

Content	Chapter/Page
Index	7
Abbreviations	9
Introduction	
Safety instructions	15
Overview of models	20
Explanatory notes to the wiring diagrams	23
Series standard wiring diagram	
wiring diagram No. 81.99192.3079	26
A = Voltage supply, starting system..... sheet 1 of 22.....	26
A = On-board computer voltage supply / B = EBS voltage supply / C = Vehicle management computer voltage supply..... sheet 2 of 22.....	28
A = Chassis earth distributor..... sheet 3 of 22.....	30
A = On-board diagnosis (OBD) diagnosis socket / B = ZDR interface (FFR) (MDB, HGB)..... sheet 4 of 22.....	32
A = Flame start system / B = Fan clutch / C = EDC coolant temperature / D = Coolant level / E = Air filter pressure sensor / F = Power steering oil level..... sheet 5 of 22.....	34
A = Probe for clutch fluid level / B = Multifunctional steering wheel / C = Steering column stalk / D = Sustained-action brake / E = Distributor, line 60028..... sheet 6 of 22.....	36
A = Air dryer/brake circuit monitoring / B = Cab lock check / C = Fuel gauge . sheet 7 of 22.....	38
A = Signal horn / B = Fuel filter heater preparation / C = Engine brake / D = Oil level sensor / E = M-CAN / F = Outside temperature	sheet 8 of 22..... 40
A = Heater blower/air-conditioning system	sheet 9 of 22..... 42
A = Washers and wipers	sheet 10 of 22..... 44
A = Immobiliser / B = Gear selector lever / C = Vehicle management computer diagnosis / D = Accelerator pedal unit..... sheet 11 of 22	46
A = Voltage supply +15 / B = Instrumentation/tachograph	sheet 12 of 22..... 48
A = Lighting learning routine / B = Light circuit / C = Fog lamp/rear fog lamp circuit / D = Cigarette lighter / E = Ashtray lighting..... sheet 13 of 22	50
A = Parking lights, left / B = Parking lights, right..... sheet 14 of 22	52
A = Headlight flash / B = Headlight low beam, headlight high beam, daytime driving lights / C = Headlight beam regulator	sheet 15 of 22..... 54
A = Rear fog lamps / B = Fog lamps, additional high beam headlights, cornering light, left / C = Fog lamps, additional high beam headlights, cornering light, right..... sheet 16 of 22	56
A = Brake light / B = Parking brake / C = Reversing light..... sheet 17 of 22	58
A = Pushbutton unit illumination / B = Permanent load voltage supply / C = Entrance lighting / D = Interior lights..... sheet 18 of 22	60
A = Turn indicators..... sheet 19 of 22	62
A = Spare lines / B = Spare lines for trailer socket / C = Spare lines for engine start/stop	sheet 20 of 22..... 64
A = Gearbox / B = T-CAN network	sheet 21 of 22..... 66
A = Intarder, retarder / B = Power take-off..... sheet 22 of 22	68
Additional wiring diagrams	
wiring diagram No. 81.99192.2496	72
Trailer socket 24V 7-pole	sheet 1 of 1..... 72
wiring diagram No. 81.99192.2498	74
Trailer socket 24V 7-pole/7-pole	sheet 1 of 1..... 74
wiring diagram No. 81.99192.1358	76
ASR check lamp..... sheet 1 of 1	76
wiring diagram No. 81.99192.3222	78

