



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-164

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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"/> Xcelsior®	<input type="checkbox"/> MiDi®	<input type="checkbox"/> Invero®		<input checked="" type="checkbox"/> ALL
	<input type="checkbox"/> Low Floor	<input type="checkbox"/> High Floor			
FUEL TYPE	<input type="checkbox"/> Diesel	<input type="checkbox"/> Diesel/Electric	<input type="checkbox"/> CNG	<input type="checkbox"/> LNG	<input checked="" type="checkbox"/> ALL
	<input type="checkbox"/> Fuel Cell	<input type="checkbox"/> Trolley/Electric	<input type="checkbox"/> Battery/Electric		
SUBJECT	Sensitive Edges - Flexible Conduit Installation				
SECTION TITLE	16 - ENTRANCE & EXIT DOORS				
DETAILS	<p>This bulletin provides information on the procedure describing the routing requirements of the flexible conduit used between the door panel and baseplate.</p> <p>This information supersedes any prior information on this subject already provided in your New Flyer Service Manuals. Make this Service Bulletin available to service personnel to inform them of changed information.</p>				

1. FLEXIBLE CONDUIT

1.1. Installation

The following procedure describes the routing requirements of the flexible conduit used between the door panel and baseplate. The sensitive edge PVC tubing and CLASS sensor wiring (if equipped) are routed from leading edge of each door panel, upward through the hollow shaft of the roller bracket, and inward along the baseplate. The PVC tubes terminate at their respective pressure wave switch and the CLASS sensor wiring (if equipped) terminates at the CLASS controller, located above the baseplate. The PVC tube and wiring harness are protected with a spiral wrapped loom.

Inspect the flexible conduit for proper installation and routing as follows:

1. Close the door panels and feed the flexible conduit from each door panel upward through the shaft of their respective roller bracket, being careful not to pinch or otherwise damage the conduit.

2. Locate the P-clamp on the baseplate and insert a short piece of foam tape inside the P-clamp. Refer to your New Flyer Parts Manual for part number of foam tape.
3. Route the flexible conduit on the forward door panel through the P-clamp. Position the P-clamp perpendicular to the baseplate door channel and torque the clamp to 13 in-lbs.

Route the flexible conduit on the aft door panel through the P-clamp. Position the P-clamp at approximately 30° to the baseplate door channel and torque the clamp to 13 in-lbs. See [“Fig. 1: Flexible Conduit Routing”](#) on page 3.



Nylon tywraps must be applied over the spiral wrap and not directly on the tubing or wiring harness itself. DO NOT over-tighten the nylon tywrap as this could constrict the sensitive edge tubing and prevent proper operation of the sensitive edge system.

4. Carefully route the remaining cable assembly to next closest and convenient tywrap mounting clip on the baseplate. Route the cable assembly to avoid potential contact with moving parts or sharp edges. Secure conduit to mounting clips with nylon tywraps.
5. Connect the sensitive edge tubing from each door panel to its respective pressure wave switch.
6. Connect the CLASS sensor wiring (if equipped) from each door panel to their respective connectors on the CLASS controller.
7. Manually operate both door panels and observe the movement of the flexible conduit as the doors open and close. Verify that the conduit does not kink or snag at any point throughout their range of travel. Light cable contact with the baseplate or vehicle structure at the extreme ends of travel is acceptable. If necessary, adjust the orientation of the conduit and P-clamps to ensure these requirements are met.
8. Upon completion of flexible conduit installation:
 - a. Test the function of the sensitive edge system. Refer to Section 16 in your New Flyer Service Manual for test procedure.
 - b. Test the function of the CLASS system (if equipped). Refer to Section 16 in your New Flyer Service Manual for test procedure.

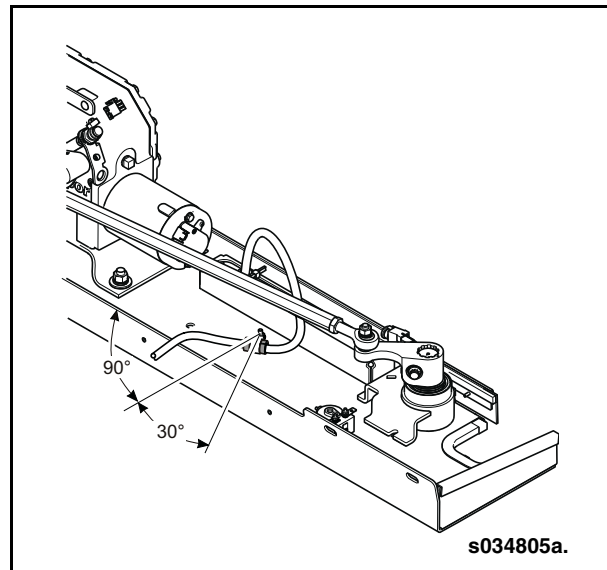


Fig. 1: Flexible Conduit Routing