



# SERVICE MANUAL BULLETIN

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

## SMB-175

ISSUE DATE: Oct 16 2017

| APPLICABILITY  |                                                                                                                                                                                                                                                                    |                                           |                                           |                                           |                                         |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|-------------------------------------------|-----------------------------------------|
| VEHICLE LENGTH | <input type="checkbox"/> 30ft.                                                                                                                                                                                                                                     | <input type="checkbox"/> 35ft.            | <input type="checkbox"/> 40ft.            | <input checked="" type="checkbox"/> 60ft. | <input type="checkbox"/> ALL            |
| VEHICLE TYPE   | <input checked="" type="checkbox"/> Xcelsior®                                                                                                                                                                                                                      | <input type="checkbox"/> MiDi®            | <input type="checkbox"/> Invero®          | <input 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        | Articulated Joint Wiring Fuses                                                                                                                                                                                                                                     |                                           |                                           |                                           |                                         |
| SECTION TITLE  | PM - Preventive Maintenance - 6 Month                                                                                                                                                                                                                              |                                           |                                           |                                           |                                         |
| DETAILS        | <p>This bulletin provides new PM inspection requirements for the fore and aft articulated joint wiring fuses on your New Flyer vehicle.</p> <p>Make this Service Bulletin available to service personnel to inform them of this new information and procedure.</p> |                                           |                                           |                                           |                                         |

## 1. Articulated Joint Wiring Fuses

### 1.1. Inspection

Inspect the connections at the articulated joint fuse assemblies every six months or 15,000 miles (24,000 km), whichever occurs first. Refer to the following procedure.



**Ensure the main disconnect switch is turned to the “OFF” position before proceeding**

1. Gain access to the fore and aft joint fuse assembly located internally at ceiling of artic joint bellows.
2. Remove fore access door by unlocking four square-key quarter turn latches. See “Fig. 1: Wiring Joint Fuse Assembly” on page 2.

3. Remove the aft access door by unlocking two square-key quarter latches.
4. Inspect the connections at the fore fuse assembly. See “Fig. 2: Articulated Joint Wiring Fuses” on page 3.
5. Locate terminal on ground point as shown on Fig. 2, item 3 and inspect.
6. Torque nut to specification on chart.
7. Inspect nuts on terminals at bus bar and fuses as shown on Fig. 2, Items 1 & 2.
8. Torque to specification on chart.
9. Gain access to back of fuse assembly.
10. Ensure that harnesses, cabling and air lines are secured by cable mounts and ties.
11. Repeat Steps 5 through 11 for aft fuse assembly.
12. Install access doors back into position.
13. Turn the main disconnect switch to the “ON” position.



Fig. 1: Wiring Joint Fuse Assembly

**1.2. Articulated Joint Wiring Fuses Torque Chart**



**ALWAYS torque electrical connections to specified torque when replacing any components. Loose connections can result in arcing, component damage, and possible fire.**

| <b>ARTICULATED JOINT WIRING FUSES TORQUE CHART</b> |               |                          |                           |
|----------------------------------------------------|---------------|--------------------------|---------------------------|
| <b>ITEM</b>                                        | <b>DEVICE</b> | <b>FASTENER</b>          | <b>TORQUE ft-lb. (Nm)</b> |
| 1                                                  | Bus bar Plate | Nut, Lock 5/16" - 18 UNC | 14-16 ft-lb. (19-22 Nm)   |
| 2                                                  | Fuse Limiters | Nut, Lock 5/16" - 24 UNF | 10 ft-lb. (14 Nm)         |
| 3                                                  | Ground Points | Nut, Lock 3/8" - 16 UNC  | 30-37 ft-lb. (41-50 Nm)   |

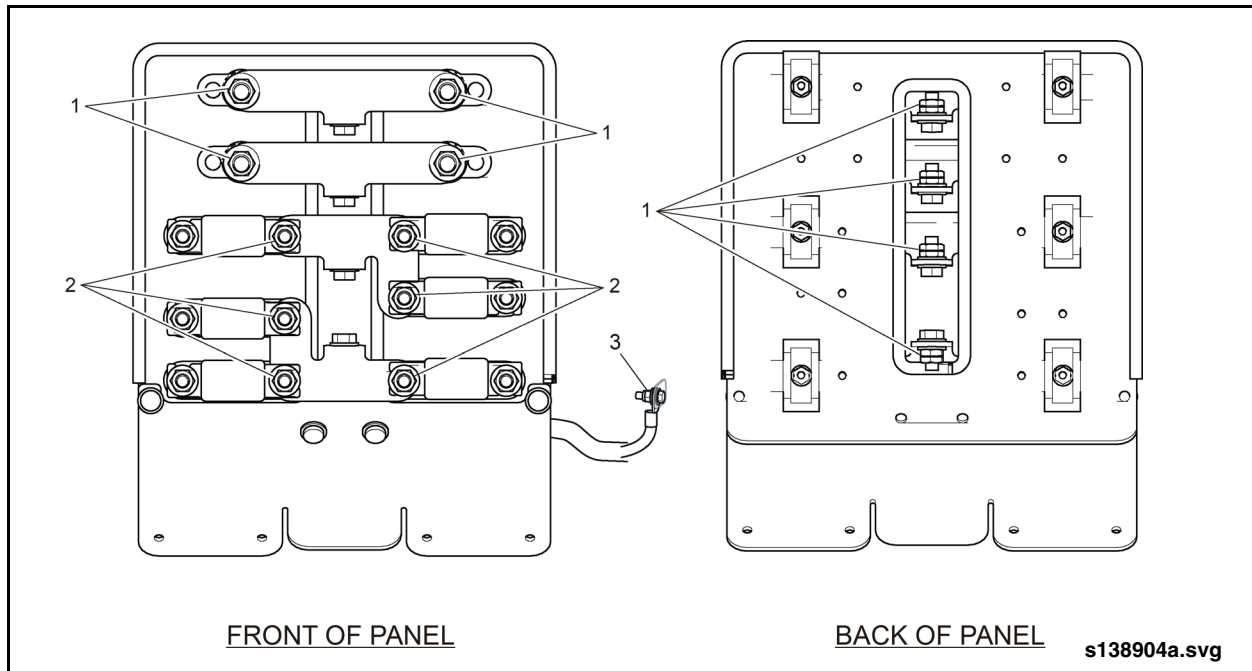


Fig. 2: Articulated Joint Wiring Fuses