ASR slip thresholds button	sheet 1 of 1	78
wiring diagram No. 81.99192.2495		80
Battery master switch, mechanical.....	sheet 1 of 1	80
wiring diagram No. 81.99192.3235		82
Interaxle and transverse differential lock, rear axle (3-axle vehicle)	sheet 1 of 1	82
wiring diagram No. 81.99192.3233		84
Transverse differential lock, rear axle (2-axle vehicle)	sheet 1 of 1	84
wiring diagram No. 81.99192.3246		86
Electronic Brake System EBS 5 (2-axle vehicle)	sheet 1 of 3	86
Electronic Brake System EBS 5 (2-axle vehicle)	sheet 2 of 3	88
Electronic Brake System EBS 5 (2-axle vehicle)	sheet 3 of 3	90
wiring diagram No. 81.99192.3247		92
Electronic Brake System EBS 5 (3-axle vehicle)	sheet 1 of 4	92
Electronic Brake System EBS 5 (3-axle vehicle)	sheet 2 of 4	94
Electronic Brake System EBS 5 (3-axle vehicle)	sheet 3 of 4	96
Electronic Brake System EBS 5 (3-axle vehicle)	sheet 4 of 4	98
wiring diagram No. 81.99192.3250		100
ECAS 2 (4x2)	sheet 1 of 2	100
ECAS 2 (4x2)	sheet 2 of 2	102
wiring diagram No. 81.99192.3248		104
ECAS 2 (4x2 - semitrailer).....	sheet 1 of 2	104
ECAS 2 (4x2 - semitrailer).....	sheet 2 of 2	106
wiring diagram No. 81.99192.3253		108
ECAS 2 (6x2 optionally with ALM/crane)	sheet 1 of 2	108
ECAS 2 (6x2 optionally with ALM/crane)	sheet 2 of 2	110
wiring diagram No. 81.99192.3624		112
EDC7 Euro 3 D20...	sheet 1 of 3	112
EDC7 Euro 3 D20...	sheet 2 of 3	114
EDC7 Euro 3 D20...	sheet 3 of 3	116
wiring diagram No. 81.99192.3625		118
EDC7 Common Rail Euro 3 D2676 LF, E-EGR	sheet 1 of 4	118
EDC7 Common Rail Euro 3 D2676 LF, E-EGR	sheet 2 of 4	120
EDC7 Common Rail Euro 3 D2676 LF, E-EGR	sheet 3 of 4	122
EDC7 Common Rail Euro 3 D2676 LF, E-EGR	sheet 4 of 4	124
wiring diagram No. 81.99192.3617		126
Electric cab tilt mechanism	sheet 1 of 1	126
wiring diagram No. 81.99192.3260		128
EVB, controlled	sheet 1 of 1	128
wiring diagram No. 81.99192.3173		130
Cab, T-CAN, standard.....	sheet 1 of 1	130
wiring diagram No. 81.99192.3267		132
Window lifter, button in shift console	sheet 1 of 1	132
wiring diagram No. 81.99192.3276		134
Gearbox / manual gearbox	sheet 1 of 2	134
Gearbox / manual gearbox	sheet 2 of 2	136
wiring diagram No. 81.99192.3748		138
Gearbox / manual gearbox	sheet 1 of 2	138
Gearbox / manual gearbox	sheet 2 of 2	140
wiring diagram No. 81.99192.1374		142
Seat belt indicator, driver	sheet 1 of 1	142
wiring diagram No. 81.99192.3292		144
Trailer charge, 24V.....	sheet 1 of 1	144
wiring diagram No. 81.99192.3237		146
I-CAN cab (standard).....	sheet 1 of 1	146
wiring diagram No. 81.99192.3405		148
I-CAN roof (standard)	sheet 1 of 1	148
wiring diagram No. 81.99192.3293		150
Interior lighting, roof, white/red	sheet 1 of 1	150
wiring diagram No. 81.99192.3461		152
Interior lights with ambient light.....	sheet 1 of 1	152
wiring diagram No. 81.99192.3295		154

Intarder	sheet 1 of 1	154
wiring diagram No. 81.99192.3043		156
Tachograph check lamp.....	sheet 1 of 1	156
wiring diagram No. 81.99192.3304		158
Fuel filter heater	sheet 1 of 1	158
wiring diagram No. 81.99192.3305		160
Fuel filter heater, Separ	sheet 1 of 1	160
wiring diagram No. 81.99192.3300		162
Customer-specific control module (KSM).....	sheet 1 of 2	162
Customer-specific control module (KSM).....	sheet 2 of 2	164
wiring diagram No. 81.99192.3314		166
Headlight beam regulator.....	sheet 1 of 1	166
wiring diagram No. 81.99192.3120		168
Fan clutch with speed feedback.....	sheet 1 of 1	168
wiring diagram No. 81.99192.1656		170
Engine brake	sheet 1 of 1	170
wiring diagram No. 81.99192.3316		172
Engine brake, automatic, off	sheet 1 of 1	172
wiring diagram No. 81.99192.3501		174
Multifunctional steering wheel	sheet 1 of 1	174
wiring diagram No. 81.99192.3366		176
Fog lamps/additional high beam headlights and cornering light.....	sheet 1 of 1	176
wiring diagram No. 81.99192.3337		178
Pritarder/Intarder, automatic, off.....	sheet 1 of 1	178
wiring diagram No. 81.99192.3134		180
Basicline radio	sheet 1 of 1	180
wiring diagram No. 81.99192.3490		182
Topline radio	sheet 1 of 2	182
Topline radio	sheet 2 of 2	184
wiring diagram No. 81.99192.3349		186
Bunk light, bottom.....	sheet 1 of 1	186
wiring diagram No. 81.99192.2592		188
Side marker lights.....	sheet 1 of 1	188
wiring diagram No. 81.99192.3298		190
Seat heating, driver.....	sheet 1 of 1	190
wiring diagram No. 81.99192.3313		192
Voltage transformer, 12V	sheet 1 of 1	192
wiring diagram No. 81.99192.3317		194
START/STOP device on engine.....	sheet 1 of 1	194
wiring diagram No. 81.99192.3395		196
Storage locker lighting, rear left	sheet 1 of 1	196
wiring diagram No. 81.99192.3396		198
Storage locker lighting, rear right.....	sheet 1 of 1	198
wiring diagram No. 81.99192.3350		200
Storage locker lighting, top (left, middle).....	sheet 1 of 1	200
wiring diagram No. 81.99192.3351		202
Storage locker lighting, top (left, middle, right).....	sheet 1 of 1	202
wiring diagram No. 81.99192.3367		204
Sockets in cab, 12V and 24V	sheet 1 of 1	204
wiring diagram No. 81.99192.3082		206
Anti-jackknife brake for EBS5.....	sheet 1 of 1	206
wiring diagram No. 81.99192.3221		208
T-CAN terminating resistor in cab.....	sheet 1 of 1	208
wiring diagram No. 81.99192.3174		210
T-CAN standard/ECAS.....	sheet 1 of 1	210
wiring diagram No. 81.99192.3175		212
T-CAN standard/ECAS/Intarder	sheet 1 of 1	212
wiring diagram No. 81.99192.3178		214
T-CAN standard/Intarder.....	sheet 1 of 1	214
wiring diagram No. 81.99192.3180		216
T-CAN (KSM)	sheet 1 of 1	216

