



NEW FLYER

SERVICE MANUAL BULLETIN

This Service Manual Bulletin is prepared by the Publications Department of New Flyer Industries Canada ULC. This Service Manual Bulletin supplements existing information in your New Flyer Service Manual. Refer to details below.

SMB-121C

ISSUE DATE: Feb 19 2015

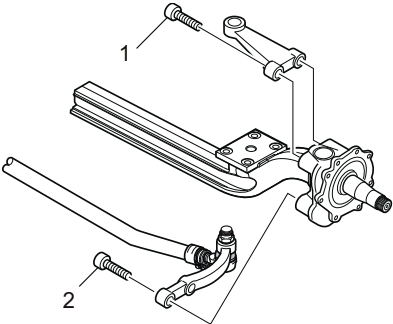
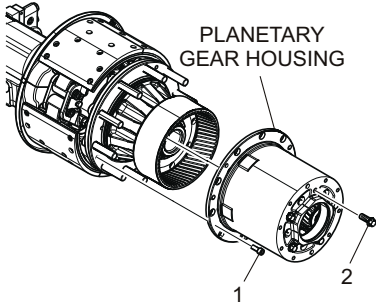
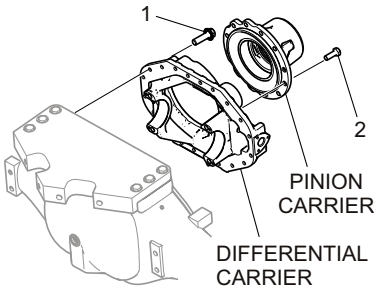
APPLICABILITY					
VEHICLE LENGTH	<input type="checkbox"/> 30ft.	<input type="checkbox"/> 35ft.	<input type="checkbox"/> 40ft.	<input type="checkbox"/> 60ft.	<input checked="" type="checkbox"/> ALL
VEHICLE TYPE	<input type="checkbox"/> High Floor	<input checked="" type="checkbox"/> Low Floor	<input type="checkbox"/> Invero®	<input checked="" type="checkbox"/> Xcelsior®	<input type="checkbox"/> ALL
FUEL TYPE	<input type="checkbox"/> Diesel	<input type="checkbox"/> Electric	<input type="checkbox"/> CNG	<input type="checkbox"/> LNG	<input checked="" type="checkbox"/> ALL
	<input type="checkbox"/> Diesel/Electric	<input type="checkbox"/> Gas/Electric	<input type="checkbox"/> Fuel Cell		
SUBJECT	Front & Rear Axle Fastener Replacements				
SECTION TITLE	1 - FRONT AXLE & SUSPENSION 2 - REAR AXLE & SUSPENSION				
INITIAL DETAILS	<p>This service bulletin is to inform you of additional MAN (OEM) fasteners that must be replaced with new items anytime they are removed or loosened on the front and rear axles of your New Flyer vehicle. Only affected areas within the service manual that pertain to the change are shown.</p> <p>This information supersedes all other related information within your New Flyer Service Manuals. Make this Service Manual Bulletin available to service personnel to inform them of changed information.</p>				
REV B DETAILS	<p>SMB121 dated Dec 19 2012 has been revised to:</p> <ul style="list-style-type: none"><input type="checkbox"/> Correct information provided for the Front Axle, VOK-07 center link and tie rod end fasteners.<input type="checkbox"/> Add information for the Rear Axles, HY-1336 & HY-1350 caliper carrier fastener replacement.<input type="checkbox"/> Add information for the Rear Axles, HY-1350 axle shaft bolt replacement.<input type="checkbox"/> Add information for the Rear Axles, HY-1336 & HY-1350 caliper carrier bolt torquing procedure.				
REV C DETAILS	<p>SMB121 dated May 14 2013 has been revised to:</p> <ul style="list-style-type: none"><input type="checkbox"/> Revised information for the Rear Axles, HY-1336 & HY-1350 caliper carrier bolt torquing procedure not to exceed 130°				

