Part Number: PT228-89253 OR PT228-89254

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Rear Skid Plate (PT228-89253) OR Rear Skid Plate (PT228-89254) [See Applicability Section]
2	1	Hardware Kit

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	7	M8-1.25 Bolt
2	3	M8-1.25 U-Nut
3	1	Jounce Bumper
4	2	Bracket Sleeve
6	2	Mount Bracket Assembly

Additional Items Required For Installation

Item #	Quantity Reqd.	Description

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Cut Resistant Gloves	
Special Tools	**Notes**
Installation Tools	**Notes**
Ratchet	
Socket	12mm
Torque Wrench	19.5 Nm (14.5 ft-lbf) 29 Nm (21 ft-lbf)

General Applicability

4Runner
PT228-89253 -
TRD PRO/TRD OFFROAD/TRAILHUNTER HV Models

PT228-89254 -
ALL Gas Models and LIMITED/Platinum HV Models

Land Cruiser HV
PT228-89254 -
ALL Models

Recommended Sequence of Application

Item #	Accessory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description

Legend

STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.

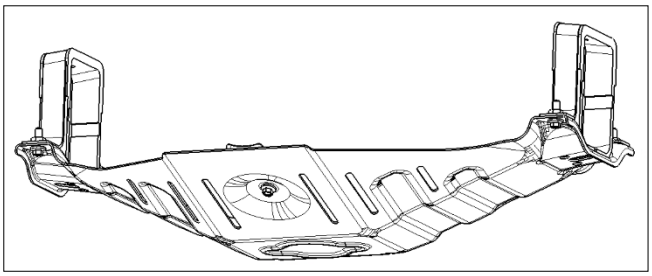
OPERATOR SAFETY: Use caution to avoid risk of injury.

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.



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Procedure

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. Vehicle Preparation

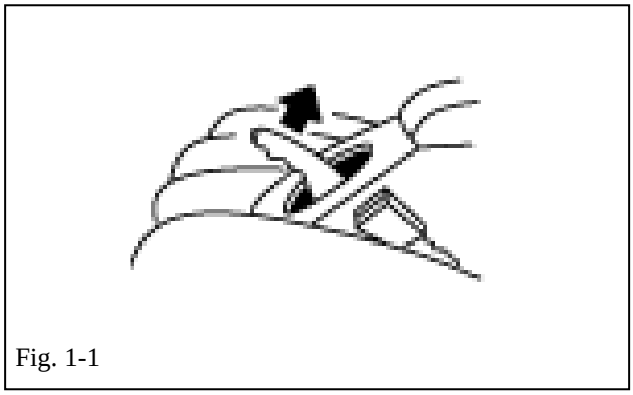


Fig. 1-1

(a) Confirm electronic parking brake engages (automatic) or firmly apply parking brake (manual) (Fig. 1-1).

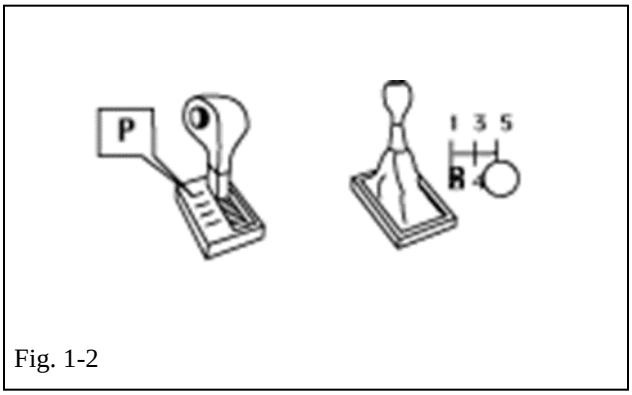


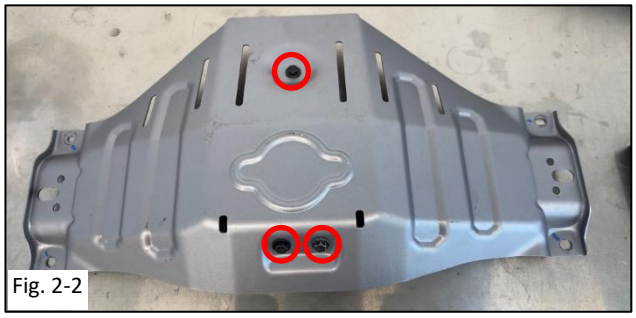
Fig. 1-2

(b) Put transmission in “P” (automatic) or reverse (manual) (Fig. 1-2).

