



TIL # 298R1

**LOW FLOOR BATTERY DISCONNECT
MODIFICATION**

SECTION: 7

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Models Affected: NFI LOW FLOOR 7101-7191 **Locations Affected:** ALL

New Flyer Low Floor coaches #7101-7191 identified by sales release (SR) 375 and (SR) 391 require relocation of the main battery disconnect switches due to its location at road level behind the rear wheel. The reason is contamination from road debris, water/salt corrosion in the switch contacts and on their cable connection. This modification (as pictured below) will eliminate coaches from having intermittent electronic device problems, open circuits and bad grounding problems that lead to excessive road calls, unnecessary troubleshooting and electrical maintenance problems.



Modification Reference Picture

PREPARED BY	EFFECTIVE DATE	REVIEW/REVISED BY	REVISION DATE	MGR. MTCE. ENGINEERING	DIRECTOR(S) APPLICABLE	REVIEW DATE
W. LIBERA	24-OCT-2001	W. LIBERA	22-DEC-2003	G. Hatcher	D. Vandehey	22-DEC-2008



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A modification kit is available under part # 9478500 and consists of the following components:

1. 12 feet 4/0 battery cable, P/N 3804630
 - 2 - 3/8" cable lug connectors, P/N 9489602
 - 2 - 1/2" cable lug connectors, P/N 9489601
 - 10" red shrink tube (4 x 2 1/2" each)
2. 1 battery disconnect door assembly painted white also includes:
 - 1 - hinge #1100360
 - 2 - springs #8483180
 - 2 - rollers #8483386
3. 1 door stop plate.
4. 1 battery switch mounting plate (see picture below).
5. 1 battery disconnect decal.

Battery Switch Mounting Plate



Procedure:

1. Remove old battery switches and brackets.
2. Install battery switch mounting plate by drilling and tapping 4 1/2" x 5/16" N.C. bolts. Reference picture on page 1. Approximately 8" from forward bulkhead. Also use 2 5/16" x 1" sleeves in order not to crush the 1" thick insulation.
3. Check old switches for re-use and install on battery switch mounting plate. If needing replacement, replace with double switch (part #9478670) and single switch (part #9478682).
4. Remove 4/0 cable "PS2PC" from 24V bus bar.
5. Remove 4/0 cable "PS1PC" from 12V bus bar in rear box.
6. Install new cable through water tight fittings in bottom of box. (+- 96" length each). Install (crimp & solder) 5/16 x 4/0 terminal in box end of cable. Install 1/2" x 4/0 terminal at switch end of cable.
7. Refer to diagram on page 5 of this T.I.L. for correct cable hook at switches.

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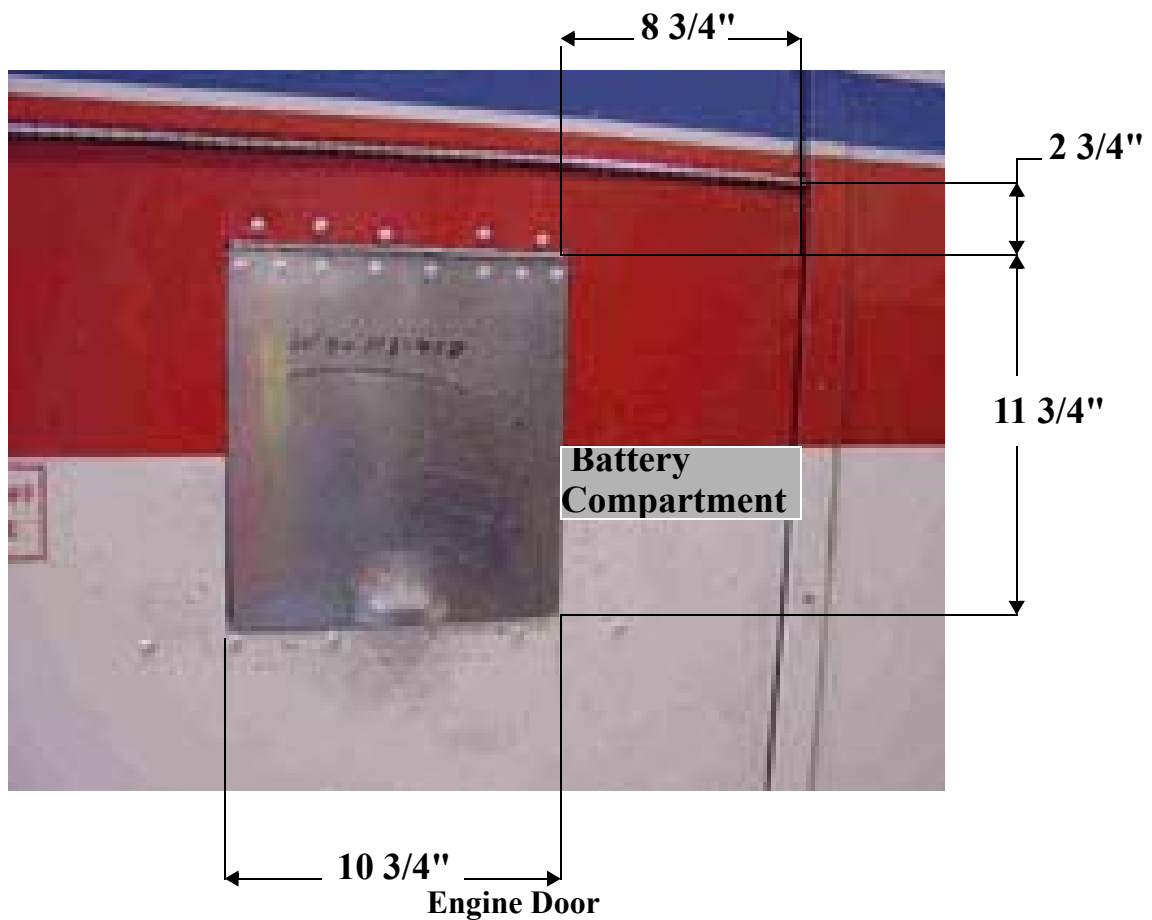
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8. Secure cables neatly and check for chafing.
9. Reconnect vehicle batteries.

