hanger off of the lower muffler hanger (Fig. 1-1).



(f) Move the muffler towards the passenger side of the vehicle (Fig. 1-2).

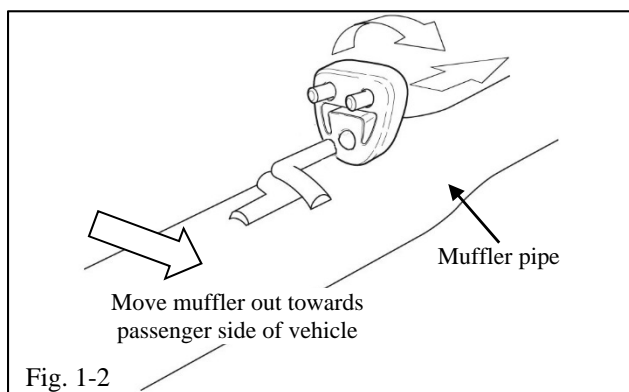




Fig. 1-3

- (g) Remove the hole cover plastic plugs and/or decals that cover the hitch mounting holes (Fig. 1-2).

- (1) Excess body sealant may require removal before continuing.
- (2) Scrape excess sealant if it interferes with the hitch installation.

⚠ NOTE: Protect any bare areas with 3M™ Auto Body Sealant.

2. Install the Hitch.

- (a) Carefully raise the hitch into position and hand start the M12 bolts. Start with the passenger side of the vehicle.

- (1) Scrape any body sealant if it interferes with hitch installation.
- (2) Ensure the spacer plates are properly positioned between the hitch side brackets and the frame. The plates are marked R and L for right and left hand side identification (Fig. 2-1).

⚠ NOTE: Ensure the wiring harness is routed over the top of the hitch cross member (Fig. 2-2).

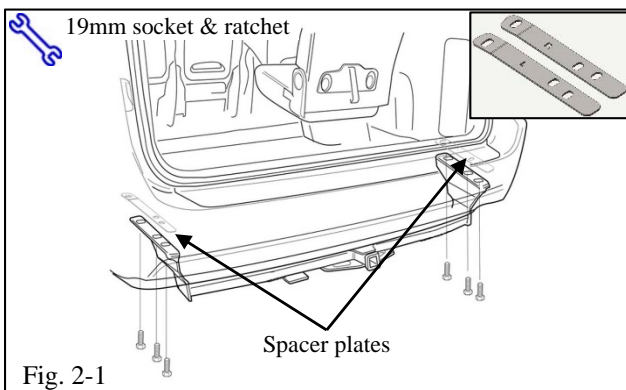


Fig. 2-1

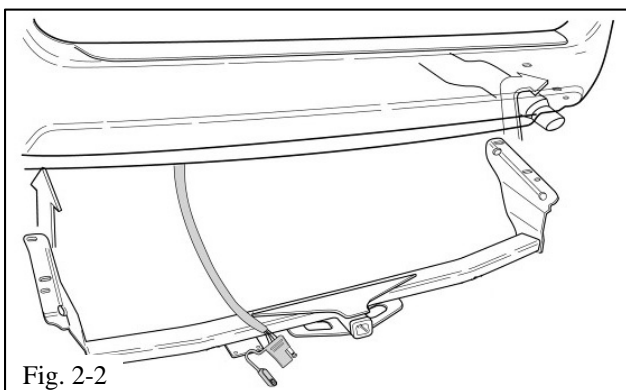
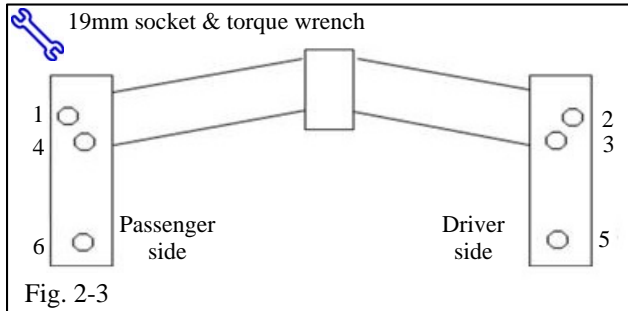


Fig. 2-2

- (b) Install and hand tighten the three 12 mm bolts (Fig. 2-1).
 - (1) Place a lock washer then a flat washer on each bolt.
- ⚠** (2) The flat washer should contact the hitch bracket.
- (c) Repeat Steps 2(a) and 2(b) for the driver side of the vehicle.





(d) Secure the wire harness to the hitch with the wire tie provided in the harness package.

(e) Tighten the bolts to 95 N·m (70 ft·lbf) in the order shown in Fig. 2-3.

⚠ Torque: 95 N·m (70 ft·lbf)

(f) Retighten all bolts to 95 N·m (70 ft·lbf).

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

Check:	Look For:
<p><u>Accessory Function Checks</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Perform visual check of Trailer Hitch <input type="checkbox"/> Installation Torque (M12 bolts) <input type="checkbox"/> Hitch plug <input type="checkbox"/> Receiver neck clearance <input type="checkbox"/> Removed parts 	<p>No visible gaps between mating parts or loose bolts.</p> <p>95 Nm (70 lbf-ft)</p> <p>Placed in glove box</p> <p>Must not be touching lower bumper cover opening</p> <p>Scratches or other damage</p>
<p><u>Vehicle Function Checks</u></p> <p>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:</p> <p> CAUTION: Be sure the exhaust gas is completely ventilated.</p> <p> CAUTION: Be sure the vehicle is in "Park" and that the parking brake is applied.</p> <ul style="list-style-type: none"> <input type="checkbox"/> Turn on headlamps <input type="checkbox"/> Turn on left turn signal <input type="checkbox"/> Turn on right turn signal <input type="checkbox"/> Apply foot brake <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"/> Turn on hazard lights switch <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 	<p>Marker and tail lights on both SST and vehicle are lit.</p> <p>Left turn lights on both SST and vehicle are flashing.</p> <p>Right turn lights on both SST and vehicle are flashing.</p> <p>Stop lights on both SST and vehicle are lit.</p> <p>Left turn lights are flashing and right stop lights are lit on both SST and vehicle.</p> <p>Right turn lights are flashing and left stop lights are lit on both SST and vehicle.</p> <p>All turn signal lights are flashing on both SST and vehicle.</p> <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> <p>Both turn/stop lights on the SST and the stop lights on the vehicle are lit.</p>

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

<u>Check:</u>	<u>Look For:</u>
<p>The following checks are to be performed with the ignition switch off and the engine stopped.</p> <ul style="list-style-type: none"><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	<p>Marker and tail lights on both SST and vehicle are lit</p> <p>Stop lights on both SST and vehicle are lit</p> <p>Left turn lights are not lit on both SST and vehicle</p> <p>Right turn lights are not lit on both SST and vehicle</p> <p>Both stop lights are lit and not flashing on both SST and vehicle</p> <p>Both stop lights are lit and not flashing on both SST and vehicle</p> <p>All turn signal lights are flashing on both SST and vehicle</p> <p>Both stop lights on the vehicle and the turn/stop lights on the SST are lit, but not flashing</p>
<p><u>Vehicle Appearance Check</u></p> <ul style="list-style-type: none"><input type="checkbox"/> After accessory installation and removal of protective cover(s), perform a visual inspection.	<p>Ensure no damage (including scuffs and scratches) was caused during the installation process.</p> <p>(For PPO installations, refer to TMS Accessory Quality Shipping Standard.)</p>