



INSTRUCTION TO SERVICE

ITS: 58872

SECTION:	203 FRONT SUSPENSION
WRITTEN BY:	Michael Rooney
SUBJECT:	Retrofit "D" shaped anti sway bar mounting bushings and hardware.

ITS58872

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PROCEDURE:

1. Open the access door at the curbside rear of the bus and locate the High Voltage Interlock Switch and Battery Disconnect switches. Figure 1.
2. Disconnect and lock out the High Voltage Interlock Switch. Figure 1.
3. Rotate the Battery Disconnect Switch to the off position. Figure 1.

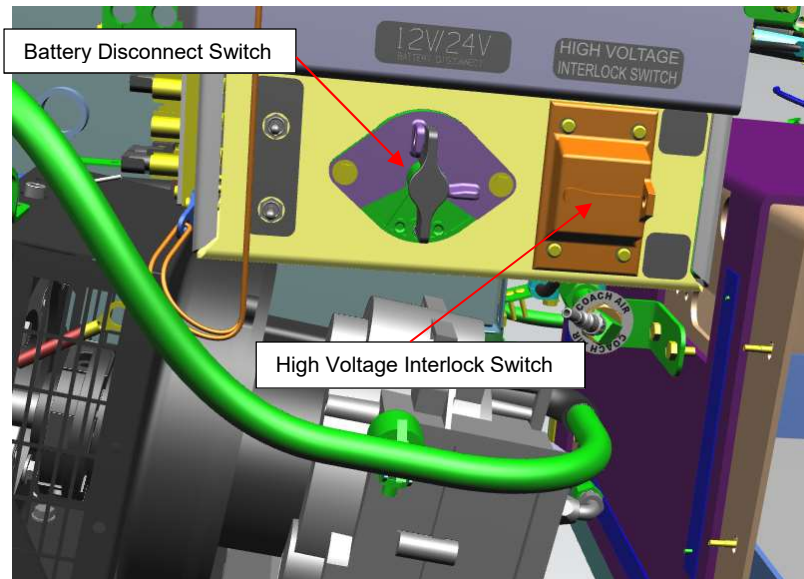


Figure 1: Electrical Disconnect Switches.

4. Raise coach in accordance with the New Flyer Service Manual.
5. Remove the 5/8" bolts and hardware that secure the anti-sway bar to the end links and set them aside.
6. Locate the front anti-sway bar mounts and bushings.
 - a. Remove the two 5/8" bolts that hold the curb side anti-sway bar mount bearings in place.
 - b. Remove the bearings and the bushings and spacers.
 - c. Remove the two 5/8" bolts that hold the street side anti-sway bar mount bearings in place.
 - d. Remove the bearings and the bushings and spacers.
 - e. Remove the anti-sway bar from the bus and set it aside.

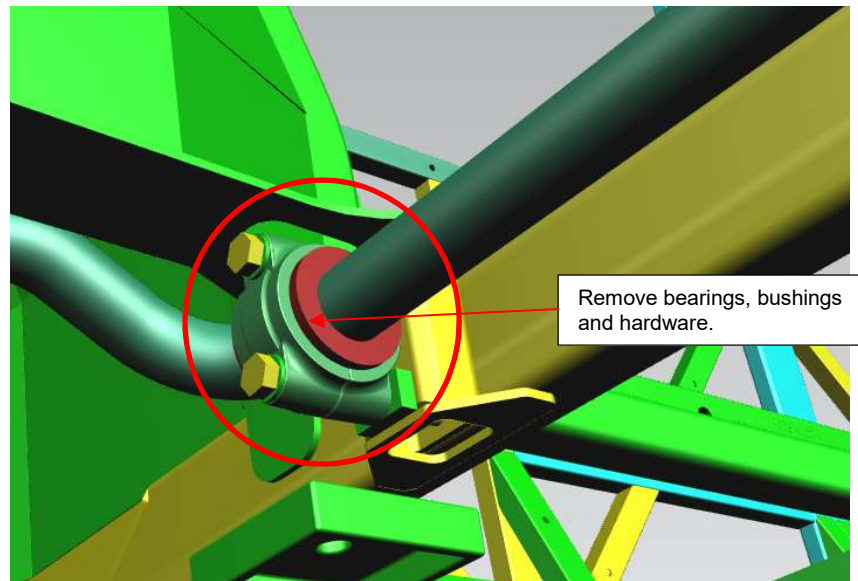


Figure 2: Existing Anti-Sway Bar Mounts and Bushings (Curbside Shown).

