Service Bulletin No. 1096

Circulate to listed addressees

COACH MODEL	:	C2045 with lift and sliding lift door
BULLETIN TYPE	:	Product Improvement
MANUAL & SECTION	:	Maintenance Manual: Chapter 9 - Electrical system Spare Parts Manual: Section 782009 - Electrical equipment
PARTS BOOK REVISION	:	No
DATE	:	November 30th, 2001
SUBJECT	:	**Hazard warning flasher protection diode**
TERMS & CONDITIONS	:	Labor allowance will be provided as per warranty information in this Bulletin.

APPLICATION :

The modification subject of this Bulletin is applicable to the following units :

Model	Engine	VIN
C2045	Cummins	45261, 45301 → 45305, 45325 → 45341, 45351& 45352
	Detroit Diesel	45766 → 45775, 45791 → 45793

DESCRIPTION :

Through an eddy current in the turn signal circuit of C2045 coaches equipped with a lift and a sliding lift door, the hazard warning lights will automatically begin flashing as soon as the battery master switch is turned off. This intermittent phenomenon can be addressed by installing a diode in the power line of relay RL98.3. The procedure in this Bulletin shows how this can be achieved.

Service personnel : please read, initial and circulate

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

PARTS :

- To install a diode in the power line of relay RL98.3 the following parts are needed:

Part No.	Description	Qty.
VH 10542185	Automotive wire, 16 AWG, blue	1.5 ft
VH 10542299	Automotive wire, 16 AWG, red	8 ft
VH 660766475	Flat blade connector, female, non-insulated, narrow	2
VH 10553438	Flat blade connector, female, non-insulated, wide	2

- Parts may be purchased from your nearest International Coach Parts Inc. dealer.
- Always use genuine maintenance products and parts. Do not accept imitations.

PROCEDURE :

1. General :

- The time required to install the protection diode is approximately 20 minutes.
- This job should be executed by an experienced automotive electrician.
- For more information refer to the Electrical Wiring Diagram Booklet that comes with the coach.

2. Special tools, equipment or services :

- Crimping tool to squeeze-crimp the non-insulated flat blade connectors.
- Automatic wire strippers.

3. Preparations :

- Park the coach on a level surface, apply the parking brake and shut down the engine.
- Switch off all systems and turn off the battery master switch.
- Put a "DO NOT OPERATE" tag on the instrument panel.
- Read the entire procedure before beginning to work.

CAUTION: Do not work on live electrical circuits. Observe safe shop practices at all times.

4. To install protection diode DB3.8/9 (see Figures 1 and 2):

NOTE: Diode block DB3 has already been installed in the Basic Electrics compartment of the main junction box. Wires should merely be rerouted.

1) In the Basic Electrics section of the main junction, locate circuit breaker Z22.3 on the circuit breaker rack (see Figure 2). Remove the circuit breaker.
   At the back of the holder, take note of the installation of and disconnect the blue 10 AWG wire by depressing the locking tang of its flat blade connector with a small screwdriver.

2) Withdraw the connector and cut it off using cutter pliers.

3) Locate relay RL098.3 on the relay rack (see Figure 2). Remove the relay. At the back of the relay holder, take note of the installation of and disconnect the blue 10 AWG wire by depressing the locking tang of the flat blade connector with a small screwdriver.

4) Withdraw the connector and cut it off using cutter pliers.

5) Take a piece of blue 16 AWG automotive wire, about 1.5 foot long. Strip it back to accept a wide female flat blade connector at one end and a narrow one at the other. Squeeze-crimp the connectors.

6) Repeat step 5 using about 8 ft of red 16 AWG automotive wire.

7) Insert the wide connector of the blue wire in the holder of circuit breaker Z 22.3 as per earlier installation. Reinstall the circuit breaker. Route the wire through the cable duct to diode block DB3 (see Figure 2).

8) Detach DB3 block and holder from the mounting bracket (push and shove). Separate the block from the holder.

9) Insert the narrow connector of the blue wire in the slot of the holder to connect to pin 8 of the diode block.

   NOTE: Pin #s are embossed on the diode base plate.

10) Insert the narrow connector of the red wire in the slot of the holder to connect to pin 9 of the diode block. Reinstall holder and diode block.

11) Route the red wire through the cable duct to the bottom of the main junction box. Continue routing through the bottom duct to the back of the RL98.3 relay holder.

