

The diagram is a complex electrical wiring schematic for a vehicle, organized into five main sections labeled A, B, C, D, and E along a horizontal axis at the bottom, which is marked with a scale from 1 to 55. The diagram shows various electrical components and their interconnections:

- Section A (approx. 1-10):** Includes a fuse labeled F158 (10A) at the top right. Below it, there's a component labeled A407 (F) and a relay labeled S329. Wires are labeled with numbers like 12/6, 16/000, and 31000.0.75. A component labeled X1642 (F) is at the bottom.
- Section B (approx. 15-25):** Features a central control unit or relay assembly with multiple terminals (1, 2, 3, 4, 5, 6, 7, 10, 12, 13, 15). It includes several fuses (F1/18, F1/14, F1/17) and wires labeled with numbers like 30236.0.75, 56012.0.75, 56500.0.75, 12/8, 16/000.0.75, 15/54, 19/3, 31002.0.75, 31000.0.75, 19/6, 56523, and 56504. A component labeled X12 is also present.
- Section C (approx. 30-35):** Contains a component labeled A407 (F) and wires labeled X5/17 and X5/16. A component labeled X1540 (F5) is shown.
- Section D (approx. 45-50):** Includes a component labeled R108 and a component labeled E177. Wires are labeled with numbers like 16/10, 18/7, 30010.2.5, 30011.2.5, 56300.0.75, 31000.2.5, 3/30, and 3/40. Components labeled X4658 (F1) are shown multiple times.
- Section E (approx. 50-55):** Features a component labeled E177 and wires labeled 18/7, 31000.0.75, and 3/40. A component labeled X4658 (F1) is shown.

The diagram uses standard electrical symbols for fuses (F), relays (S), and various types of connectors (X). Wires are labeled with numbers indicating their gauge and length, and some are labeled with 'I-CAN'.

WIRING DIAGRAM NO. 81.99192.3079**A = Parking lights, left / B = Parking lights, right sheet 14 of 22**

Date: 10.2007

Legend

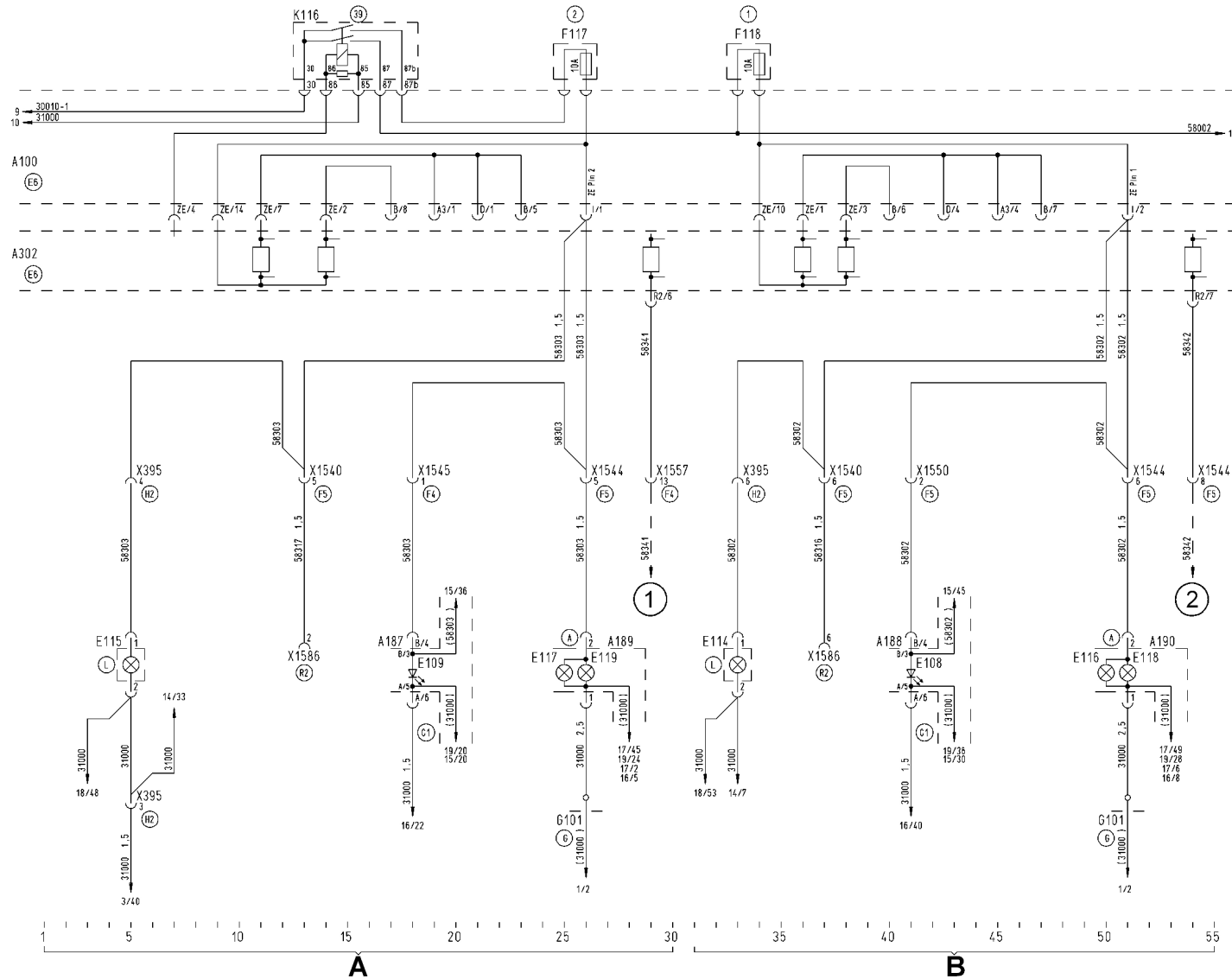
A100 Central electrical system
A187 Headlight, left
A188 Headlight, right
A189 Tail light, left
A190 Tail light, right
A302 Central computer 2
E108 Parking light, right
E109 Parking light, left
E114 Outline light, front right
E115 Outline light, front left
E116 Outline light, rear right
E117 Outline light, rear left
E118 Tail light, right
E119 Tail light, left
F117 Fuse, parking/tail light, left
F118 Fuse, parking/tail light, right
G101 Battery 2
K116 Relay, parking/tail light
X395 Plug conn., outline light and interior light, left and right
X1540 Plug conn., frame I
X1544 Plug conn., frame III
X1545 Plug conn., front end, left
X1550 Plug conn., front end, right
X1557 Plug conn., frame, left
X1586 Plug conn., connection, trailer socket 1

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- 1** Side marker lights, left
2 Side marker lights, right

**Note**

Installation position of X1586 for semitrailer is E8!

A = Parking lights, left / B = Parking lights, right sheet 14 of 22



WIRING DIAGRAM NO. 81.99192.3079**A = Headlight flash / B = Headlight low beam, headlight high beam, daytime driving lights / C = Headlight beam regulator sheet 15 of 22**

