MAINTENANCE INFORMATION Mi03-24

ENREGISTRÉ - REGISTERED
ISO 9001 & ISO 14001

DATE : **December 2003**	**SECTION : 13 - Wheels, Hubs Tires**
SUBJECT :	**WHEEL BEARING POSITIONING AND TIGHTENING OF HUB NUT ON DANA AXLES**

***Important Notice**: This modification is recommended by Prévost Car to increase your vehicle's performance. Note that no reimbursement will be awarded for carrying out this modification.*

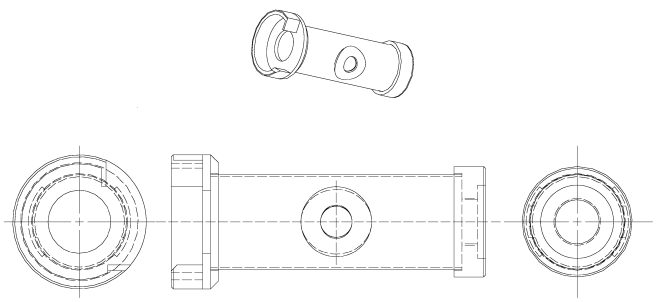
APPLICATION

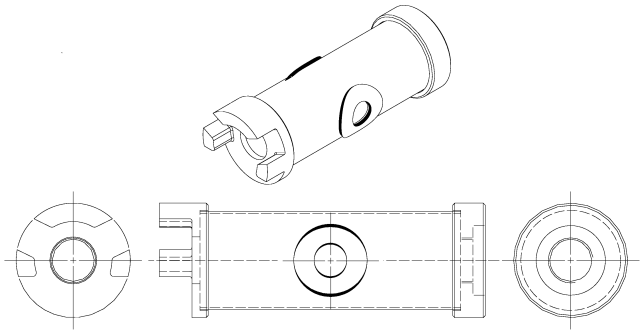
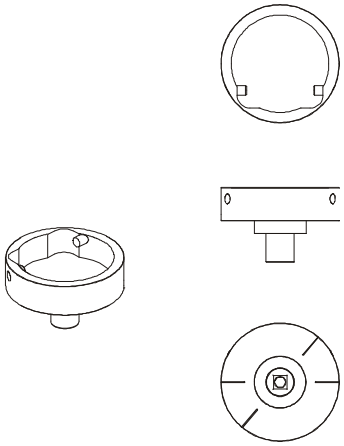
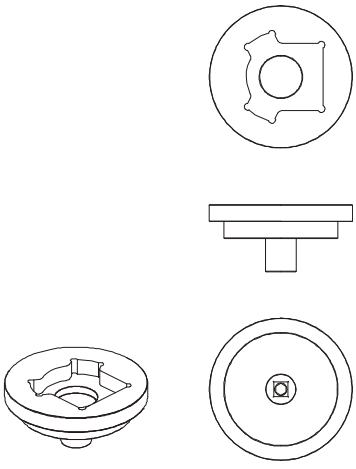
Model	VIN
H3 Vehicles Model Year: 1994 – 2003	From 2P9H33494R1001020 up to 2PCH3349831014757 incl.
XL Vehicles Model Year: 1996 – 2000	From 2PCE33496T1025873 up to 2PCL33493Y1027045 incl.
XLII Vehicles Model Year: 2000 – 2003	From 2PCW33499Y1027046 up to 2PCW3349831028164 incl.

DESCRIPTION

On the above-mentioned vehicles, proper tools are available for the positioning of the wheel bearings and tightening of hub nut. Use the corresponding tool for the axle and type of vehicle.

