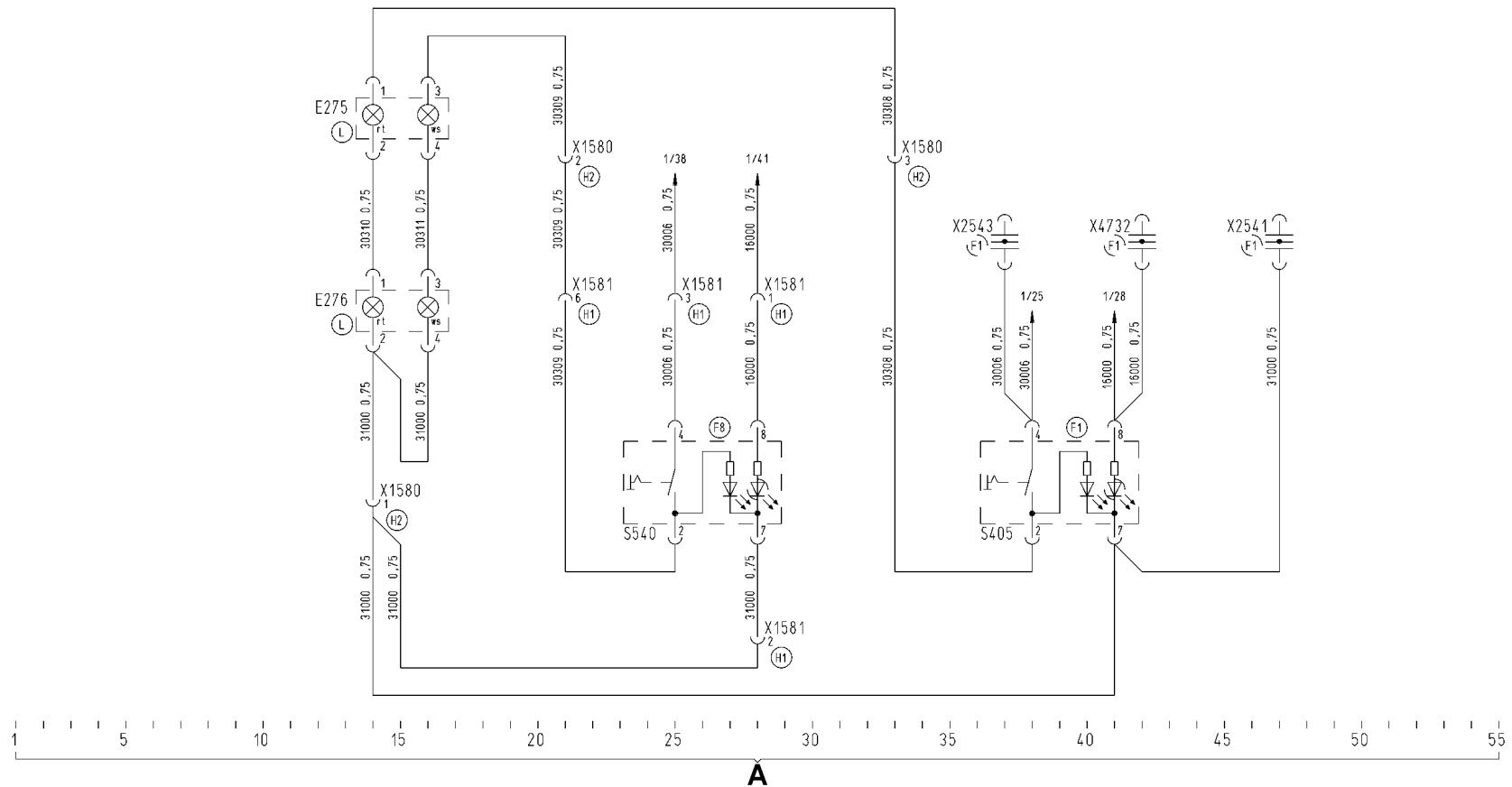


Interior lighting, roof, white/red sheet 1 of 1

A100
(E6)

A302
(E6)



WIRING DIAGRAM NO. 81.99192.3461

Interior lights with ambient light sheet 1 of 1

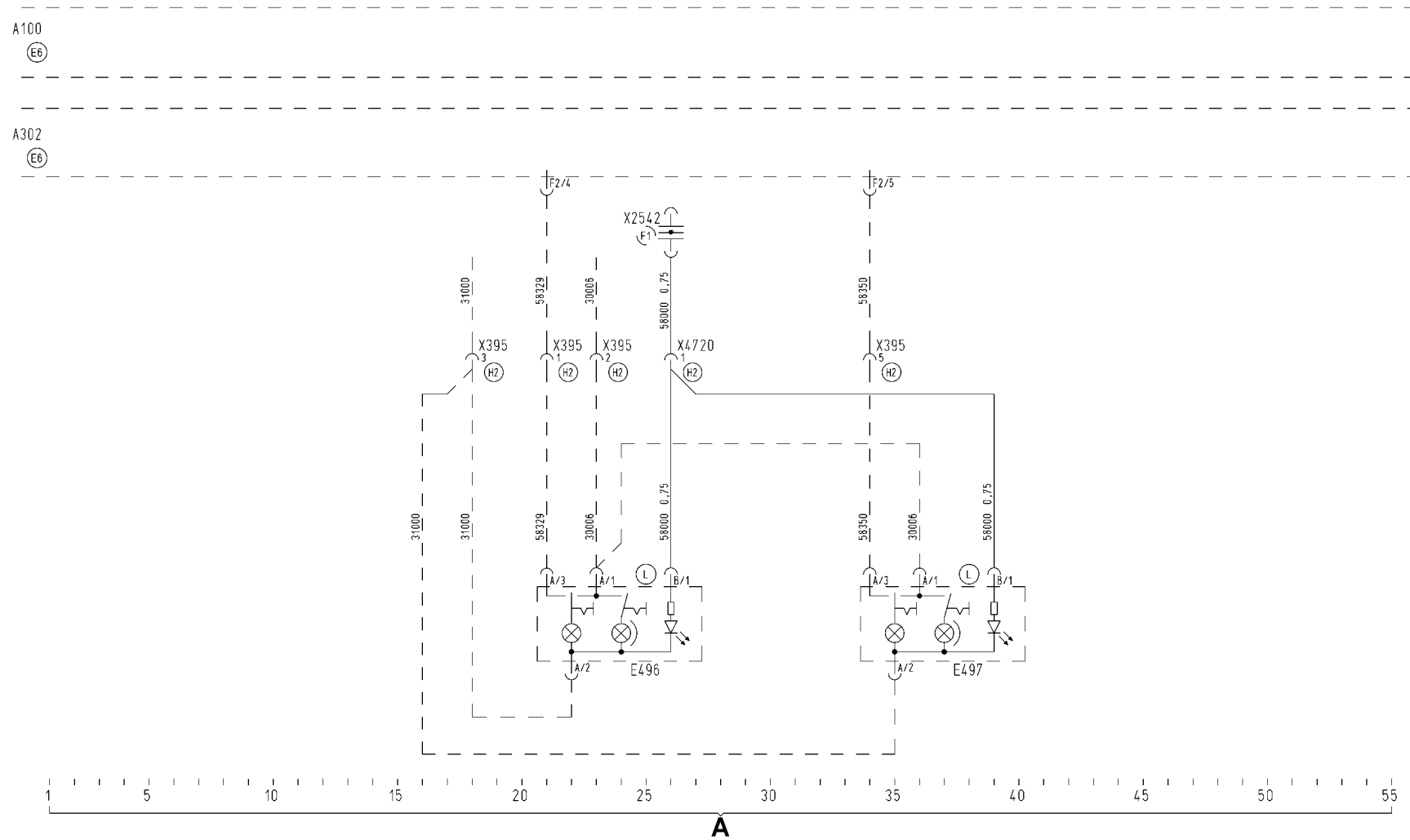
Date: 03.2006

Legend

A Interior lights with ambient light

A100	Central electrical system
A302	Central computer 2
E496	Interior light / ambient light, left
E497	Interior light / ambient light, right
X395	Plug conn., outline light and interior light, left and right
X2542	Potential distributor, 21-pin, line 58000
X4720	Plug conn., interior light / ambient light

Interior lights with ambient light sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3295**Intarder sheet 1 of 1**