7. Bolt the new mounting bracket NF P/N 736363 to the original anti-sway bar mount on the curb side and the new mounting bracket NF P/N 730078 to the anti-sway bar mount on the street side using two bolts NF 10B10032 and two washers NF P/N 20W10000 and a girdle NF P/N 565103 on each bracket.
 - a. Using the two inboard holes on each bracket as a template, mark drilling locations on the chassis tube then remove the brackets and set them aside for reinstallation later.
 - b. Drill two 0.531" dia (17/32) holes through both sides of the chassis tube. Take care to drill perpendicular to the chassis tube.
 - c. On the back side of the chassis tube only, enlarge the holes to 1.00" dia. There is a drilling jig XC-AF-2629 available for loan from New Flyer that may be used to aid drilling these holes, see your local Regional Product Support Manager (RPSM) for availability.

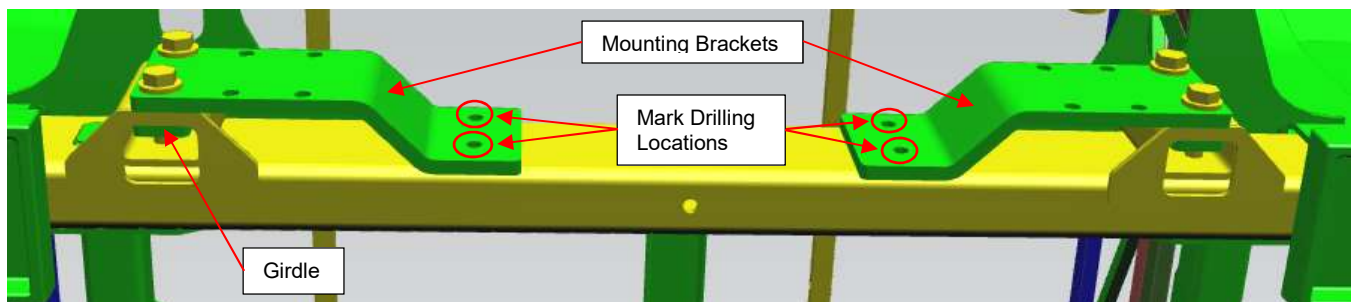


Figure 3: Brackets Mounted to Mark Drilling Locations.

8. Remove the corashield corrosion protection on the front surface of the chassis tube where the mounting brackets will sit and on the rear of the tube where the plates will sit.
9. Reinstall the mounting brackets and backing plates NF P/N 800521 as before using Never Seize NF P/N 5928660 on the bolt threads.
 - a. Insert Sleeves NF P/N 730549 from the backside of the chassis tubes.
 - b. Install four Bolts NF P/N 10B08072, four Washers NF P/N 20W08000 (under bolt heads), four Nuts NF P/N 40N08000 and four Washers NF P/N 739801.
 - c. Torque the two outer bolts on each mounting bracket to 170 FT-LB and torque the inner bolts that pass through the frame member to 80 FT-LBS.
10. Install the sway bar mount bushings NF P/N 670150 on the swaybar using a generous amount of Aquashield water proof grease NF P/N 584243 on the inside surfaces of the bushings.
11. Raise the anti-sway bar back into position in the bus and align the bushings with the mounting brackets. Ensure that the flat face of the bushing is against the mounting bracket.
 - a. Install a bearing block NF P/N 670159 over each mounting bushing.
 - b. Secure each bearing block with four bolts NF P/N 10B10072 and four Washers NF P/N 20W10000 using Never Seize NF P/N 5928660 on the bolt threads. Snug the bolts but do not torque.
 - c. Install a Zerk fitting NF P/N 739737 in each bearing block. Ensure that the nipple faces downward.