wiring diagram No. 81.99192.3077	218
Door module	sheet 1 of 5218
Door module	sheet 2 of 5220
Door module	sheet 3 of 5222
Door module	sheet 4 of 5224
Door module	sheet 5 of 5226
wiring diagram No. 81.99192.3303	228
Preparation, transverse differential lock, rear axle (2-axle vehicle).....	sheet 1 of 1228
wiring diagram No. 81.99192.3379	230
Preparation, central lubrication system	sheet 1 of 1230
wiring diagram No. 81.99192.3352	232
Central lubrication system	sheet 1 of 1232

OVERVIEW OF MODELS

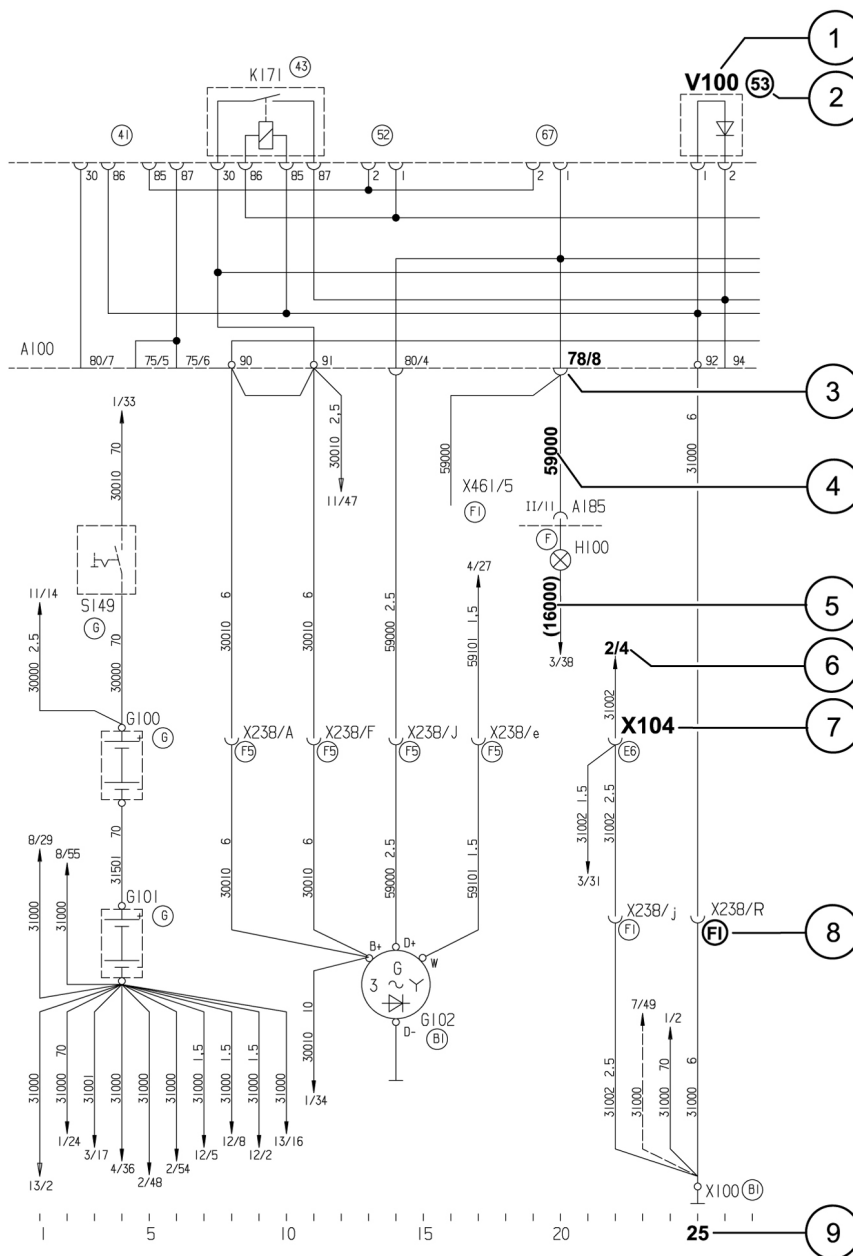
These wiring diagrams - 03.2010 edition - apply to the following vehicles.

