Part Number: PT228-60540 Section I - Installation Preparation

Kit Contents

Item #	Quantity Reqd.	Description	
1	1	Hitch Assembly	
2	1	Wiring Harness Bracket	
3	1	Hardware Bag	
4	1	Hitch Cover	
5	2	Frame Spacer	
6	2	Center Spacer	

Hardware Bag Contents

Item#	Quantity Reqd.	Description
1	4	M12 x 1.25 x 45 Hex Flange
		Bolt (Black)
2	4	M12 x 1.25 x 35 Hex Flange
		Bolt (Black)
3	4	M8 x 1.25 x 25 Bolt w/Trapped
		Washer (Black)
4	2	M8 x 1.25 x 20 Bolt w/Trapped
		Washer (Black)
5	2	M6 x 1.00 x 20 hex Flange Bolt
		(Black)
6	1	Harness Clamp/Cable tie
		(P/N 82711-16830)

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1		

Conflicts

Note: Not to be installed on vehicles WITHOUT tow package (TO).

Recommended Tools

Safety Tools	
Safety Glasses	
Vehicle Protection	Cloth (Shop Towel)
Special Tools	
None	
Installation Tools	
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01
Ratchets	1/2" and 3/8"
Sockets (Deep Well)	10 mm, 12 mm, 17 mm
Socket Wrench	
Extensions	6" min.
Torque Wrench (x2)	0-100 lbf·ft, 0-100 lbf·in
Exhaust Hanger Removal Tool	e.g. Snap On P/N YA3202

Special Chemicals	
None	

General Applicability

Note: GX470 with Towing Hitch Bracket only

Recommended Sequence of Application

Item #	Accessory	
1		
2		
3		

*Mandatory

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.



<u>CRITICAL PROCESS</u>: Proceed with caution to ensure a quality installation. These points will be audited on a completed vehicle installation.



GENERAL PROCESS: This highlights specific processes to ensure a quality installation. These points will be audited during the accessory installation.



TOOLS & EQUIPMENT: Calls out the specific tools and equipment recommended for this process.

Section II - Installation Procedure

A. Inspection.

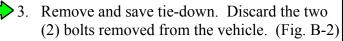


1. Inspect parts for damage.

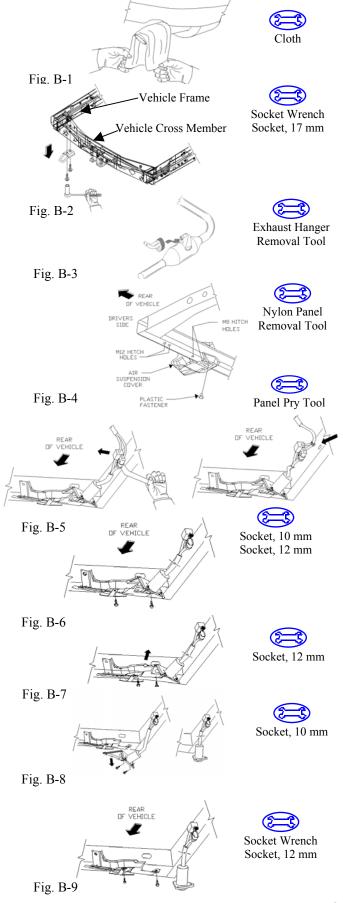
B. Prepare Vehicle for Hitch Installation.



- 1. Cover exhaust pipe with clean shop towel. (Fig. B-1).
 - 2. Caution muffler may be sharp and or hot.



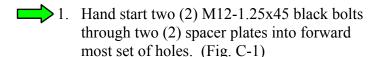
- 4. Lower exhaust by disconnecting the rubber exhaust hanger from one of the connection points. (Fig. B-3)
- For vehicles equipped with air suspension, loosen the air suspension cover by removing the plastic fastener. Save fastener for reinstallation. (Fig. B-4)
- Using panel pry tool, unclip harness from the frame. Install harness clamp close to harness connector (around black wrap). Secure harness to upper hole in frame and trim excess on cable tie. (Fig. B-5)
- Remove the vertical M8 bolt attaching fascia bracket to frame. Remove one (1) M6 bolt that attaches the fascia tab to the bracket. Carefully push the bracket forward to gain clearance for removal of wire bracket bolts. Save bolts for later reinstallation. (Fig. B-6)
 - 8. Remove the two (2) M8 bolts securing the factory wiring bracket to the frame. Discard the two (2) bolts. (Fig. B-7)
- Remove the two (2) M6 bolts connecting the 7-pin plug to the bracket, slide the plug from the bracket. Discard the bolts and factory wiring bracket. (Fig. B-8)
 - 10. Carefully push fascia bracket back into original position. (Fig. B-9)
- Reinstall the M8 bolt. Tighten to 19 +/- 5 lbf-ft (25 + / - 5 N-m).





