



Service Bulletin No. 1068

COACH MODEL	: T900 Series ; T2100 Series ; C2000 Series
BULLETIN TYPE	: Product improvement
MANUAL & SECTION	: Maintenance Manual : Chapter 9 - Electrical system
DATE	: January 31st, 2001
SUBJECT	: Turn signal/hazard warning flasher
TERMS & CONDITIONS	: Parts may be purchased from your nearest International Coach Parts Inc. dealer. No claims will be accepted with reference to this Bulletin.

DESCRIPTION:

Turn signal/hazard warning flashers have been designed to be used intermittently, as required by normal operating conditions. However, experience in the field has shown that some operators use the hazard warning flashers of their coaches for longer periods of time, because of the type of transport they do. This practice results in overheating of the flasher unit, premature wear, and regular replacements. The modification introduced in this Bulletin is recommended by Van Hool for application on coaches, the operating conditions of which require continuous use of the hazard warning flasher, in order to reduce downtime and maintenance costs. By adding an extra relay as explained below, the load on the flasher can be reduced, and its service life extended.

PARTS :

Always use genuine maintenance products and parts. Do not accept imitations.

Part No.	Description	Qty
VH 660752042	Relay	1
VH 660752011	Relay holder	1
VH 660775007	Automotive wire - red	15 ft.

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.

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SERVICE PROCEDURE :

CAUTION
OBSERVE SAFE SHOP PRACTICES AT ALL TIMES. READ THE ENTIRE PROCEDURE BEFORE BEGINNING TO WORK.

1. General :

The conversion includes the installation of a supplementary relay which is activated by the hazard warning switch and, in case the coach is equipped with a wheel chair lift, by the « lift door open » signal. Once it is switched on, the relay takes over from the flasher the electric load of the hazard warning lights on one half of the coach.

2. Installation guidelines :

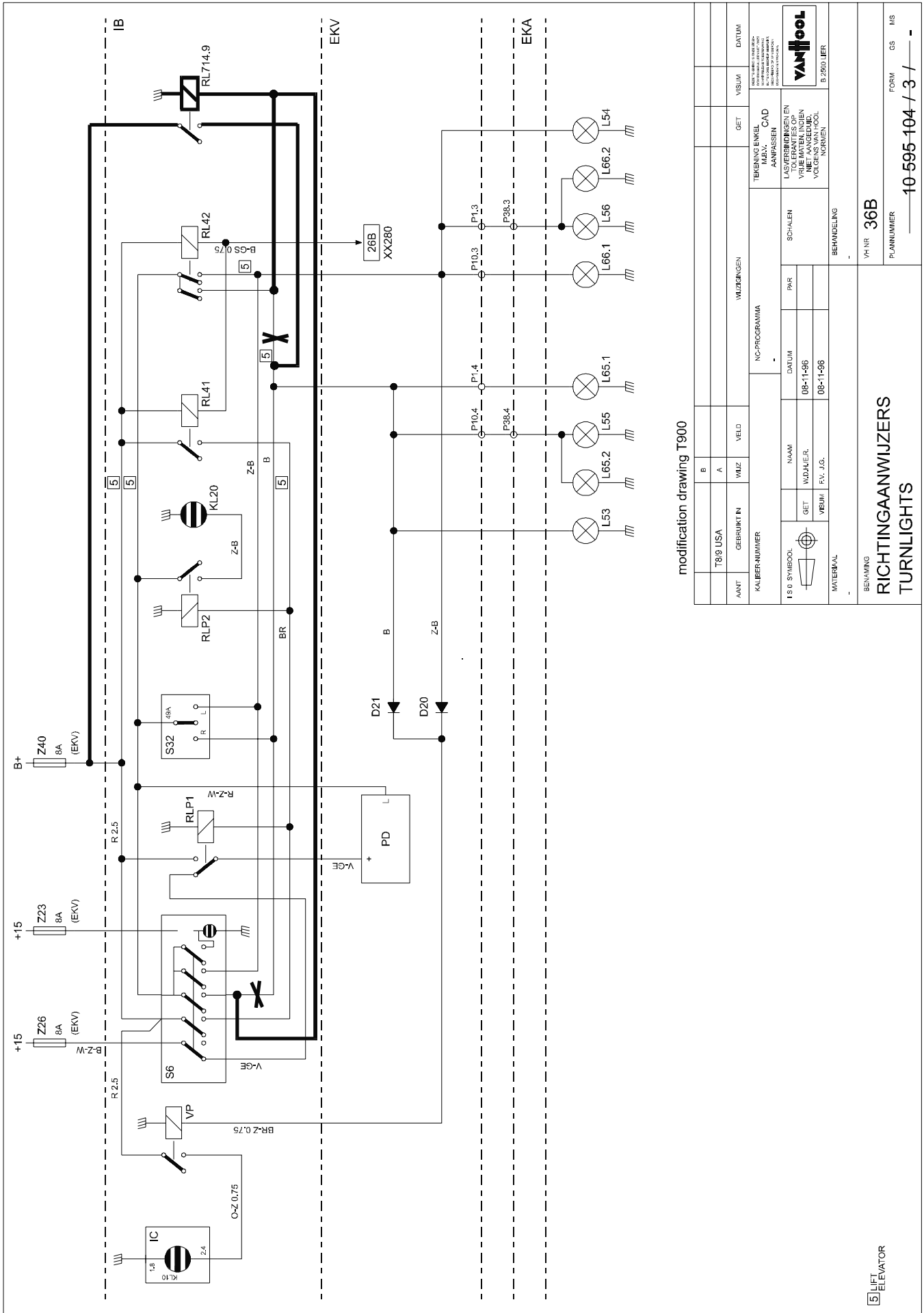
<i>NOTE</i>
<i>The technician performing this job should be an experienced automotive electrician with a thorough knowledge of the coach electric system.</i>

