

PREVOST

ENREGISTRÉ - REGISTERED
ISO 9001 & ISO 14001

**MAINTENANCE
INFORMATION**

Mi03-01A



DATE : APRIL 2007	SECTION : 12 - Brakes
SUBJECT : DISC BRAKE TO DRUM BRAKE CONVERSION SET FOR FRONT AXLE	

REVISION : A

ADDITION OF PULSE WHEELS TO THE MATERIAL LIST

IMPORTANT NOTICE
This modification is recommended by Prevost Car to increase your vehicle's performance. Note that no reimbursement will be awarded for carrying out this modification.

APPLICATION

Model	VIN
H3-40 Coach Model Year : 1990 - 1994	From 9P9H33408L1001031 up to 2P9H33402R1001079 incl.
XL-40, XL-45 Coach Model Year : 1993 - 2000	From 2P9M33499P1001722 up to 2PCL33493Y1027045 incl.

DESCRIPTION

A Meritor conversion kit is available to convert disc brakes to drum brakes on Rockwell 2FG-952-CAX-XXX type front axle. This kit is suitable for stud-mounted wheels with or without Anti-lock Braking System (ABS).

Take note that all the replacement parts for this kit are already available at your Prevost Parts Centers. See your parts manual under FRONT AXLE – BRAKE PARTS – MPS4680.

MATERIAL

Part No	Description	Qty
611336	Brake assembly	1
611337	Hub and drum assembly, left	1
611338	Hub and drum assembly, right	1
142503	Wheel, Pulse (Tooth Wheel) for ABS brakes	2

NOTE

Material can be obtained through regular channels.

PROCEDURE



DANGER

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. The conversion kit is only suitable for Rockwell 2FG952-CAX axle. Check the type of axle on your vehicle before ordering parts (figure 1).

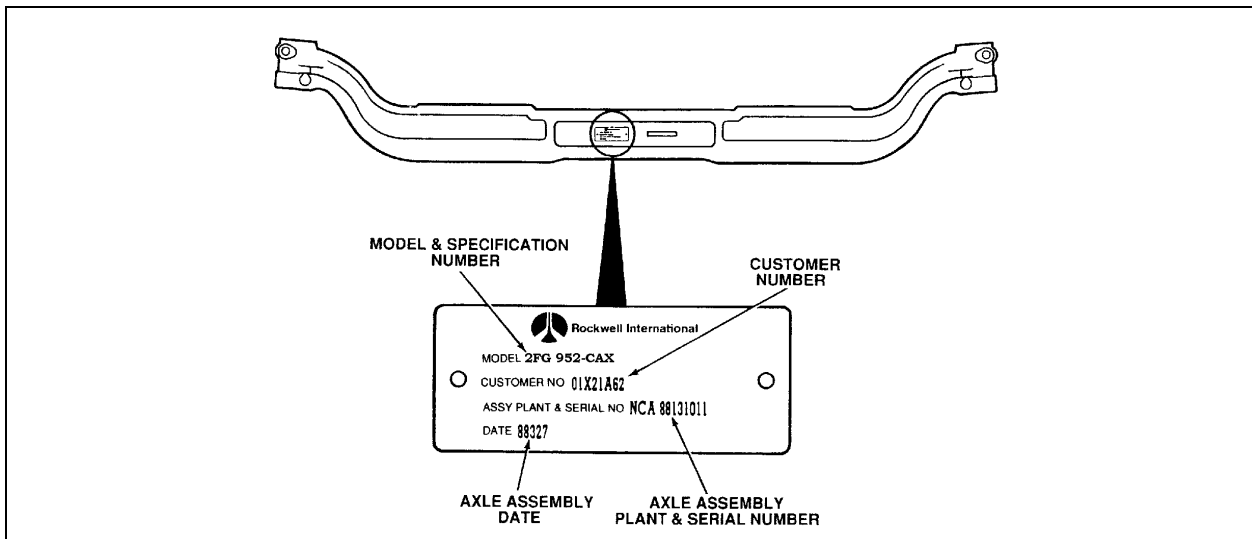


FIGURE 1: FRONT AXLE DATA PLATE

2. Raise the vehicle. Remove the front wheels and the existing hub and brakes.
3. Clean the steering knuckle flange. Remove the rust and grind smooth the steering knuckle flange. Clean the spindle.