(c) Lift vehicle.

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Fig. 2-1


Fig. 2-2

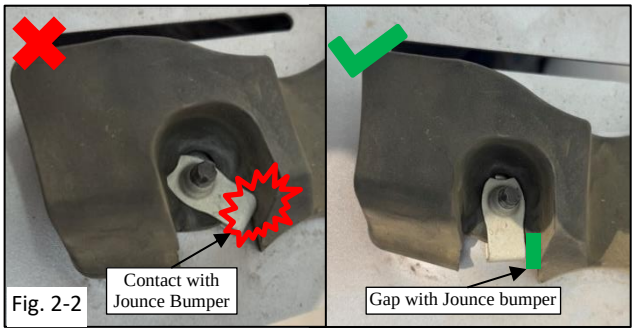


Fig. 2-2

2. Prepare Rear Skid Plate for Installation

(a) Install 3 U-nuts onto the Jounce Bumper (Fig. 2-1).

Note: Ensure the U-Nuts are orientated with the female threaded feature pointing towards the center of the Jounce Bumper.

(b) Using 3 M8-1.25 bolts, install Jounce Bumper to Skid Plate and tighten until snug. Back off one quarter turn (Fig. 2-2).

Note: Ensure the U-nut does not dig into Jounce bumper (Fig. 2-3)

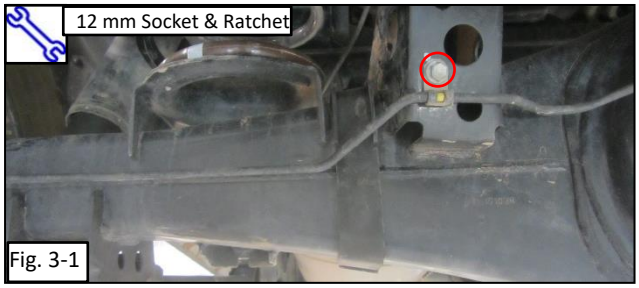


Fig. 3-1

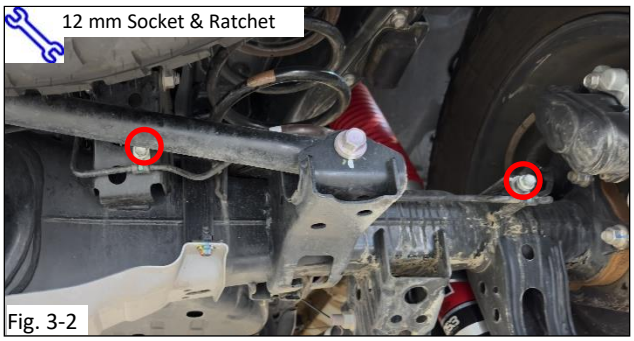


Fig. 3-2

3. Remove Brake Line Bracket

(a) Using a 12mm Socket, Remove 1 bolt from the rear brake line bracket. Retain bolts for re-installation (Fig. 3-1).

(b) Using a 12mm Socket and 12mm Wrench, remove 2 bolts from the rear brake line bracket. Retain bolts for re-installation (Fig. 3-2).

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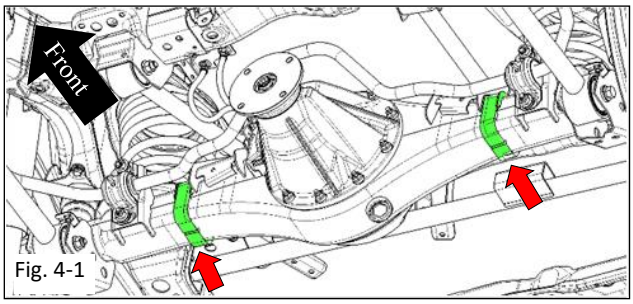