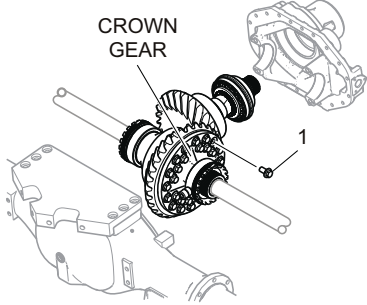
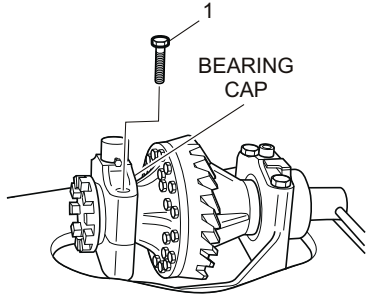
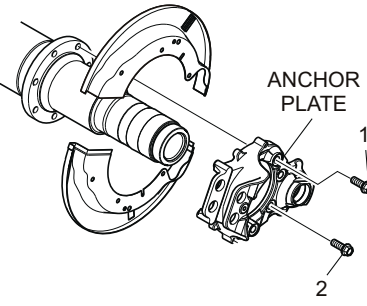
1. Front & Rear Axle Fastener Replacements

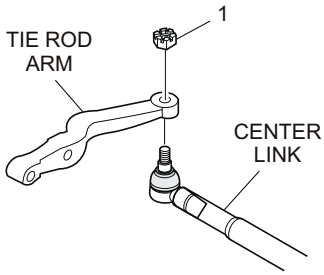
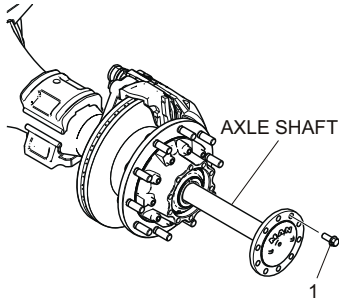
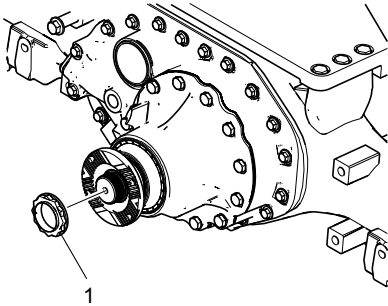
NOTE:

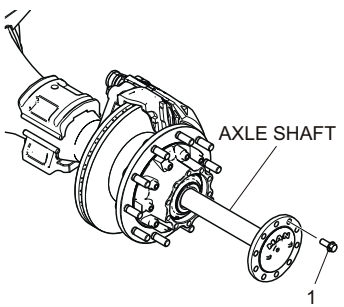
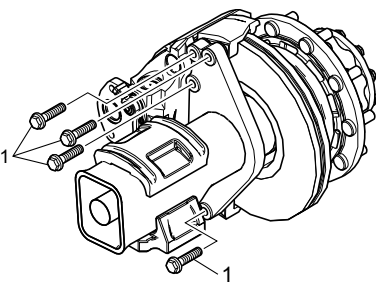
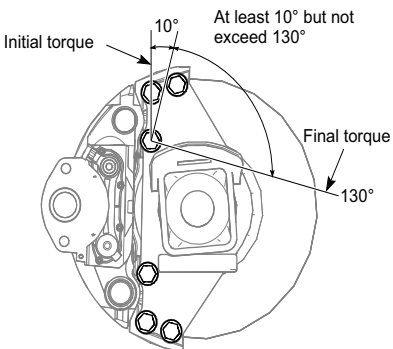
Refer to your New Flyer Service Manual for additional installation information.

The following table outlines additional disposal and replacement requirements for front and rear axle fasteners.