Brake installation

Install the brake spider on the steering knuckle flange. The air brake chamber must be in the uppermost position. Use bolts (9), washers (8) and (7) and nuts (10). Thin washers (8) are to be outboard (bolt head side). Torque nuts to 150-190 lbf·ft (203-258 N·m) (figure 2 & 3).

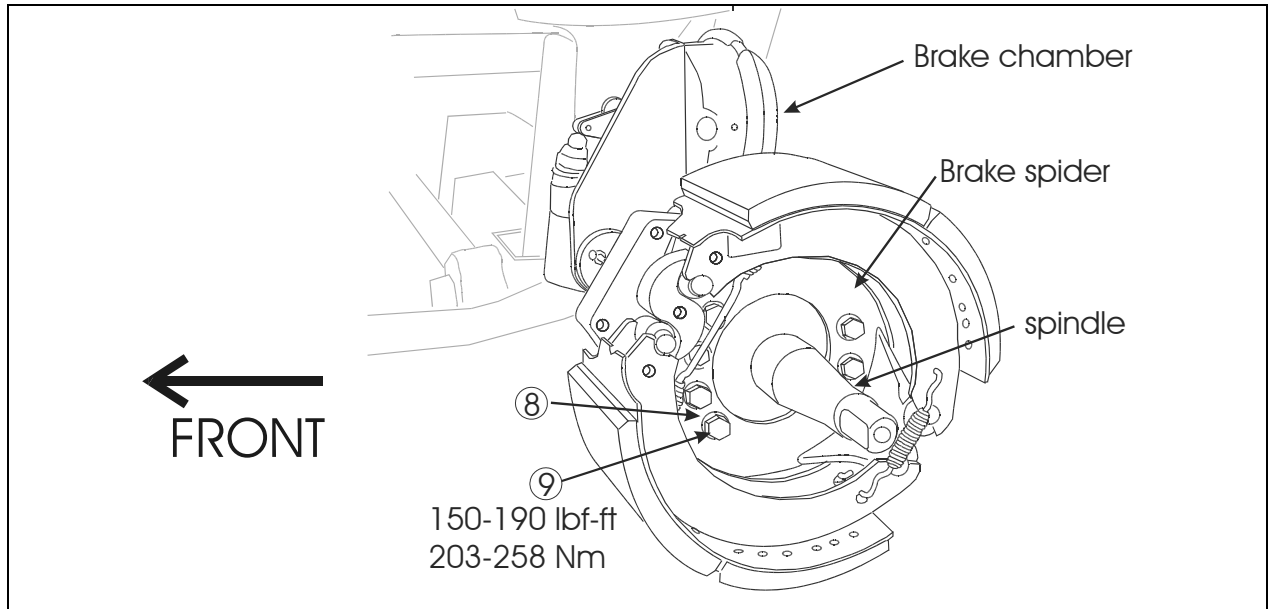


FIGURE 2: BRAKE SPIDER INSTALLATION

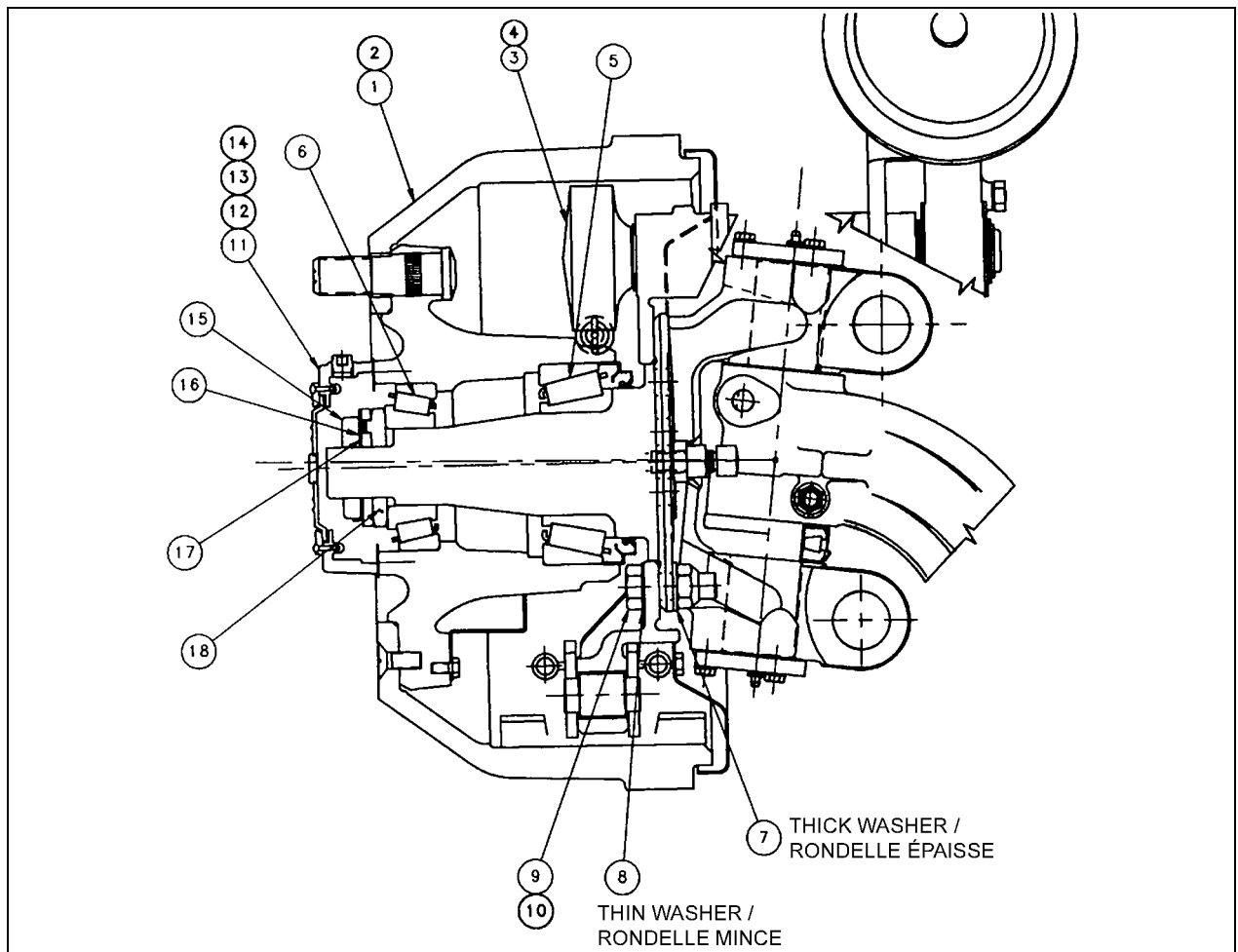


FIGURE 3: VIEW OF THE HUB AND BRAKE ASSEMBLY

