INSTRUCTION TO SERVICE

ITS60981	22-March-2024
SECTION:	260-BATTERY COMPARTMENT
WRITTEN BY:	Kenny Le
SUBJECT:	Revert PLC wake up configuration to original circuit
ISSUE:	The reworked PLC wake up configuration is not required with 400A bistable relays
SUMMARY:	Revert PLC wake up configuration to original circuit

ITS60981

Ref. NHTSA Recall No.	Ref. Transport Canada Recall No.
Not Applicable	Not Applicable

THIS ITS DOCUMENT SHOULD BE RETAINED AND REFERRED TO FOR FUTURE MAINTENANCE UNTIL THE NEW FLYER PARTS AND/OR SERVICE MANUAL IS UPDATED TO REFLECT WORK DONE AS A RESULT OF THIS DOCUMENT. ENSURE THAT THIS DOCUMENT IS AVAILABLE FOR PARTS AND MAINTENANCE STAFF GOING FORWARD.

PROCEDURE:

1. Set park brake and chock wheels.
2. Turn the main battery disconnect switch to the “OFF” position.
3. Gain access to the side panel.
4. Locate and remove jumper harness PN 1062523. Referring to Table 1, remove the listed wires and discard the jumper harness.

WIRE CODE	Y END	X END
99PS11D	XSC4-XX	XSCXX-SHR-X
99PN90CB	DPN2-SINE 2	PWR OFF RLY-87a
99PN90B	DPN2-POS	MODULE PWR RLY-86
99PN90AH	DPN2-SINE 1	XSC4-XX
99PN90AG	MODULE LATCHING RLY-30	XNET-TWR-8
99PN90AE	MODULE LATCHING RLY-87a	XSC4-XX
99PN90A	MASTER RUN SW-6	XNET-TWR-1
99PN90C	F44PS-2	MODULE PWR RLY-30

Table 1. Wires to be removed.

5. Remove DPN2 and associated hardware.
6. Install PLC WK UP RLY while referencing the latest released drawing WD-SIDE CONSOLE PANEL.
   a. Using supplied parts PN 14S00006 SCREW MACHINE NO 10 PN HD, PN 001325 BASE-RELAY SOCKET, and PN 659000 WASHER FLAT SST 10, install PN 106614 RELAY 24V SPDT.
7. Locate bus bar XBBPN1. If wire 11PS90AB is terminated to XBBPN1-L, then de-pin wire 11PS90AB and re-terminate it to XBBPN1-H. If wire 11PS90AB is already terminated to XBBPN1-H, then skip this step.
8. Referring to Table 2 and 3:
   a. Locate all endcapped wires listed in harness PN 1033202 HRNS-SIDE CONSOLE PANEL and remove the endcaps.
   b. Terminate and install all wires as listed in the table.

Wire code	Y end conn	X end conn	Y end term PN	X end term PN
11PN90CB	PWR OFF RLY-87a	XNET-TWR-7	034793	001846
11PN90B	MODULE PWR RLY-86	XNET-TWR-8	034794	001846
11PN90AE	MODULE LATCHING RLY-87a	XNET-TWR-1	034794	655515
11PN90A	MASTER RUN SW-6	MODULE LATCHING RLY-30	655515	5944901
11PS10D	PLC WKUP RLY-87a	XSCXX-SHR-X	108871	655515
11PN90C	MODULE PWR RLY-30	XBBPS13-F	113078	001846
11PS10DC	NODE 02-JX-XX	PLC WKUP RLY-86	655515	034794
11PS10DB	PLC WKUP RLY-30	XBBPN1-L	924432	655515
11PS10DA	GNDBSCX-TWR-XX	PLC WKUP RLY-85	001846	749333

Table 2. Wires to be installed. For connection points for highlighted cells, see Table 3.

	11ps10d	11ps10dc	11ps10da
SR	XSCXX-SHR-X	NODE 02-JX-XX	GNDBSCX-TWR-XX
2839	XSC57-B	NODE 02 J4-12	GNDBSC1-18
2823	XSC57-B	NODE 02 J2-12	GNDBSC1-14
2826	XSC68-C	NODE 02 J2-12	GNDBSC2-12
2813	XSC57-B	NODE 02 J4-12	GNDBSC1-18

Table 3. Wire connections based on SR.

9. Install the latest released PLC program.
10. Remove all tools and debris from work area to return coach to service.
11. Turn the main battery disconnect switch to the “ON” position.

LABOUR ESTIMATE				
	Operation	Number of Technician(s)	Hours	Labor Time T X HR
1	Remove SC jumper harness and re-implement original PLC wake up circuit	1	4	4

PARTS REQUIRED					
Item	Part Number	Description	Qty. per Coach	Units	Notes
1	14S00006	SCREW MACHINE NO 10 PN HD	1	EA	
2	001325	BASE-RELAY SOCKET	1	EA	
3	106614	RELAY 24V SPDT	1	EA	
4	659000	WASHER FLAT SST 10	1	EA	
5	5944901	TERM-R #8 18AWG IN	1	EA	
6	001846	TERM-BF ¼ 16-12AWG NIN	4	EA	
7	924432	TERM-SOCKET 18-16 AWG 28- METRI PACK	1	EA	
8	034793	SOCKET DEUTSCH 16-14AWG	1	EA	
9	034794	SOCKET 18 16AWG DEUTSCHS	3	EA	
10	108871	TERMINAL-MALE FOR SHRD	1	EA	
11	113078	TERMINAL-FEMALE	1	EA	
12	655515	TERM-BOSH 18 AWG FEMALE	5	EA	
13	749333	TERM-SOC 16-14 AWG, AMP MCP	1	EA	