Date: 04.2008

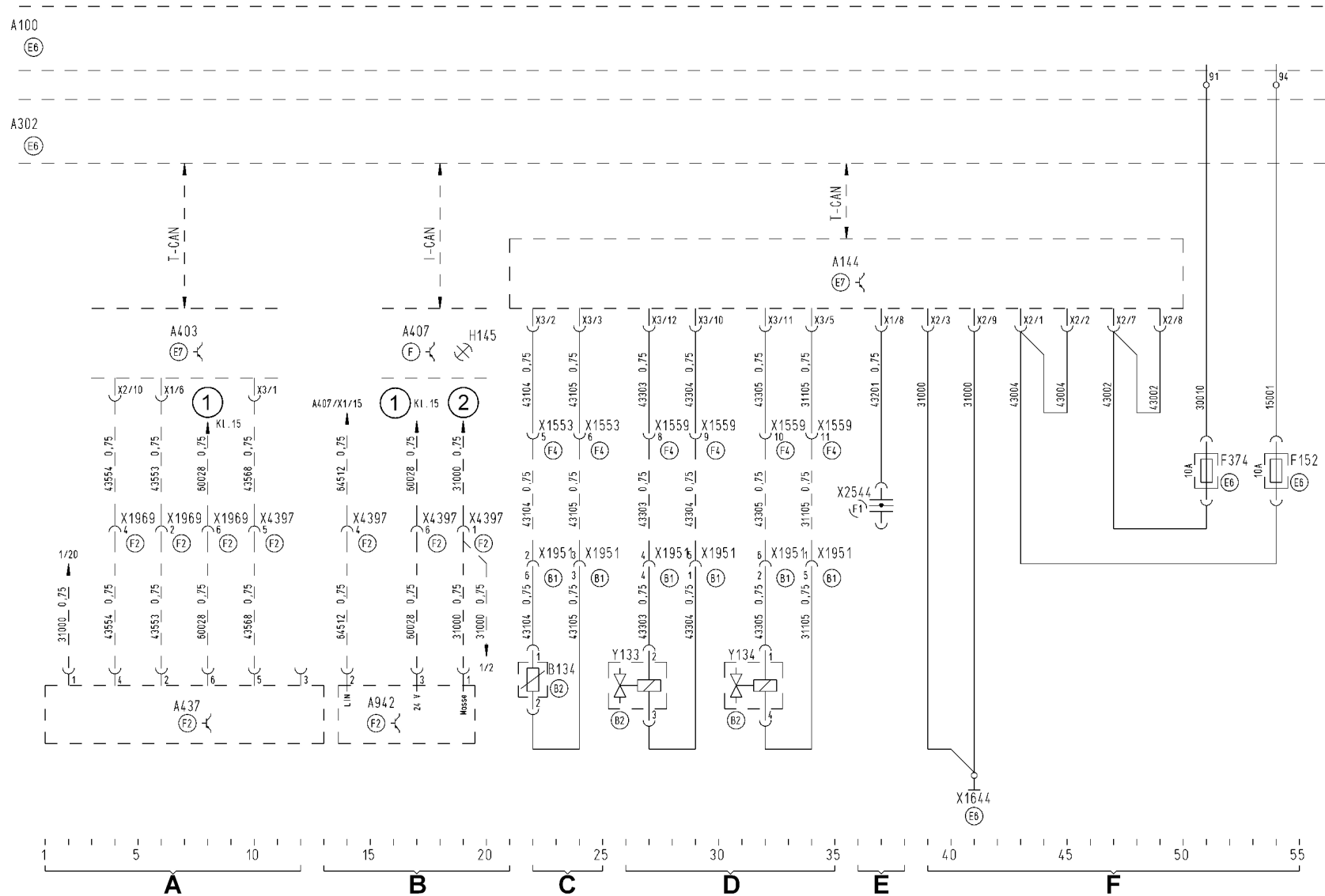
Legend

- A Sustained-action brake lever without multifunctional steering wheel**
- B Sustained-action brake lever if multifunctional steering wheel is fitted**
- C Temperature sensor**
- D Solenoid valve**
- E Diagnosis**
- F Voltage supply**

-
- A100** Central electrical system
 - A144** Control unit, retarder
 - A302** Central computer 2
 - A403** Vehicle management computer
 - A407** Instrumentation
 - A437** Sustained-action brake lever
 - A942** Steering column stalk, retarder/gearbox
 - B134** Temperature sensor, retarder (cooling water)
 - F152** Fuse, retarder (terminal 15)
 - F374** Fuse, retarder (terminal 30)
 - H145** Check lamp, retarder
 - X1553** Plug conn., engine/EDC/gearbox III
 - X1559** Plug conn., engine/EDC/gearbox IV
 - X1644** Earthing point, cab, next to central electrical system
 - X1951** Plug conn., engine/gearbox (motor power box)
 - X1969** Plug conn., engine brake switch
 - X2544** Potential distributor, 21-pin, K-line
 - X4397** Plug conn., multifunctional steering wheel
 - Y133** Proportional valve, retarder
 - Y134** Solenoid valve, accumulator
-

- 1** Vehicle management computer
- 2** Ground

Intarder sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3043

Tachograph check lamp sheet 1 of 1

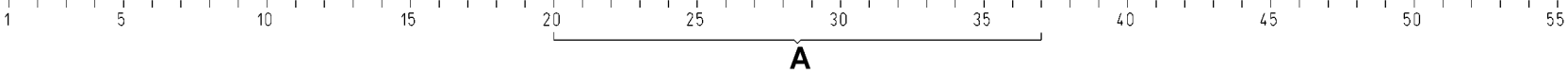
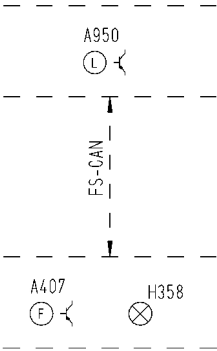
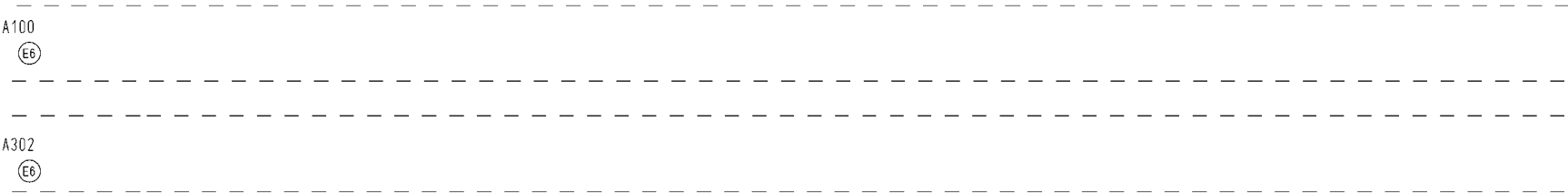
Date: 03.2005

Legend

A Digital tachograph check lamp

A100 Central electrical system
A302 Central computer 2
A407 Instrumentation
A950 Digital tachograph
H358 Check lamp, digital tachograph

Tachograph check lamp sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3304**Fuel filter heater sheet 1 of 1**

Date: 11.2005

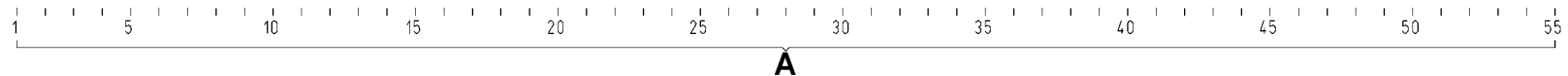
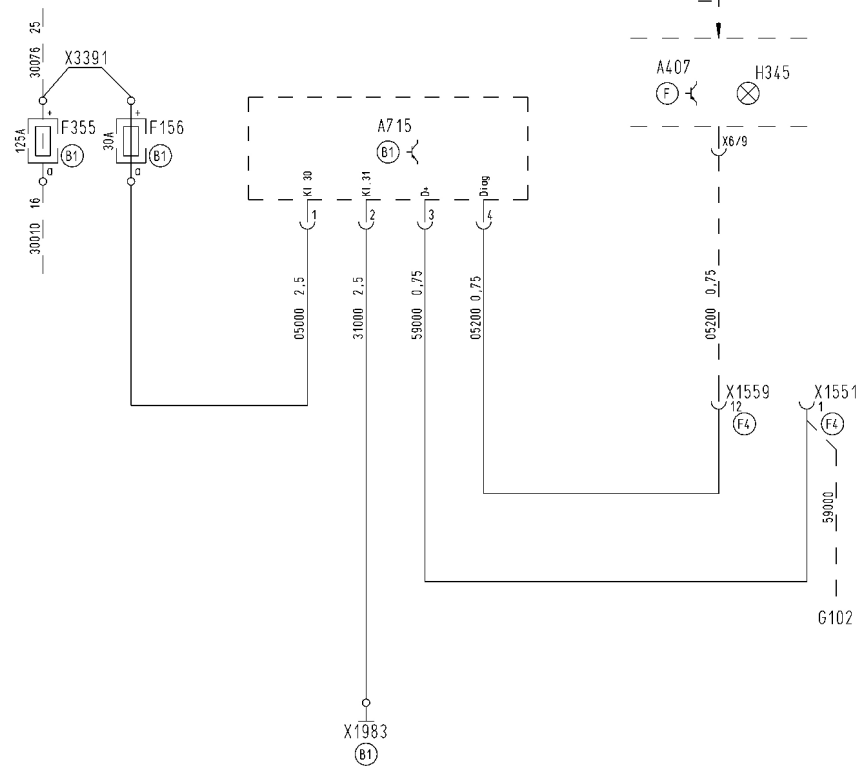
Legend**A Fuel filter heater**

A100	Central electrical system
A302	Central computer 2
A407	Instrumentation
A715	Fuel filter heater - PTC
F156	Fuse, fuel filter heater
F355	Main fuse 30-2
H345	Check lamp, fuel filter heater
X1551	Plug conn., engine/EDC/gearbox II
X1559	Plug conn., engine/EDC/gearbox IV
X1983	Threaded pin M6 (motor power box)
X3391	Jumper, line 30076 (motor power box)

Fuel filter heater sheet 1 of 1

A100
(E6)

A302
(E6)



WIRING DIAGRAM NO. 81.99192.3305**Fuel filter heater, Separ sheet 1 of 1**

Date: 11.2005

Legend**A Fuel filter heater, Separ****B Separ fuel filter heater in case of electrical and mechanical battery master switch**

A100 Central electrical system
A302 Central computer 2
F549 Fuse, line 30000
G100 Battery 1
G101 Battery 2
K177 Relay, fuel filter heater
Q105 Isolator switch, battery +
R110 Fuel filter heater 1
S149 Isolator switch, battery +
X2201 Plug conn., fuel filter heater, Separ
X4643 Potential distributor, line 59104