1. Depending on installation conditions, install a supplementary relay holder or use a vacant relay holder from the relay rack in the main junction box.
2. Connect the wires as indicated on the applicable supporting wiring diagram(s) attached to this Bulletin. There is a separate diagram for each type of coach :
 - For early T900 coaches and T900 shells refer to wiring diagram VH 10595104 modified.
 - For T900 coaches with latest type junction box refer to wiring diagram VH 10644303 modified.
 - For T2100 coaches refer to wiring diagram VH 10579092 modified.
 - For T2100 shells refer to wiring diagram VH 10698350 modified.
 - For C2000 coaches refer to wiring diagram VH 10663251 modified.

<i>NOTE</i>
<i>With T900 coaches on which no wheelchair lift has been installed, relays RL41 and RL42 may be omitted.</i>

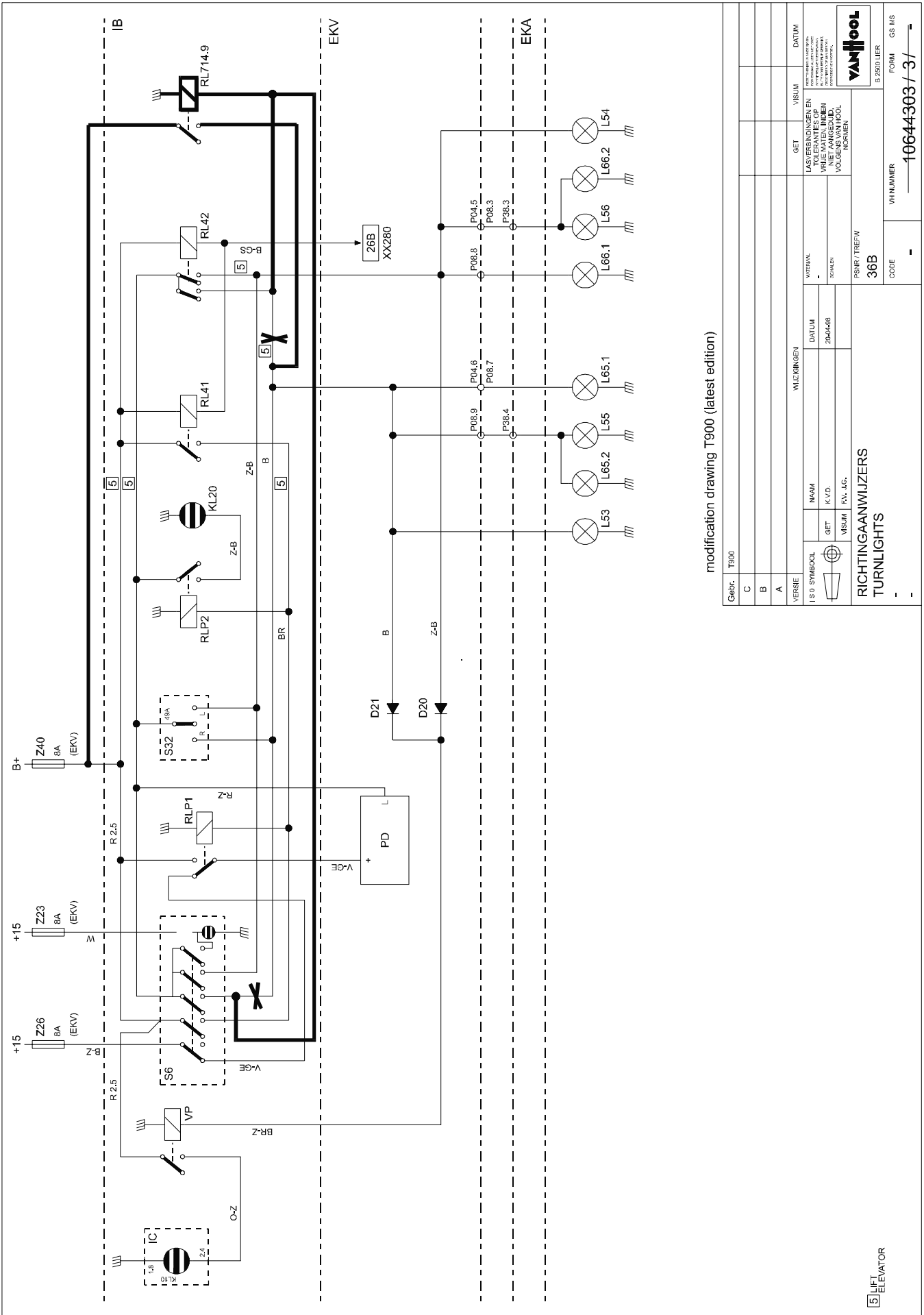
3. Put the relay in the relay holder.
4. Check turn signal and hazard warning flasher operation.

