

# Authorized Field Change

**INTERNATIONAL**

**AFC G-01906**

**Date:** June, 2001

**Subject File:** FRAME

**Subject:** Rear Suspension Crossmember Improvement for 4300 and 4400 Models built between October 24, 2000 and April 16, 2001 with International Ride Optimized Suspension (IROS), excluding the LoPro® Models

Model: 4300

Start Date: 10/24/2000 End Date: 04/16/2001

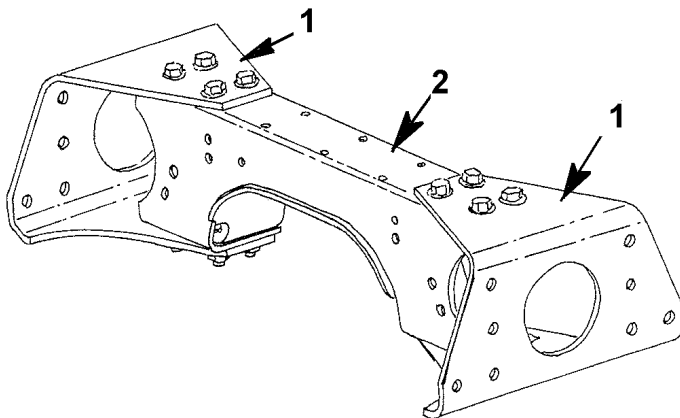
Model: 4400

Start Date: 10/24/2000 End Date: 04/16/2001

## DESCRIPTION

This letter is being issued for the International Ride Optimized Suspension (IROS) Crossmember improvement (Figure 1) for all 4300 and 4400 Models built between October 24, 2000 and April 16, 2001 with the International Ride Optimized Suspension excluding the LoPro Models.

## PARTS INFORMATION



**Figure 1 Replacement Rear Crossmember Assembly**

- 1. CROSSMEMBER END BRACKET
- 2. CROSSMEMBER CENTER SECTION

## PARTS INFORMATION (CONT.)

Table 1 **Parts Information**

Part Number	Description	Quantity
3566533C1	Front Crossmember Center Section	1
3566537C1	Crossmember End Brackets	2
30753R2	Flange head Bolts	32
30756R1	Flange Head Nut	32
*3566894C1	Hydraulic Tube	1

\* PN 3566894C1 Used with Hydraulic brake system only.

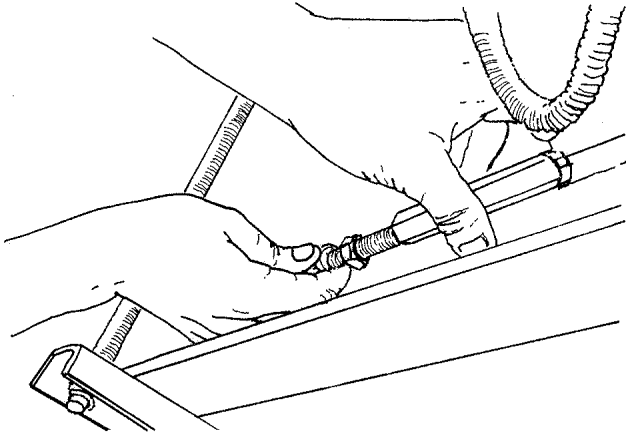
## SERVICE PROCEDURE



**WARNING** – To avoid personal injury and/or property damage, park vehicle on level surface, unload vehicle, set brakes and chock wheels.

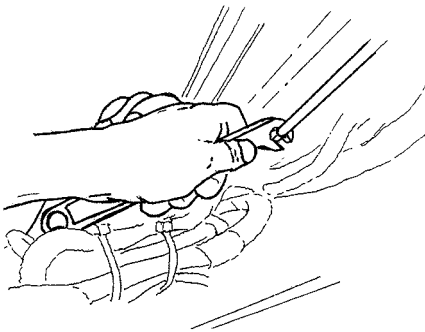
1. Set chassis rail jack stands at rear supporting frame rails.
2. Turn on ignition - dump the air from the IROS system.
3. Drain air tanks.
4. Cut all tie wraps on harness that encapsulate rear warning lights, air bag suspension and control valves and brakes.
5. Disconnect chassis and ABS harness from crossmember to be removed.
6. Disconnect modulator valve wiring.
7. **Prior to removing parking brake cable**, spray ram nut and shaft with tool makers die or equivalent, to mark location of parking brake setting.
8. **Hydraulic brake only (Figure 2):** Disconnect parking brake cable and remove from suspension crossmember.
9. Disconnect brake lines from suspension crossmember (Figure 3), and remove hydraulic line brake mounting clips (if equipped).