Fig. 4-1

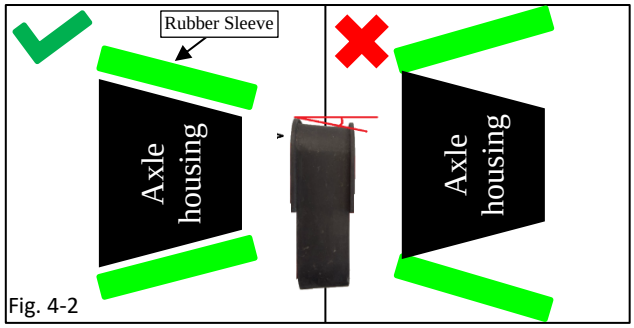


Fig. 4-2

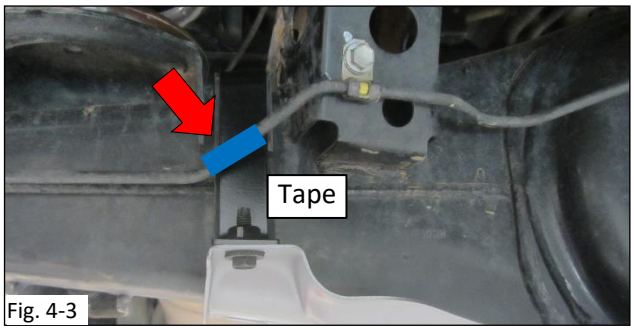


Fig. 4-3

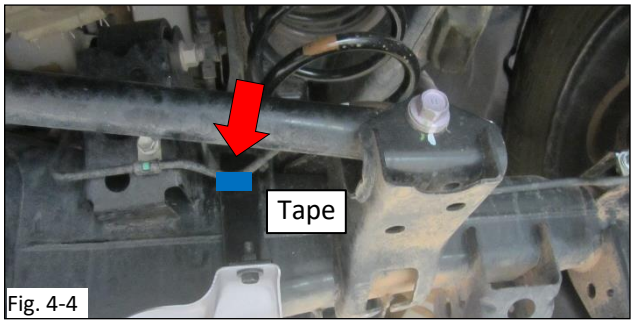


Fig. 4-4

4. Install the brackets

(a) Place bracket rubber sleeve over rear axle on both LH and RH sides shown in green (Fig. 4-1).

Note: Ensure Rubber Sleeves are installed in the proper orientation. Observe the direction of the sleeve based on the axle housing (Fig. 4-2).

CAUTION: Be careful of hand placement. Exhaust may be hot to the touch when performing installation.

(b) Tape brake line to avoid scratching (Fig 4-3 & 4-4).

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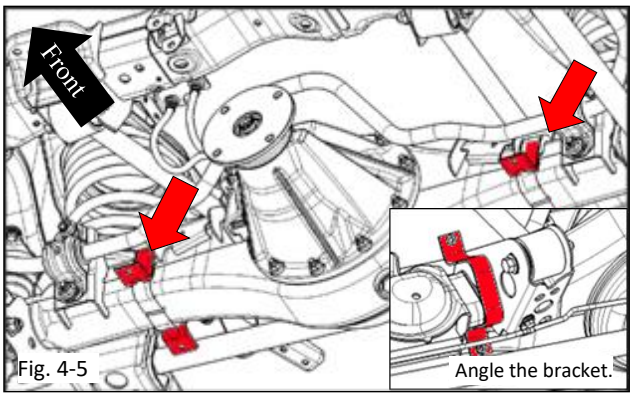