12) Insert the wide connector of the red wire in the relay holder as per earlier installation. Reinstall the relay.

13) Check the turn signal/hazard warning flasher operation separately and in conjunction with the lift.

Procedure complete.

SERVICE INFORMATION :

Service Bulletins are issued to supplement or supersede information in the Van Hool manuals. Note Service Bulletin number, date and subject on the register at the end of the relevant chapter(s). File Service Bulletin separately for future reference.

WARRANTY INFORMATION :

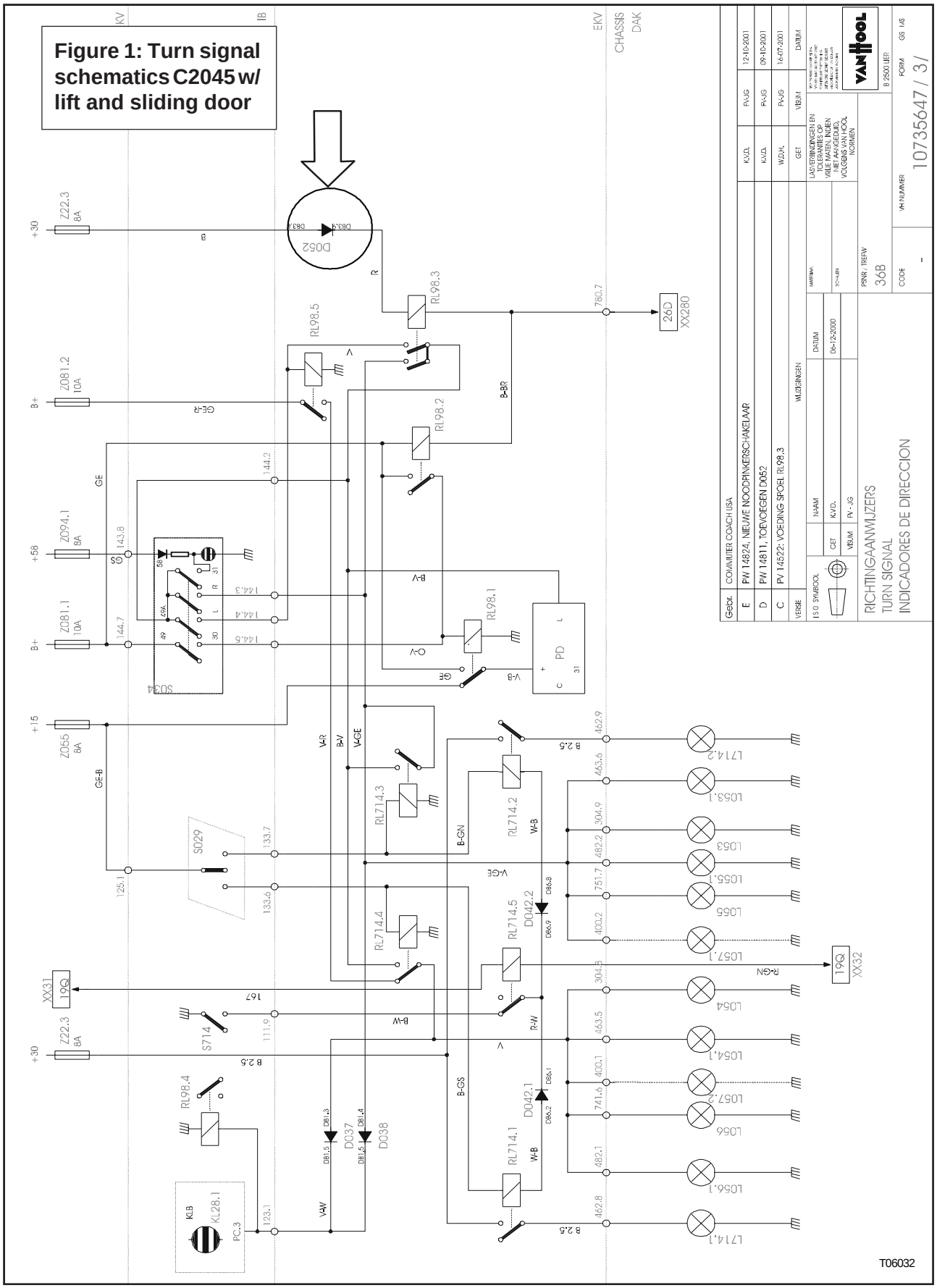
- Causal part : Not specified
- Job code : F63281N
- Parts disposition: discard according to applicable environmental regulations.

