



Technical Service Bulletin

*****Attention this is not a recall*****

Please read the entire Bulletin before proceeding with any work. Contact Rosenbauer America if there are any concerns with information contained in this document.

Subject: Wiper Pivot Retaining Nuts

Applies To: 2012 to current Rosenbauer Commander Chassis.

Condition: The large hex retainer nut on each wiper pivot may become loose and could cause damage or misalignment of wiper system.

Correction: Install thread locking adhesive to each retaining nut.

Parts needed: If after your inspection, you notice that there are damaged parts, you can refer to this list and call Rosenbauer America for replacements.

Figure 1

	<u>Item</u>	Description
1	8600847-001	Linkage Assembly
2	8600848-001	Wiper Motor Assembly
3	8600853-001	Check-valve
4	8600851-001	Washer Tee
5	8600852-001	Bulkhead Fitting
6	8601153-001	Washer Fluid Support Assembly
7	8600849-001	Washer Tubing, 10'
8	8600850-001	4-Qt 14V Metri Pack, Remote Fill
9	8600845-001	26" Radial Arm Wet
10	8600846-001	26" Wiper Blade

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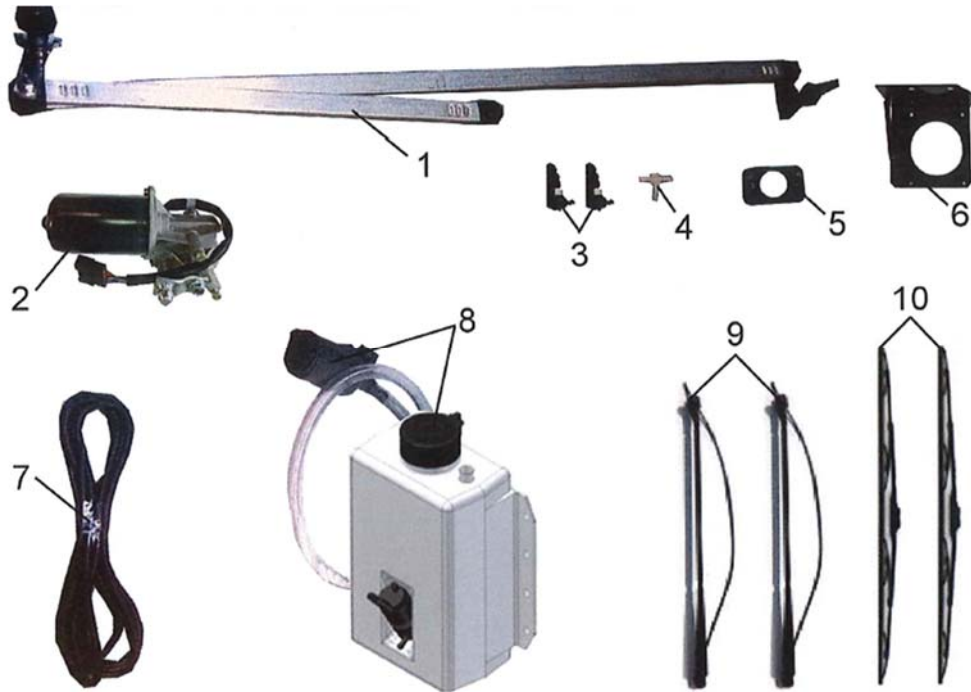
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Figure 2



Tools Needed:

1. 15/16" open-end wrench
2. 15/16" crowfoot wrench (to fit torque wrench)
3. Small torque wrench
4. 9/16" socket wrench (to fit torque wrench)
5. #2 Phillips screwdriver
6. Masking tape
7. Loctite® 243™ or equivalent thread locking adhesive

Time Allowed: One hour.



Instructions:

1. Before removal, note any damaged parts.
2. Mark position of wiper arm assemblies on windshield with masking tape for ease of reassembly (Photo 1).
3. Remove black acorn nut, lock-washer, wiper arms, knurled drive, rain cap and 15/16" Outer Nut (Photo 2 and Figure 3, items 1-5).
4. Remove 3 Phillips screws to remove cowling covers (Figure 4).
5. Remove 15/16" Jam Nut (Figure 3 Item 9, also Photo 2, large red arrow) with hand wrench; if damaged, replace with replacement parts. Do not remove the bulkhead fittings beneath this nut, and make certain they remain properly positioned during re-installation.
6. Apply thread locking adhesive to pivot threads and install the Jam Nut, torquing it 20 Newton-meters (N-m), or 14.75 ft-lbs.
7. Reinstall components in reverse order, use Photo 2 and Figure 3 for reference. Also torque the 15/16" Outer Nut (Figure 3, Item 5 inside the rain cap, see also mid-size yellow arrow, Photo 2) to 20 N-m, (+/-3), but use no thread-lock here.
8. Reinstall wiper arm assemblies in pre-marked positions. Torque the acorn nut (small blue arrow, Photo 2) to 14 N-m/10.33 ft-lbs.
9. Test operation to verify for alignment and clearance of wiper system under cowling.
10. Install TSB decal in officers kick panel. See Figure 5 below for guidance if necessary.