Model	Model designation	Model	Model designation
06S - 1580	TGS 18.D20/D26 4X2 BL	26X - 0150	TGX 26/33.D20/D26 6X4 BB
06S - 1581	TGS 18.D20/D26 4X2 BL	28X - 0006	TGX 28 6X4 BB-CKD
89S - 0161	TGS 28.D20/D26 6X2-2 BL	30X - 0273	TGX 26/33.D20/D26 6X4 BL
89S - 0162	TGS 28.D20/D26 6X2-2 BL		

Overview of wiring diagrams classified according to model designation

Name	Item no.:	Model	Model	Model	Model	Model	Model	Model
		06S - 1580	06S - 1581	89S - 0161	89S - 0162	26X - 0150	28X - 0006	30X - 0273
ASR check lamp	81.99192.1358	X	X	X	X			
Seat belt indicator, driver	81.99192.1374	X	X	X	X	X	X	X
Engine brake	81.99192.1656	X	X	X	X	X		X
Battery master switch, mechanical	81.99192.2495						X	
Trailer socket 24V 7-pole	81.99192.2496						X	
Trailer socket 24V 7-pole	81.99192.2498	X	X	X	X	X		X
Side marker lights	81.99192.2592			X	X	X	X	X
Tachograph check lamp	81.99192.3043	X	X	X	X	X	X	X
Door module	81.99192.3077	X	X	X	X	X	X	X
Series standard wiring diagram	81.99192.3079	X	X	X	X	X	X	X
Anti-jackknife brake for EBS5	81.99192.3082						X	
Fan clutch with speed feedback	81.99192.3120					X		X
Basicline radio	81.99192.3134	X	X	X	X	X	X	
Cab, T-CAN, standard	81.99192.3173						X	
T-CAN standard/ECAS	81.99192.3174	X	X					
T-CAN standard/ECAS /Intarder	81.99192.3175			X	X			X
T-CAN standard/Intarder	81.99192.3178					X		
T-CAN (KSM)	81.99192.3180	X	X	X	X	X		X
T-CAN terminating resistor in cab	81.99192.3221	X	X	X	X	X	X	X
ASR slip thresholds button	81.99192.3222	X	X	X	X			
Transverse differential lock, rear axle (2-axle vehicle)	81.99192.3233			X	X			
Interaxle and transverse differential lock, rear axle (3-axle vehicle)	81.99192.3235					X	X	X
I-CAN cab (standard)	81.99192.3237	X	X	X	X	X	X	X
Electronic Brake System EBS 5 (2-axle vehicle)	81.99192.3246	X	X					