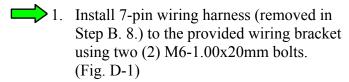
ii. Reinstall the one (1) M6 bolt. Tighten to 71 +/- 18 lbf-in (8 +/- 2 N-m).

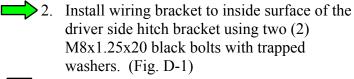
C. Attach Hitch Center to Vehicle.



- 2. Slide hitch onto pre-installed bolts using open ended slots to support the hitch. (Fig. C-1)
- 3. Hand start two (2) M12-1.25x45 black bolts to rear most position to secure the hitch and spacer plates using a socket extension and a 17mm socket. Bolts can be fed through chain holes. Do not tighten. (Fig. C-1)

D. Install 7-Pin Wire Harness to Hitch.







3. Be sure to feed wiring between the hitch tube and the vehicle cross member.

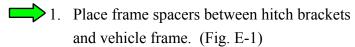


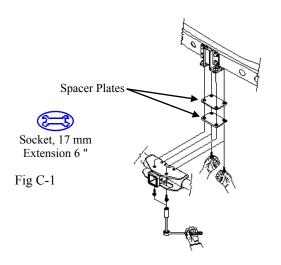
4. Tighten the M8 bolts to 19 +/- 4 lbf-ft (25 +/- 5 N-m). (Fig. D-1)



5. Tighten M6 bolts to 94 +/- 19 lbf-in (10.4 +/- 2 N-m). (Fig. D-1)

E. Place Frame Spacers.





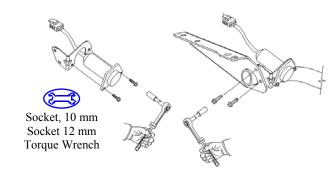


Fig D-1

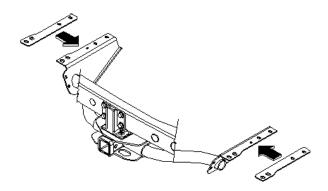
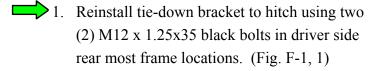
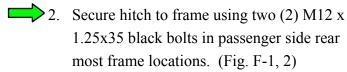
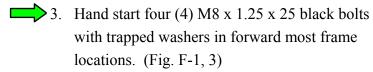


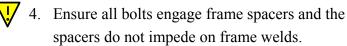
Fig. E-1

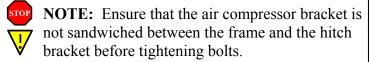
F. Install Hitch to Frame Rail.



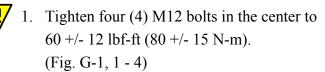


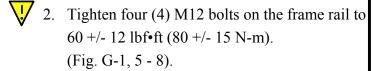






G. Tighten Remaining Hitch Hardware.

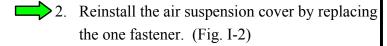




3. Tighten four (4) M8 bolts to 19 +/- 4 lbf-ft (25 +/- 5 N-m). (Fig. G-1, 9 - 12)

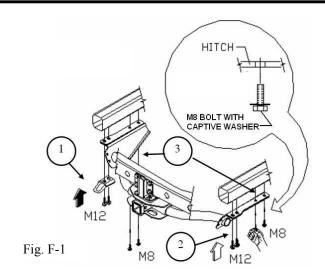
H. Reinstall Vehicle Components.

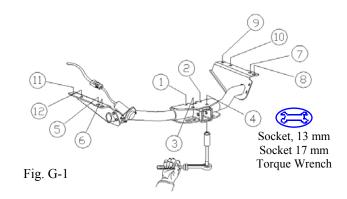
1. Reconnect exhaust to the exhaust hanger ensuring to fully engage the hanger. (Fig. I-1)

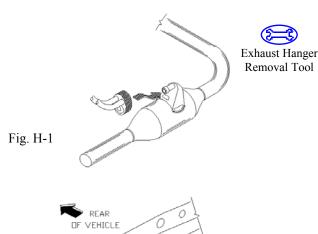


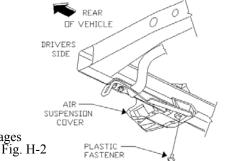
i. If fastener is damaged fit a new fastener, (P/N 90467-09185).

3. Place the hitch plug in the glove box.











Section III - Functional Verifications

Check:

Frame Space

Look For:

Installed and off of welds

Installed and fed between hitch and cross member.