NEW FLYER

SERVICE MANUAL BULLETIN

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

SMB-174

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APPLICABILITY					
VEHICLE LENGTH	☐ 30ft.	☐ 35ft.	☐ 40ft.	■ 60ft.	☐ ALL
VEHICLE TYPE	☐ Xcelsior®	☐ MiDi®	☐ Invero®		☐ ALL
	■ Low Floor	☐ High Floor			
FUEL TYPE	☐ Diesel	■ Diesel/Electric	☐ CNG	☐ LNG	☐ ALL
	☐ Fuel Cell	■ Trolley/Electric	☐ Battery/Electric		
SUBJECT	**Roof Cable Guide System for Articulated Vehicles**				
SECTION TITLE	**PM - PREVENTIVE MAINTENANCE**				
DETAILS	**This bulletin provides new inspection and replacement requirements from ATG, the Articulated Joint OEM supplier for the roof Cable Guide System on your New Flyer Vehicle.** **Make this Service Bulletin available to service personnel to inform them of this additional information that is not in your current manuals.**				

1. Roof Cable Guide System

1.1. Purpose

This bulletin introduces a preventive maintenance schedule for the Roof Cable Guide System, located above the artic joint bellows, to ensure the system functions properly over the life of the vehicle. This bulletin covers the various configurations of the Roof Cable Guide System applicable to diesel-electric, BRT, and trolley vehicles. Perform the inspections that apply to your specific vehicle configuration. See “Fig. 1: Diesel-Electric Roof Cable Guide” on page 3. See “Fig. 2: BRT Diesel-Electric Roof Cable Guide” on page 4. See “Fig. 3: Trolley Roof Cable Guide” on page 4.

1.2. Yearly Preventive Maintenance

Perform the following inspections on a yearly basis:

- ❒ Inspect the spring steel blade for cracks, twists, kinks, or any other damage.
- ❒ Inspect the protective covering and cables or hoses for fretting wear or other damage. Replace any damaged covering, cables, or hoses.
- ❒ Inspect the hoses and/or cables to ensure they are properly clamped and supported.
- ❒ Inspect the pivot bearing for wear or looseness. Replace the bearing if it rattles inside the housing or if the bearing makes scratching or groaning sounds during operation.

☞NOTE:

The pivot bearing is located mid-span on the spring steel blade and connects the blade to the end of the A-frame.

- ❒ Inspect the plastic washers for wear and replace as necessary.

☞NOTE:

Plastic washers are located on the spring steel blade mounting brackets and clamp plates and are used on diesel-electric applications.

- ❒ Inspect the rollers on the chariot & carrier assembly for wear and ensure that the rollers operate smoothly in the guide rail. Replace the chariot if the rollers are worn or damaged.

☞NOTE:

The chariot & carrier assembly is located mid-span on the spring steel blade and connects the blade to the guide rail.