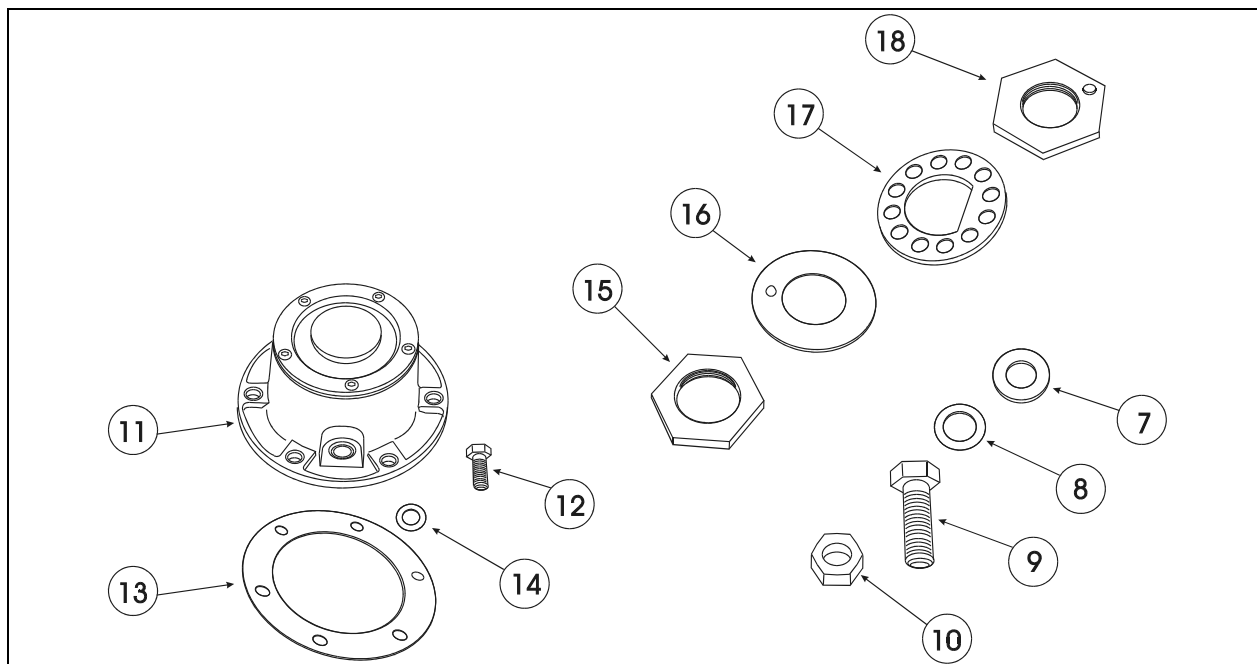


FIGURE 4

ITEM	DESCRIPTION	QUANTITY
SEE FIGURE 3 & 4		
1	Hub and drum assembly, L.H. side	1
2	Hub and drum assembly, R.H. side	1
3	Brake assembly, L.H. side	1
4	Brake assembly, R.H. side	1
5	Cone bearing, inner	2
6	Cone bearing, outer	2
7	Washer, flat inner (thick)	14
8	Washer, outer (thin)	14
9	Bolt, 5/8-11	14
10	Nut,-lock, fin 5/8-11	14
11	Hub cap oil reservoir	2
12	Screw, Cap 5/16-18	12