Photo 1.

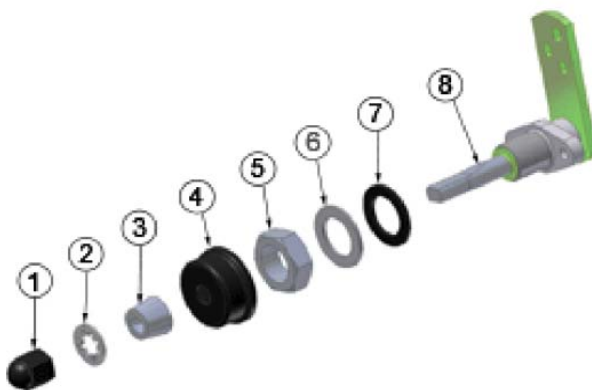


Photo 2.



Note that both rubber and metal flat washers (#6 and #7 on Figure 3) mounted between the rain cap and Outer Nut (#4 & #5) and cowl are installed only on the driver-side mount; there are none on the passenger side.

Figure 3. (Pivot Shaft Assembly)



1. 9/16" Acorn Nut
2. Lock Washer
3. Knurled Drive
4. Rain Cap
5. 15/16" Outer Nut (torque 20 N-m)
6. Metal Washer
7. Rubber Washer
8. Pivot Shaft
9. 15/16" Jam Nut (not shown, between 7 & 8, see Photo 2, large red arrow, torque to 20 N-m)
10. Bulkhead Fitting (not shown, stays between 7 & 8 under Jam Nut), see Photo 2, large red arrow)

Figure 4. (Cowl Screw Locations)

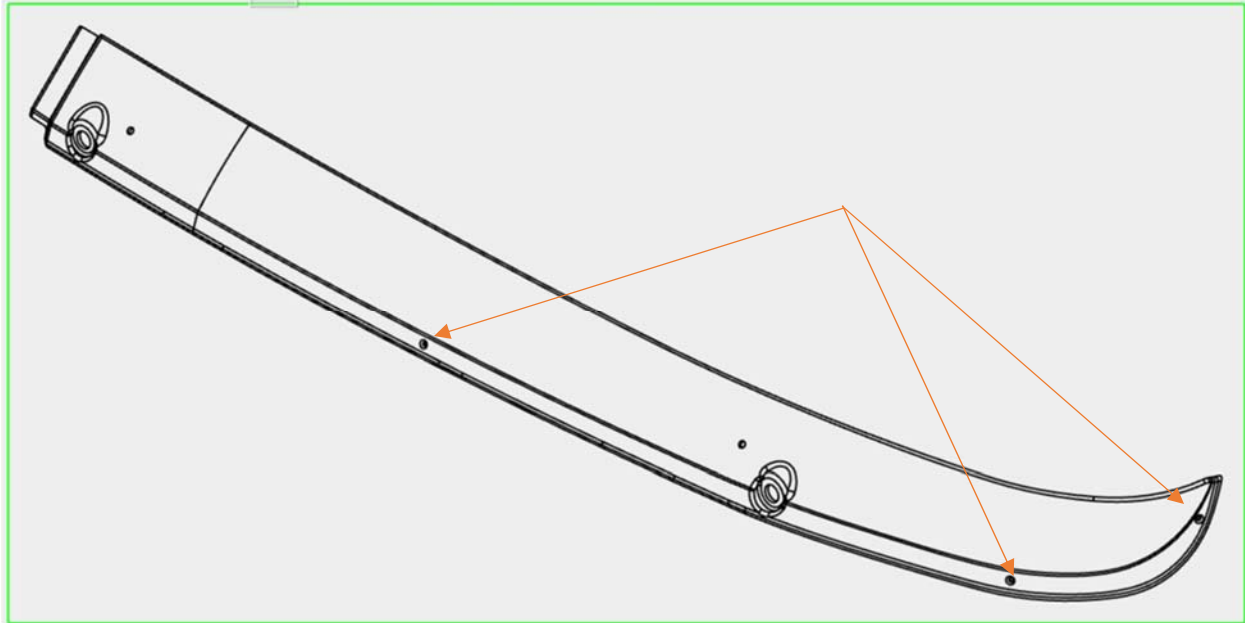


Figure 5

Decal Installation Instruction

Located in officer side kick panel.



Open officer side
kick panel.



Install decal here with TSB
number and date completed.

