



INSTRUCTION TO SERVICE

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| ITS: 6572 | |
| SECTION: | 204 Rear Suspension |
| WRITTEN BY: | Tyler Omichinski |
| SUBJECT: | Torque Inspection of ZF Center Axle Hub/Rotor Bolts |

ITS6572

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PROCEDURE:

NOTE: The results of this inspection are to be recorded on the inspection sheet at the end of this document and forwarded to your local New Flyer Regional Product Support Manager.

1. Turn the main battery disconnect switch to the “OFF” position. Ensure that the park brake is applied.
2. Record vehicle information on the inspection check sheet.
3. Record the center axle serial number on the inspection check sheet. The axle serial number is located on a data plate which is mounted to the rear of the axle beam, as shown in Fig. 1. If required to access the data plate, raise coach in accordance with the New Flyer Service Manual. Use jack stands as appropriate if lifting equipment will obstruct the view of the axle beam.

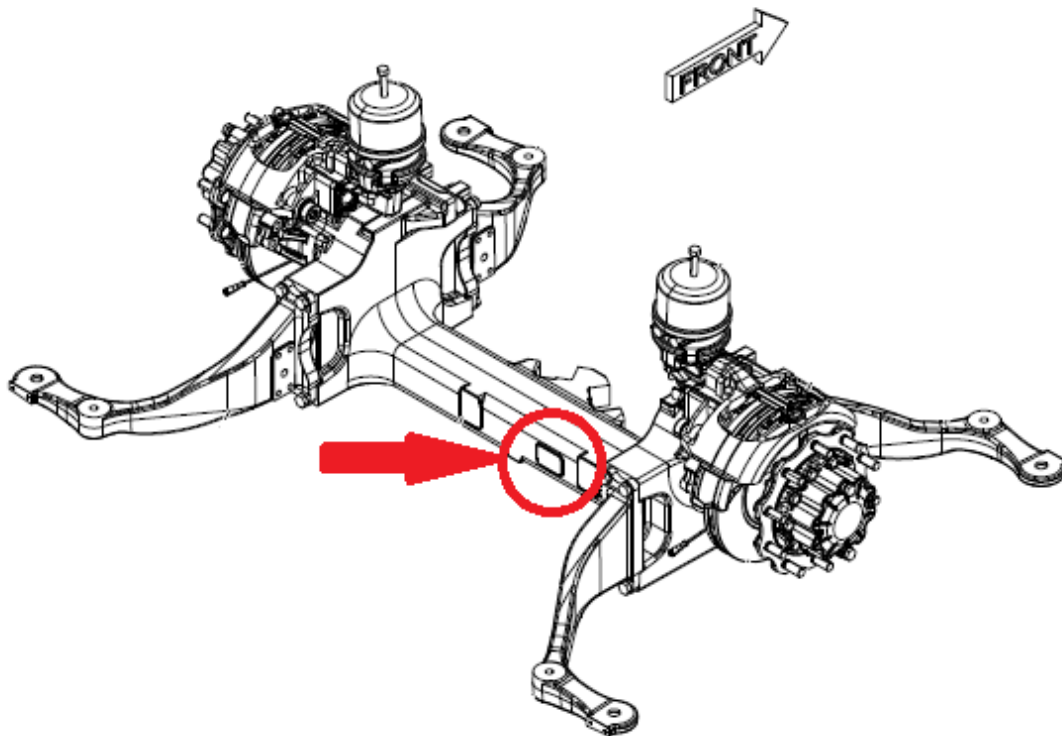


Figure 1: Location of center axle data plate

4. If necessary, lower coach in accordance with the New Flyer Service Manual.
5. Perform a visual inspection of the connection between the center axle brake rotor and wheel hub. The affected connection is shown in Fig. 2. Note any signs of damage on the inspection check sheet.

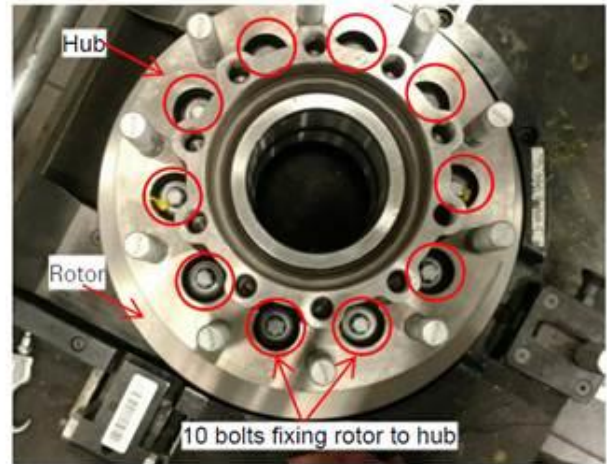
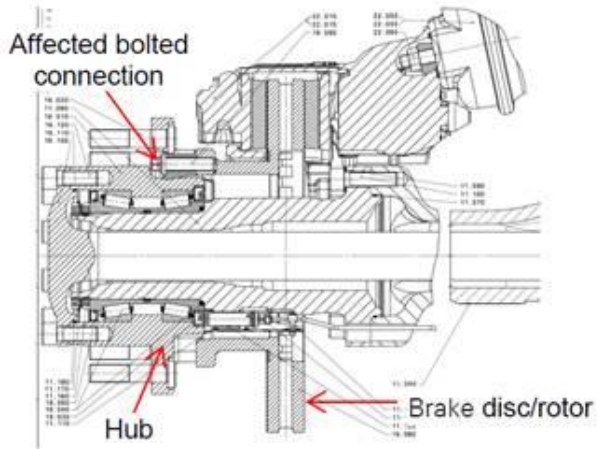


Figure 2: Center axle rotor/hub mating bolts to be inspected

6. Perform a torque inspection of the rotor bolts as follows, one at a time. Record the results in the inspection check sheet:
 - a. Attempt to loosen the bolt by hand. If the bolt can be turned by hand, record the bolt as “loose”.
 - b. If the bolt cannot be turned by hand, torque the bolt to 300 N.m (221 ft-lbs).
 - If the bolt rotates more than 90 degrees before reaching the torque specification, mark the bolt as “loose”
 - Otherwise, mark the bolt as “torqued”
 - c. Repeat the procedure and document the results for all 10 bolts on each center axle rotor
 - d. If any bolt is found loose, replace it with a new bolt (NF P/N 6407926). Torque the bolt to 300 N.m (221 ft-lbs) dry.
7. Mark all fasteners with a torque stripe after completing the torque audit. The torque stripe should extend from the fastener to the mating surface of the hub.
8. Turn the main battery disconnect switch to the “ON” position.
9. Send each vehicle’s completed inspection sheet to your local New Flyer Regional Product Support Manager.



NEW FLYER

LABOUR ESTIMATE

| | Operation | Men | Hours | Labour Time M X HR |
|---|---|-----|-------|-----------------------|
| 1 | Inspect center axle rotor bolts and complete inspection sheet | 1 | 1.0 | 1.0 |

PARTS REQUIRED

| Item | Part Number | Description | Qty. per Coach | Units | Notes |
|------|-------------|----------------------|----------------------|-------|-------------|
| 1 | 6407926 | SCREW HEX M16X1.5.80 | 20 | EA | AS REQUIRED |