Service procedure complete.



modification drawing T900

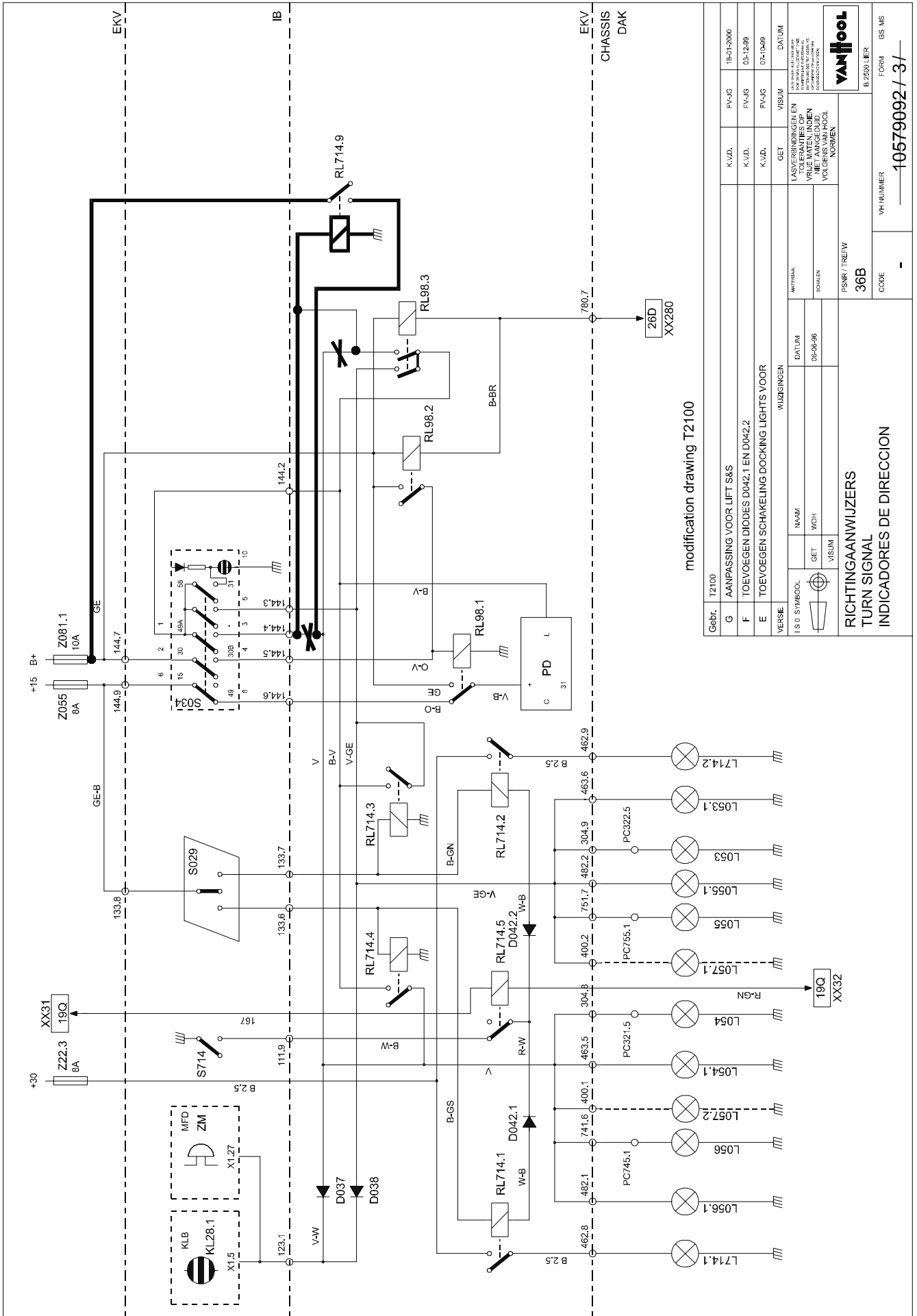
ANNT	T89 USA	GEBUKT IN	B	WJZZ	A	VELD		WJZZJNGEN		GET		VISUM		DATUM				
KALBER-NUMMER	NC-PROGRAMMA						TEKENS ENVEL MAPA AANPASSEN			GET			DATE					
ISO SYMBOOL	GET	WJZZJNGEN	DATUM	PKR	SCHALEN			LAS/VERINGENEN TOLERANTIES OP VRIE WJZZJNGEN VOLGENS VAN HOOL NORMEN			VRIE WJZZJNGEN VOLGENS VAN HOOL NORMEN			VRIE WJZZJNGEN VOLGENS VAN HOOL NORMEN				
MATERIAAL	BEWJZZJNGEN	BEWJZZJNGEN			BEWJZZJNGEN			BEWJZZJNGEN			BEWJZZJNGEN			BEWJZZJNGEN				
RICHTINGAANWIJZERS TURNLIGHTS													VRIE WJZZJNGEN 36B			FORM GS MS		
10-595 104 / 3 /													B-2500 IJER					