## SERVICE PROCEDURE (CONT.)



**Figure 2 Parking Brake Disconnect**

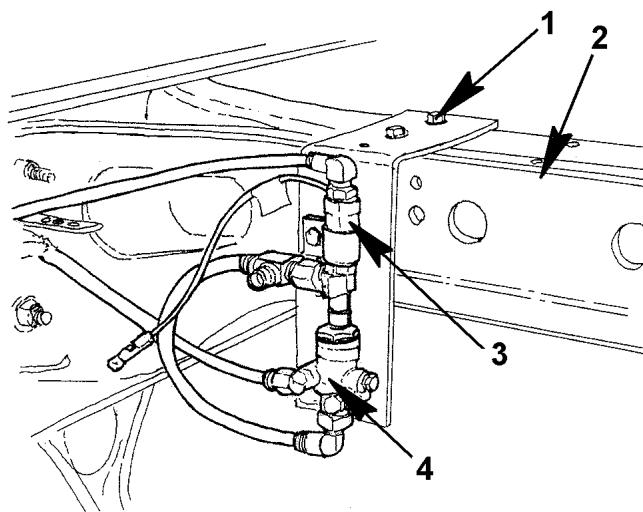
10. Disconnect chassis harness connector at dump valve.



**Figure 3 Brake Line Disconnect (Hydraulic)**

- 11. Disconnect supply line from inversion valve.
- 12. Disconnect air supply line to ride height control valve.
- 13. Secure brake line supply valves.

## SERVICE PROCEDURE (CONT.)



**Figure 4 SV-1 Valve And Solenoid With Bracket**

1. MOUNTING BRACKET AND BOLTS
2. CROSSMEMBER TO BE REMOVED
3. SOLENOID
4. SV-1 VALVE

14. Remove bracket from crossmember with SV-1 valve and solenoid (Figure 4).



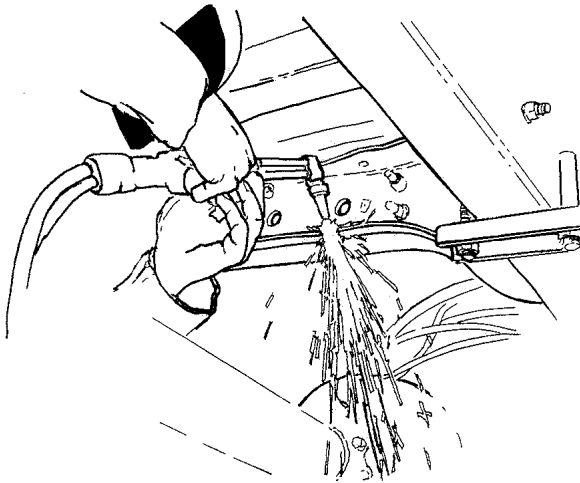
**WARNING** – To prevent personal injury and/or property damage, wear protective clothing, gloves and face shield.

Shield surrounding area from hot debris prior to cutting crossmember huck bolts and crossmember sections with torch.

15. Cut crossmember sections with torch (Figure 5).

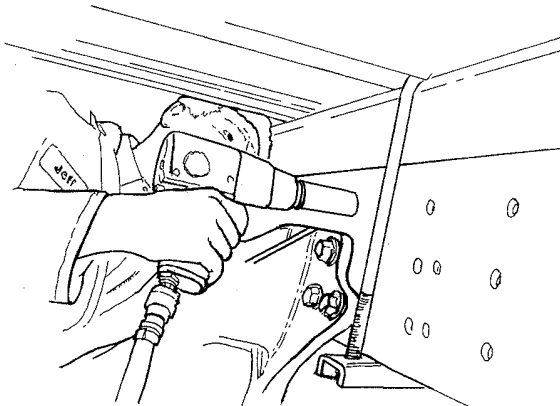
16. Loosen and remove spring hanger bolts (one side) (Figure 6).

## SERVICE PROCEDURE (CONT.)



**Figure 5 Cutting Crossmember**

17.