1 In case of mechanical battery master switch

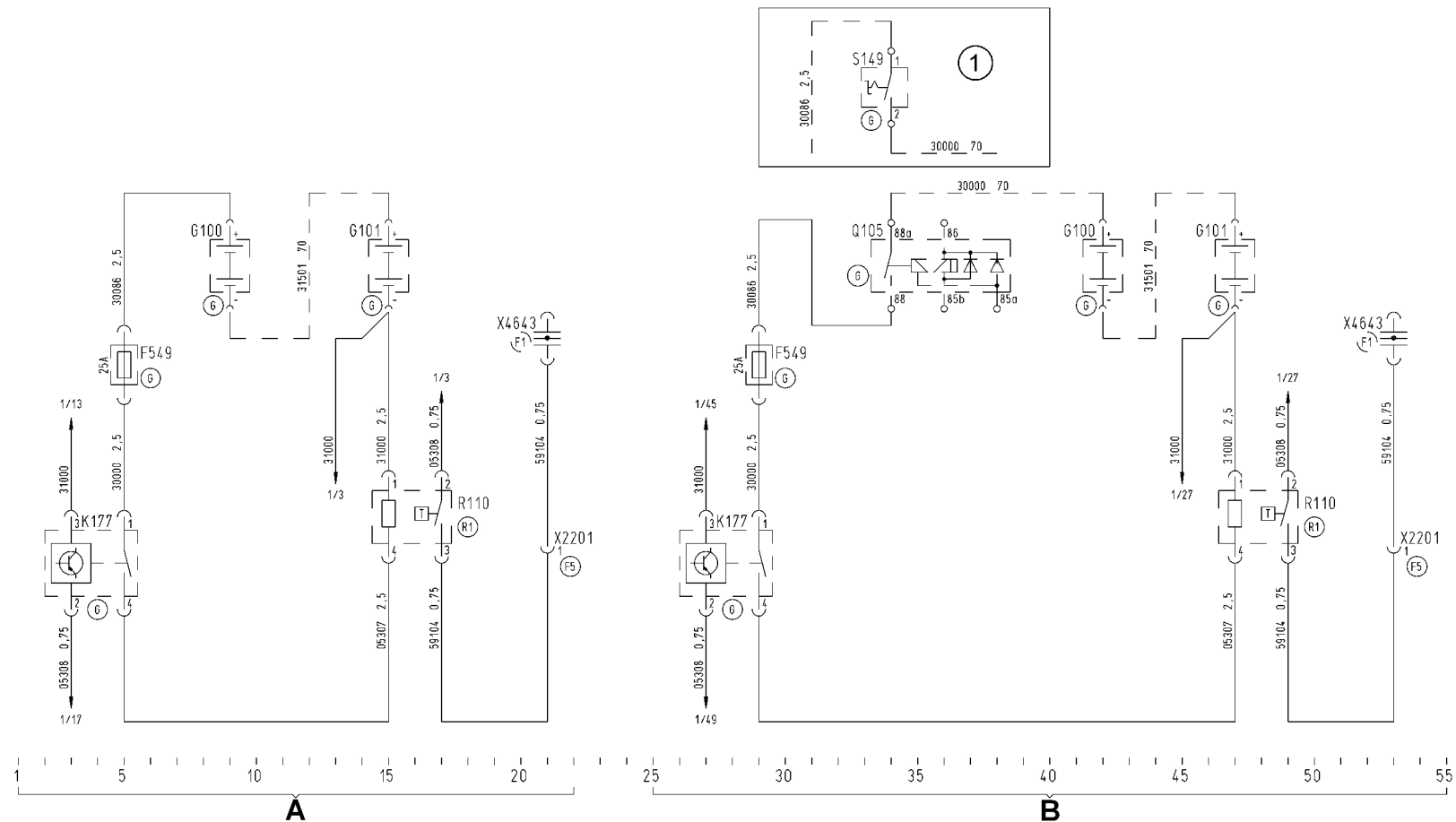
Fuel filter heater, Separ sheet 1 of 1

A100

E6

A302

E6



WIRING DIAGRAM NO. 81.99192.3300**Customer-specific control module (KSM) sheet 1 of 2**

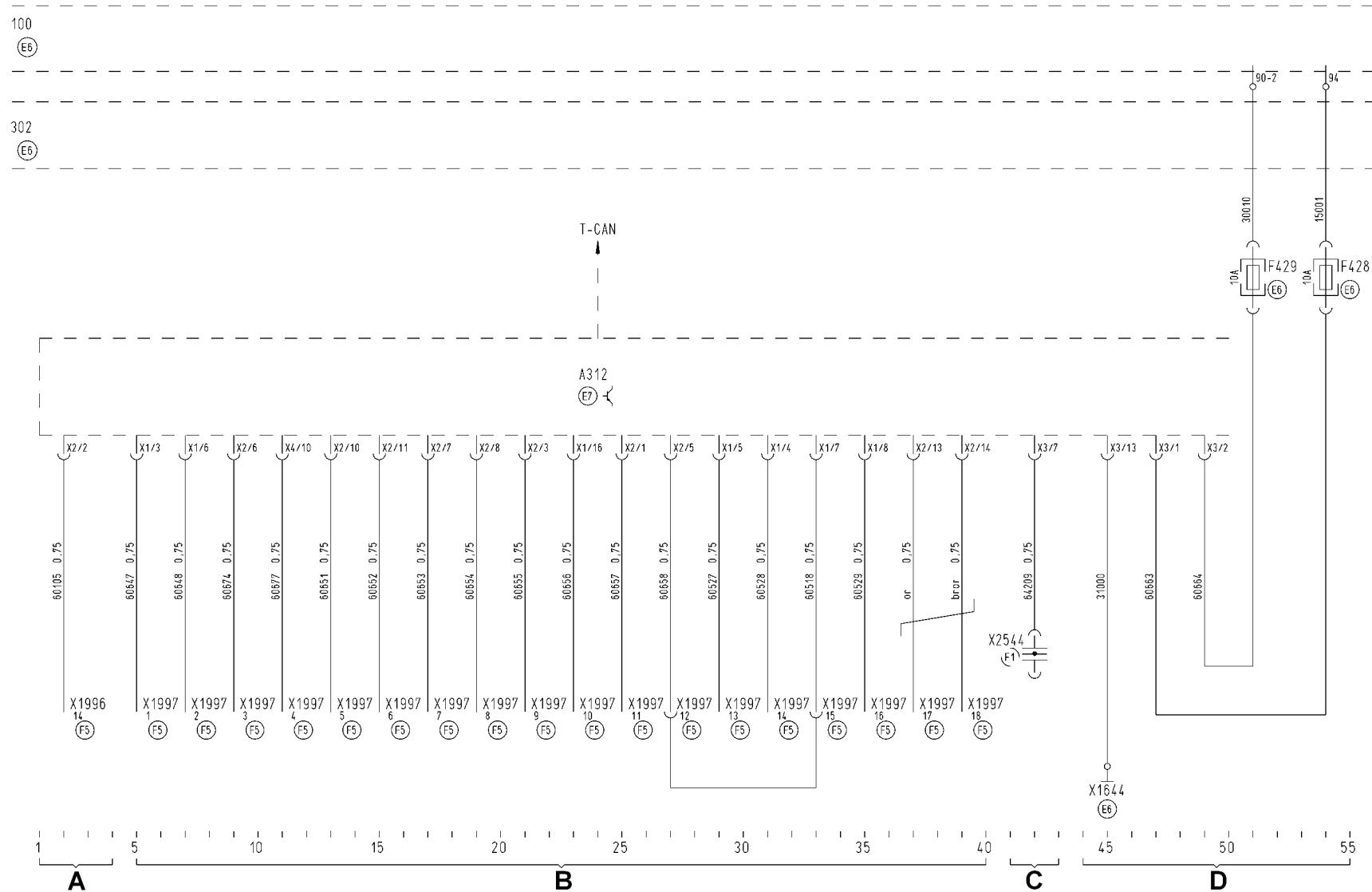
Date: 02.2008

Legend

- A ZDR interface (FFR)**
 - B ZDR interface (KSM)**
 - C Diagnosis**
 - D Voltage supply**
-

- A100** Central electrical system
- A302** Central computer 2
- A312** Customer-specific control module
- F428** Fuse, KSM (terminal 15)
- F429** Fuse, KSM (terminal 30)
- X1644** Earthing point, cab, next to central electrical system
- X1996** Plug conn., ZDR interface (vehicle management computer)
- X1997** Plug conn., ZDR interface (KSM)
- X2544** Potential distributor, 21-pin, K-line

Customer-specific control module (KSM) sheet 1 of 2



WIRING DIAGRAM NO. 81.99192.3300**Customer-specific control module (KSM) sheet 2 of 2**

Date: 02.2008

Legend**A ZDR interface (KSM)****B Scope, preparation, body manufacturer, travel/road speed signal**

A100 Central electrical system
A302 Central computer 2
A312 Customer-specified control module
A408 Tachograph
B110 Pulse generator, tachograph
X1428 Plug conn., travel pulse, body manufacturer
X1536 Plug conn., tachograph
X1537 Plug conn., speedometer sensor
X1627 Plug conn., reversing light
X1644 Earthing point, cab, next to central electrical system
X3311 Plug conn., ZDR interface 2 (KSM)
X4366 Plug conn., Pulse generator, tachograph
X4643 Potential distributor, line 59104
X4659 Plug conn., V-signal, line 16500
X4660 Plug conn., 4 pulses/meter, line 16507
X4663 Plug conn., adaptation, V-signal, line 16514