Van Hool will accept warranty claims for this repair as follows :

- Parts : Parts may be obtained from your nearest International Coach Parts Inc. Dealer.
- Labor allocation : 0.4 hours
- Expiration date : April 30th, 2002

Contact ABC Coach Inc. for guidance on claim submission.

Figure 1: Turn signal schematics C2045 w/ lift and sliding door



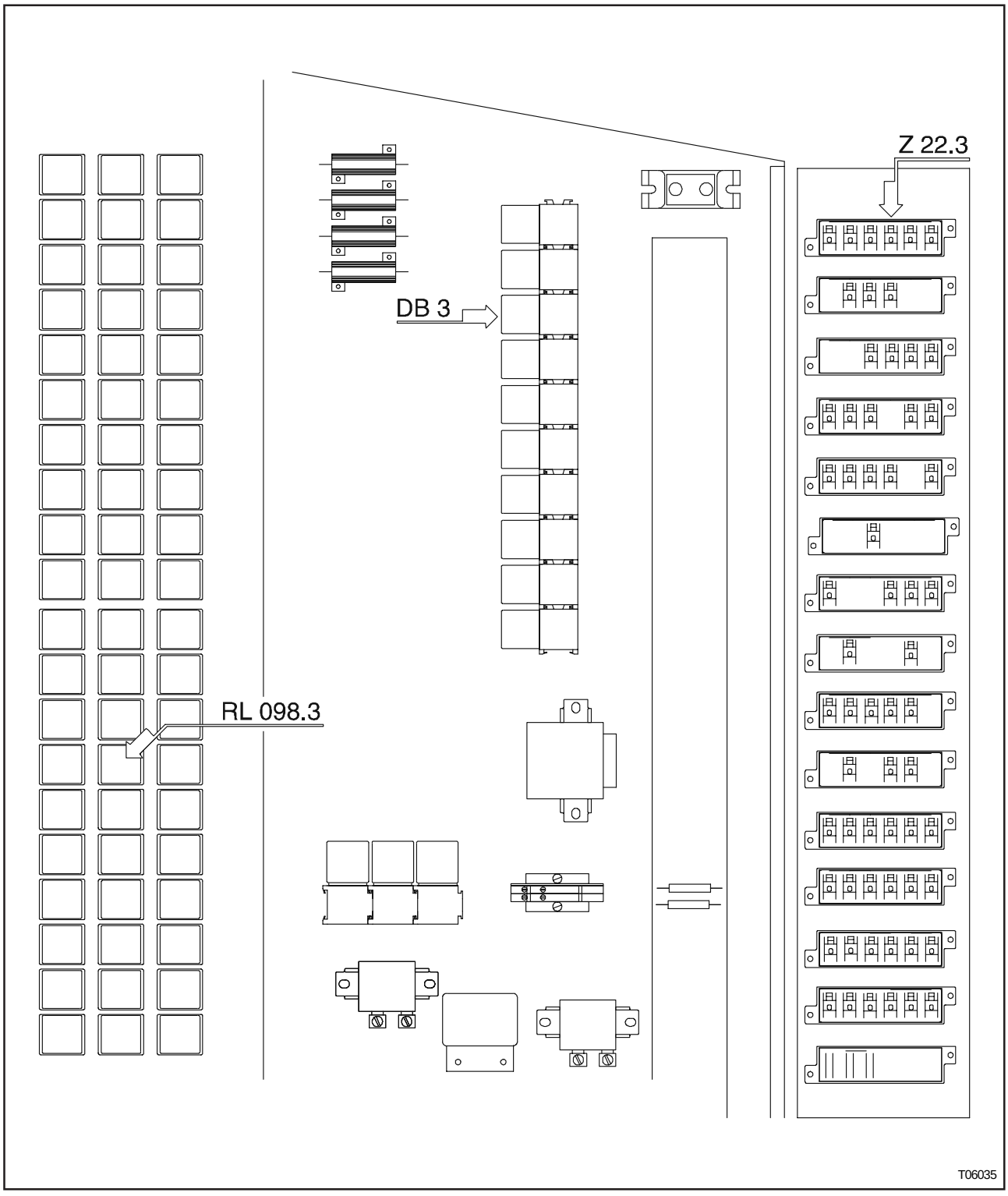


Figure 2: Basic Electrics Section in main junction box