

Preparation

Part Number: PTR02-30091

Kit Contents:

Item #	Quantity Reqd.	Description
1	1	Front Sway Bar
2	1	Rear Sway Bar
3	1	Hardware Bag

Recommended Sequence of Application

Item #	Accessory
1	Sway Bar
2	Exhaust

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	2	Bushings, Front
2	2	Bushings, Rear
3	2	Brackets, Rear Sway Bar
4	4	Bolts M8-1.25 x 20mm
5	4	Washers

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1		
2		
3		

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1		
2		
3		

Conflicts

GS 350/460 2WD & GS 430H







Recommended Tools

Personal & Vehicle Protection	Notes
Seat Cover	
Floor mat cover	
Special Tools	Notes
Tall adjustable stand	6' tall
Installation Tools	Notes
Sockets	12,14,17, & 19mm deep
3/8" Drive Extension	
Pick or Very Small Screwdriver	
3/8" & 1/2" Torque Wrenches	
Special Chemicals	Notes

General Applicability

GS 350 AWD

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.

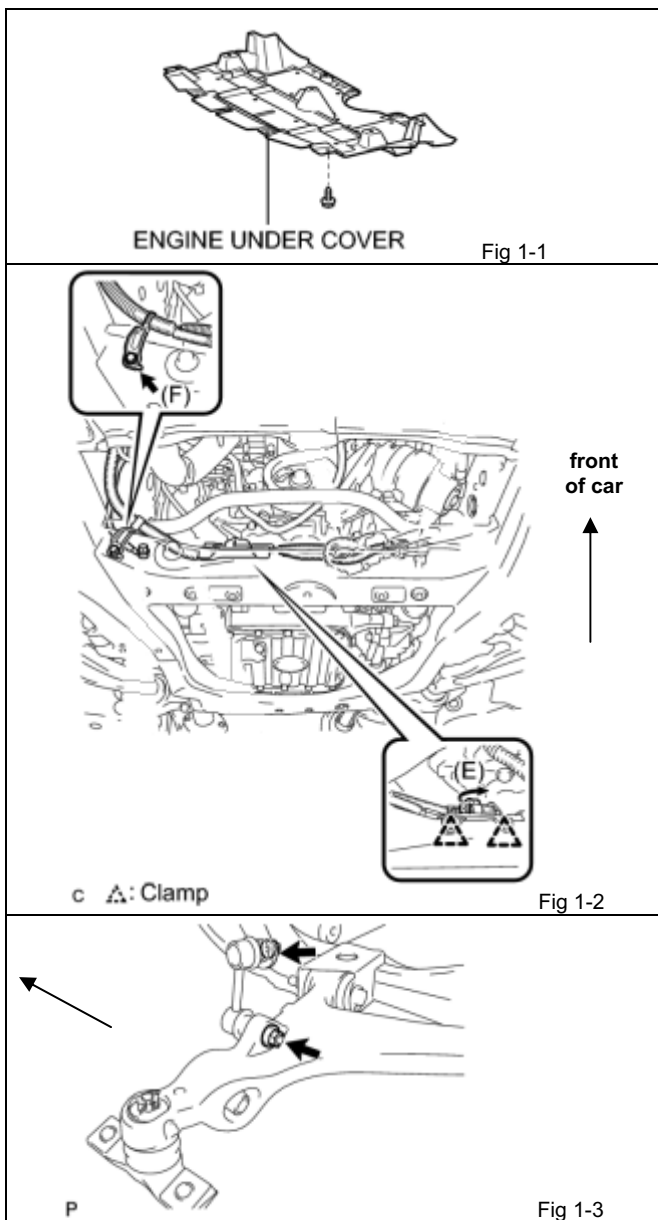
Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation

