



INSTRUCTION TO SERVICE

ITS: 6885

SECTION:	284 Electrical Panels
WRITTEN BY:	Talha Wasif
SUBJECT:	Add relay for Auto Neutral signal to TCM

ITS6885

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PROCEDURE:

1. Turn the main battery disconnect switch to the “OFF” position by accessing it through the fuse box panel on the rear curb side of the bus.
2. Gain access to the rear panel by removing the rear panel cover. See Figure 1 for reference.

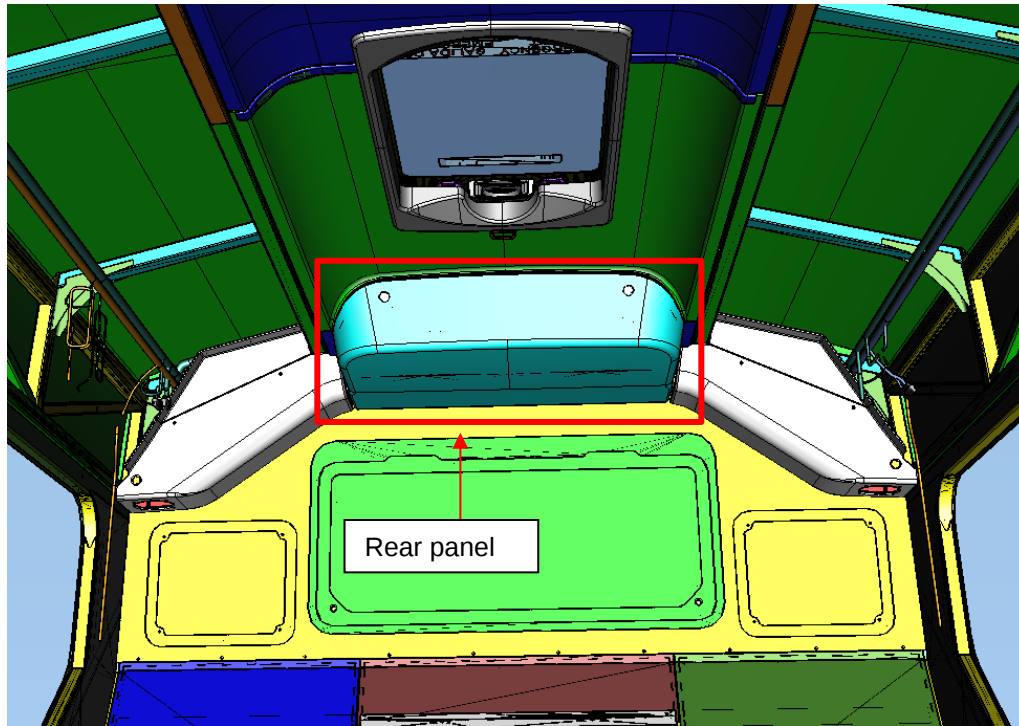


Figure 1: Rear Panel location in the bus

3. Locate connector J2 in Node 15. See Figure 2 for reference.

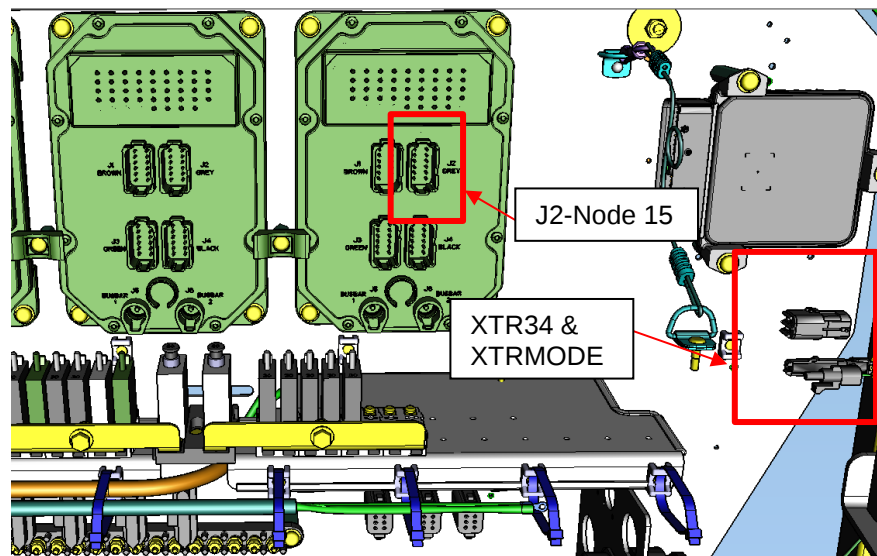


Figure 2: Rear Panel connectors

4. Remove wire 10TR87B/51AP from connector NODE 15-J2 cavity 9. Cut off the terminal and terminate with supplied terminal TERM-BF 1/4 16-12AWG NIN (P/N: 001846).
5. Remove wire 10TR87G/51AL from connector NODE 15-J2 cavity 10. Cut off the terminal and terminate with TERM-BF 1/4 16-12AWG NIN (P/N: 001846).
6. To install the AUTO NTRL RLY begin by installing the BASE-RELAY SOCKET (P/N: 001325) on the breaker panel as shown in Figure 3 and Figure 5. Mount the base using SCREW MACHINE NO 10 PN HD (P/N: 14S00006) and WASHER FLAT SS 10 (P/N: 50W00000). Then install the RELAY 24V SPDT (P/N: 106614) on to the base.

