FIREMAAX	EX	E	QUIK-ALIGN for PRIMAA	I® Pivo X®EX•	LY TIONS of Bushing Tool FIREMAAX® EX
	PRIMAAX® EX		SUBJECT: Tool N LIT NO: 59310-0 DATE: January 20	61	203L REVISION: B
INTRODUCTION	QUIK-ALIGN® pivot bu with PRIMAAX® EX • F Refer to the approprio and safety instruction	ushings with the he IREMAAX® EX rear ate Hendrickson Te s regarding the pa	elp of Hendrickson Tool suspensions. chnical Procedure and	l No. 6608 other pub IREMAAX	the installation / removal of 6-203L for vehicles equipped lications for complete service EX rear air suspension on your ndrickson-intl.com
SERVICE HINT	of QUIK-ALIGN pivot	bushings. The tool to the receiving cy	l allows the existing pi	vot bushir	the installation and removal ng to be pushed out from the redure to push in the replace-
FIGURE 1 NOTE Apply NLGI #2–EI chassis lubricant face of the thrust and to the drive so that will engage th the receiving cylin Apply P80 lubrica to the face of the lead-in flange and the outer diamete NEW pivot bushin	Part No. 6608 Pro each washers brough ider. Int r of	ivot Bushing Tool 6-203L Replacement Pivot Bushing	Lead-in Flange Face Spacer	U	beam Assembly Receiving Cylinder

U-BEAM ASSEMBLY REMOVAL



A TECHNICIAN USING A SERVICE PROCEDURE OR TOOL WHICH HAS NOT BEEN RECOMMENDED BY HENDRICKSON MUST FIRST SATISFY HIMSELF THAT NEITHER HIS SAFETY NOR THE VEHICLE'S SAFETY WILL BE JEOPARDIZED BY THE METHOD OR TOOL SELECTED. INDIVIDUALS DEVIATING IN ANY MANNER FROM THE INSTRUCTIONS PROVIDED WILL ASSUME ALL RISKS OF CONSEQUENTIAL PERSONAL INJURY OR DAMAGE TO EQUIPMENT INVOLVED.

- 1. Remove the U-beam assembly from the vehicle per the U-beam Disassembly procedure in the appropriate PRIMAAX EX FIREMAAX EX Technical Procedure.
- 2. After removal, place U-beam assembly on the floor or suitable work area.





PIVOT BUSHING

When replacing a pivot bushing it is recommended to replace BOTH pivot bushings on the U-beam assembly.

To replace the QUIK-ALIGN pivot bushing you will need:

- QUIK-ALIGN pivot bushing tool (Hendrickson Part No. 66086-203L), see Figure 1
- ¾" Impact wrench (impact gun), some ½" impact wrenches may work

REMOVAL

- 1. Install the pivot bushing tool as shown in Figure 2.
- 2. Remove and discard thrust washers (if equipped) and any loose rubber or debris from the existing pivot bushing.
- 3. Apply NLGI #2–EP (Extreme Pressure) chassis lubricant to each face of the thrust washers and to the drive screw that will engage through the receiving cylinder, see Figure 2.
- 4. Snug the threaded drive screw to hold the thrust washers, spacer, U-beam assembly with the existing pivot bushing and the receiving cylinder in place, see Figure 3.
- 5. Using a ³/₄" impact wrench, rotate the drive screw in a continuous motion without stopping until the pivot bushing is removed from the end hub. The existing pivot bushing will enter into the receiving cylinder, see Figure 3.
- 6. Remove and discard pivot bushing.
- 7. Repeat steps 1 through 6 for other side of the U-beam assembly, as recommended.

FIGURE 2

NOTE





END HUB INSPECTION

1. Inspect the inner bore of the U-beam assembly end hub and remove any loose debris or rubber residue from the bushing mating surface.

INSTALLATION

- 1. Clean the inner diameter of the U-beam assembly end hub with brake cleaner.
- 2. Apply NLGI #2–EP (Extreme Pressure) chassis lubricant to each face of the thrust washers and to the drive screw that will engage through the receiving cylinder, see Figure 5.

DO NOT use petroleum or soap base lubricant, it can cause an adverse reaction with the bushing material, such as deterioration. P-80 lubricant is supplied in the QUIK-ALIGN Pivot Bushing Kits.

- 3. Apply P-80 lubricant to the:
 - Heavy-duty Pivot Bushing the face of the lead-in flange, to the outer diameter of the replacement pivot bushing and to the inner diameter of the U-beam assembly end hub, see Figure 5.
 - Severe-duty Pivot Bushing the face of the lead-in flange and to the outer diameter of the severe-duty pivot bushing, see Figure 6. DO NOT apply to U-beam end hub.



NOTE

- 4. Snug the threaded drive screw to hold the thrust washers, spacer, pivot bushing, and U-beam assembly with the receiving cylinder in place, see Figures 7 and 8.
- 5. Using a ³/₄" impact wrench, rotate the drive screw in a continuous motion without stopping until the pivot bushing is seated in the hub and slightly overshoots the opposite end of the hub. It is necessary to overshoot the desired final position, see Figures 9 and 10.



6. Remove and reverse the installation tool, then from opposite side of the hub press the pivot bushing again to center the bushing within the beam end hub, see Figures 11 and 12. Center the pivot bushing to help prevent bulging and bushing preload. This is known as the "Bump Back" procedure.



the bushing itself.

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- 7. Severe-duty Pivot Bushings Snap the thrust washers onto the bushing, (see Figure 13) and ensure there is free play on both washers, see Figure 14. If one washer does not seat properly or is very snug use a dead blow hammer to center the bushing. If a dead blow hammer is not sufficient, the installation tool must be used to perform a secondary "Bump Back" procedure to center the bushing, refer to step 6 and see Figure 12.
- 8. Repeat for the other side of the U-beam assembly, as recommended:
 - Heavy-duty Pivot Bushings Steps 1 through 6.
 - Severe-duty Pivot Bushings Steps 1 through 7.
- 9. Allow the lubricant four (4) hours to dissipate before fully operating the vehicle.



U-BEAM ASSEMBLY INSTALLATION

1. Follow the U-beam assembly installation procedure as detailed in the appropriate PRIMAAX EX • FIREMAAX EX Technical Procedure for your vehicle.

Refer any questions on this publication to Hendrickson Tech Services.



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