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

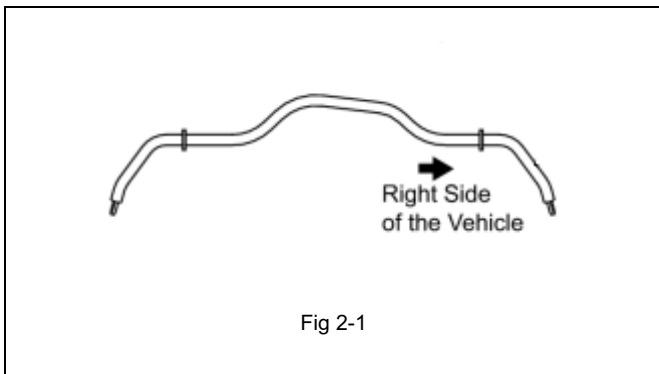
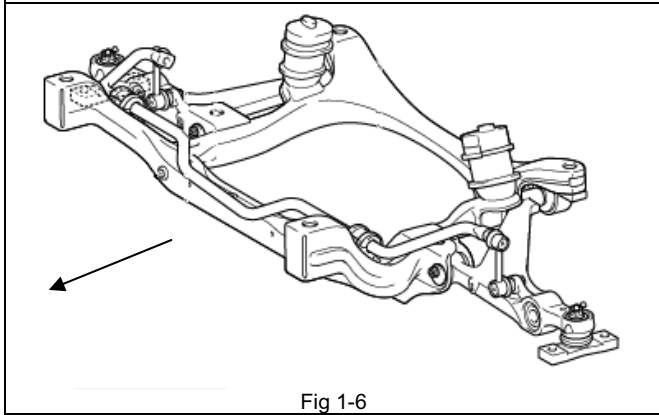
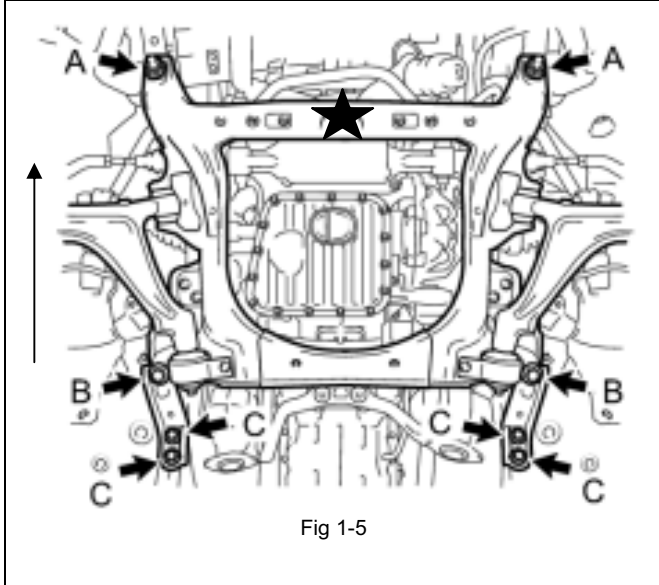
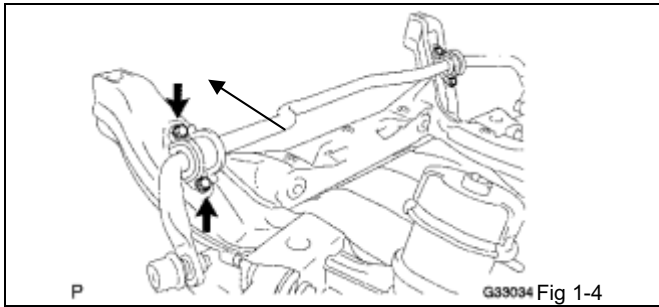
This document covers such items as:

- 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.).

1. Remove Front Sway Bar.



- (a) Disconnect negative terminal of vehicle battery.
- (b) Remove front driver's side wheel assembly.
- (c) Remove engine under cover. (Fig 1-1)
- (d) Disconnect steering rack wire harness (E). (Fig 1-2)
- (e) Detach clips holding steering rack W/H to sub-frame.
 - (1) Use a pick or small screwdriver to unlock clips.
- (f) Disconnect bracket (F) from sub-frame. (Fig 1-2)
- (g) Disconnect sway bar link from sway bar. (Fig 1-3)
 - (1) If the ball joint turns together with the nut, use a hexagon (6 mm) wrench to hold the stud.



(h) Remove sway bar brackets. (Fig 1-4)



(i) Place tall adjustable stand under sub-frame. ★

(j) Loosen bolts B and C just enough to remove tension from these parts. (Fig 1-5)

(k) Loosen nuts A to the end of the threads on the stud. This should be about 1/2 inch off of the sub-frame. (Fig 1-5)

(l) Lower the front of the sub-frame with the tall adjustable stand.