Cut hole in engine door as shown in picture below.

Note: The PS10PC 12 Volt and PS7PC 24 Volt 2/0 cables are shortened. Install new 2/0 x 1/2" terminals and connect to battery side of the 12 volt / 24 volt knife switches.



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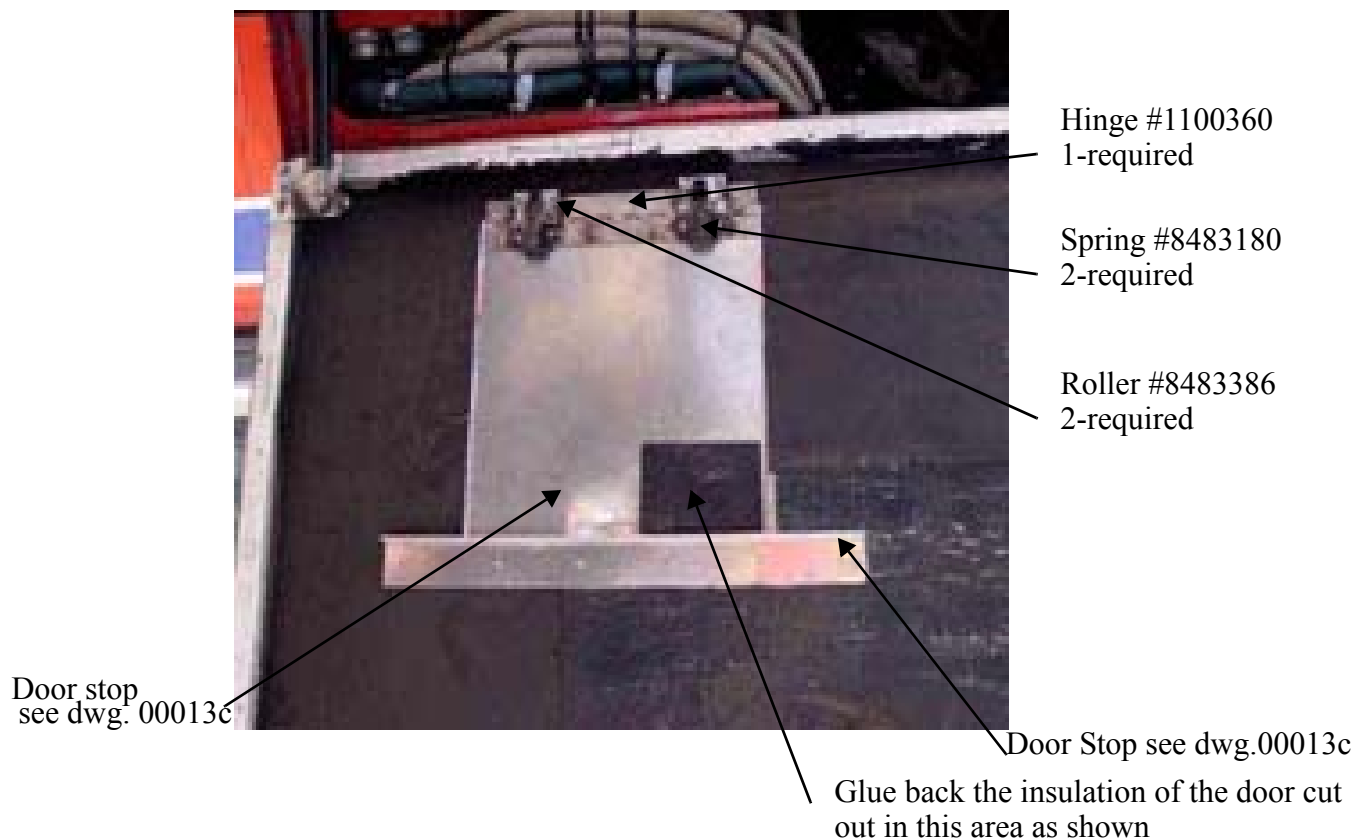
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10. Install door assembly using "buck" rivets.