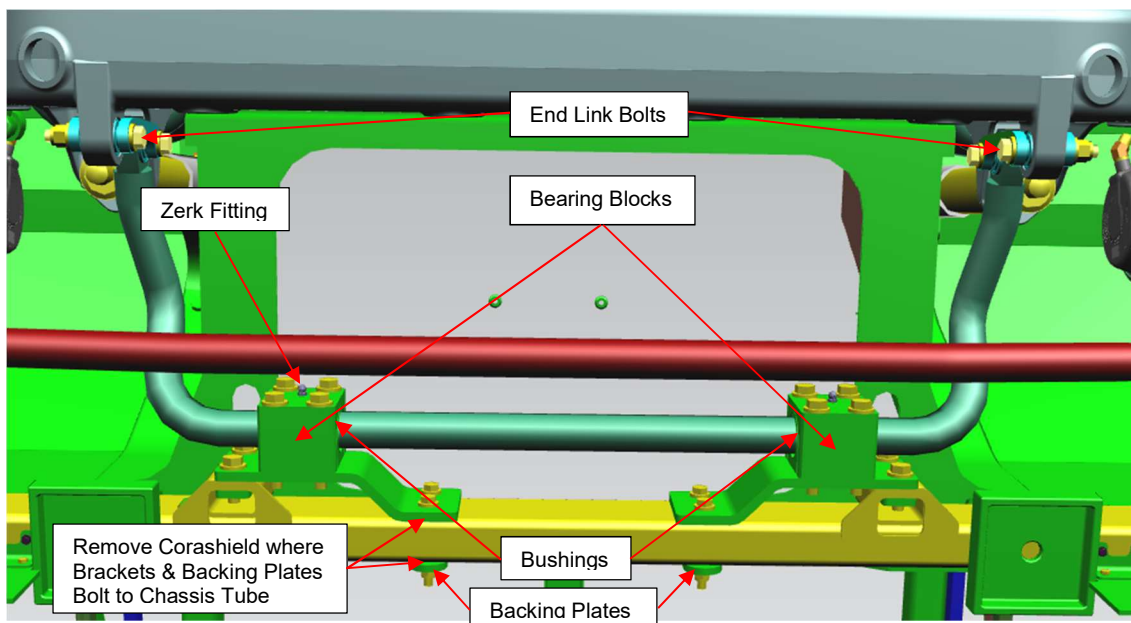


Figure 4: Completed Installation.



12. Re-attach the sway bar to the end links using the 5/8" hardware set aside earlier. Snug the hardware but do not torque.
13. Lower coach in accordance with the New Flyer Service Manual.
14. Remove the lock and reconnect the High Voltage Interlock Switch. Figure 1.
15. Rotate the Battery Disconnect switch to the on position. Figure 1.
16. Switch the bus on and allow the bus to reach normal ride height then raise the bus with wheel lifts or position bus over a service pit.
17. Torque the anti-sway bar mount bearing block bolts to 170 Ft-LBS at ride height.
18. Torque the sway bar end link hardware to 189 Ft-LBS at ride height on both sides.
19. If necessary, lower coach in accordance with the New Flyer Service Manual.
20. Remove all tools and debris and return the bus to service condition.

LABOUR ESTIMATE

	Operation	Men	Hours	Labour Time M X HR
1	Retrofit "D" shaped anti sway bar mounting bushings and hardware.	1	3.0	2.0

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	736363	BRKT – STABILIZER BAR	1	EA	
2	730078	BRKT – STABILIZER BAR	1	EA	
3	10B10032	BOLT – HEX 5/8 UNC X 2.00	4	EA	
4	20W10000	HARDENED WASHER – 5/8	12	EA	
5	5928660	NEVER SEIZE	0.01	EA	
6	730549	SLEEVE – STABILIZER BAR	4	EA	
7	10B08072	BOLT HEX 1/2" 13 UNC X 4 1/2" LG	4	EA	
8	20W08000	WASHER FLAT HARDENED 1/2"	4	EA	
9	40N08000	NUT – HEX LOCK 1/2 UNC	4	EA	
10	739801	WASHER – 2.00 X .525 X .179	4	EA	
11	670150	BUSHING – STABILIZER BAR	2	EA	
12	584243	AQUASHIELD - GREASE	0.01	EA	
13	670159	BLOCK – STABILIZER BAR	2	EA	
14	10B10072	BOLT – HEX 5/8 UNC X 4.50	8	EA	
15	739737	FITTING – ZERK 90 DEG	2	EA	
16	565103	BLOCK – SWAY BAR GIRDLE	2	EA	
17	800521	PLATE-SWAY BAR BACKING	2	EA	

SPECIAL TOOLS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	XC-AF-2629	Drilling Jig	1		See RPSM