1 Power take-off, engine-dependent, installed on front of gearbox (NMV)**2** Gearbox, automatic

WIRING DIAGRAM NO. 81.99192.3314**Headlight beam regulator sheet 1 of 1**

Date: 05.2006

Legend**A Headlight beam regulator**

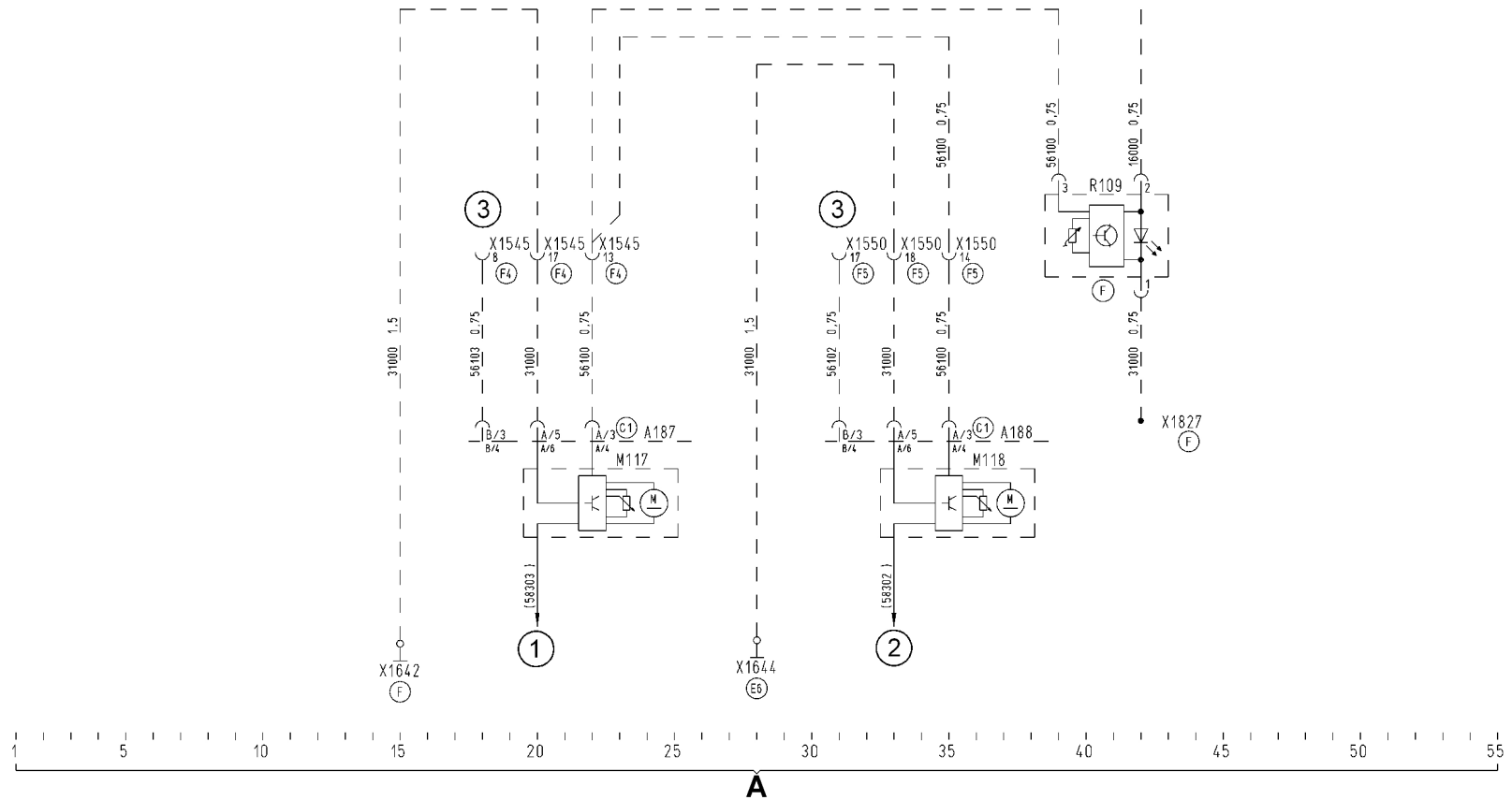
A100 Central electrical system
A187 Headlight, left
A188 Headlight, right
A302 Central computer 2
M117 Servomotor, headlight beam regulator, left
M118 Servomotor, headlight beam regulator, right
R109 Potentiometer, headlight beam regulator
X1545 Plug conn., front end, left
X1550 Plug conn., front end, right
X1642 Earthing point, cab behind instrument panel
X1644 Earthing point, cab, next to central electrical system
X1827 Crimped connector, line 31000

- 1** Parking light, left
2 Parking light, right
3 for headlights

Headlight beam regulator sheet 1 of 1

A100
(E6)

A302
(E6)



WIRING DIAGRAM NO. 81.99192.3120

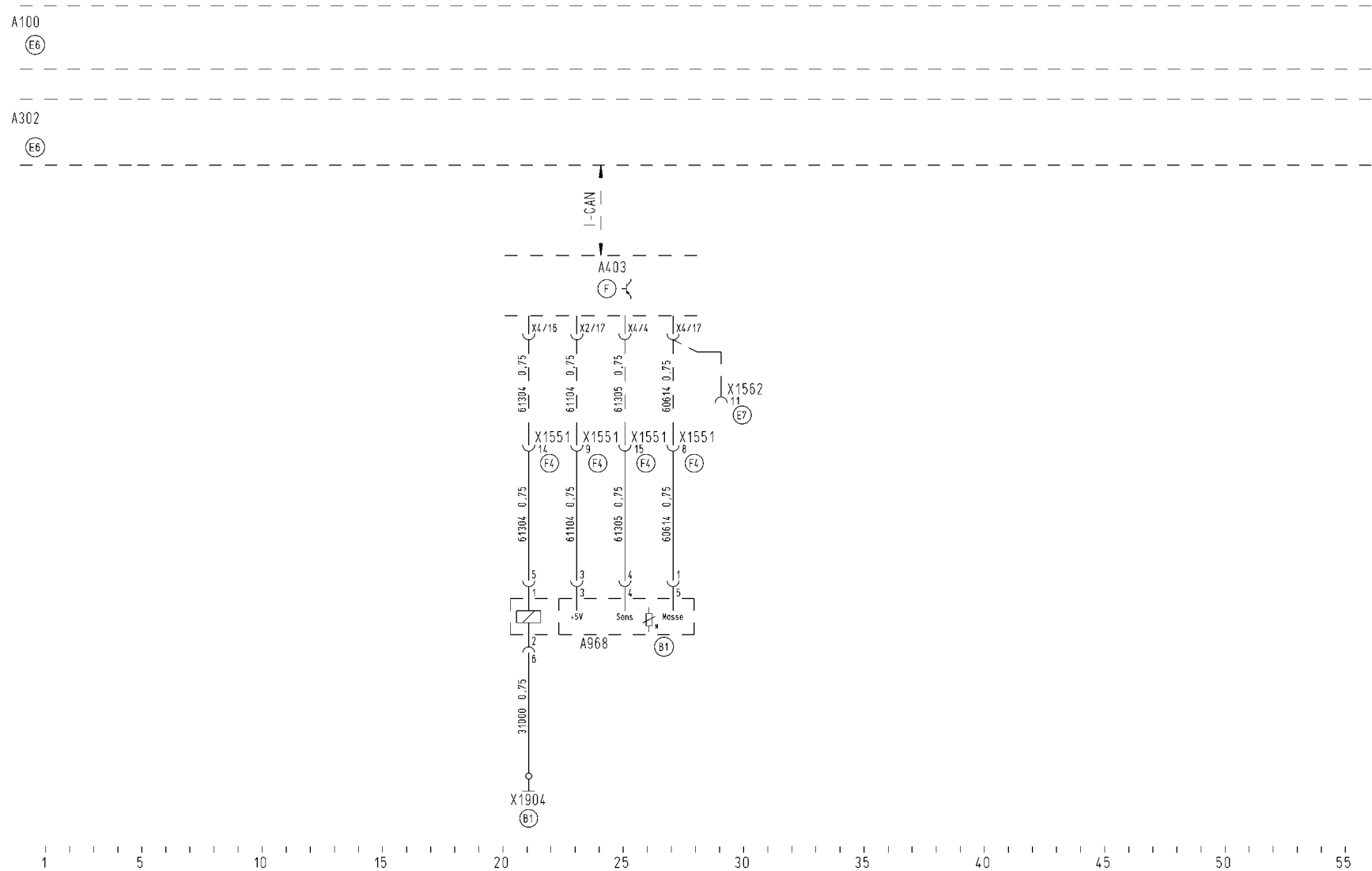
Fan clutch with speed feedback sheet 1 of 1

Date: 07.2005

Legend

- A100** Central electrical system
- A302** Central computer 2
- A403** Vehicle management computer
- A968** Fan clutch with speed sensor
- X1551** Plug conn., engine/EDC/gearbox II
- X1562** Plug conn., gearbox
- X1904** Threaded pin M6 (motor power box)

Fan clutch with speed feedback sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.1656