Door Assembly

11. Paint as required and also install battery disconnect decal.
12. Record modification as being completed in Fleet Maintenance System.

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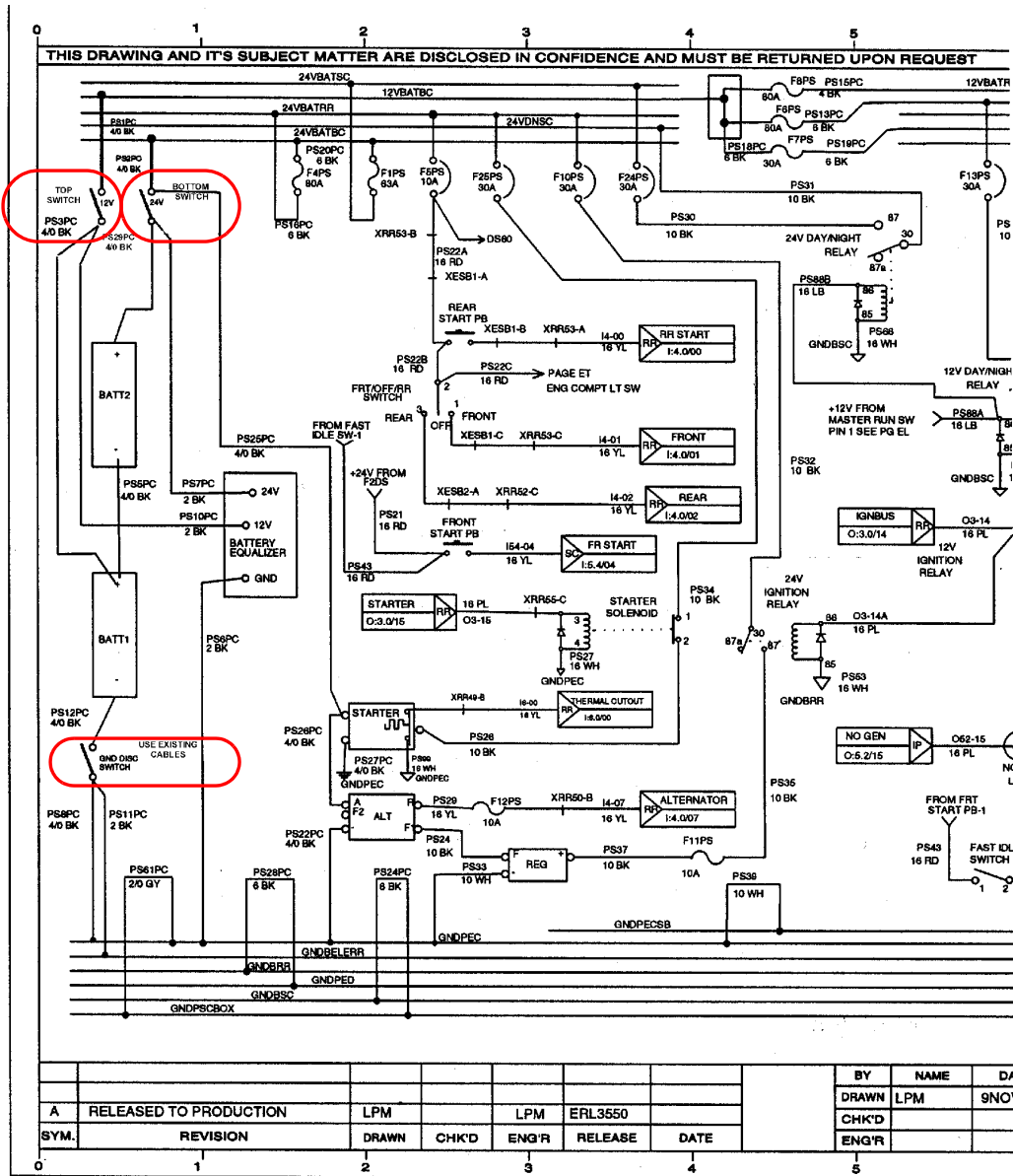
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