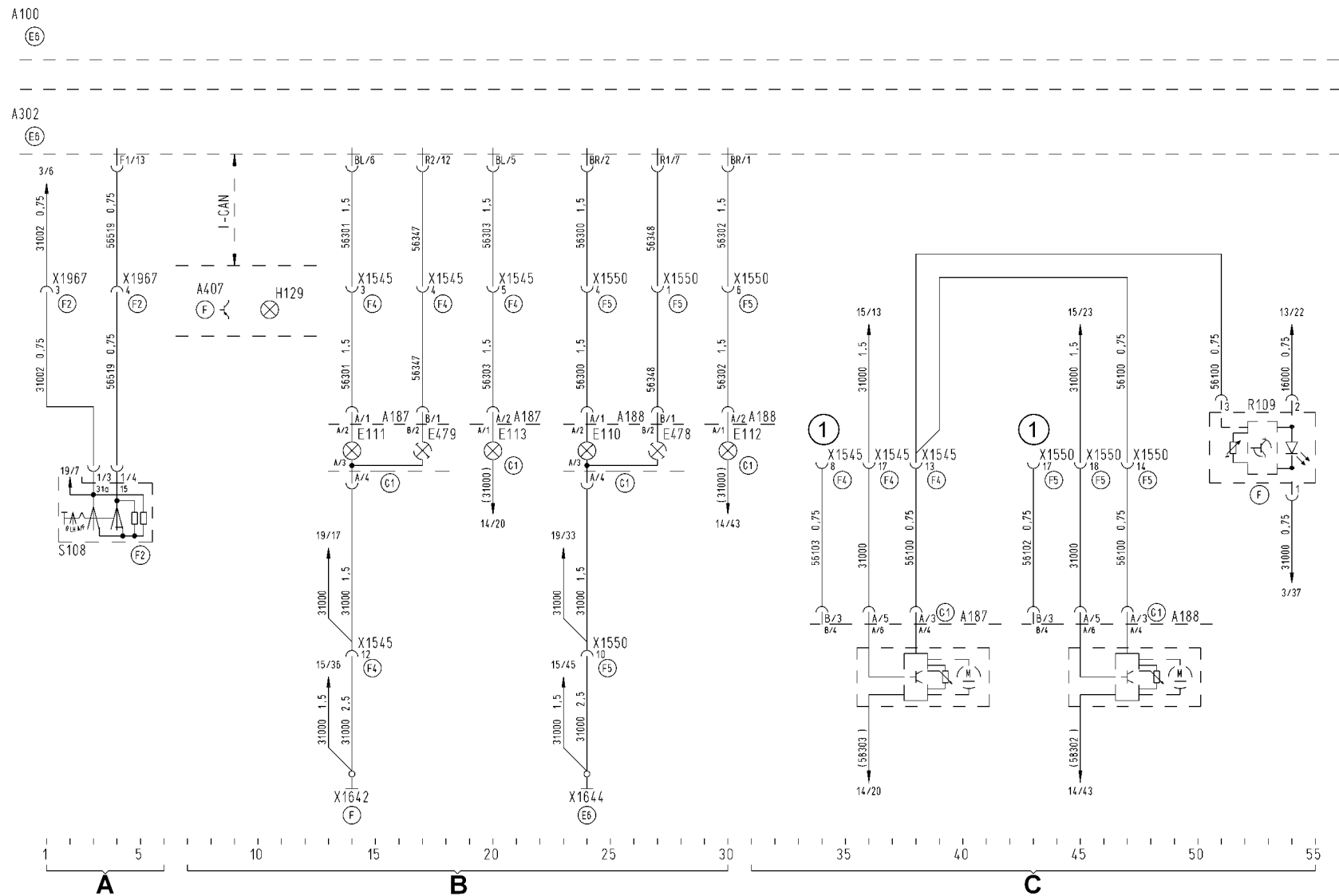
Date: 09.2007

Legend

- A**100 Central electrical system
- A187 Headlight, left
- A188 Headlight, right
- A302 Central computer 2
- A407 Instrumentation
- E**110 Headlight low beam, right
- E111 Headlight low beam, left
- E112 Headlight high beam, right
- E113 Headlight high beam, left
- E478 Daytime driving lights, right
- E479 Daytime driving lights, left
- H**129 Check lamp, headlight high beam
- R**109 Potentiometer, headlight beam regulator
- S**108 Steering column stalk (turn indicators, wipers and headlights)
- X**1545 Plug conn., front end, left
- X1550 Plug conn., front end, right
- X1642 Earthing point, cab behind instrument panel
- X1644 Earthing point, cab, next to central electrical system
- X1967 Plug conn., 1 combination steering column stalk

1 for headlights

A = Headlight flash / B = Headlight low beam, headlight high beam, daytime driving lights / C = Headlight beam regulator sheet 15 of 22



WIRING DIAGRAM NO. 81.99192.3079

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

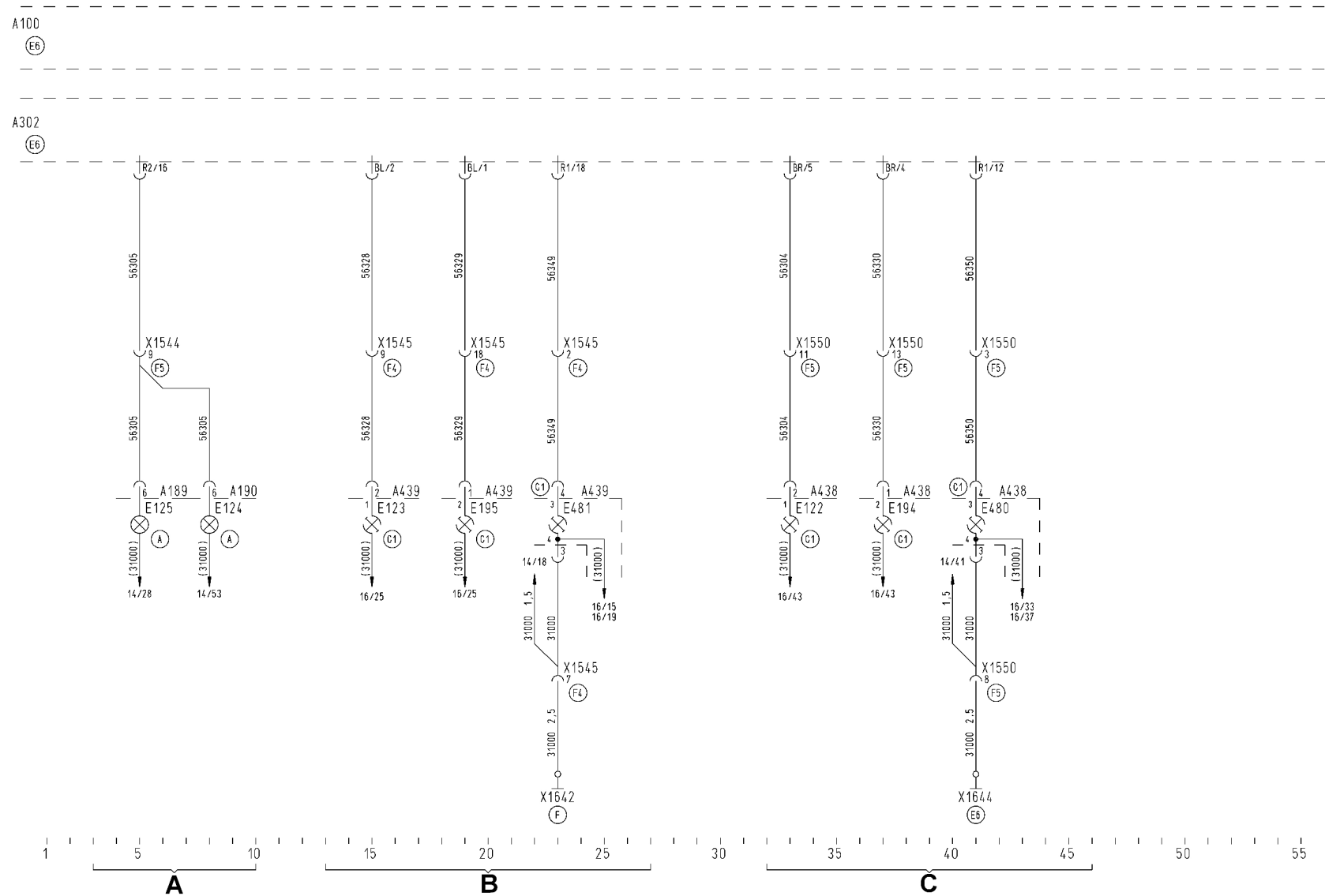
Date: 03.2005

Legend

- A**100 Central electrical system
- A189 Tail light, left
- A190 Tail light, right
- A302 Central computer 2
- A438 Light surround, right
- A439 Light surround, left
- E**122 Fog lamp, right
- E123 Fog lamp, left
- E124 Rear fog lamp, right
- E125 Rear fog lamp, left
- E194 High beam headlight, right
- E195 High beam headlight, left
- E480 Cornering light, right
- E481 Cornering light, left
- X**1544 Plug conn., frame III
- X1545 Plug conn., front end, left
- X1550 Plug conn., front end, right
- X1642 Earthing point, cab behind instrument panel
- X1644 Earthing point, cab, next to central electrical system

SERIES STANDARD WIRING DIAGRAM

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



WIRING DIAGRAM NO. 81.99192.3079**A = Brake light / B = Parking brake / C = Reversing light sheet 17 of 22**

Date: 03.2005

Legend

A100 Central electrical system
A189 Tail light, left
A190 Tail light, right
A302 Central computer 2
A402 Control unit, EBS
A403 Vehicle management computer
A407 Instrumentation
B337 Brake power sensor, EBS
B369 Electrical switch, check lamp, parking brake
E102 Reversing light, right
E103 Reversing light, left
F314 Fuse, reversing light
G101 Battery 2
H112 Brake lamp, right
H113 Brake lamp, left
H117 Check lamp, parking brake
X1540 Plug conn., frame I
X1544 Plug conn., frame III
X1586 Plug conn., connection, trailer socket 1
X1587 Plug conn., connection, trailer socket 2
X1627 Plug conn., reversing lights
X1834 Crimped connector, line 71300
X2497 Plug conn., distributor, line 16109
X4259 Adaptation, reversing buzzer in rear light

1 Switch, reverse gear

**Note**

Installation position of X1586 and X1587 for semitrailer is E8!