Engine brake sheet 1 of 1

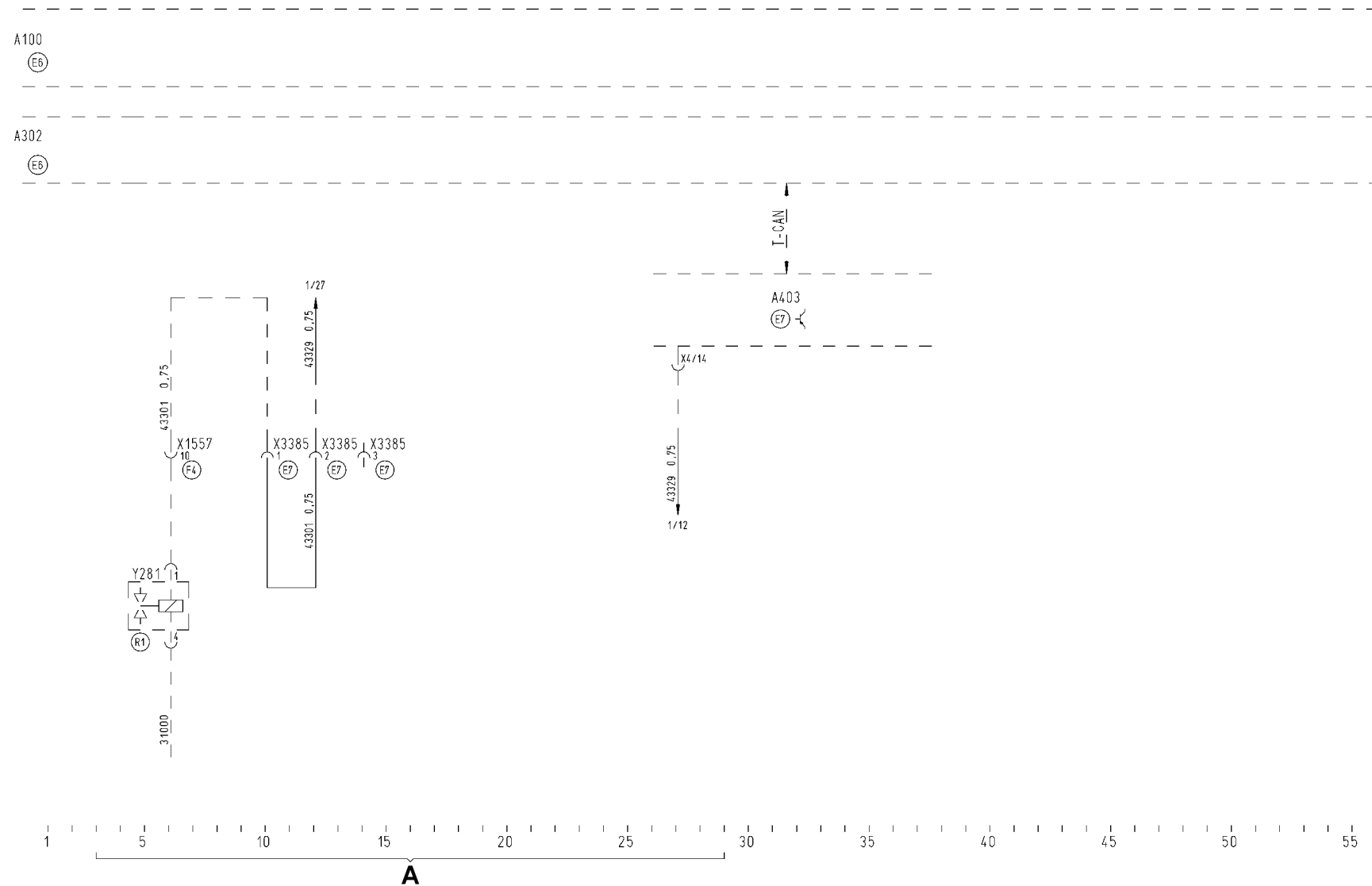
Date: 07.2002

Legend

A Engine brake

A100	Central electrical system
A302	Central computer 2
A403	Vehicle management computer
X1557	Plug conn., frame, left
X3385	Plug conn., engine brake/EVB
Y281	Solenoid valve, engine brake/EVB

Engine brake sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3316

Engine brake, automatic, off sheet 1 of 1

Date: 09.2006

Legend

A Engine brake, automatic

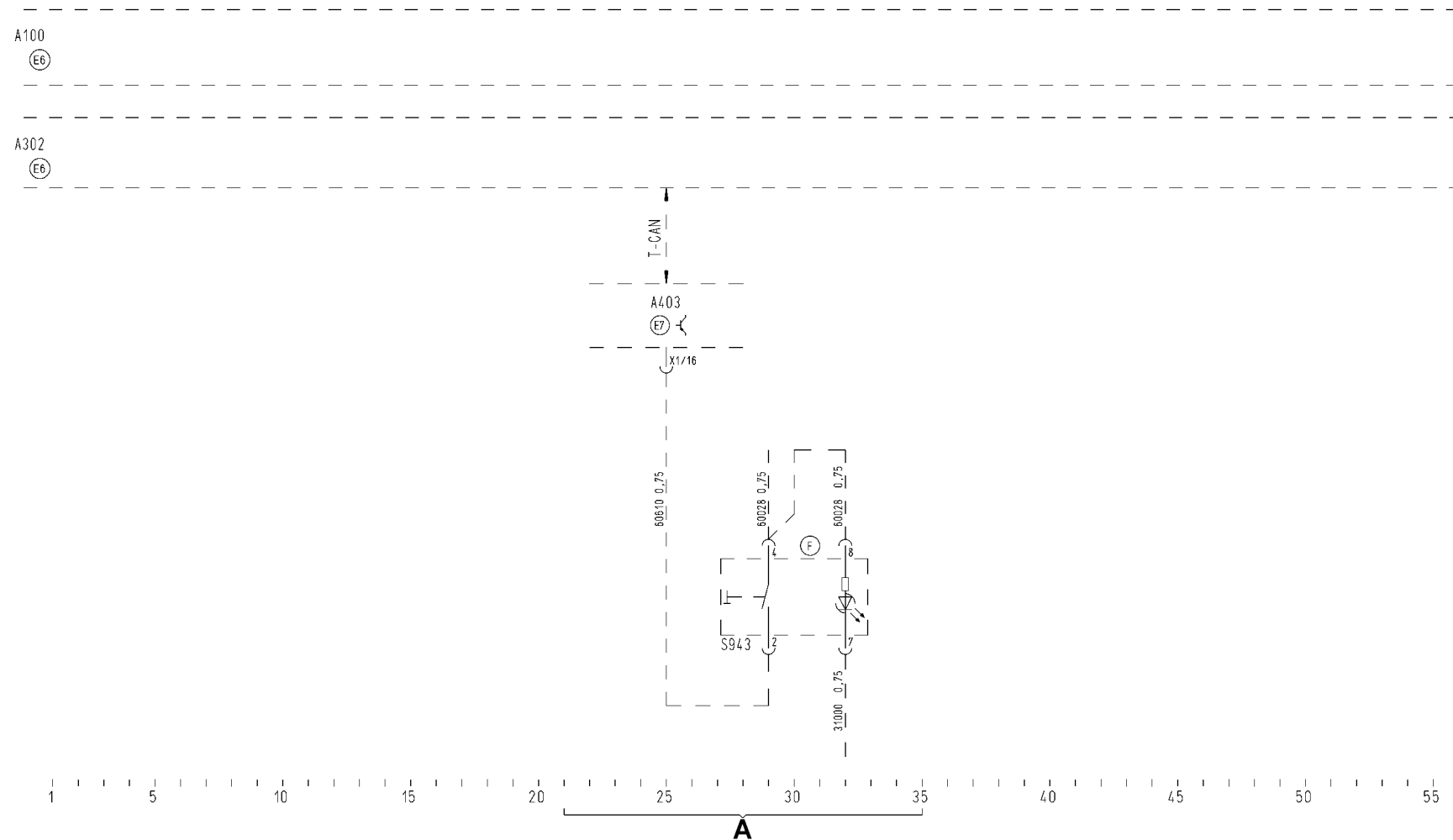
A100 Central electrical system
A302 Central computer 2
A403 Vehicle management computer
S943 Button, engine brake



Note

Engine brake button S943 is plugged at switch socket S1133!

Engine brake, automatic, off sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3501

Multifunction steering wheel sheet 1 of 1

Date: 09.2006

Legend

- A100 Central electrical system
- A302 Central computer 2
- A403 Vehicle management computer
- A437 Sustained-action brake lever
- A942 Steering column stalk, retarder/gearbox
- X4397 Plug conn., multifunction steering wheel

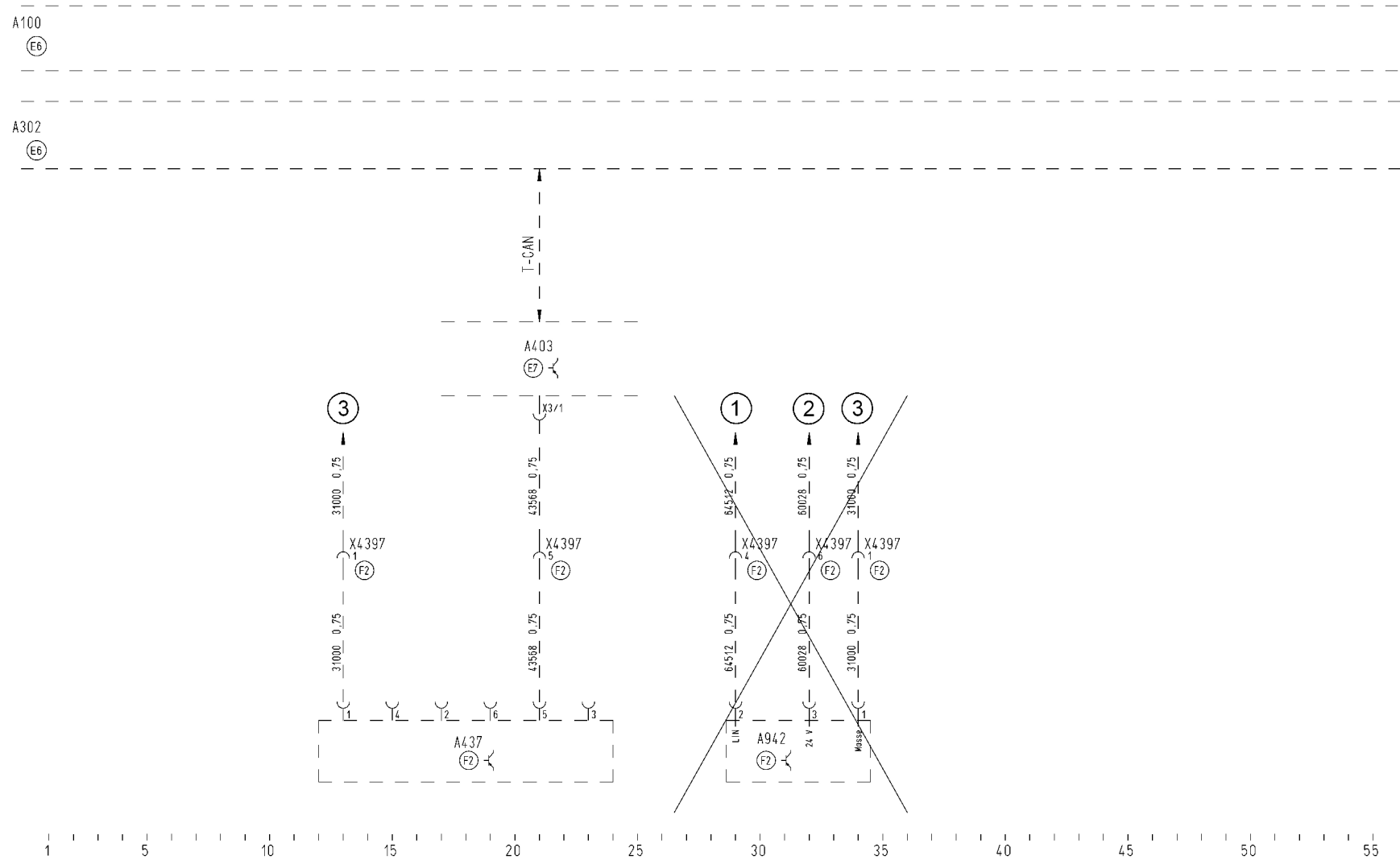
-
- 1 A407 / X1/15
 - 2 Vehicle management computer (terminal 15)
 - 3 Ground



Note

In the case of the digital engine brake switch, A942 (steering column stalk, retarder/gearbox) is not part of standard specification!