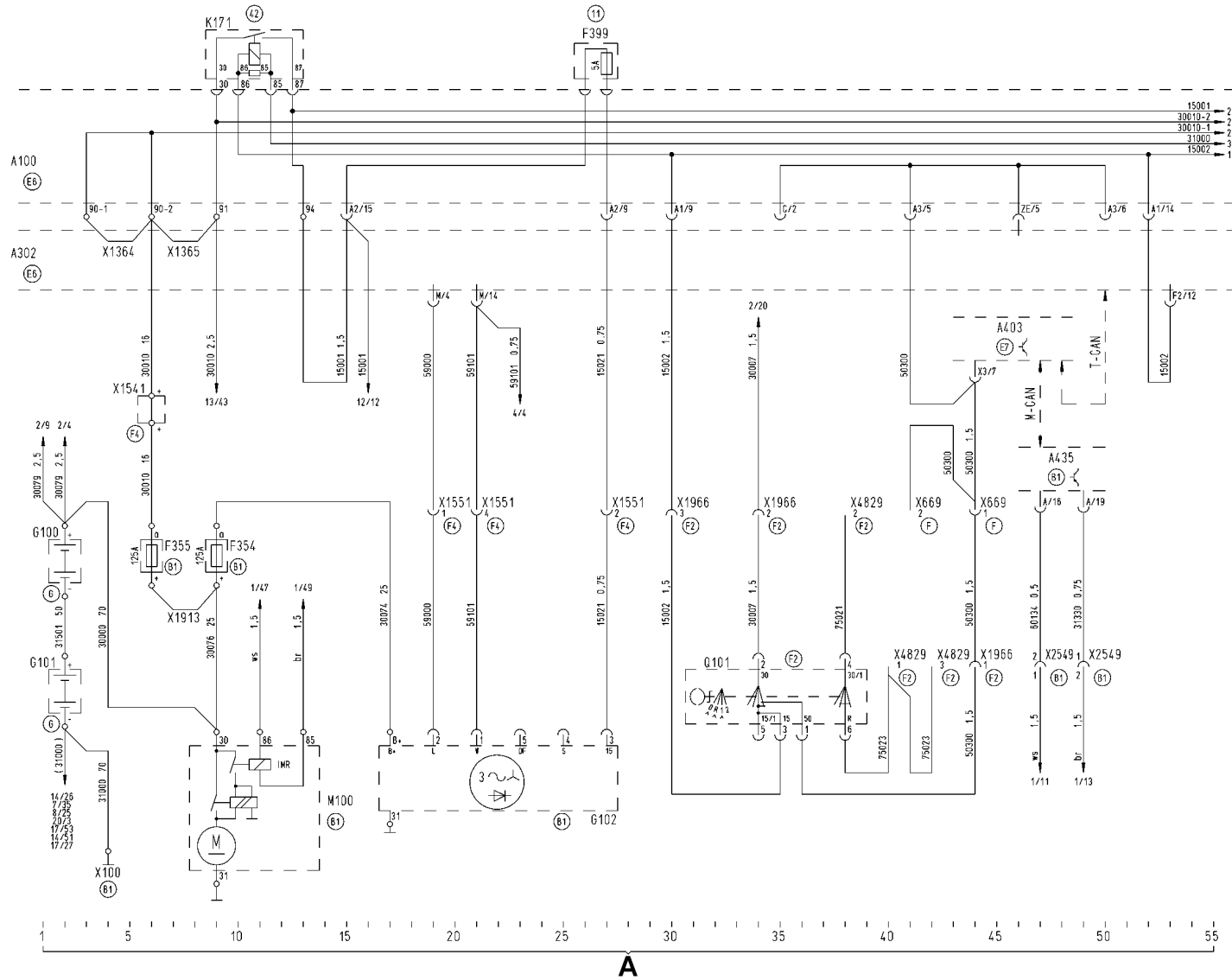
EXPLANATORY NOTES TO THE WIRING DIAGRAMS



- 1 Electrical component designation (example: diode V100 on the central electrical system, number 53)
- 2 Installation position on the front of the central electrical system (here: stamped number 53)
- 3 Plug connection on the rear of the central electrical system (here: connector 78, connection 8)
- 4 Cable designation, number, with abbreviated colour name in the case of coloured cables, cross section information only given if different from 1²
- 5 Cable designation, number in brackets: conductor pathways on a p.c.b.
- 6 Line interruption with information about where the line continues, with sheet number (here: sheet 2 – not page number) and path number (here: path 4)
- 7 Plug connection (example: 1-pin plug connection X104)
- 8 Installation location of the component (see: identifications of installation positions)
- 9 Current path (numbered from 1 to 55/60 on each diagram)

Note: For cable number or cable name, see MAN-cats®.

A = Voltage supply, starting system sheet 1 of 22



WIRING DIAGRAM NO. 81.99192.3079

A = On-board computer voltage supply / B = EBS voltage supply / C = Vehicle management computer voltage supply sheet 2 of 22