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**

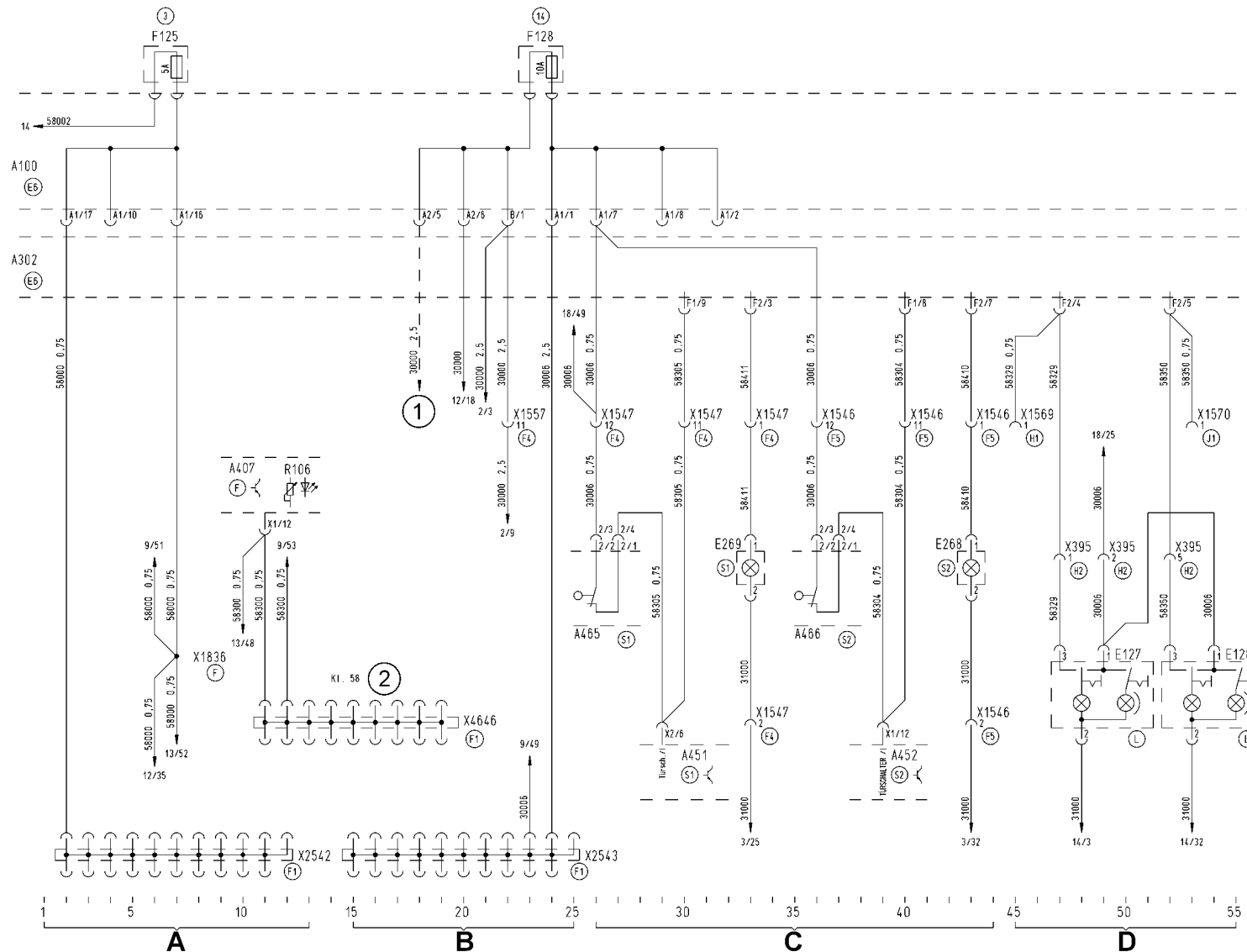
Date: 09.2006

Legend

A100 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
E127 Interior light, left
E128 Interior light, right
E268 Entrance lighting, right
E269 Entrance lighting, left
F125 Fuse, pushbutton unit illumination
F128 Fuse, permanent load
R106 Potentiometer, instrument lighting
X395 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

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



WIRING DIAGRAM NO. 81.99192.3079

A = Turn indicators sheet 19 of 22

Date: 04.2006

Legend

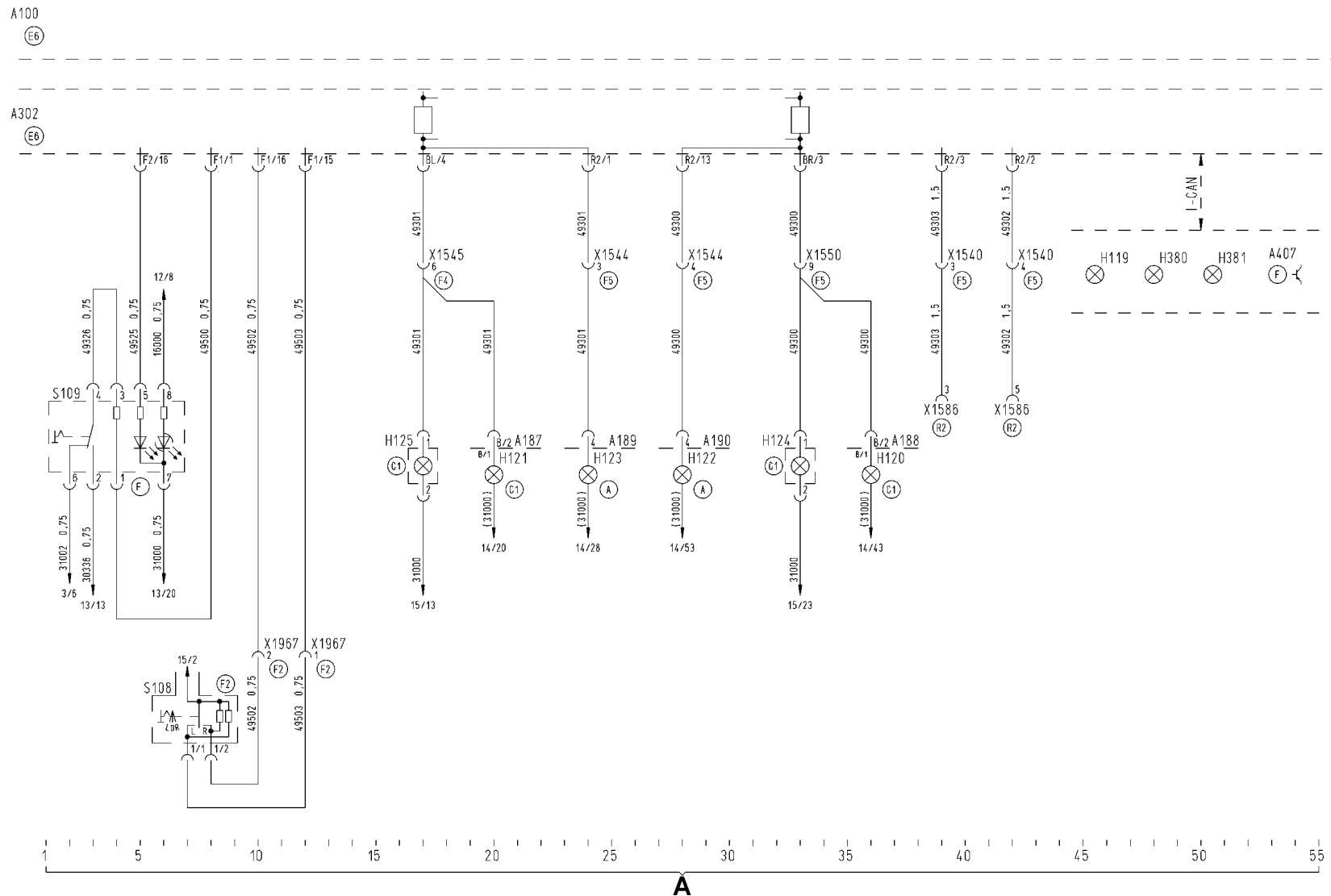
- A100 Central electrical system
- A187 Headlight, left
- A188 Headlight, right
- A189 Tail light, left
- A190 Tail light, right
- A302 Central computer 2
- A407 Instrumentation
- H119 Check lamp, turn indicators, trailer
- H120 Turn indicator, front right
- H121 Turn indicator, front left
- H122 Turn indicator, rear right
- H123 Turn indicator, rear left
- H124 Turn indicator, side right
- H125 Turn indicator, side left
- H380 Check lamp, turn indicator, tractor, right
- H381 Check lamp, turn indicator, tractor, left
- S108 Steering column stalk (turn indicators, wipers and headlights)
- S109 Switch, hazard warning lights
- X1540 Plug conn., frame I
- X1544 Plug conn., frame III
- X1545 Plug conn., front end, left
- X1550 Plug conn., front end, right
- X1586 Plug conn., connection, trailer socket 1
- X1967 Plug conn., 1 combination steering column stalk



Note

Installation position of X1586 for semitrailer is E8!

A = Turn indicators sheet 19 of 22



WIRING DIAGRAM NO. 81.99192.3079**A = Spare lines / B = Spare lines for trailer socket / C = Spare lines for engine start/stop sheet 20 of 22**

Date: 03.2005

Legend

A100 Central electrical system
A302 Central computer 2
G101 Battery 2
S580 Button, engine start (MP box)
S581 Button, engine stop (MP box)
X327 Plug conn. to solenoid valves in frame
X637 Plug conn., differential lock, rear axle
X1540 Plug conn., frame I
X1544 Plug conn., frame III
X1551 Plug conn., engine/EDC/gearbox II
X1557 Plug conn., frame, left
X1586 Plug conn., connection, trailer socket 1
X1587 Plug conn., connection, trailer socket 2

-
- 1** Solenoid valve, transverse differential lock, rear axle
 - 2** Switch for indicator, transverse differential lock
 - 3** Solenoid valve, transverse differential lock, rear axle
 - 4** Check lamp, transverse differential lock, rear axle
 - 5** Check lamp, interaxle differential lock
 - 6** Solenoid valve, interaxle differential lock
 - 7** Solenoid valve, power take-off I
 - 8** Data line
 - 9** Supply, trailer (overfill shut-off device)
 - 10** Control, trailing axle or leading axle, trailer
 - 11** Pressure switch, check, parking brake, trailer
 - 12** Check lamp, brake wear indicator, trailer