Fig. 4-5

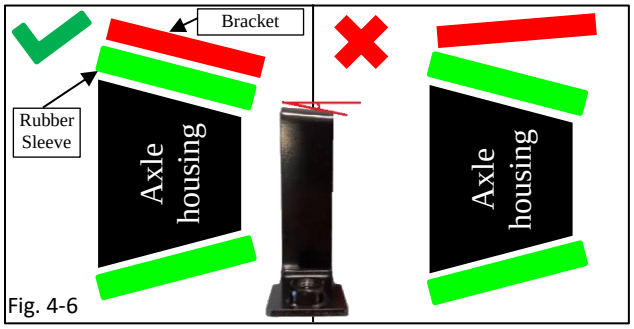


Fig. 4-6

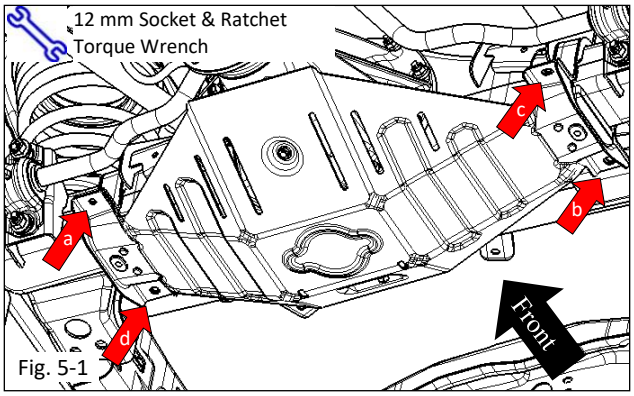


Fig. 5-1

(c) Carefully place brackets over rubber sleeve by sliding brackets onto axle from the above, avoiding any scratches to the brake lines. It may be necessary to start at an angle, getting one bracket foot under the brake line before sliding it onto the rubber sleeve (Fig 4-5).

Note: Be careful to not scratch the brake lines or rear stabilizer bar while installing the brackets.

Note: Ensure Brackets are installed in the proper orientation (Fig. 4-6).

Note: Ensure Brackets do not go over the Brake Line.

CAUTION: Be careful of hand placement. Exhaust may be hot to the touch when performing installation.

5. Install Rear Skid Plate

(a) Partially thread 2 M8 bolts (Fig 5-1) “a”, and “b”.

(b) Push the plate up against the brackets and install/tighten bolts “a” to “d”.

(c) Torque all M8 bolts. Torque bolts in order from “a” to “d”.

Torque: 29 N-m (21 ft-lbf)

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c

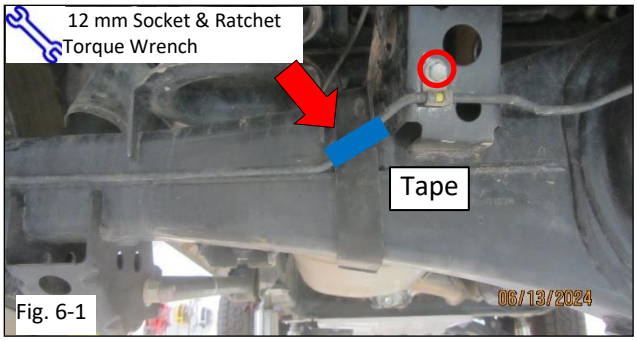


Fig. 6-1

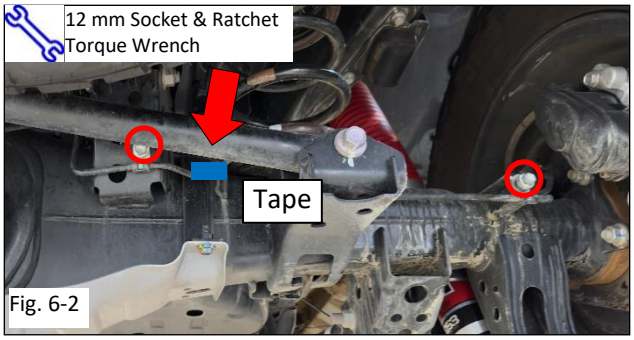


Fig. 6-2

6. Reinstall the Brake Line Brackets

(a) Re-install brake line bolt circled in red, to the rear brake line bracket (Fig. 6-1).

Torque: 19.5 N-m (14.5 ft-lbf)

(b) Re-install 2 brake line bolts circled in red, to the rear brake line bracket. (Fig. 6-2).

Torque: 19.5 N-m (14.5 ft-lbf)

(c) Remove Tape (Fig. 6-1 & 6-2).

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

Check:	Look For:
Accessory Function Checks	
☐ Check that all bolts are tight.	Lightly tap skid plate with palm, you should not hear any rattling.
Vehicle Function Checks	
Vehicle Appearance Check	
☐ After accessory installation, perform a visual inspection.	Ensure no damage to rear axle or brake lines (including scuffs and scratches) were caused during the installation process.

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