

## BIRRANA A10220 SUSPENSION PIN TO SUIT KOMATSU 830E REAR STRUT, 930E "ANTI-SWAY BAR"

### ASSEMBLY INSTRUCTIONS

Most accidents involving machine operation or maintenance are caused by failure to observe basic safety rules or safety precautions. Read and understand all safety precautions and warnings, before attempting installation and operation of this component.

H-E Parts International cannot anticipate every possible circumstance that may involve a potential hazard. You must comply with all mine-specific safety procedures, and satisfy yourself that any procedure, tool or operation method used is safe for yourself and others.

Refer to the truck manufacturer's repair and maintenance instructions in conjunction with these instructions where applicable. Obey all recommended safety instructions or warnings.

Before working on any equipment make sure that the work area is safe, and that the equipment is tagged and locked out in accordance with mine safety procedures.

#### NOTE

Birrana A10220 suspension pin assemblies have been designed to suit housing bores which have been machined to accept OEM top-hat bushes. These bushes must be removed prior to installation of the pins.

1. Remove the original pins as per manufacturer's instructions.
2. Remove the top-hat bushes from the housing bores. These bushes are not used when Birrana pin assemblies are installed.
3. Ensure that the pin components, housing bores, and the surrounding areas are clean. The housing bores must measure  $\varnothing 145.87/145.82$ . If the bores do not measure within specification, the bores must be reworked.
4. Install the bearing assemblies and snap rings into the chassis and axle housing bores as per manufacturer's instructions. Pre-lubricate the bearing with grease.
5. Apply "Never-seize" (or similar product) to the inside and outside diameters of the sleeves.
6. Fit the spacers on each side of the bearing, and assemble the pin through the bearing and spacers. Fit the sleeves and circlips.
7. Loosely fit the collets to the housing bores. Tap the collets inwards, using a soft-faced hammer to engage the taper on the pin.
8. Apply Loctite 262 to the bolt threads. Install bolts with the shields and washers and tighten finger tight only. DO NOT tighten the bolts at this stage. Keep the pin positioned centrally in the bearing.
9. Tighten the collet bolts evenly and incrementally on each end of the pin in turn to ensure that the pin remains roughly central in the bearing. The final torque should be 630 Nm (470 ft.lb).
10. Ensure that the collets are properly seated by re-torquing the bolts until there is no further bolt movement.
11. Fit the grease nipples into the ends of the collets.
12. Use the grease nipples to slowly fill the collets with grease, until the grease can be seen at the locations illustrated.
13. At the next service interval, check the collet bolt torques. If below 630 Nm (470 ft.lb), use the procedure in step 8 to re-torque the bolts.

*Note: The purpose of the grease is not to lubricate the pin, but simply to prevent corrosion and make disassembly easier at a later stage.*

*If you require any further assistance with this procedure please contact your local H-E Parts representative.*

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## DISASSEMBLY INSTRUCTIONS

Most accidents involving machine operation or maintenance are caused by failure to observe basic safety rules or safety precautions. Read and understand all safety precautions and warnings, before attempting installation and operation of this component.

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*Note: If the collets are undamaged, they may be used again. However, it is advisable that they are replaced with new ones. The old pin should not be reused and should always be replaced with a new pin.*

1. Undo the 6 off 7/8" bolts, and remove from the collets.
2. Use the three 5/8" UNF jacking holes to extract one collet from its bore.
3. Using the jacking holes, extract the remaining collet from its bore.
4. Remove one or both circlips and sleeves. The pin and spacers can now be removed.