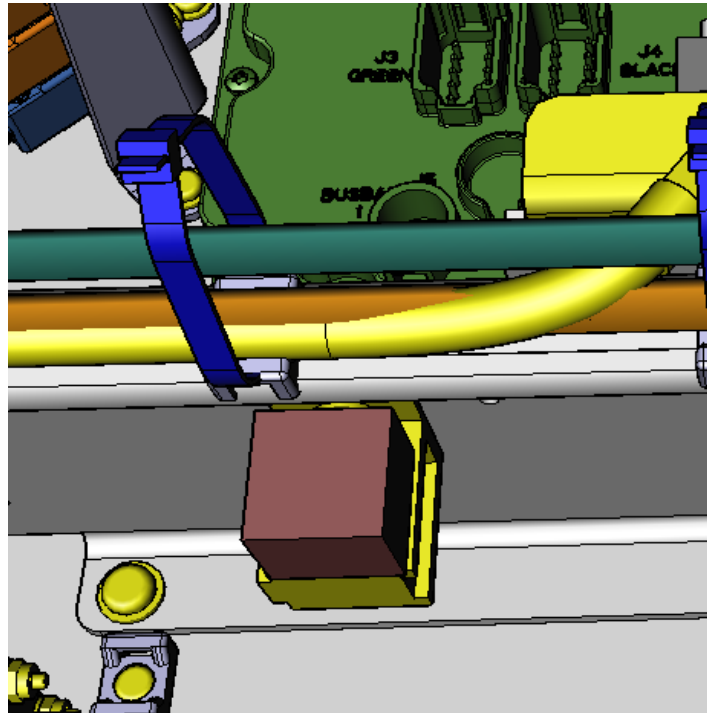


Figure 3: Relay Installation

7. Install "F2TR", BREAKER 2A ETA MAN (P/N: 218992) on 24VBATRR as shown in Figure 4.
8. Gain access to supplied HRNS-JMPR AUTO NTRL RLY (P/N: 744369). Locate AUTO NTRL RLY, terminal strip GNDBRR, breaker F2TR and connector NODE 15-J2. Refer to the diagram in Figure 5 and schematic in Figure 6a (SR-2215/2216) and 6b (SR-2230).
9. Insert the appropriate end of wire 99TR51AT into relay AUTO NTRL RLY-86 and the other end into connector Node 15-J2 cavity 10.
10. Insert the appropriate end of wire 99TR51AR to breaker F2TR and insert the other end into connector Node 15-J2 cavity 9.
11. Insert the appropriate end of wire 99TR51AU into relay AUTO NTRL RLY-85 and connect the other end to terminal strip GNDBRR. Remove all dielectric grease and torque the connector to 9 FT-LBS (DRY). Reapply dielectric grease to the connection.

12. Insert the wire 99TR87G/51AL (removed in step 5) into relay AUTO NTRL RLY-30.
13. Insert the wire 99TR87B/51AP (removed in step 4) into relay AUTO NTRL RLY-87.