**Note**

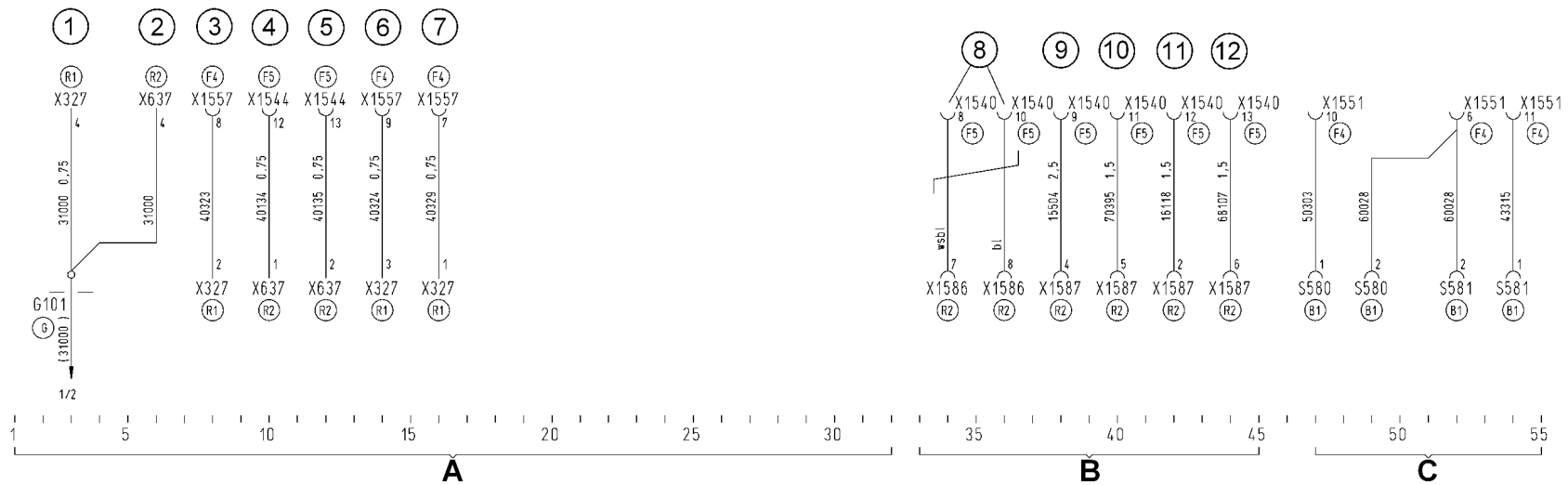
Installation position of X1586 and X1587 for semitrailer is E8!

SERIES STANDARD WIRING DIAGRAM

A = Spare lines / B = Spare lines for trailer socket / C = Spare lines for engine start/stop sheet 20 of 22

A100
(E6)

A302
(E6)



WIRING DIAGRAM NO. 81.99192.3079**A = Gearbox / B = T-CAN network sheet 21 of 22**

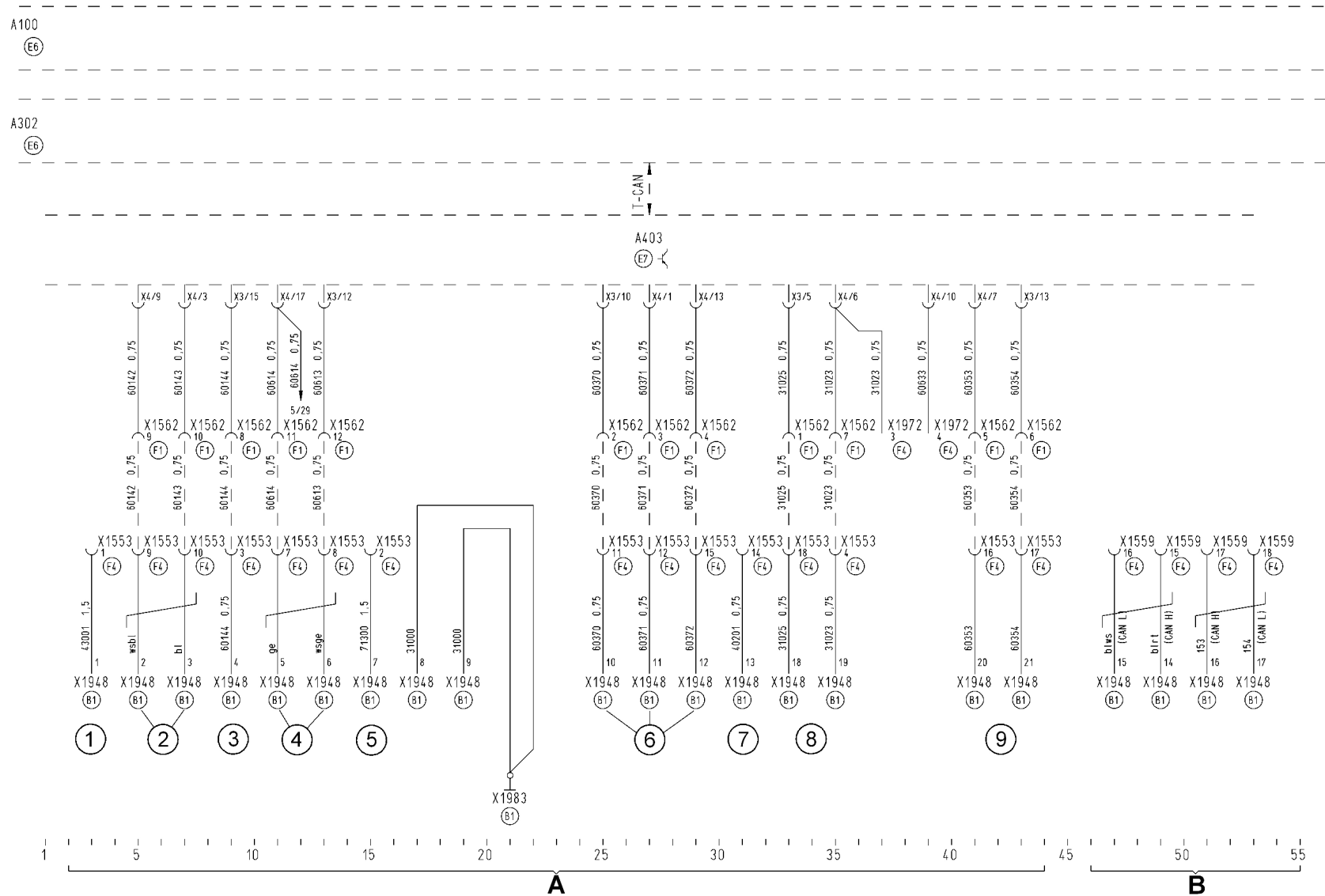
Date: 03.2005

Legend

A100 Central electrical system
A302 Central computer 2
A403 Vehicle management computer
X1553 Plug conn., engine/EDC/gearbox III
X1559 Plug conn., engine/EDC/gearbox IV
X1562 Plug conn., gearbox
X1948 Plug conn., engine/gearbox
X1972 Plug conn., pedals, outside
X1983 Threaded pin M6 (motor power box)

- 1** Switch, reverse gear
- 2** Clutch travel sensor
- 3** Gearbox neutral
- 4** Gearbox, input speed
- 5** Switch, reverse gear
- 6** Gearbox control module
- 7** Diagnosis, AS-Tronic
- 8** Gearbox control module
- 9** Gearbox control module

A = Gearbox / B = T-CAN network sheet 21 of 22



WIRING DIAGRAM NO. 81.99192.3079

A = Intarder, retarder / B = Power take-off sheet 22 of 22

Date: 03.2005

Legend

A100 Central electrical system

A302 Central computer 2

X1553 Plug conn., engine/EDC/gearbox III

X1559 Plug conn., engine/EDC/gearbox IV

X1951 Plug conn., engine/gearbox

X1983 Threaded pin M6 (motor power box)

X3462 Plug conn., engine - power take-off

1 Solenoid valve, accumulator

2 Temperature sensor, Intarder

3 Proportional valve, Intarder

4 Solenoid valve, accumulator/transmitter, actuating pressure

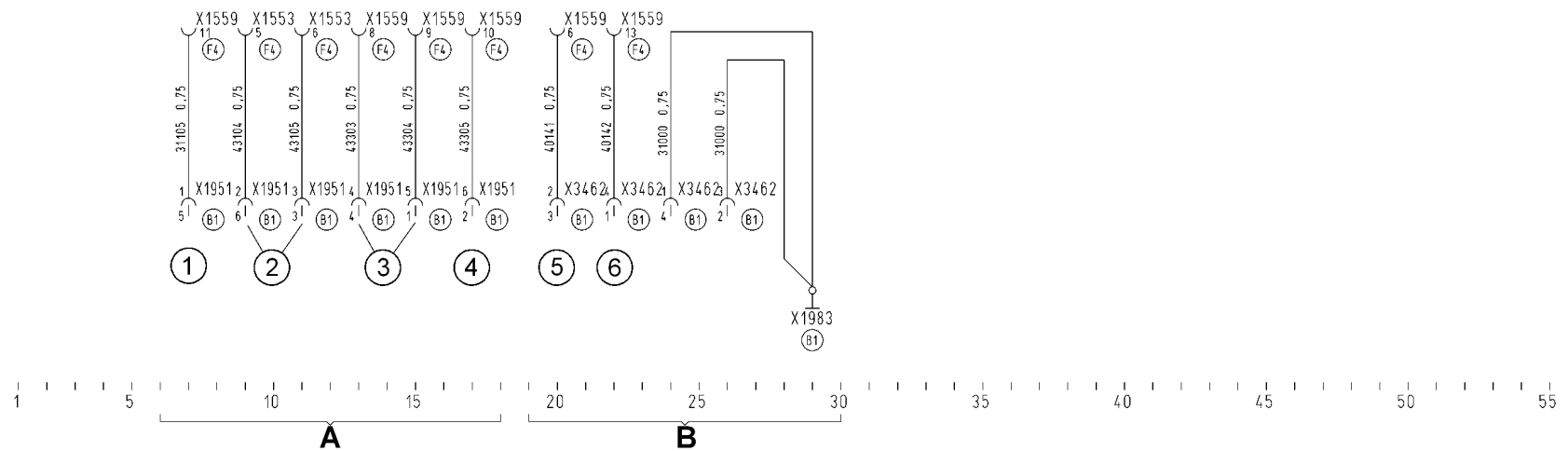
5 Check lamp, power take-off I

6 Check lamp, power take-off II

A = Intarder, retarder / B = Power take-off sheet 22 of 22

A100
E6

A302
E6



WIRING DIAGRAM NO. 81.99192.2496

Trailer socket 24V 7-pole sheet 1 of 1

Date: 01.2007

Legend

A Trailer socket, 24V 7-pin N

-
- A100** Central electrical system
A302 Central computer 2
G101 Battery 2
X330 Socket N 24V
X1540 Plug conn., frame I
X1586 Plug conn., connection, trailer socket 1



Note

Installation position of X1586 for semitrailer E8!