MATERIAL

Part No	Description	Use
490845	Positioning Tool, Bearing 	Front Axle – H3 Vehicles From R-1020 up to 3-4757 Front Axle – XL Vehicles From T-5873 up to Y-7045 Front Axle – XLII Vehicles From Y-7046 up to 3-8164

490912	Positioning Tool, Bearing 	Tag Axle – H3 Vehicles From W-2489 up to 3-4757 Tag Axle – XL Vehicles From W-6585 up to Y-7045 Tag Axle – XLII Vehicles From Y-7046 up to 3-8164
684735	Tightening Tool, Hub Bearing Nut 	Front Axle – H3 Vehicles From R-1020 up to 3-4757 Front Axle – XL Vehicles From T-5873 up to Y-7045 Front Axle – XLII Vehicles From Y-7046 up to 3-8164
684735	Tightening Tool, Hub Bearing Nut Same as above	Tag Axle – H3 Vehicles From R-1020 up to W-2488 Tag Axle – XL Vehicles From W-6466 up to W-6584
684734	Tightening Tool, Hub Bearing Nut 	Tag Axle – H3 Vehicles From W-2489 up to 3-4757 Tag Axle – XL Vehicles From W-6585 up to Y-7045 Tag Axle – XLII Vehicles From Y-7046 up to 3-8164

Note: *Material can be obtained through regular channels.*

PROCEDURE

Warning: *Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.*

1. Check if lined-up punch marks are present on spindle.
2. Make sure that the brake assembly is installed (rotor-caliper-chamber).
3. Install oil seal, wheel bearing and bearing cup into hub wheel.
4. Install hub wheel on spindle.
5. Install remaining cup then bearing.
6. Fasten the appropriate bearing positioning tool (490845 or 490912) in order to properly sit the bearings into their housing.
7. Install the thrust washer on spindle.
8. Tighten the adjustable nut to a torque of 80 lbf-ft (109 Nm) using the appropriate tightening tool (684734 or 684735) depending on the axle and type of vehicle.

Note: *Turn the hub wheel while tightening to ensure that bearings are seated correctly.*

9. Untighten the adjustable nut by 50° referring to markings on tool.
10. Tighten the adjustable nut fixing bolt to a torque of 24-26 lbf-ft (33-35 Nm).
11. Check if punch marks are lined-up again. If after tightening, punch marks cannot be realigned, check hub axial play (end float) using a dial indicator.
12. To do so, mount a dial indicator on hub flange and position its pointer on end of axle stub.
13. Rock the hub backwards and forwards along axle arm, taking a reading on dial indicator. The correct axial play is between limits 0.0005” to 0.002” (0.13 to 0.050 mm).
14. Adjust if outside specified limits.