Multifunction steering wheel sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3366**Fog lamps/additional high beam headlights and cornering light sheet 1 of 1**

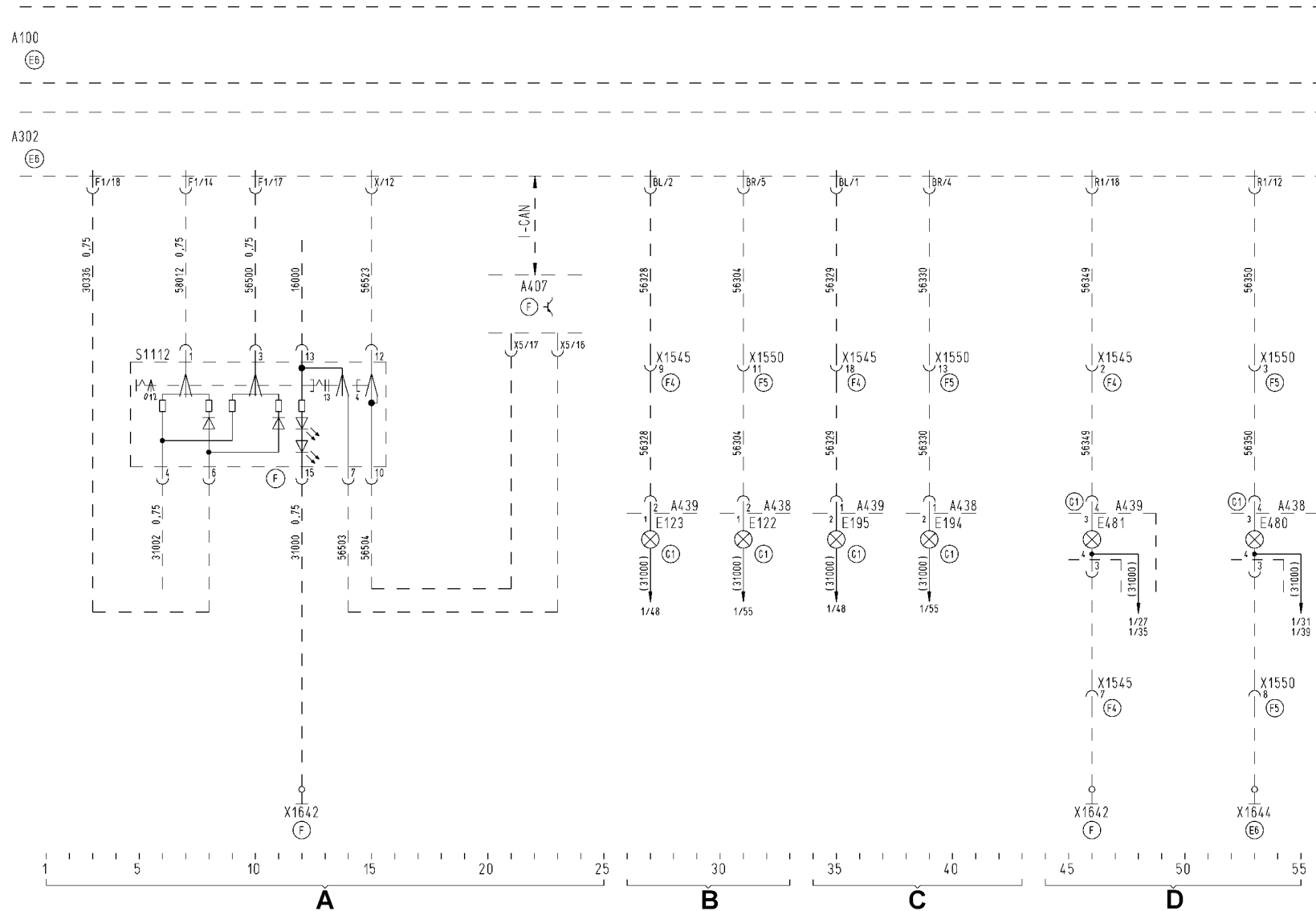
Date: 10.2007

Legend

- A** Rotary light switch
- B** Fog lamps
- C** Additional high beam headlights
- D** Cornering light

A100 Central electrical system
A302 Central computer 2
A407 Instrumentation
A438 Light surround, right
A439 Light surround, left
E122 Fog lamp, right
E123 Fog lamp, left
E194 High beam headlight, right
E195 High beam headlight, left
E480 Cornering light, right
E481 Cornering light, left
S1112 Rotary light switch with rear fog lamp
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

Fog lamps/additional high beam headlights and cornering light sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3337

Pritarder/Intarder, automatic, off sheet 1 of 1

Date: 11.2005

Legend

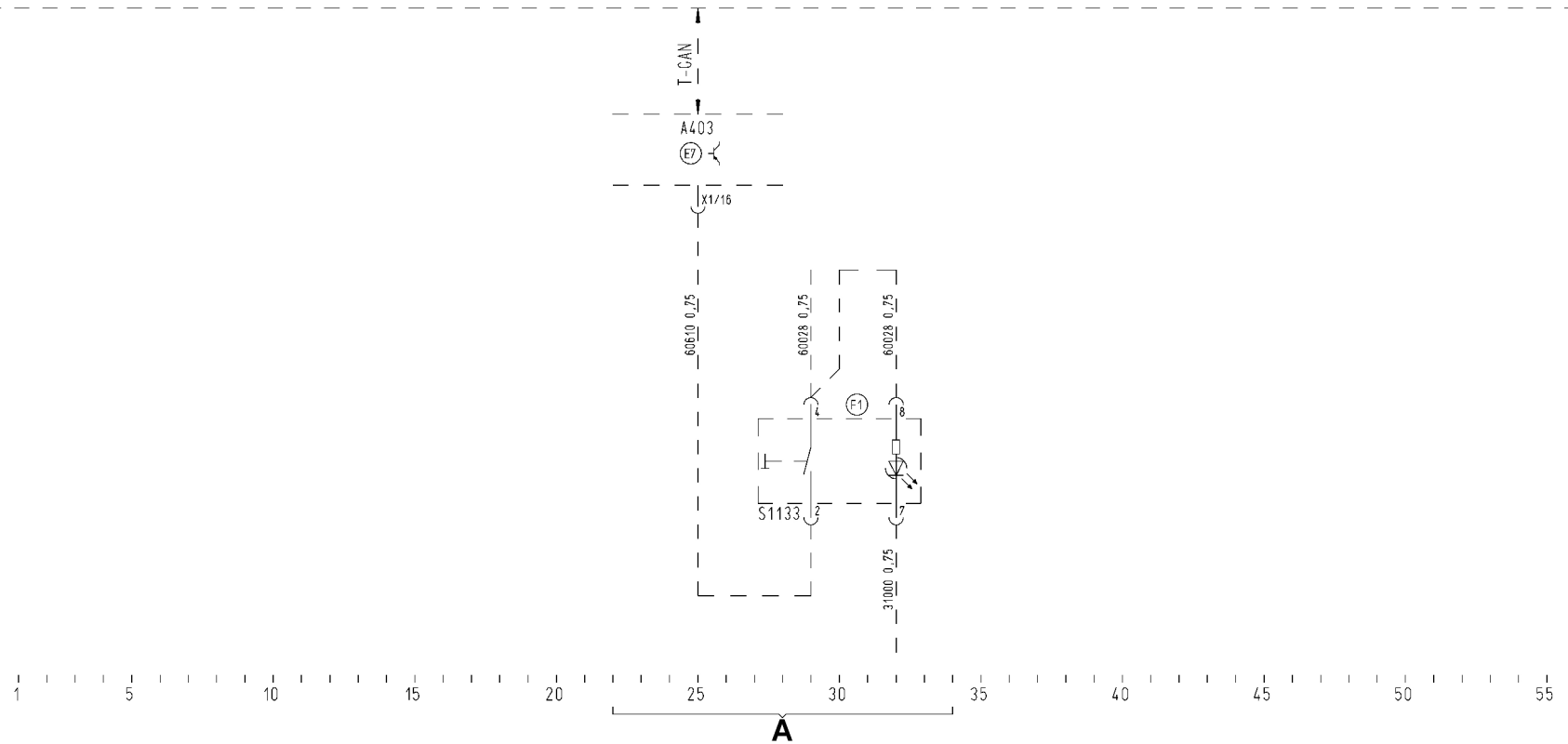
A Pritarder/Intarder, automatic

-
- A100** Central electrical system
 - A302** Central computer 2
 - A403** Vehicle management computer
 - S1133** Button, sustained-action brake

Pritarder/Intarder, automatic, off sheet 1 of 1

A100
(E6)

A302
(E6)