CAUTION: Do not lower sub frame any further than the threaded portion of the stud. Keep a minimum of 4 threads engaged.

(m) Remove front sway bar. (Fig 1-6)

(1) Shift bar to the driver's side of the vehicle until the passenger side of the sway bar is free from the vehicle sheet metal.

(2) Pull passenger side of sway bar forward and down past the power steering wire-harness and free from the vehicle.

2. Install F-Sport Front Sway Bar.

(a) Slide sway bar into sub frame.

(1) Start by guiding drivers side of bar between sub frame and body as far as possible to the driver's side wheel.

(2) Raise passenger side of bar up and back in between the sub frame and the body of the vehicle.

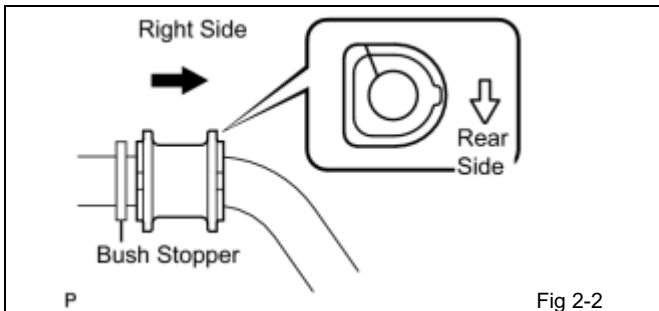
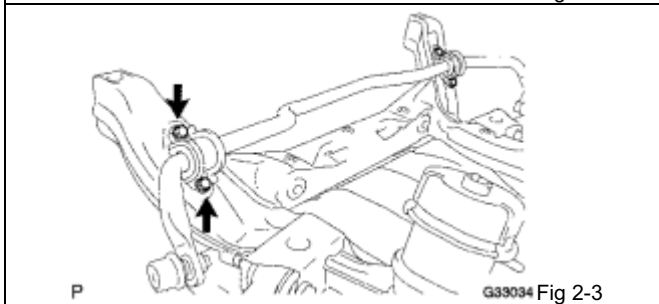


Fig 2-2



G33034 Fig 2-3

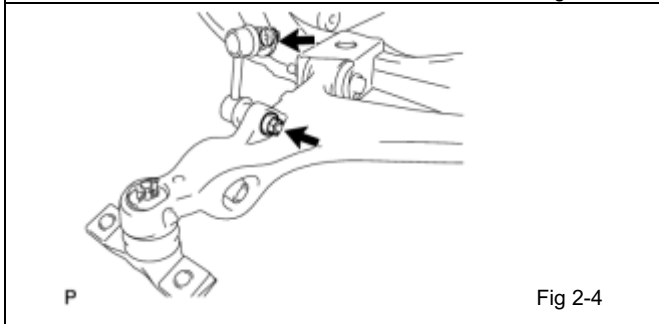


Fig 2-4

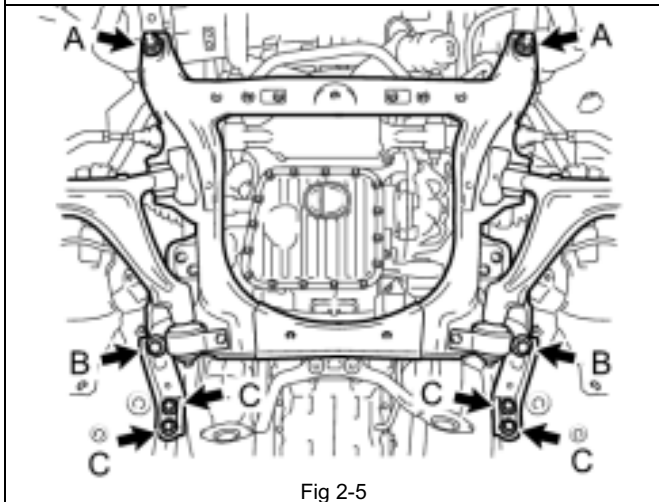


Fig 2-5

(b) Place supplied oil impregnate rubber bushings onto the sway bar.