modification drawing T900 (latest edition)

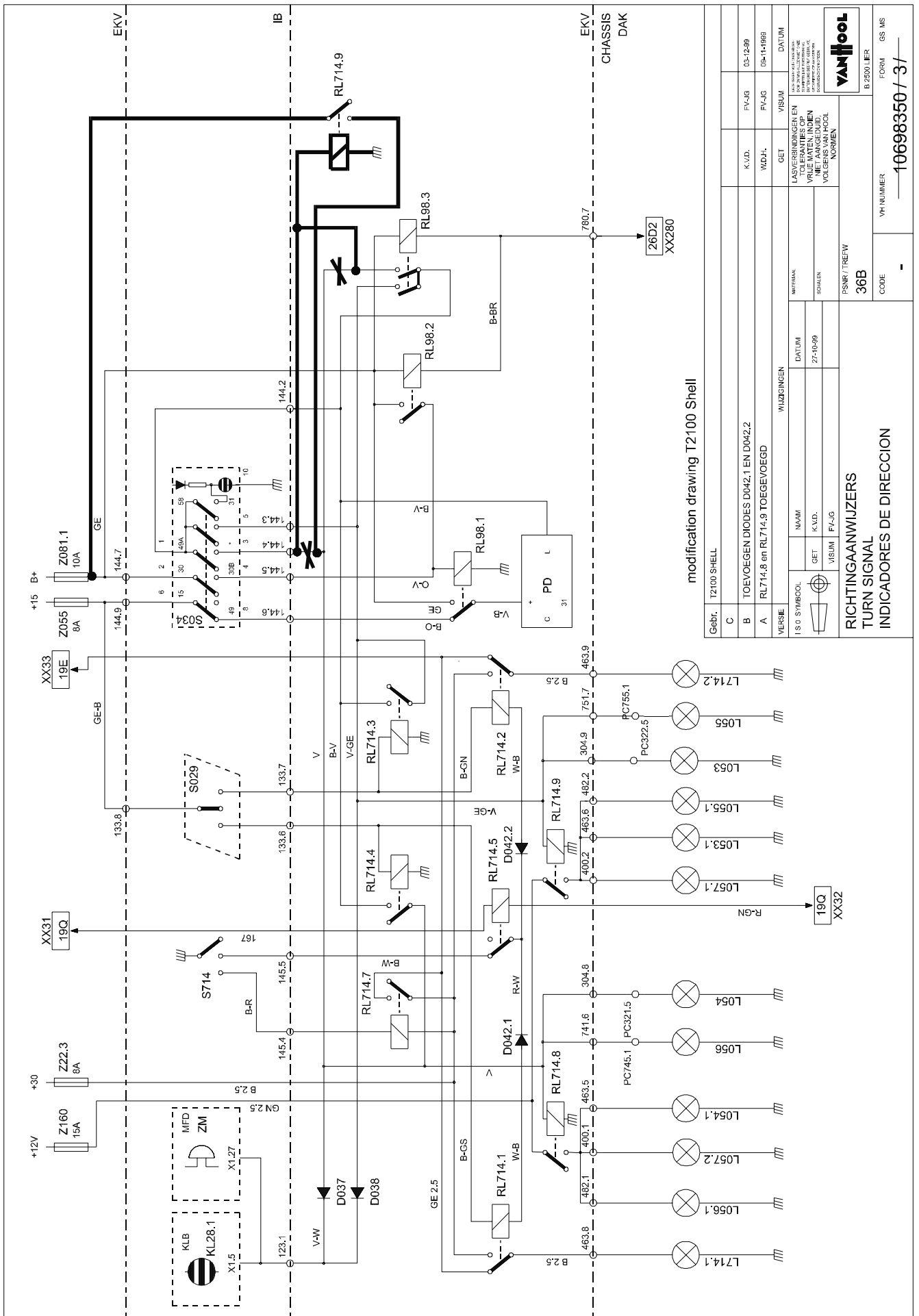
Geobr. T900	WILDIJNINGEN		GET	VISUM	DATUM
C					
B					
A					
VERSIE	ISO SYMBOOL	NAAM	WITRIVAL	LAS/VERBININGEN EN	
		GET	K.V.O.	VRIJEMAKEN INDIEN	
		VISUM	F.V. A.G.	NIE VANSELIJDE, VOLGENDE VAN HET VOOL-ROEKER.	
RICHTINGAANWIJZERS			PSNR / TREFW	B 2910 LER	
TURNLIGHTS			36B	FORM GS MS	
			CODE	VRIJ NUMMER	
				10644303 / 3 /	