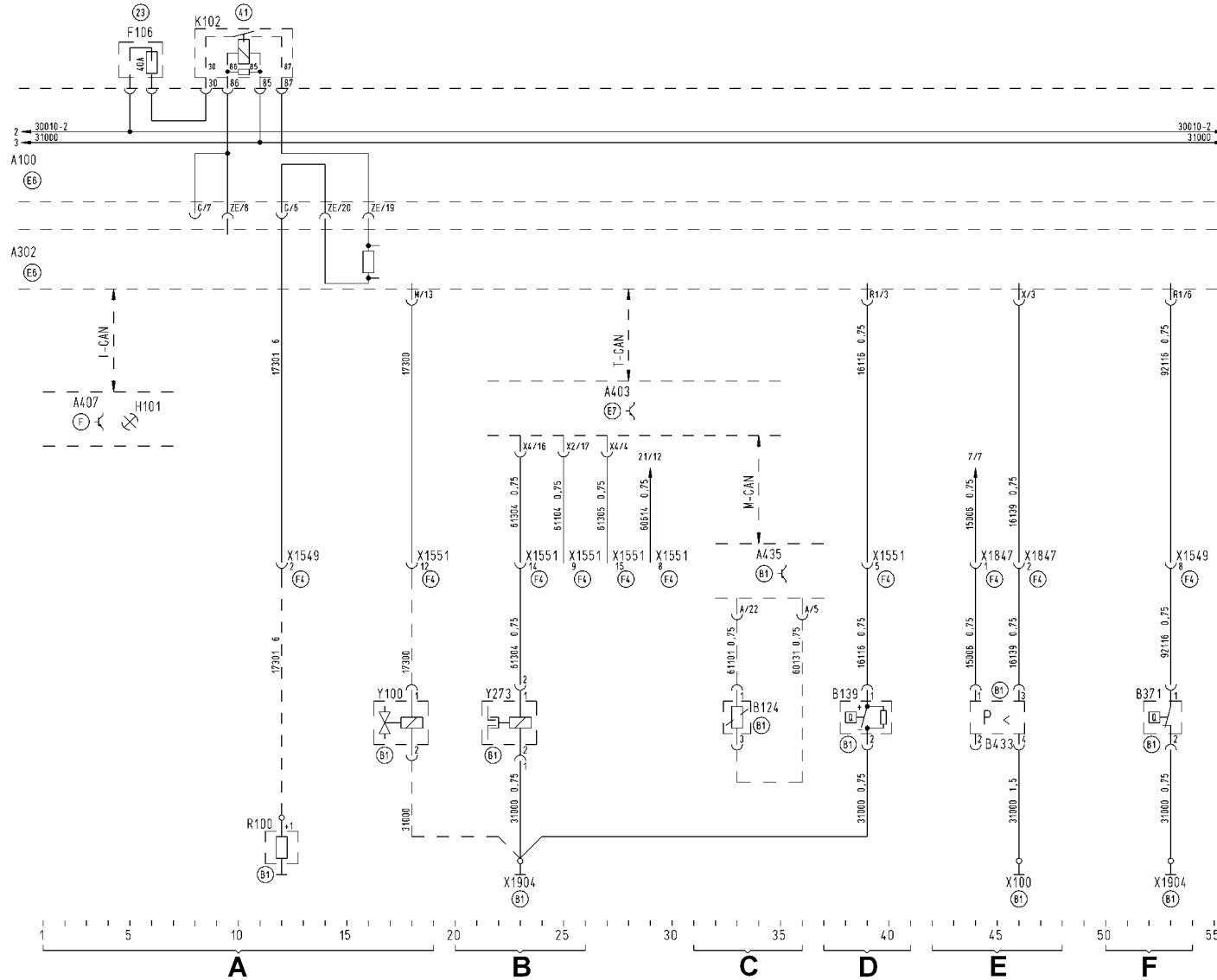
Date: 03.2005

Legend

- A100 Central electrical system
- A302 Central computer 2
- A403 Vehicle management computer
- F160 Fuse, EBS (ABS), trailer voltage supply
- F161 Fuse, EBS (ABS), pressure control valve voltage supply
- F162 Fuse, EBS (ABS), control
- F243 Fuse, central on-board computer continuous positive
- F244 Fuse, central on-board computer (terminal 30-1)
- F245 Fuse, central on-board computer (terminal 30-2)
- F246 Fuse, central on-board computer (terminal 15)
- F371 Voltage supply, vehicle management computer (terminal 30)
- F372 Voltage supply, vehicle management computer (terminal 15)
- F400 Fuse, steering lock
- F522 Fuse, line 30000
- F523 Fuse, line 30000
- X1064 Jumper on central electrical system, item 37 (pin1-2)
- X1557 Plug conn., frame, left
- X1644 Earthing point, cab, next to central electrical system
- X4643 Potential distributor, line 59104

1 EBS

A = Flame start system / B = Fan clutch / C = EDC coolant temperature / D = Coolant level / E = Air filter pressure sensor / F = Power steering oil level sheet 5 of 22



WIRING DIAGRAM NO. 81.99192.3079

A = Probe for clutch fluid level / B = Multifunctional steering wheel / C = Steering column stalk / D = Sustained-action brake / E = Distributor, line 60028 sheet 6 of 22