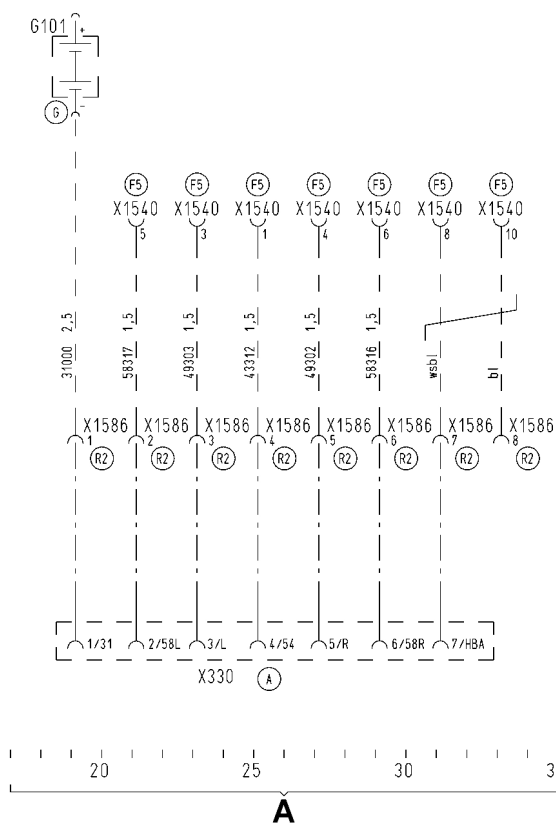
Trailer socket 24V 7-pole sheet 1 of 1

A100

(E6)

A302

(E6)



WIRING DIAGRAM NO. 81.99192.2498

Trailer socket 24V 7-pole/7-pole sheet 1 of 1

Date: 01.2007

Legend

A Trailer socket, 24V 7-pin N

B Trailer socket, 24V 7-pin S

A100 Central electrical system

A302 Central computer 2

G101 Battery 2

X329 Socket S 24V

X330 Socket N 24V

X1540 Plug conn., frame I

X1586 Plug conn., connection, trailer socket 1

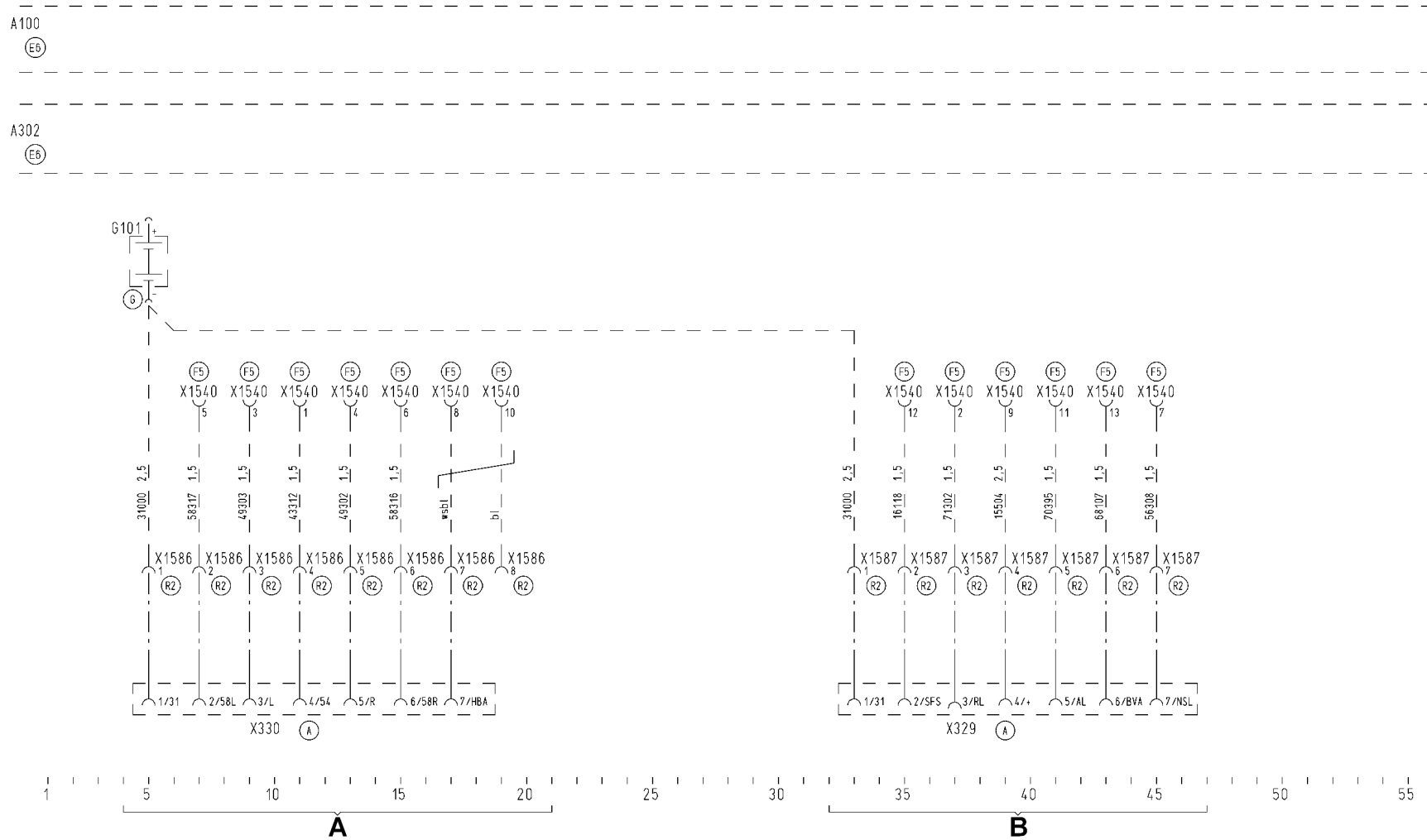
X1587 Plug conn., connection, trailer socket 2



Note

Installation position of X1586 and X1587 for semitrailer is E8!

Trailer socket 24V 7-pole/7-pole sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.1358

ASR check lamp sheet 1 of 1

Date: 04.2001

Legend

A ASR check lamp

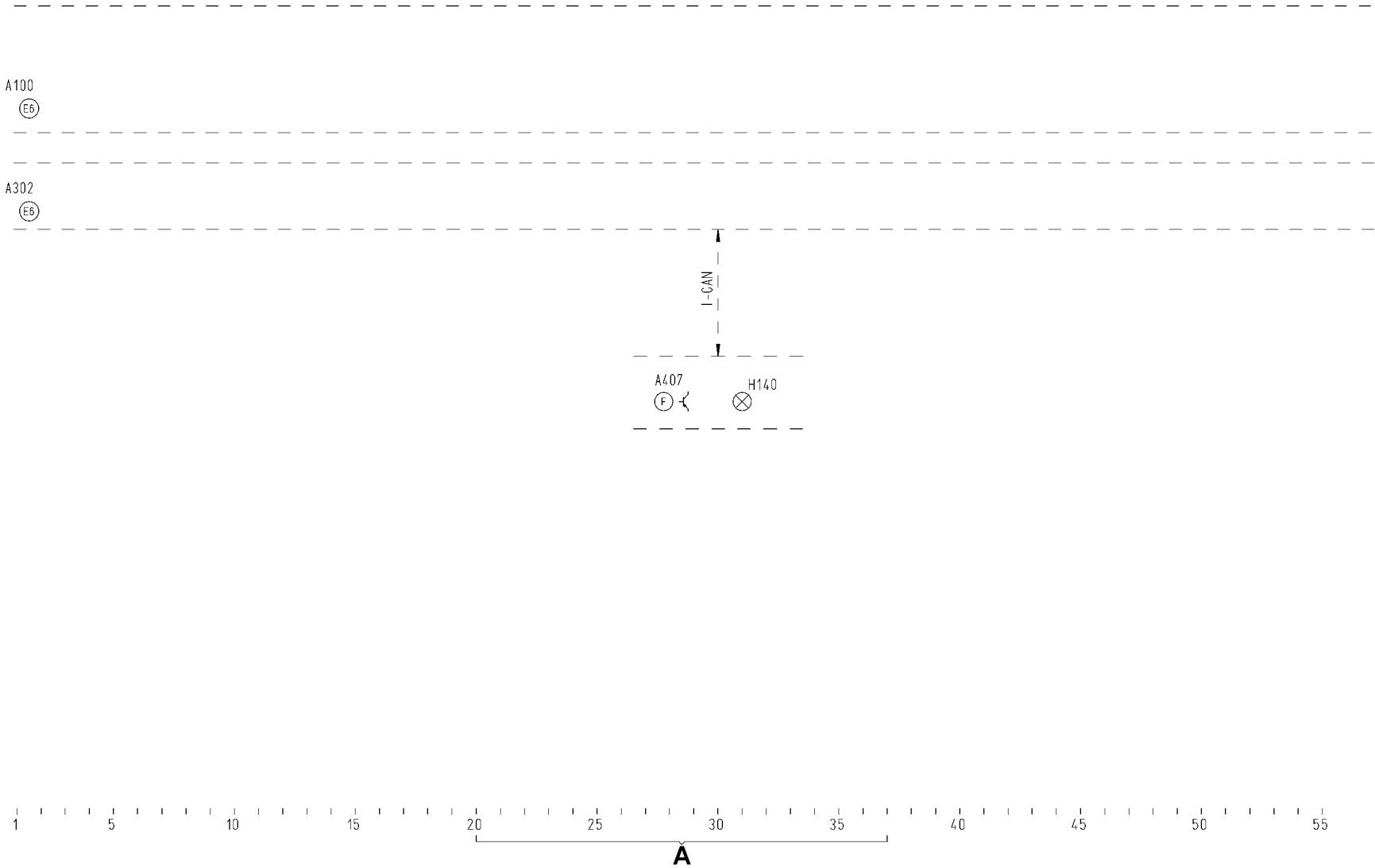
A100 Central electrical system
A302 Central computer 2
A407 Instrumentation
H140 Check lamp, ASR/ESP info.