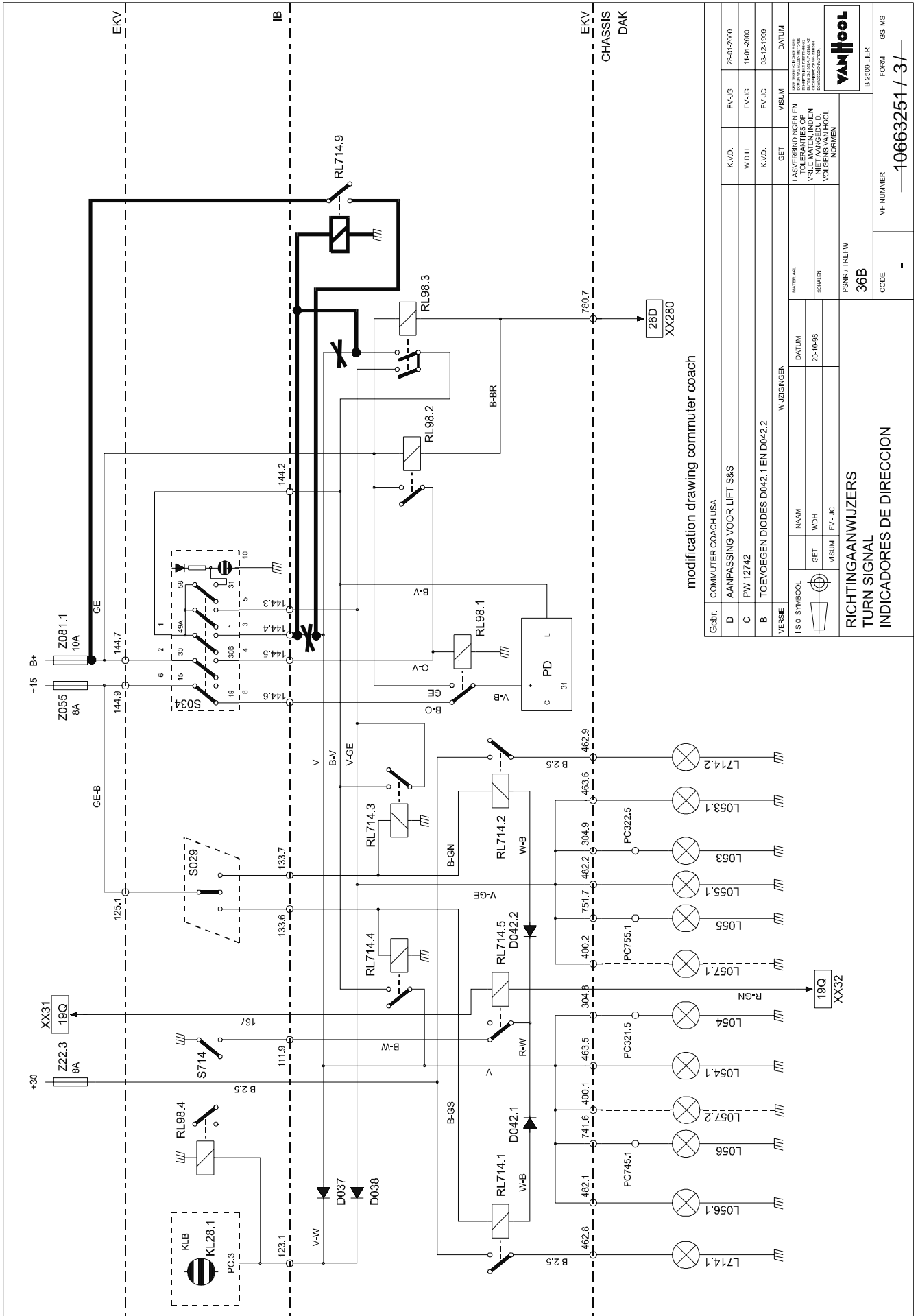
modification drawing T2100

Gebr.	T2100	WIJZIGINGEN	REVISIE	IS O SYMBOOL	NAAM	DATUM	MATRIKAL	LASVERBINDINGEN EN VRIJLEGGEN VAN VRIJLEGGEN NIET VOLGENS VAN HOOL NORMEN	DATUM
G	AANPASSING VOOR LIFT S&S			GET		08-06-98	SCHAKELN		18-01-2000
F	TOEVOEGEN DIODES D042.1 EN D042.2			JUSUM					03-12-89
E	TOEVOEGEN SCHAKELING DOCKING LIGHTS VOOR								07-10-89
		RICHTINGAANWIJZERS TURN SIGNAL INDICADORES DE DIRECCION		PSNR / REF/VV 36B		B-2500 IER		FORM GS MS	
				VH-NUMMER		10579092 / 3 /			



modification drawing T2100 Shell

Gebr.	T2100 SHELL	MIDZINGEN		METRIEK	DATUM	
C		GET	NAAM	SPALLEN	27-10-99	
B	TOEVOEGEN DIODES D042.1 EN D042.2	GET	K.V.D.			
A	RL714.8 en RL714.9 TOEGEVOEGD	VS/UM	FA/JG			
VERSIE		VS/UM	FA/JG	LASVERBINDINGEN EN VRIJE MATEN (INDIEN NIET AANGEGEUID VOLGENS VAN HOOIJ NORMEN)		
I S O SYMBOOL				PSNR / TREFFW 36B		
RICHTINGAANWIJZERS TURN SIGNAL INDICADORES DE DIRECCION				FORM GS MS B.2500 IER		
				VH-NUMMER -		
				10698350 / 3 /		



modification drawing commutator coach

Gebr.	COMMUTER COACH USA	K.V.D.	FV-JG	2B-01-2000
D	AAFPASSING VOOR LIFT S&S	W.D.H.	FV-JG	11-01-2000
C	PM 12742	K.V.D.	FV-JG	03-12-1999
B	TOEVOEGEN DIODES D042.1 EN D042.2	GET	VISUM	DATUM
VERSIE		LASVERBINDINGEN EN VRIJLIGEN EN VRIJLIGEN NIET AANGELUID. VOLGENS VAN HOOL NORMEN		
IS O SYMBOOL	NAAM	DATUM	MUTIPAK	
GET	W.D.H.	20-10-98	SCHAKEN	
VISUM	FV-JG		PSNR / REFVW	
			36B	
			B-2500 IER	
			FORM GS MS	
			VH-NUMMER	
			-	
			10663251 / 3 /	
			RICHTINGAANWIJZERS TURN SIGNAL INDICADORES DE DIRECCION	

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