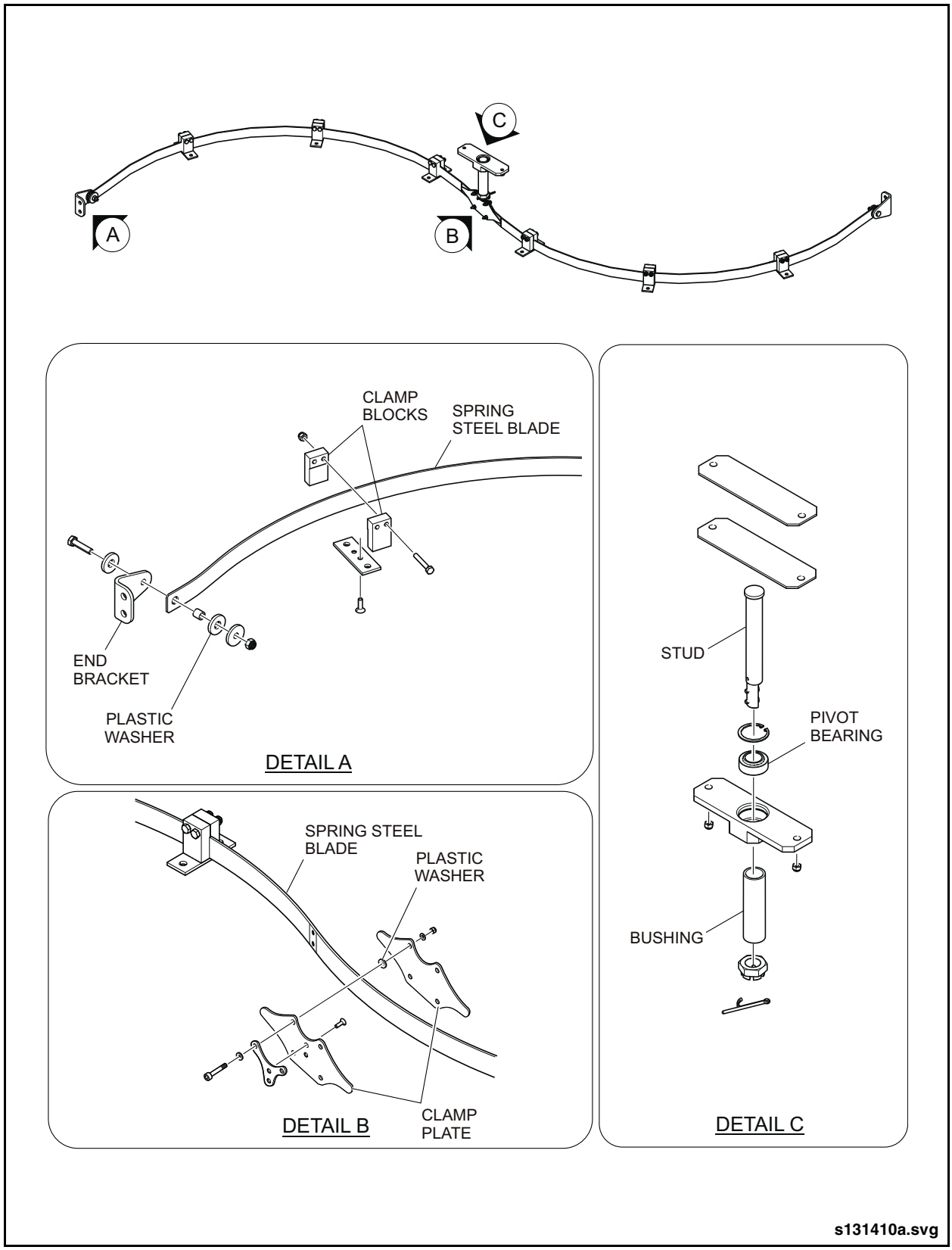

Fig. 1: Diesel-Electric Roof Cable Guide

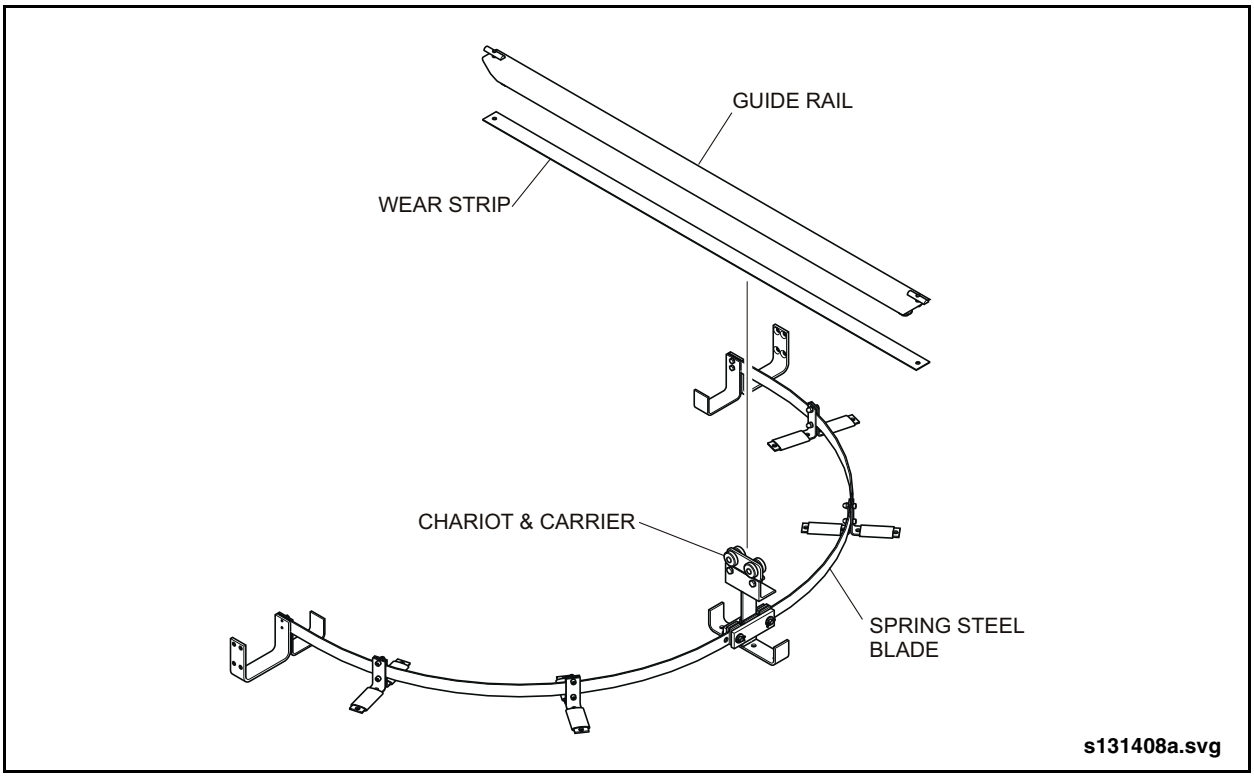

Fig. 2: BRT Diesel-Electric Roof Cable Guide

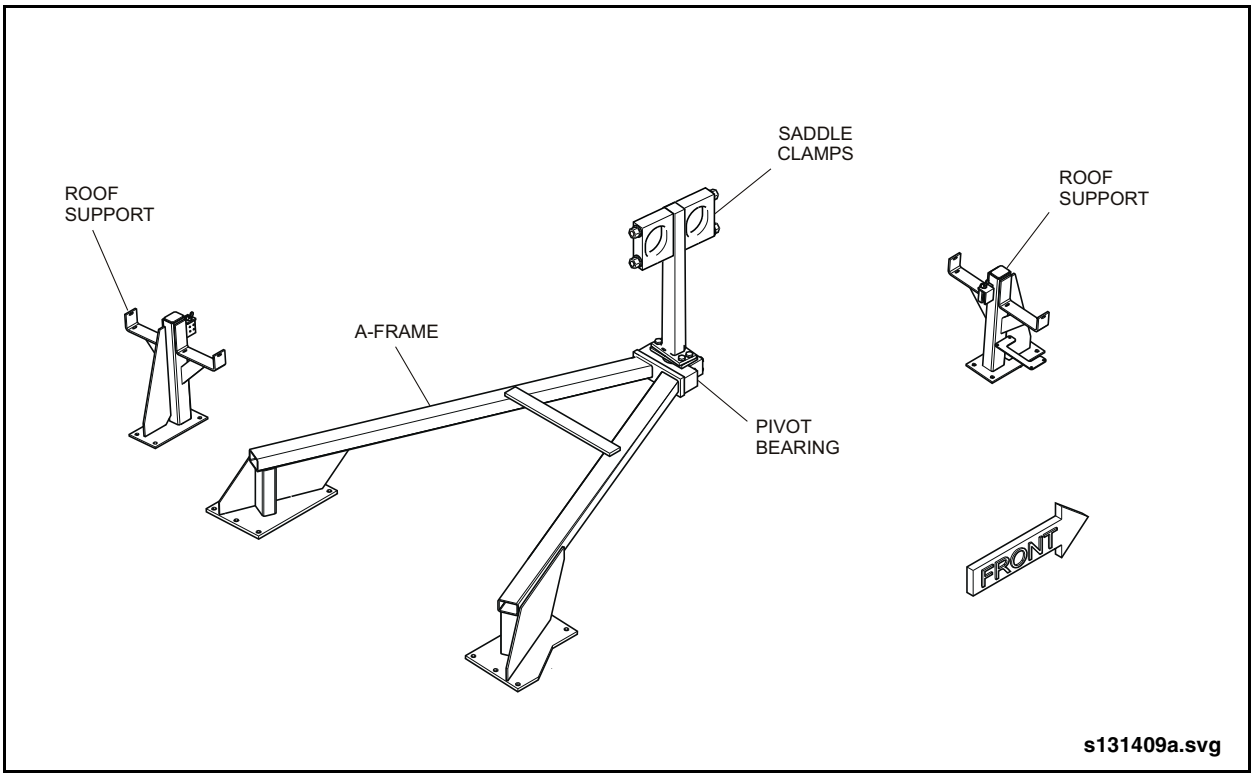

Fig. 3: Trolley Roof Cable Guide

1.3. Five Year Preventive Maintenance

Replace the following components every five years:

❒ Spring steel blade. Refer to 1.3.1. “Spring Steel Blade Replacement” on page 5 for replacement procedure.

☞NOTE:

If there is any doubt as to how long the steel blade has been in service, refer to the production date stamped on the steel blade

❒ Pivot bearing - replace at same time spring steel blade is being replaced.

1.3.1. Spring Steel Blade Replacement

1. Remove all tywraps, clamps, and fasteners that attach the hoses and cables to the spring steel blade.
2. Disconnect the mounting brackets and center pivot bearing from the vehicle mounting points.
3. Remove the cable guide assembly from the vehicle and move to a workbench for further disassembly.
4. Note the location and remove all mounting brackets from the steel blade.
5. Remove the center clamp plate and pivot bearing (if equipped) from the steel blade.
6. Remove the end support brackets from the steel blade.
7. Obtain a new spring steel blade and reassemble in reverse order of removal.