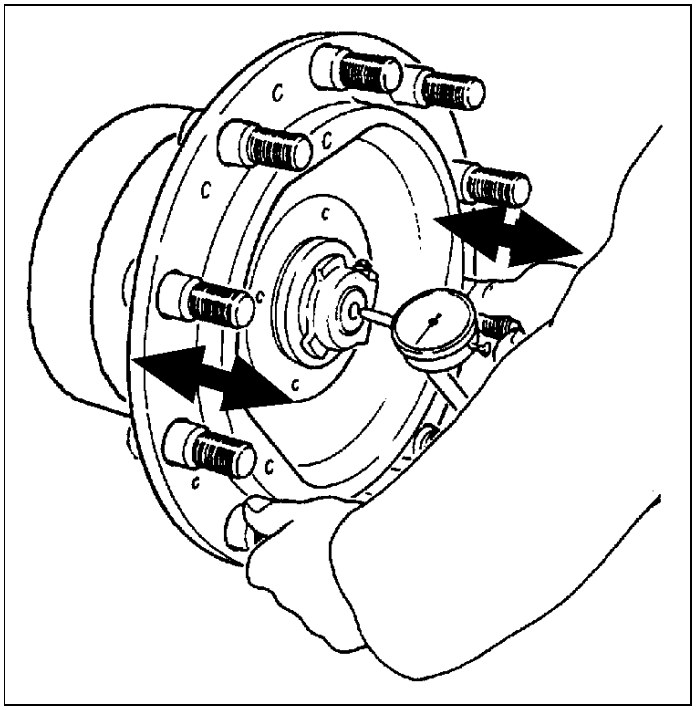


FIGURE 1: CHECKING AXIAL PLAY

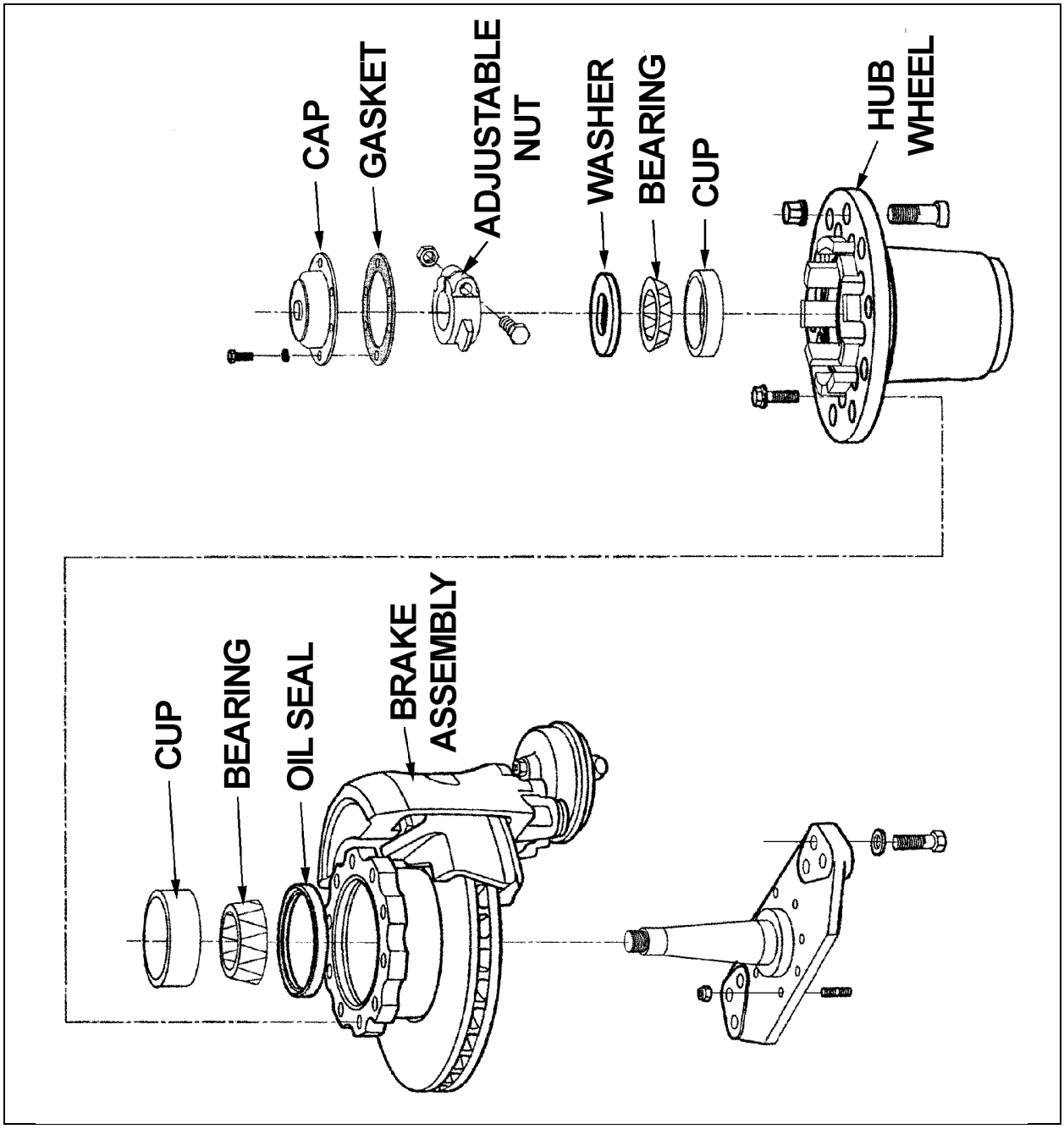


FIGURE 2 : HUB AND ROTOR ASSEMBLY – TAG AXLE (TYPICAL)