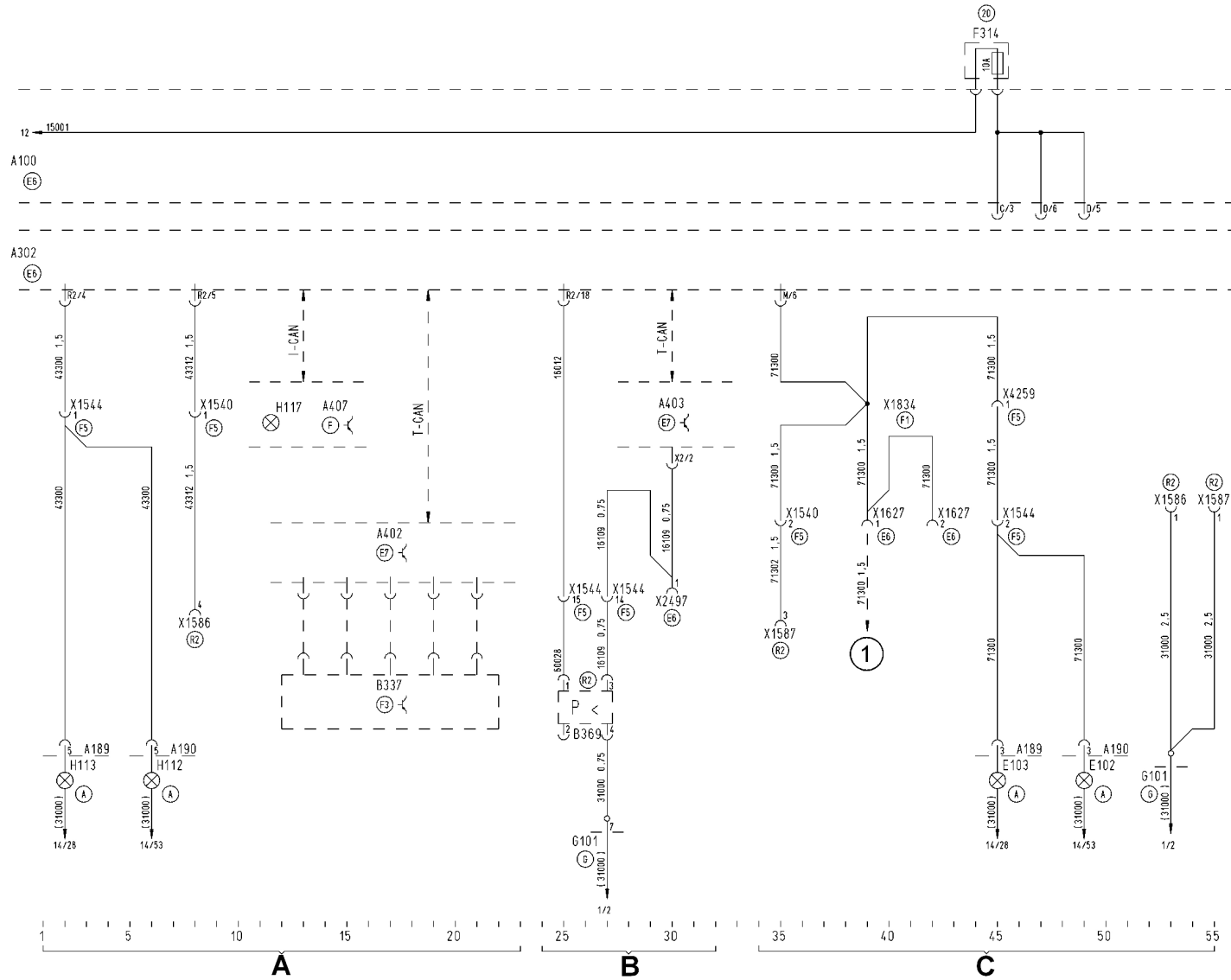
Date: 09.2006

Legend

A100 Central electrical system
A302 Central computer 2
A403 Vehicle management computer
A407 Instrumentation
A942 Steering column stalk, retarder/gearbox
A943 Multifunctional steering wheel
B434 Clutch fluid level probe
F583 Fuse, vehicle management computer (terminal 15), switches / sensors
H145 Check lamp, retarder
S1133 Button, sustained-action brake
X1972 Plug conn., pedals, outside
X4397 Plug conn., multifunctional steering wheel
X4644 Potential distributor, line 60028

1 Vehicle management computer (terminal 15), switches / sensors

A = Brake light / B = Parking brake / C = Reversing light sheet 17 of 22



WIRING DIAGRAM NO. 81.99192.3079

A = Pushbutton unit illumination / B = Permanent load voltage supply / C = Entrance lighting / D = Interior lights sheet 18 of 22

Date: 09.2006

Legend

- A**100 Central electrical system
- A302 Central computer 2
- A407 Instrumentation
- A451 Door module, left
- A452 Door module, right
- A465 Door lock, left
- A466 Door lock, right
- E**127 Interior light, left
- E128 Interior light, right
- E268 Entrance lighting, right
- E269 Entrance lighting, left
- F**125 Fuse, pushbutton unit illumination
- F128 Fuse, permanent load
- R**106 Potentiometer, instrument lighting
- X**395 Plug conn., outline light and interior light, left and right
- X1546 Plug conn., door, right
- X1547 Plug conn., door, left
- X1557 Plug conn., frame, left
- X1569 Plug conn., storage locker lighting
- X1570 Plug conn., storage locker lighting
- X1836 Crimped connector, line 58000
- X2542 Potential distributor, 21-pin, line 58000
- X2543 Potential distributor, 21-pin, line 30006
- X4646 Potential distributor, line 58300