Note

For basic equipment, see wiring diagram for EBS!

ASR check lamp sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3222

ASR slip thresholds button sheet 1 of 1

Date: 09.2006

Legend

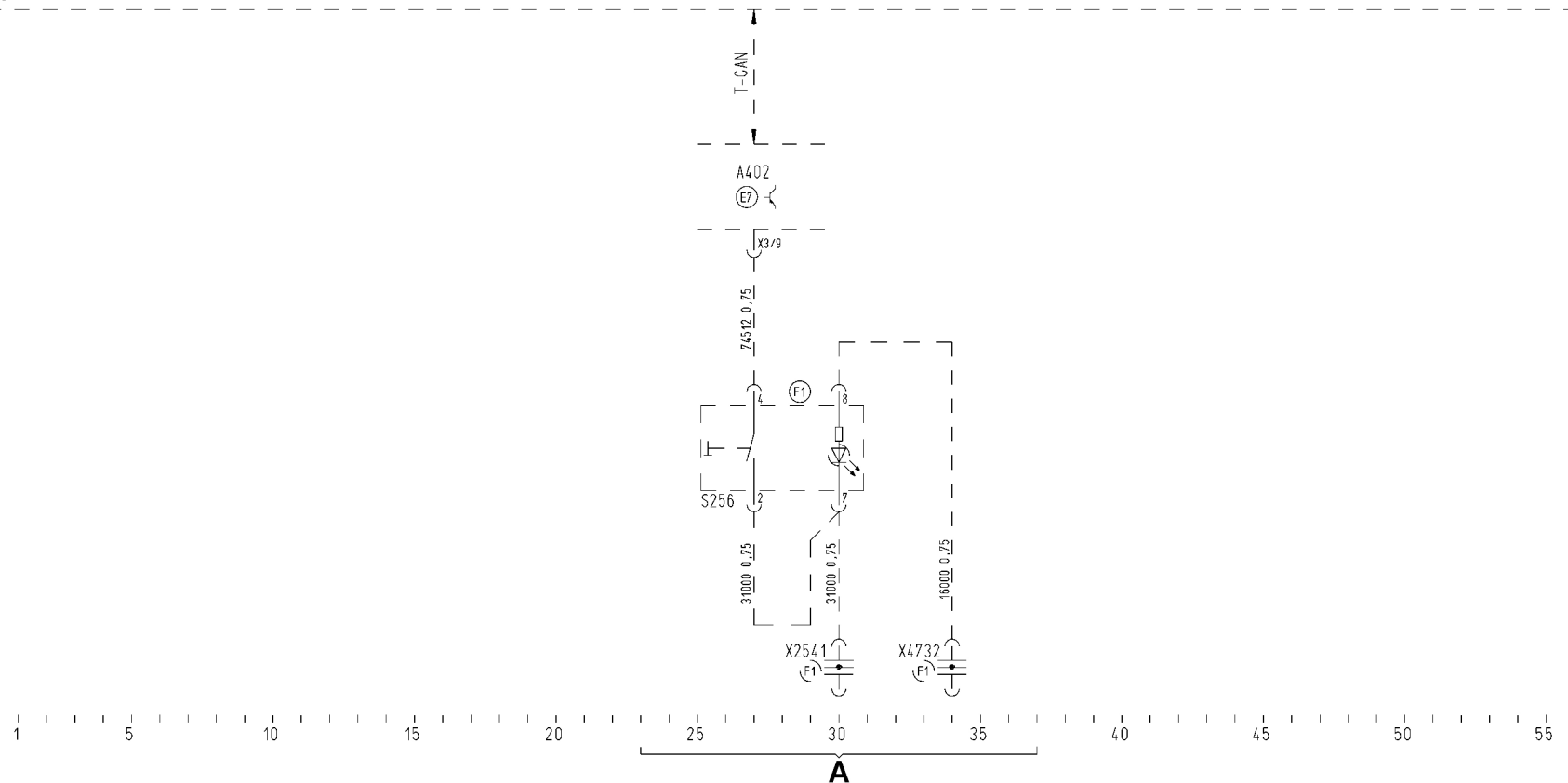
A ASR slip thresholds button

A100	Central electrical system
A302	Central computer 2
A402	Control unit, EBS
S256	Button, ASR or ASR/ESP spin threshold increase
X2541	Potential distributor, 21-pin, line 31000
X4732	Potential distributor, line 16000, switch lighting

ASR slip thresholds button sheet 1 of 1

A100
(E6)

A302
(E6)



WIRING DIAGRAM NO. 81.99192.2495

Battery master switch, mechanical sheet 1 of 1

Date: 11.2006

Legend

A Battery master switch, mechanical

A100 Central electrical system

A302 Central computer 2

G100 Battery 1

M100 Starter

S149 Isolator switch, battery +

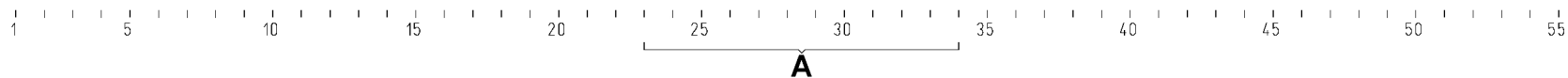
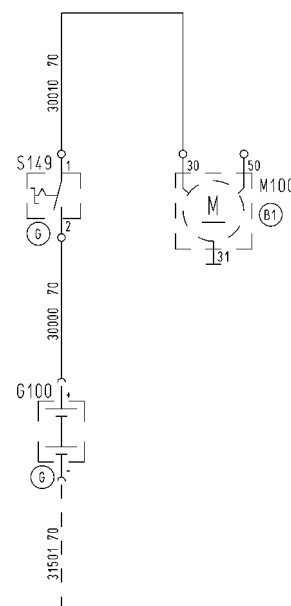
Battery master switch, mechanical sheet 1 of 1

A100

(E6)

A302

(E6)



WIRING DIAGRAM NO. 81.99192.3235**Interaxle and transverse differential lock, rear axle (3-axle vehicle) sheet 1 of 1**

Date: 11.2005

Legend**A Interaxle and transverse differential lock, rear axle**

A100	Central electrical system
A302	Central computer 2
A407	Instrumentation
G101	Battery 2
H398	Check lamp, transverse differential lock, rear axle
H407	Check lamp, interaxle differential lock, rear axle
S185	Switch, indicator, transverse differential lock, rear axle
S186	Switch, indicator, transverse differential lock, 2nd rear axle
S187	Switch, transverse differential lock, rear axle
S212	Switch, interaxle differential lock
S254	Switch, indicator, interaxle differential lock, rear axle
X327	Plug conn. to solenoid valve in frame
X637	Plug conn., differential lock, rear axle
X1544	Plug conn., frame III
X1557	Plug conn., frame, left
X2541	Potential distributor, 21-pin, line 31000
X4732	Potential distributor, line 16000, switch lighting
Y145	Solenoid valve, transverse differential lock, rear axle
Y150	Solenoid valve, interaxle differential lock