**Figure 6 Remove Spring Hanger Bolts**

**NOTE – Leave lower two (2) outside bolts in place.**

18. Remove cut side of crossmember section.

19. Remove spring hanger bolts.

20. Insert crossmember end bracket section to inside frame rail and align with remaining bolts from spring hanger.

21. Insert spring hanger bolts from inside crossmember end bracket through frame rail.

## SERVICE PROCEDURE (CONT.)

22. Install nuts and hand tighten on outside of spring hanger.

23. Remove opposite side spring hanger mounting bolts and remainder of crossmember.

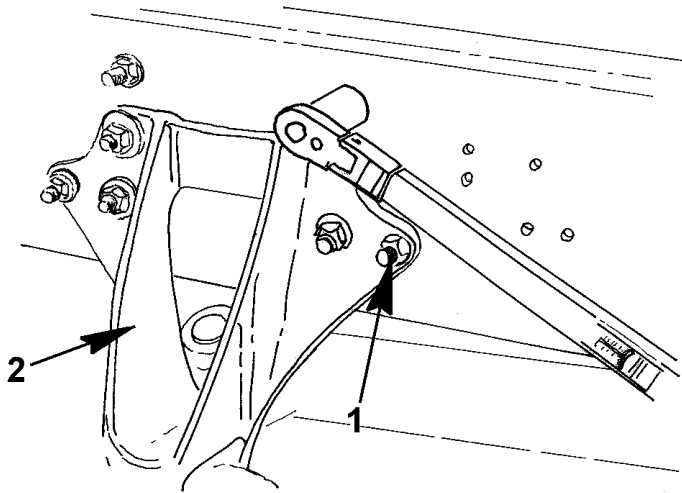
**NOTE – Leave lower two (2) outside bolts in place.**

24. Follow the same procedure for the opposite side crossmember end bracket.

25. Replace all remaining outside lower bolts (each side).

26. Install center section of three piece crossmember, insert bolts and nuts through center section through crossmember end brackets and hand tighten.

27. Tighten all crossmember bolts and nuts including spring hanger to 190–240 lbf-ft (265 to 325 Nm) of torque.



**Figure 7 Tighten Replacement Nuts And Bolts**

- 1. NUTS TORQUED FROM OUTSIDE RAIL
- 2. SPRING HANGER

28. Re-install bracket assembly to crossmember with SV-1 valve and solenoid.

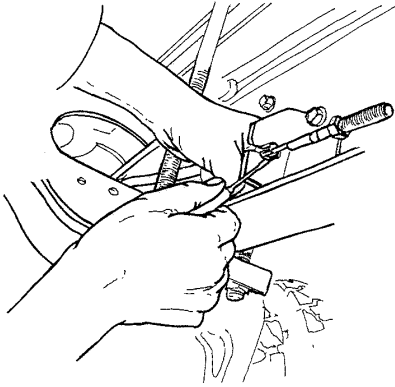
29. Re-install hydraulic brake lines mounting clips and replacement brake line part on chassis crossmember (hydraulic brake only).

30. Refill hydraulic brake fluid to proper level (hydraulic brake only).

31. Reconnect harnesses and air lines as required.

32. Reconnect parking brake cable and adjust ram nut to mark indicated prior to removal (hydraulic brake only) (Figure 8).

## SERVICE PROCEDURE (CONT.)



**Figure 8 Replace And Adjust Parking Brake**

33. Replace all harness ties as required.
34. Start engine to bring air system up to pressure and inflate air bags.
35. Bleed hydraulic brakes (if equipped).
36. Remove jack stands and wheel chocks.

Operation number must appear on all claims.

**Table 2 Labor Information**

Operation No.	Description	Time
A40-01906-1	Replace Crossmember- Vehicle with Air Brakes	2.2 Hrs.
A40-01906-2	Replace Crossmember- Vehicle with Hydraulic Brakes	2.7 Hrs.

### ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number G-01906.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7-1. Special attention should be given to Items 39 through 44.

To assure this important improvement is made in a timely manner, all claims for G-01906 activity must be submitted by September 30, 2004 or within the normal warranty period for the vehicle, if after September 30, 2004.

GROUP	NOUN	C	WARR.	TP	PAD
GROUP Enter number G—	NOUN Leave blank	C (CAUSE) Enter either 1, 2, 3. (see below)	WARRANTY (Warranty Code) Enter 40.	TYPE PART Enter P for type part causing failure.	PAD Enter 100
		1. Inspected (No repair required).			
		2. Inspected and repaired.			
		3. Defective part from parts stock.			

Distribution: All except J-81

Reproduction: Not required.