-
- 1** Door module
 - 2** Terminal 58, dimmed

EDC7 Common Rail Euro 3 D2676 LF, E-EGR sheet 2 of 4

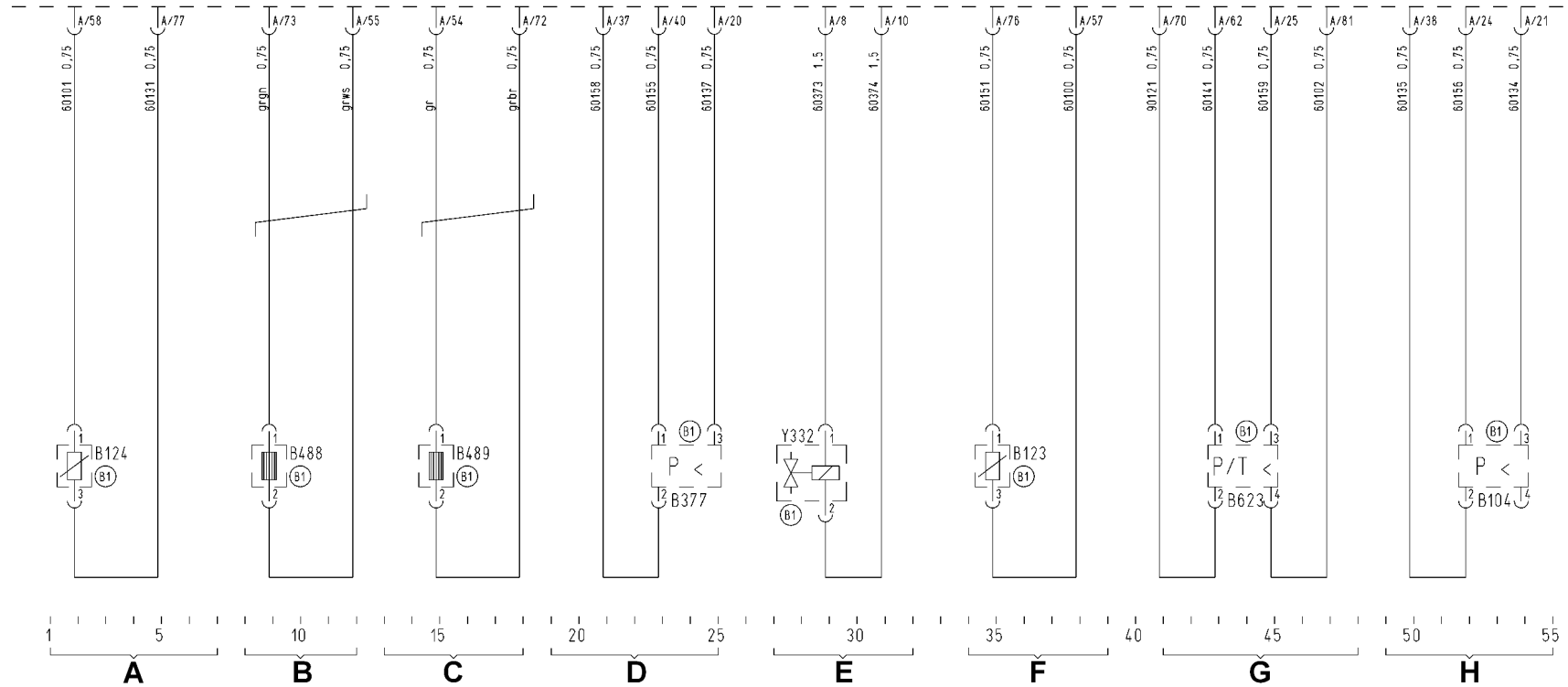
A100



A302



A435



Legend

- A M-CAN databus**
 - B HD OBD CAN databus**
 - C Diagnosis**
 - D Earthing point, box**
 - E Voltage supply**
-

- A100** Central electrical system
- A302** Central computer 2
- A403** Vehicle management computer
- A435** Control unit, EDC
- F163** Fuse, engine regulation (terminal 30)
- F236** Fuse, engine regulation (terminal 15)
- F355** Main fuse (terminal 30-2)
- X1559** Plug conn., engine/EDC/gearbox IV
- X1906** Threaded pin M6 (motor power box)
- X1907** Threaded pin M6 (motor power box)
- X2544** Potential distributor, 21-pin, K-line
- X3381** Threaded pin (motor power box)

Storage locker lighting, top (left, middle, right) sheet 1 of 1

A100
 (E6)

A302
 (E6)