WIRING DIAGRAM NO. 81.99192.3134**Baseline radio sheet 1 of 1**

Date: 01.2007

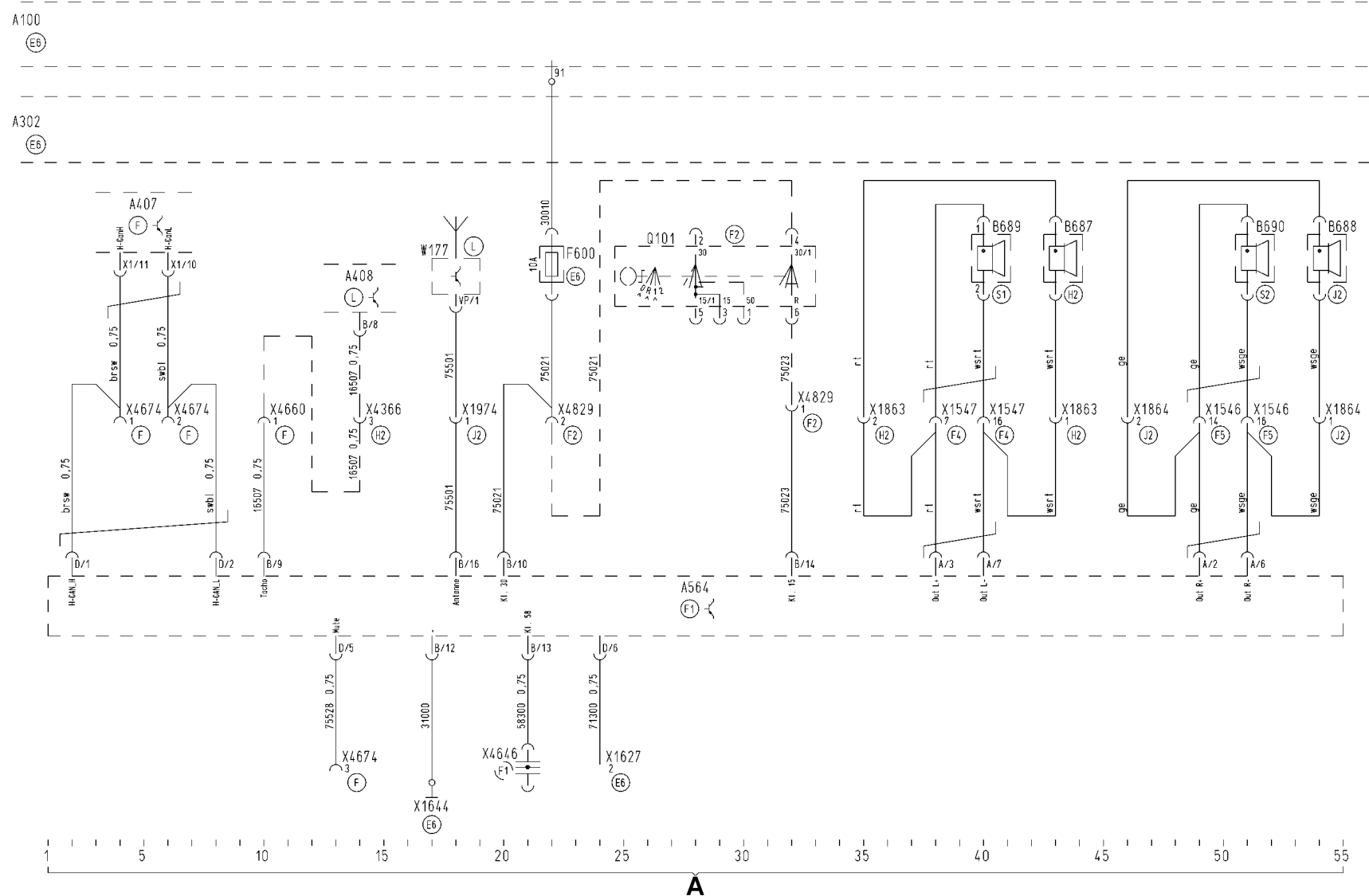
Legend**A Baseline radio**

A100	Central electrical system
A302	Central computer 2
A407	Instrumentation
A408	Tachograph
A564	Radio with CD
B687	Loudspeaker, tweeter, left
B688	Loudspeaker, tweeter, right
B689	Loudspeaker, wide-band, left
B690	Loudspeaker, wide-band, right
F600	Fuse, radio (terminal 15)
Q101	Steering lock
W177	Combination aerial, radio, D/E network, GPS
X1546	Plug conn., door, right
X1547	Plug conn., door, left
X1627	Plug conn., reversing light
X1644	Earthing point, cab, next to central electrical system
X1863	Plug conn., loudspeaker
X1864	Plug conn., loudspeaker
X1974	Plug conn. for active aerial
X4366	Plug conn., pulse distributor - tachograph
X4646	Potentiometer, line 58300
X4660	Plug conn., 4 pulses/meter, line 16507
X4674	Plug conn., H-CAN/Mute signal
X4829	Plug conn., ignition lock (terminal R)

**Note**

If the vehicle is equipped with a telephone/mobile, wide-band loudspeaker B690 is replaced by B691!

Basicline radio sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3490**Topline radio sheet 1 of 2**

Date: 01.2007

Legend**A Topline radio**

A100	Central electrical system
A302	Central computer 2
A407	Instrumentation
A564	Radio with CD
B687	Loudspeaker, tweeter, left
B688	Loudspeaker, tweeter, right
B689	Loudspeaker, wide-band, left
B690	Loudspeaker, wide-band, right
F600	Fuse, radio (terminal 30)
Q101	Steering lock
T119	Modular voltage transformer
X1546	Plug conn., door, right
X1547	Plug conn., door, left
X1627	Plug conn., reversing light
X1644	Earthing point, cab, next to central electrical system
X1863	Plug conn., loudspeaker
X1864	Plug conn., loudspeaker
X4646	Potential distributor, line 58300
X4674	Plug conn., H-CAN/Mute signal
X4744	Adaptation, 12V, for CD changer
X4745	Plug conn., TBM - navigation device
X4829	Plug conn., ignition lock (terminal R)

**Note**

If the vehicle is equipped with a telephone/mobile, wide-band loudspeaker B690 is replaced by B691!
Sheathed cable from A564 to X4745 must be identified with red insulating tape at device A564!

**Note**

Sheathed cable from A564 to X4745 must be identified with red insulating tape at device A564!

The diagram shows the front end of a vehicle with various components and their wiring. The components include:

- Ignition:** Ignition switch (A564) connected to the ignition coil (A407) and the ignition switch (A564).
- Speaker:** Speaker (A564) connected to the speaker (A564).
- Sensors:** Various sensors (A564) connected to the vehicle's electrical system.
- Wiring:** The wiring is shown with various colors and thicknesses, indicating different types of wires and their connections.

The diagram is a detailed wiring schematic for the front end of a vehicle, showing the connections between various components and the vehicle's electrical system. The components are labeled with their respective part numbers and names, and the wiring is shown with various colors and thicknesses, indicating different types of wires and their connections.

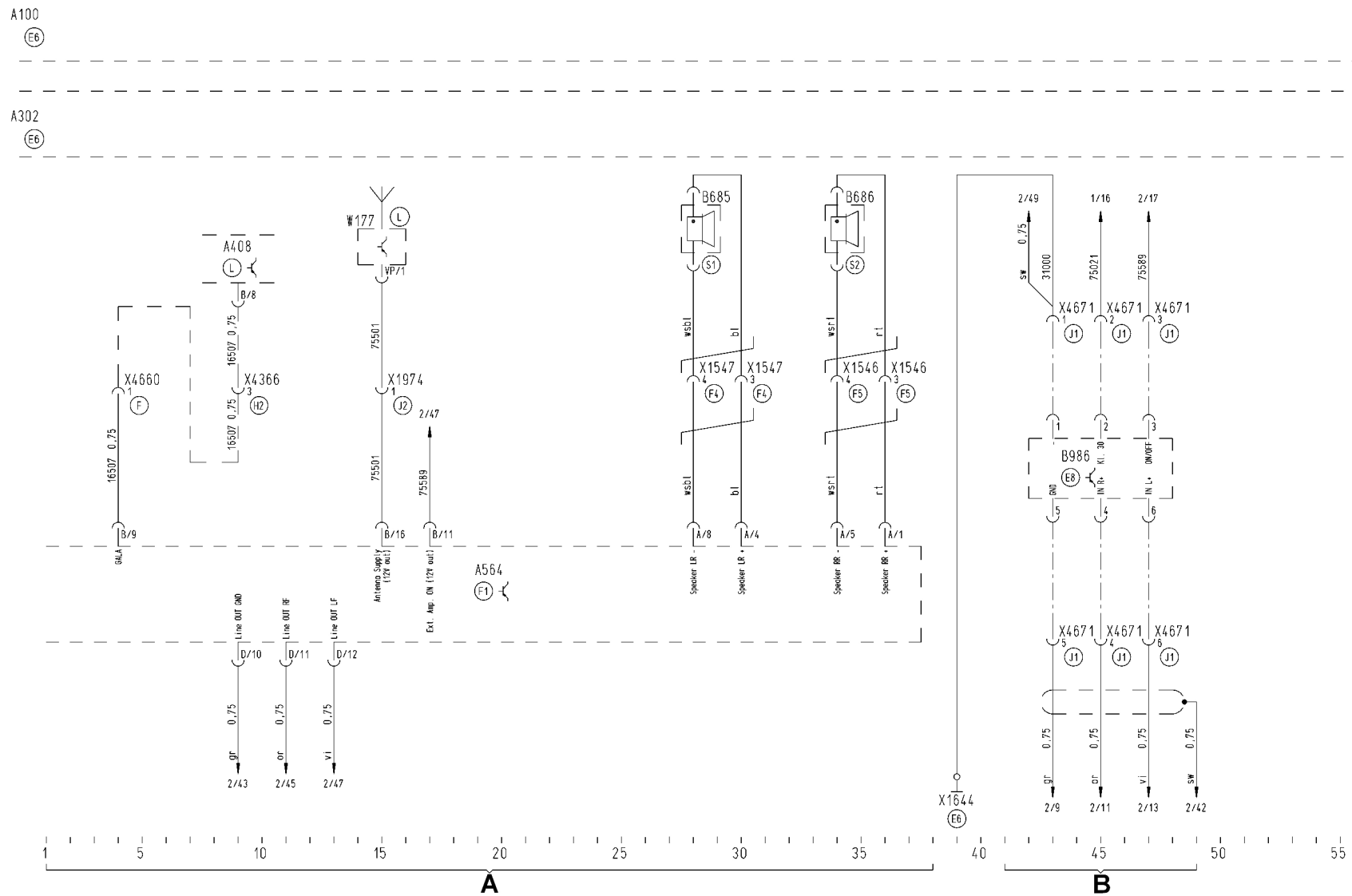
WIRING DIAGRAM NO. 81.99192.3490**Topline radio sheet 2 of 2**