A100

E6

A302

E6



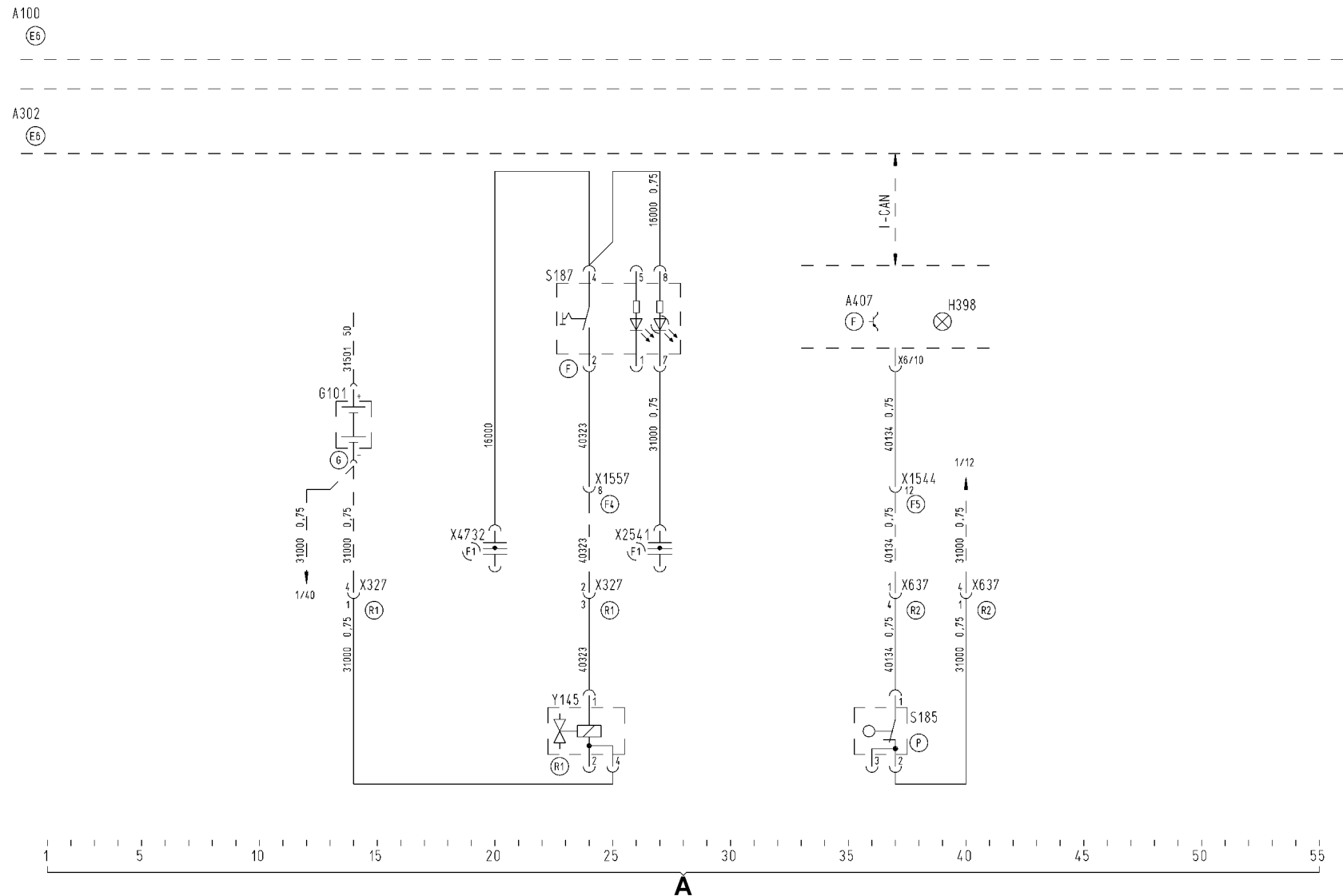
WIRING DIAGRAM NO. 81.99192.3233**Transverse differential lock, rear axle (2-axle vehicle) sheet 1 of 1**

Date: 11.2005

Legend**A Differential lock, transverse, rear axle**

A100	Central electrical system
A302	Central computer 2
A407	Instrumentation
G101	Battery 2
H398	Check lamp, transverse differential lock, rear axle
S185	Switch, indicator, transverse differential lock, rear axle
S187	Switch, transverse differential lock, rear axle
X327	Plug conn. to solenoid valve in frame
X637	Plug conn., differential lock, rear axle
X1544	Plug conn., frame III
X1557	Plug conn., frame, left
X2541	Potential distributor, 21-pin, line 31000
X4732	Potential distributor, line 16000, switch lighting
Y145	Solenoid valve, transverse differential lock, rear axle

Transverse differential lock, rear axle (2-axle vehicle) sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3246**Electronic Brake System EBS 5 (2-axle vehicle) sheet 1 of 3**

Date: 11.2005

Legend

- A** Pressure control module, front axle, left
 - B** Pressure control module, front axle, right
 - C** Pressure control module, rear axle
-

- A100** Central electrical system
- A302** Central computer 2
- A402** Control unit, EBS
- B119** Speed sensor, front axle, left
- B120** Speed sensor, front axle, right
- B121** Speed sensor, live axle, left
- B122** Speed sensor, live axle, right
- B332** Sensor, brake pad, front axle, right
- B333** Sensor, brake pad, front axle, left
- B334** Sensor, brake pad, live axle, right
- B335** Sensor, brake pad, live axle, left
- B337** Brake power sensor, EBS
- X1548** Plug conn., frame IV
- X1557** Plug conn., frame, left
- X3630** Wiring harness, adapter, sensor, driven axle brake pad/lining
- Y262** Pressure control module, front axle, right
- Y263** Pressure control module, front axle, left
- Y264** Pressure control module, rear axle

E6

E6



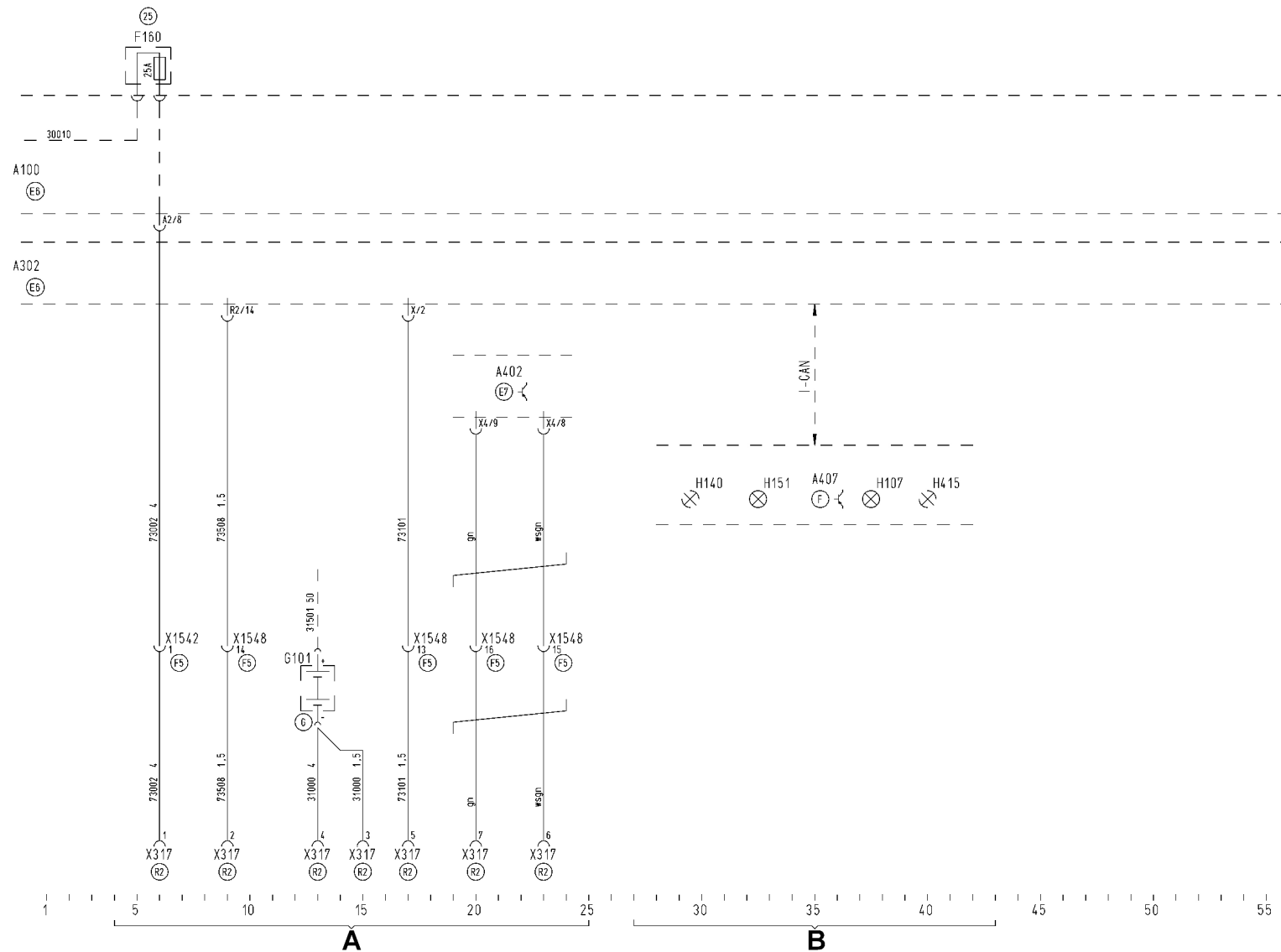
WIRING DIAGRAM NO. 81.99192.3246**Electronic Brake System EBS 5 (2-axle vehicle) sheet 2 of 3**

Date: 11.2005

Legend**A Trailer socket****B Check lamps**

A100	Central electrical system
A302	Central computer 2
A402	Control unit, EBS
A407	Instrumentation
F160	Fuse, EBS/ABS, voltage supply, trailer
G101	Battery 2
H107	ABS, tractor/trailer
H140	Check lamp, ASR info
H151	Check lamp, ABS info in trailer
H415	Check lamp, directional stability
X317	Trailer socket, ABS
X1542	Plug conn., frame II
X1548	Plug conn., frame IV

Electronic Brake System EBS 5 (2-axle vehicle) sheet 2 of 3



WIRING DIAGRAM NO. 81.99192.3246**Electronic Brake System EBS 5 (2-axle vehicle) sheet 3 of 3**