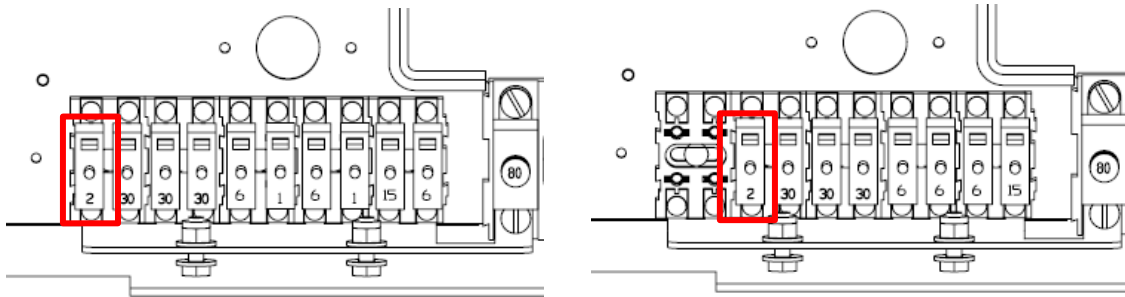


Figure 4: Breaker installation. Left: SR-2115/15. Right: SR-2130

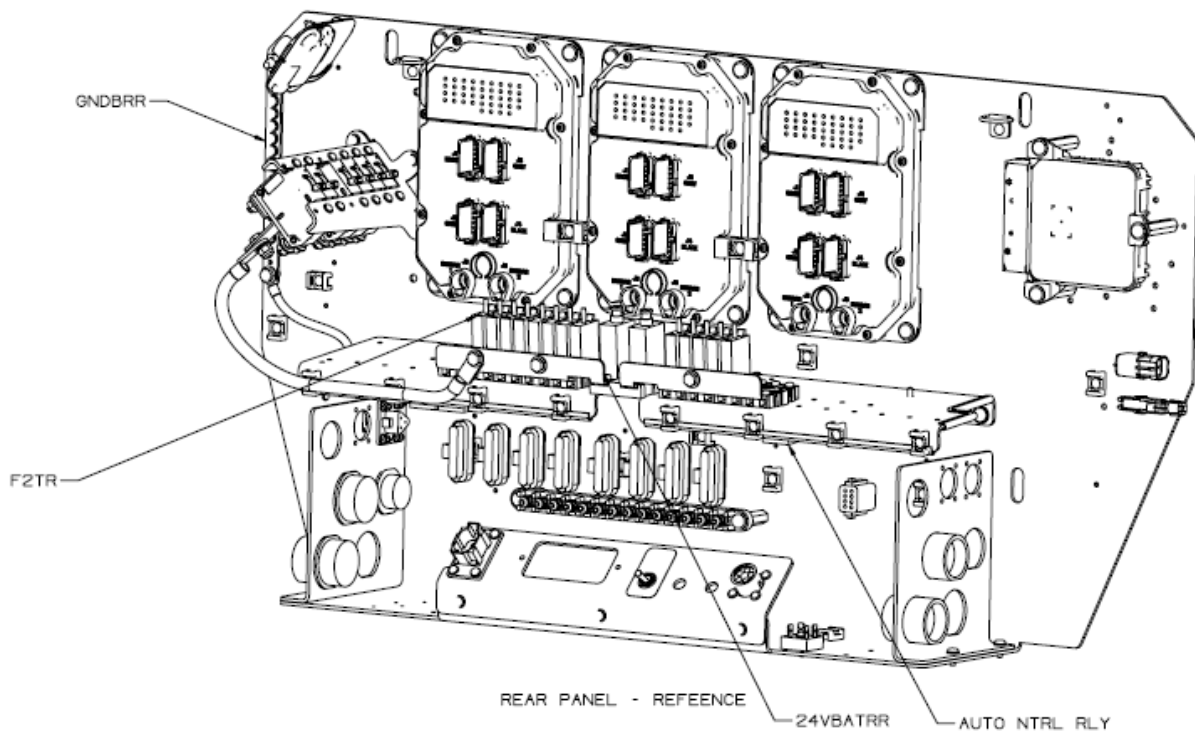


Figure 5: Connection points in the rear panel

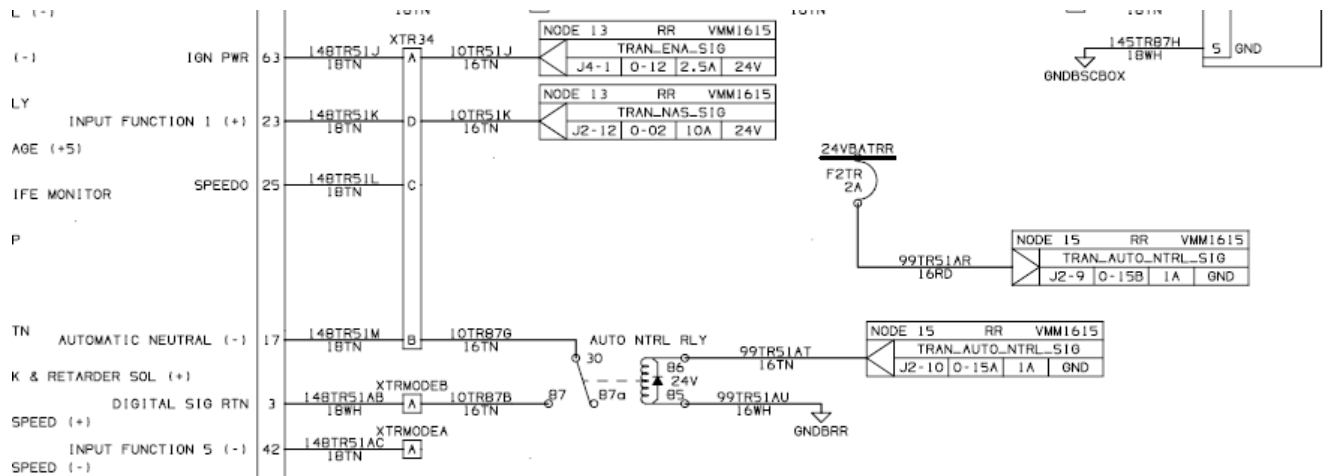


Figure 6a: Schematic SR-2115/2116

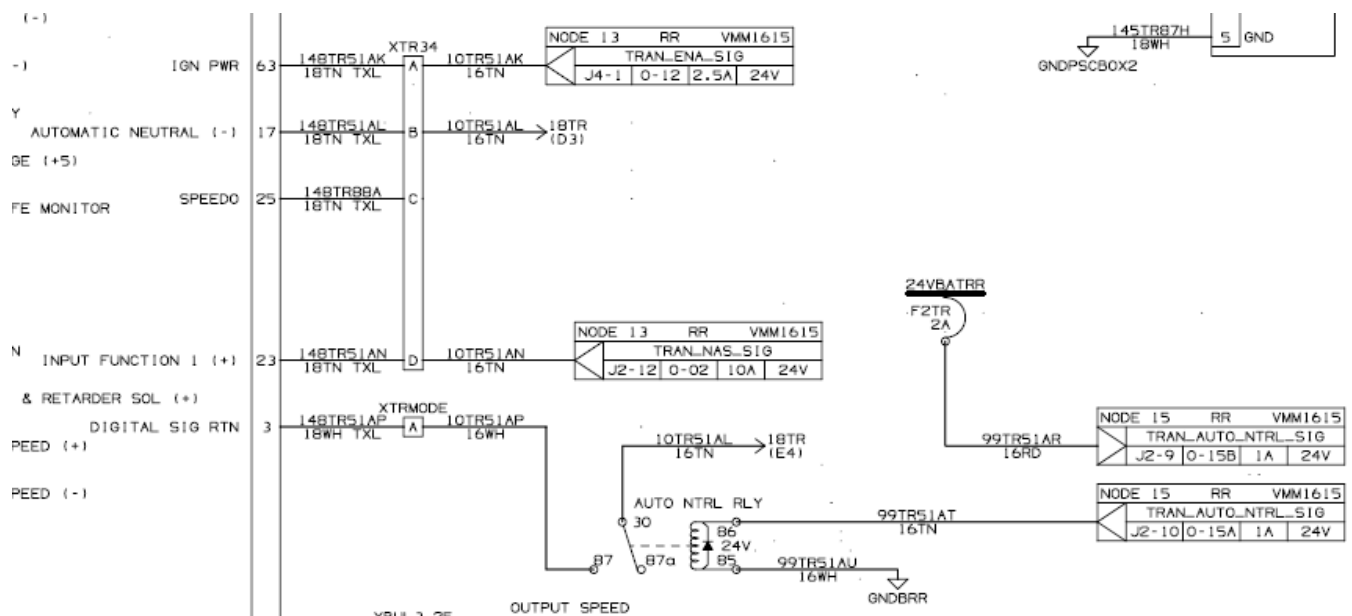


Figure 6b: Schematic SR-2230

14. Route all wires neatly alongside the existing harness in the rear panel. Use ty-raps (P/N: 5958112) to secure the harness.
15. Locate the appropriate decal from the table below and install it on the rear panel cover using ADHESIVE-SPRAY 77 (P/N: 170962).

SR	Decal Part Number
2215	722207
2216	722207
2230	719941

16. Remove all tools and debris and bring the bus back into operating condition.



LABOUR ESTIMATE

	Operation	Men	Hours	Labor Time M X HR
1	Add relay for Auto Neutral signal to TCM	1	1	1

PARTS REQUIRED

Item	Part Number	Description	Qty. per Coach	Units	Notes
1	744369	HRNS-JMPR AUTO NTRL RLY	1	EA	
2	001846	TERM-BF 1/4 16-12AWG NIN	2	EA	
3	001325	BASE-RELAY SOCKET	1	EA	
4	106614	RELAY 24V SPDT	1	EA	
5	14S00006	SCREW MACHINE NO 10 PN HD	1	EA	
6	50W00000	WASHER FLAT SS 10	1	EA	
7	5958112	TYRAP-7.0 BLACK	8	EA	
8	170962	ADHESIVE-SPRAY 77	0.05	EA	
9	218992	BREAKER 2A ETA MAN	1	EA	
10	722207	DECAL-REAR PANEL	1	EA	For 2215/2216
11	719941	DECAL-REAR PANEL	1	EA	For 2230