Front Axle V8-65L		
Illustration	Description	Procedure
	Steering Arm Installation Item 1 - Hex or Socket Head Bolt	Discard and replace Item 1 with new. Torque to 590 ft-lb. (800 Nm) on Hex Head Bolts and 500 ft-lb. (680 Nm) on Socket Head Bolts.
	Tie Rod Arm Installation Item 2 - Hex or Socket Head Bolt	Discard and replace Item 2 with new. Torque to 590 ft-lb. (800 Nm) on Hex Head Bolts and 500 ft-lb. (680 Nm) on Socket Head Bolts.
Rear Axle HP-1352		
Illustration	Description	Procedure
	Planetary Gear Housing Installation Item 1 - Retaining Bolts	Discard and replace Item 1 with new. Torque to 55 ft-lb. (75 Nm).
	Planetary Gear Carrier Assembly Item 2 - Flange Bolts	Discard and replace Item 2 with new. Torque to 163 to 192 ft-lb. (220 to 260 Nm).
	Differential Carrier Installation Item 1 - Bolts	Discard and replace Item 1 with new. Torque to 125 to 140 ft-lb. (170 to 190 Nm).
	Pinion Carrier Installation Item 2 - Bolts	Discard and replace Item 2 with new. Torque to 144 to 155 ft-lb. (195 to 210 Nm).

Rear Axle HP-1352 cont'd		
Illustration	Description	Procedure
 <p>CROWN GEAR</p> <p>1</p>	<p>Differential Gear Installation</p> <p>Item 1 - Bolts</p>	<p>Discard and replace Item 1 with new. Torque to 192 to 207 ft-lb. (260 to 280 Nm).</p>
 <p>1</p> <p>BEARING CAP</p>	<p>Differential Gear Installation</p> <p>Item 1 - Bolts</p>	<p>Discard and replace Item 1 with new. Torque to 170 to 184 ft-lb. (230 to 250 Nm).</p>
 <p>ANCHOR PLATE</p> <p>1</p> <p>2</p>	<p>Brake Anchor Plate Disassembly</p> <p>Items 1 & 2 - Bolts</p>	<p>Discard and replace Items 1 & 2 with new. Torque to 313 ft-lb. (425 Nm).</p>

Front Axle VOK-07		
Illustration	Description	Procedure
	<p>Center Link & Tie Rod Ends Installation</p> <p>Item 1 - Self-Locking Nut</p>	<p>Discard and replace Item 1 with new. Torque to 221 ft-lb. (300 Nm).</p>
Rear Axle HY-1336		
Illustration	Description	Procedure
	<p>Axle Shaft Installation</p> <p>Item 1 - Hex Head Bolt</p>	<p>Discard and replace Item 1 with new. Torque to 266 ft-lb. (360 Nm).</p>
	<p>Input Flange Installation</p> <p>Item 1 - 12-Point Nut</p>	<p>Discard and replace Item 1 with new. Torque to 701 ft-lb. (950 Nm).</p>

Rear Axle HY-1336 & HY-1350		
Illustration	Description	Procedure
 <p style="text-align: center;">AXLE SHAFT</p> <p style="text-align: center;">1</p>	<p>Axle Shaft Installation</p> <p>Item 1 - Hex Head Bolt</p>	<p>Discard and replace Item 1 with new. Torque to 266 ft-lb. (360 Nm).</p>
 <p style="text-align: center;">1</p>	<p>Caliper Carrier Installation</p> <p>Item 1 - Hex Head Bolt</p>	<p>Discard and replace Item 1 with new.</p>
 <p>Initial torque</p> <p>10°</p> <p>At least 10° but not exceed 130°</p> <p>Final torque</p> <p>130°</p>	<p>Caliper Carrier Bolt Torquing</p>	<ol style="list-style-type: none"> 1. Install six new M18 Hex Head Mounting Bolts. Tighten the six bolts in an alternating pattern to an initial torque of 184 ft-lb. (250 Nm). 2. Mark a line on the head of the bolt indicating the vertical position. 3. Final torque to 288 ft-lb. (390 Nm). 4. Remove the torque wrench and note the angular movement of the bolt head from vertical. The angle that the bolt head (or torque wrench) has travelled must be at least 10° but not exceed 130°. <p>NOTE:</p> <p><i>If the bolt does not travel the required angle from initial torque to final torque, then replace with a new bolt and repeat procedure.</i></p>