13	Gasket	2
14	Washer, flat	12
15	Nut, jam	2
16	Washer, lock	2
17	Ring, lock	2
18	Adjusting nut	2

Hub installation

NOTE

To ease installation, dismount the drum from the hub. Right hub has studs marked "R" and left hub has studs marked "L".

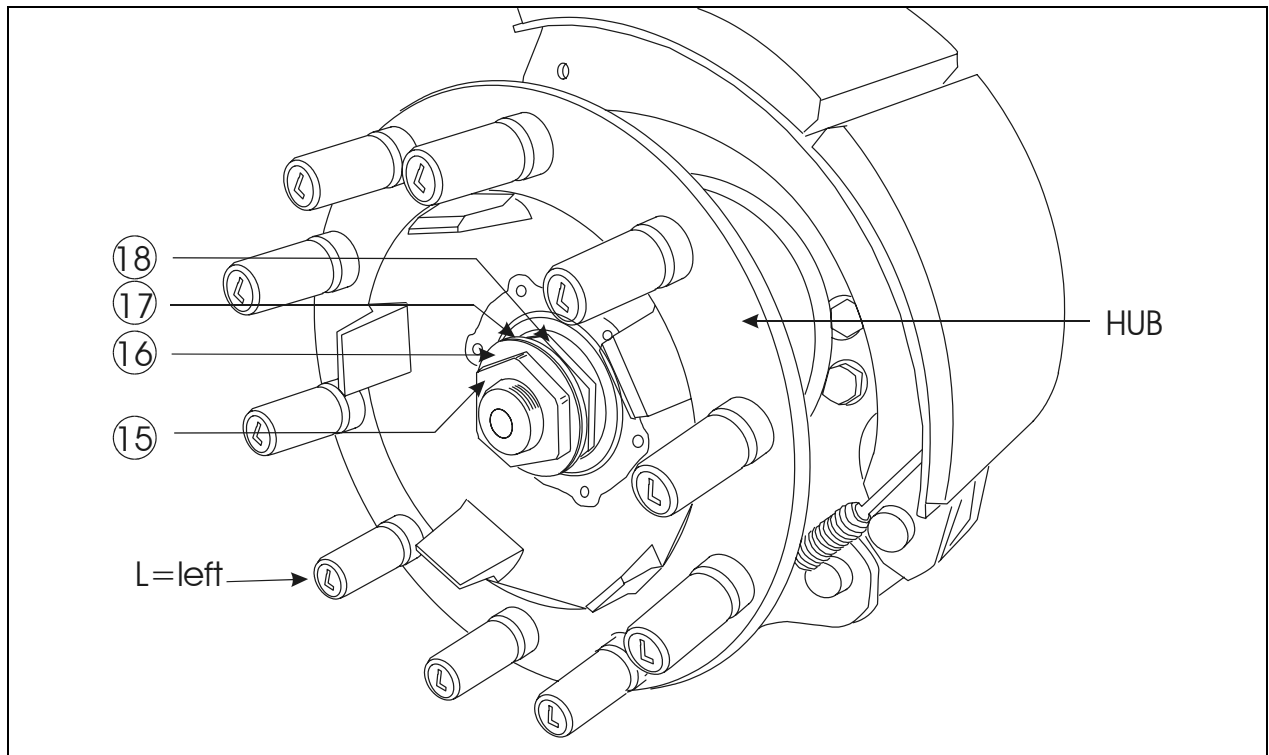


FIGURE 5: HUB INSTALLATION

1. Make sure the spindle is clean and free from foreign matter. Lightly lube the spindle bearing diameter and oil seal with multipurpose grease.