Date: 09.2006

Legend

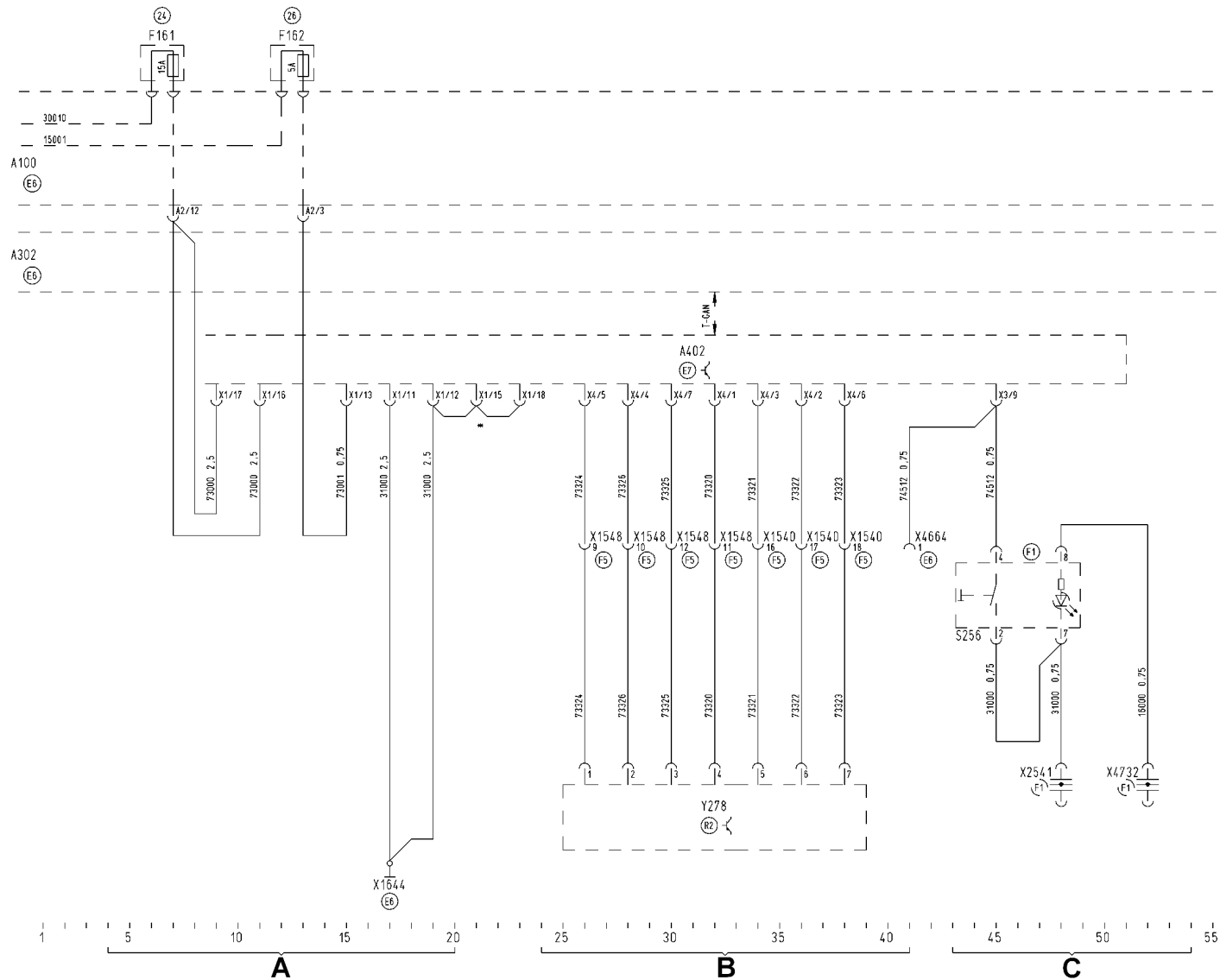
- A Voltage supply**
- B Trailer control module**
- C ASR slip thresholds**

-
- A100** Central electrical system
 - A302** Central computer 2
 - A402** Control unit, EBS
 - F161** Fuse, EBS (ABS), pressure control valve voltage supply
 - F162** Fuse, EBS (ABS), control
 - S256** Button, ASR or ASR/ESP - spin threshold increase
 - X1540** Plug conn., frame I
 - X1548** Plug conn., frame IV
 - X1644** Earthing point, cab, next to central electrical system
 - X2541** Potential distributor, 21-pin, line 31000
 - X4664** Plug conn., ASR
 - X4732** Potential distributor, line 16000, switch lighting
 - Y278** Trailer control module

**Note**

***Connector drop-out detection:** Short-circuit spring insulated by control unit cell X1/15 when inserted. PIN X1/12 and pin X1/18 short-circuit if not inserted!

Electronic Brake System EBS 5 (2-axle vehicle) sheet 3 of 3



WIRING DIAGRAM NO. 81.99192.3247**Electronic Brake System EBS 5 (3-axle vehicle) sheet 1 of 4**

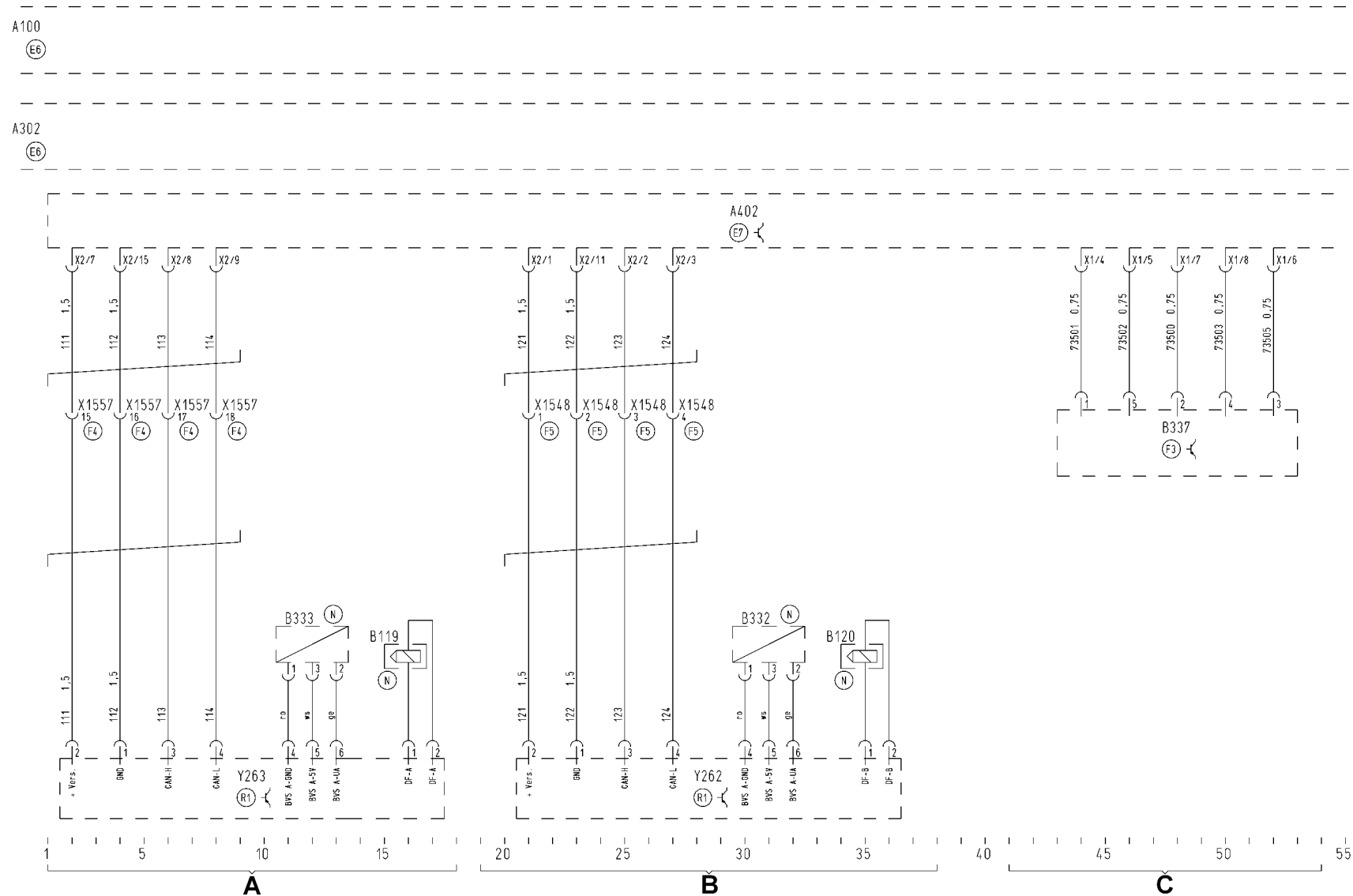
Date: 11.2005

Legend

- A** Pressure control module, front axle, left
 - B** Pressure control module, front axle, right
 - C** Brake power sensor
-

- A100** Central electrical system
- A302** Central computer 2
- A402** Control unit, EBS
- B119** Speed sensor, front axle, left
- B120** Speed sensor, front axle, right
- B332** Sensor, brake pad/lining, front axle, right
- B333** Sensor, brake pad/lining, front axle, left
- B337** Brake power sensor, EBS
- X1548** Plug conn., frame IV
- X1557** Plug conn., frame, left
- Y262** Pressure control module, front axle, right
- Y263** Pressure control module, front axle, left

Electronic Brake System EBS 5 (3-axle vehicle) sheet 1 of 4



WIRING DIAGRAM NO. 81.99192.3247**Electronic Brake System EBS 5 (3-axle vehicle) sheet 2 of 4**

Date: 11.2005

Legend**A Pressure control module, rear axle**

A100	Central electrical system
A302	Central computer 2
A402	Control unit, EBS
B121	Speed sensor, driven axle, left
B122	Speed sensor, driven axle, right
B334	Sensor, brake pad/lining, driven axle, right
B335	Sensor, brake pad/lining, driven axle, left
B529	Sensor, brake pad/lining, auxiliary axle, right
B530	Sensor, brake pad/lining, auxiliary axle, left
X1548	Plug conn., frame IV
X3630	Wiring harness, adapter, sensor, driven axle brake pad/lining
X3672	Wiring harness, adapter, sensor, auxiliary axle brake pad/lining
Y264	Pressure control module, rear axle