(1) Cut in bushing will face upward and forward. (Fig 2-2)

(c) Install the front sway bar brackets on the vehicle with the 4 bolts. (Fig 2-3)

Torque: 78 N·m (795 kgf·cm, 57 ft·lbf)

(d) Install the front stabilizer link assemblies with the 4 nuts. (Fig 2-4)

(1) If the ball joint turns together with the nut, use a hexagon (6 mm) wrench to hold the stud.

Torque: 84 N·m (856 kgf·cm, 62 ft·lbf)

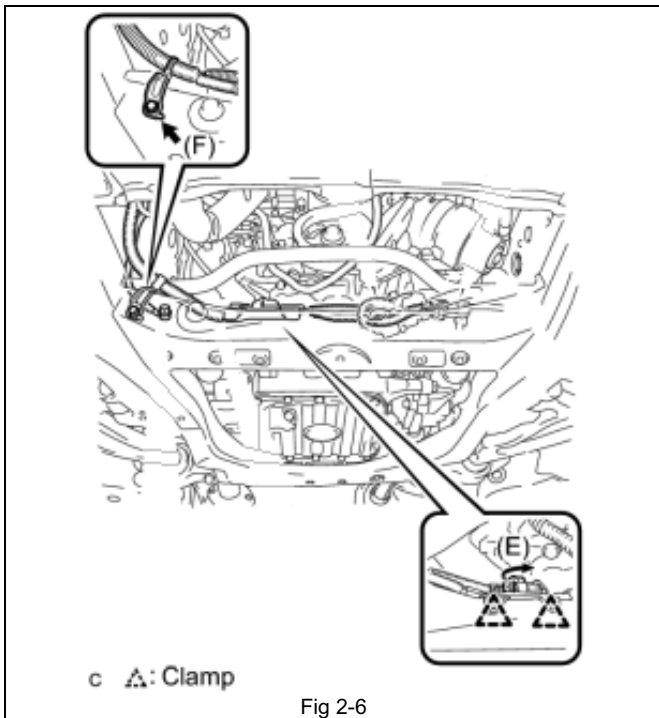
(e) Raise the front of the sub frame back into contact with the bottom of the vehicle.

(f) Tighten fasteners: (Fig 2-5)

A: Torque: 167 N·m (1,700 kgf·cm, 123 ft·lbf)

B: Torque: 165 N·m (1,680 kgf·cm, 122 ft·lbf)

C: Torque: 50 N·m (510 kgf·cm, 37 ft·lbf)



- (g) Connect the wire harness connector (E) to the power steering link assembly and securely lock the connector.
- (h) Install the 2 wire harness clamps to the front of the sub frame.
- (i) Install the bolt (F) to connect the bracket to the front frame.

Torque: 13 N·m (130 kgf·cm, 10 ft·lbf)

- (j) Install engine under cover.

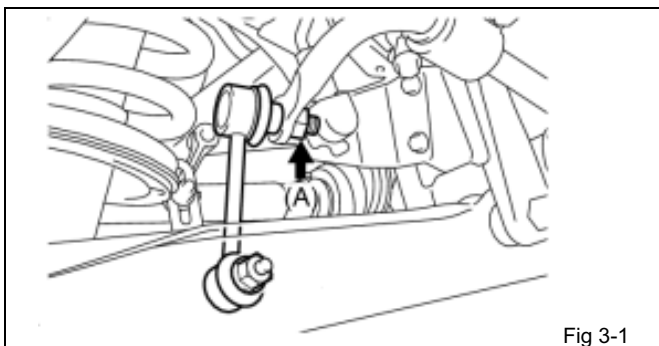
NOTE: The (4) longer screws fasten the bumper cover tabs.

- (k) Install front driver's side wheel assy.

Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

3. Remove Rear Sway Bar.

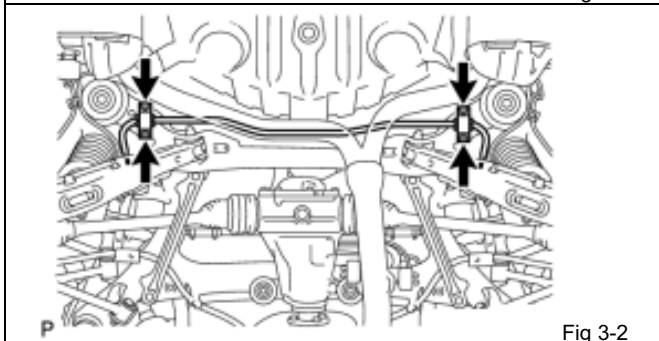
- (a) Disconnect sway bar links (A). (Fig 3-1)



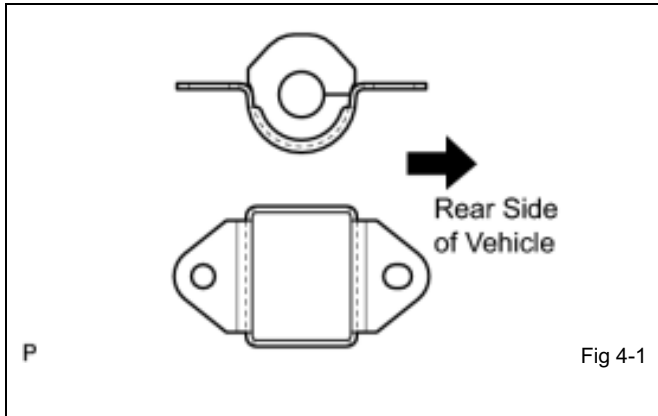
- (b) Remove rear sway bar. (Fig 3-2)

(1) Remove the 4 bolts and rear stabilizer bar brackets.

(2) Discard OE rear sway bar.



4. Install F-Sport Rear Sway Bar.



(a) Install the supplied bushings onto the new rear sway bar.

(1) Be sure to install the rear stabilizer bushing so that the cut in the bushing faces the rear of the vehicle. (Fig 4-1)

(2) Bushings should be positioned to the very edges of the straight portion of the sway bar.

(b) Install the rear stabilizer bar with the supplied 4 bolts and sway bar straps. (Fig 4-2)

Torque: 32 N·m (326 kgf·cm, 24 ft·lbf)

HINT: Position link ends into the sway bar holes before bolting up the brackets.

NOTE: Dip in center of bar faces downward.

(c) Tighten the sway bar links. (Fig 4-3)

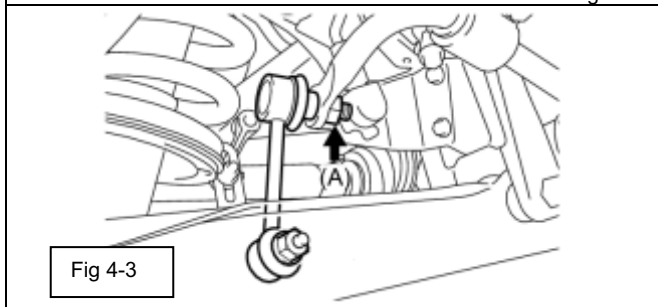
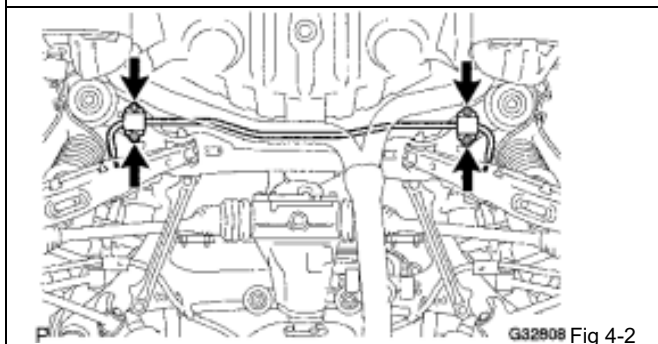
(1) If the ball joint turns together with the nut, use a hexagon (6 mm) wrench to hold the stud.

Torque: 89 N·m (908 kgf·cm, 66 ft·lbf)

(d) Reconnect negative battery terminal.

Torque: 4 N·m (kgf·cm, 36 in·lbf)

CAUTION: Do not touch the positive terminal with any tool during removal.



Checklist. These points MUST be checked to ensure a quality installation.

CHECK FOR:

Accessory Function Checks

LOOK FOR:

Vehicle Function Checks

Confirm all suspension components are tightened to specification.