NOTE

If vehicle is equipped with ABS brakes, install pulse wheel (tooth wheel).



CAUTION

When installing the hub on the spindle, do not rock hub assembly since this can damage the seal.

2. Assemble hub assembly on spindle until inner bearing is seated.
3. Tighten the adjusting nut (18) to a torque of 100 lbf·ft (136 N·m). Torque while rotating the wheel in both direction to make sure all bearing surfaces are in contact.
4. Loosen the adjusting nut (18) completely and torque to 20 lbf·ft (27 N·m) while rotating the wheel.
5. Back off the adjusting nut 1/3 turn.
6. Assemble in the following order, the wheel bearing lock ring (17), the thin jam nut washer (16) and the jam nut (15). Tighten the jam nut to a torque of 200-300 lbf·ft (271-407 N·m).
7. Attach a dial indicator with the magnetic base at the bottom hub. Adjust the dial indicator so that the pointer is against the center of the spindle. Measure the end play by pushing/pulling on each side of the hub while looking at the dial indicator. The end play is the total travel observed. If the end play is not within 0.001-0.005 inch (0.025-0.127mm) readjust the adjusting nut (18).

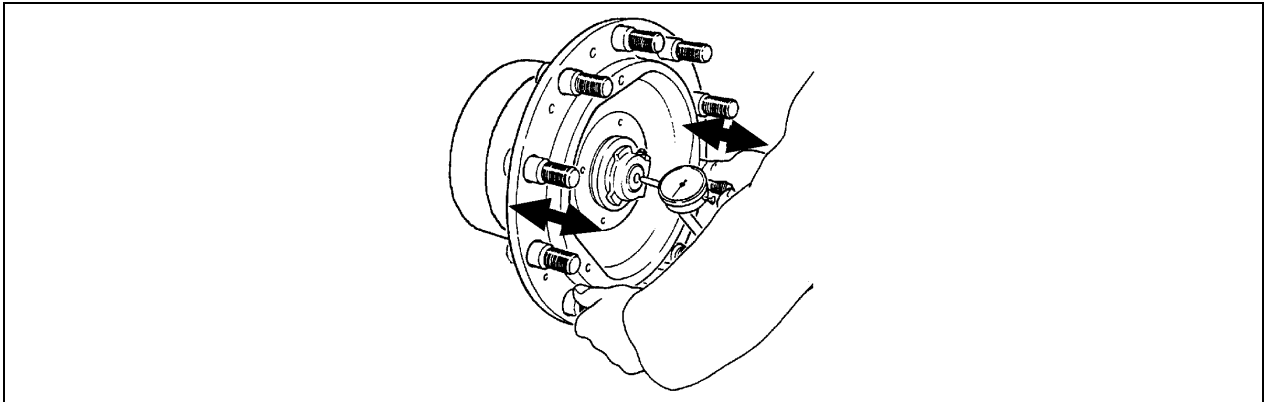


FIGURE 6: MEASURING THE ENDPLAY

8. Bend the lock washer (16) on the jam nut (15).
9. Install the brake drum.

Hub cap oil reservoir installation

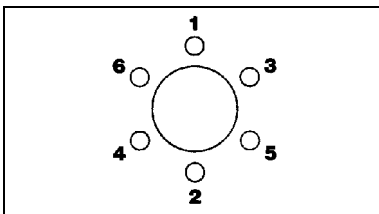


FIGURE 7: TIGHTENING SEQUENCE

1. Make sure the mating surfaces are clean and free from oil and foreign matter
2. Place the gasket (13) and install the hub cap (11) using hand tighten cap screws (12) and washers (14). Using a star pattern (figure 8), torque the cap screws to 6 lbf·ft (8 N·m). apply final torque to 15-18 lbf·ft (20-24 N·m).
3. Fill hub cap to marked level with GLS, SAE 85W140 multi-grade oil.

Brake assembly check

- Assure that all required lubrication points are greased.
- Actuate brake by pulling on slack to assure that the cam and roller move freely and that the shoes retract when slack is released.

Waste disposal:

Discard according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)