Date: 04.2006

Legend**A Topline radio****B Subwoofer**

A100	Central electrical system
A302	Central computer 2
A408	Tachograph
A564	Radio with CD
B685	Loudspeaker, bass, left
B686	Loudspeaker, bass, right
B986	Subwoofer 1
W177	Combination aerial, radio, D/E network, GPS
X1546	Plug conn., door, right
X1547	Plug conn., door, left
X1644	Earthing point, cab, next to central electrical system
X1974	Plug conn. for active aerial
X4366	Plug conn., pulse distributor - tachograph
X4660	Plug conn., 4 pulses/meter, line 16507
X4671	Plug conn., subwoofer

Topline radio sheet 2 of 2



WIRING DIAGRAM NO. 81.99192.3349

Bunk light, bottom sheet 1 of 1

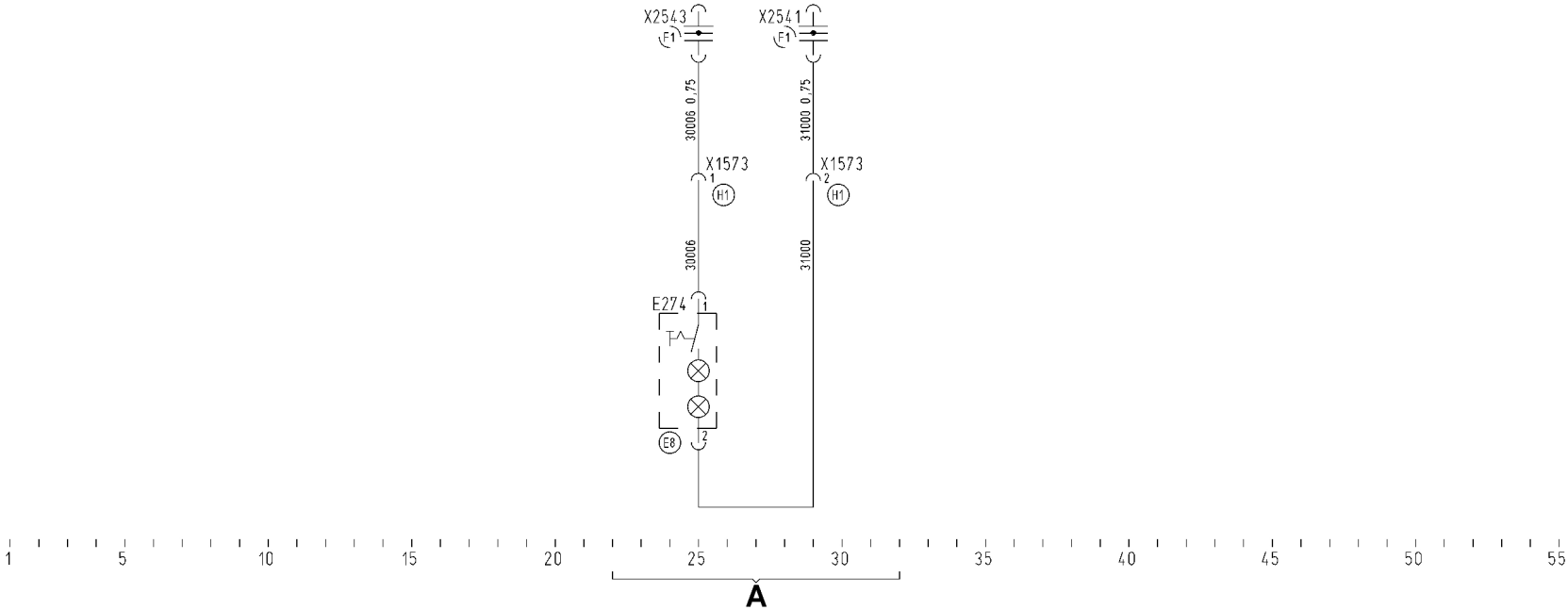
Date: 04.2006

Legend

A Bunk light, bottom

A100	Central electrical system
A302	Central computer 2
E274	Bunk light, bottom
X1573	Plug conn., bunk light, bottom
X2541	Potential distributor, 21-pin, line 31000
X2543	Potential distributor, 21-pin, line 30006

Bunk light, bottom sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.2592**Side marker lights sheet 1 of 1**

Date: 01.2007

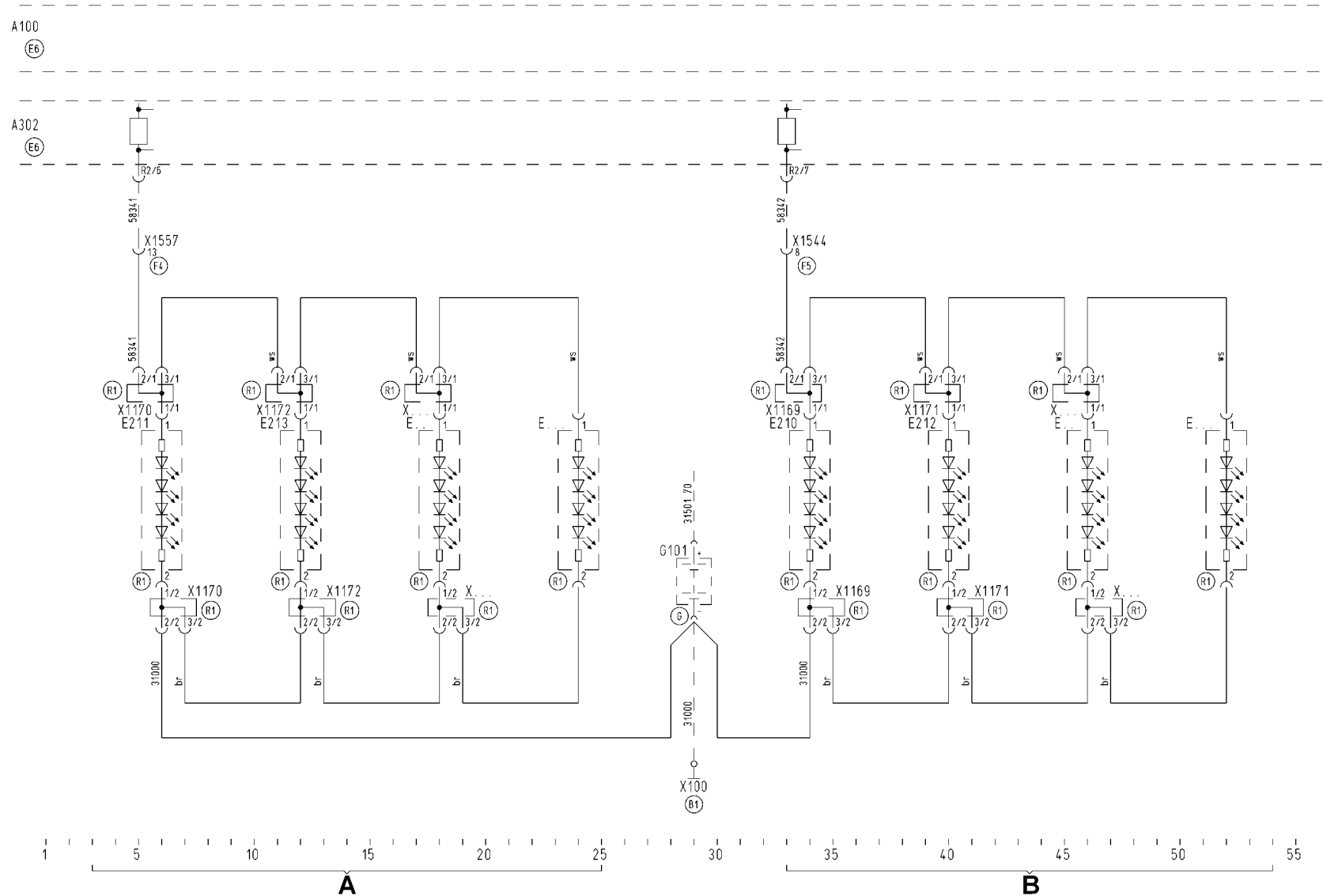
Legend**A Side marker lights, left****B Side marker lights, right**

A100	Central electrical system
A302	Central computer 2
E210	1st side marker light, right
E211	1st side marker light, left
E212	2nd side marker light, right
E213	2nd side marker light, left
E..	Further side marker lights without designation
E...	Last side marker lights without designation
G101	Battery 2
X100	Earthing point, engine
X1169	3-way divider for 1st side marker light, right
X1170	3-way divider for 1st side marker light, left
X1171	3-way divider for 2nd side marker light, right
X1172	3-way divider for 2nd side marker light, left
X1544	Plug conn., frame III
X1557	Plug conn., frame, left
X..	Further connectors without designation

**Note**

In the case of the side marker lights, the corresponding numbering and the number depends on the individual models, wheelbase lengths and overhangs!

Side marker lights sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3298

Seat heating, driver sheet 1 of 1

Date: 12.2005

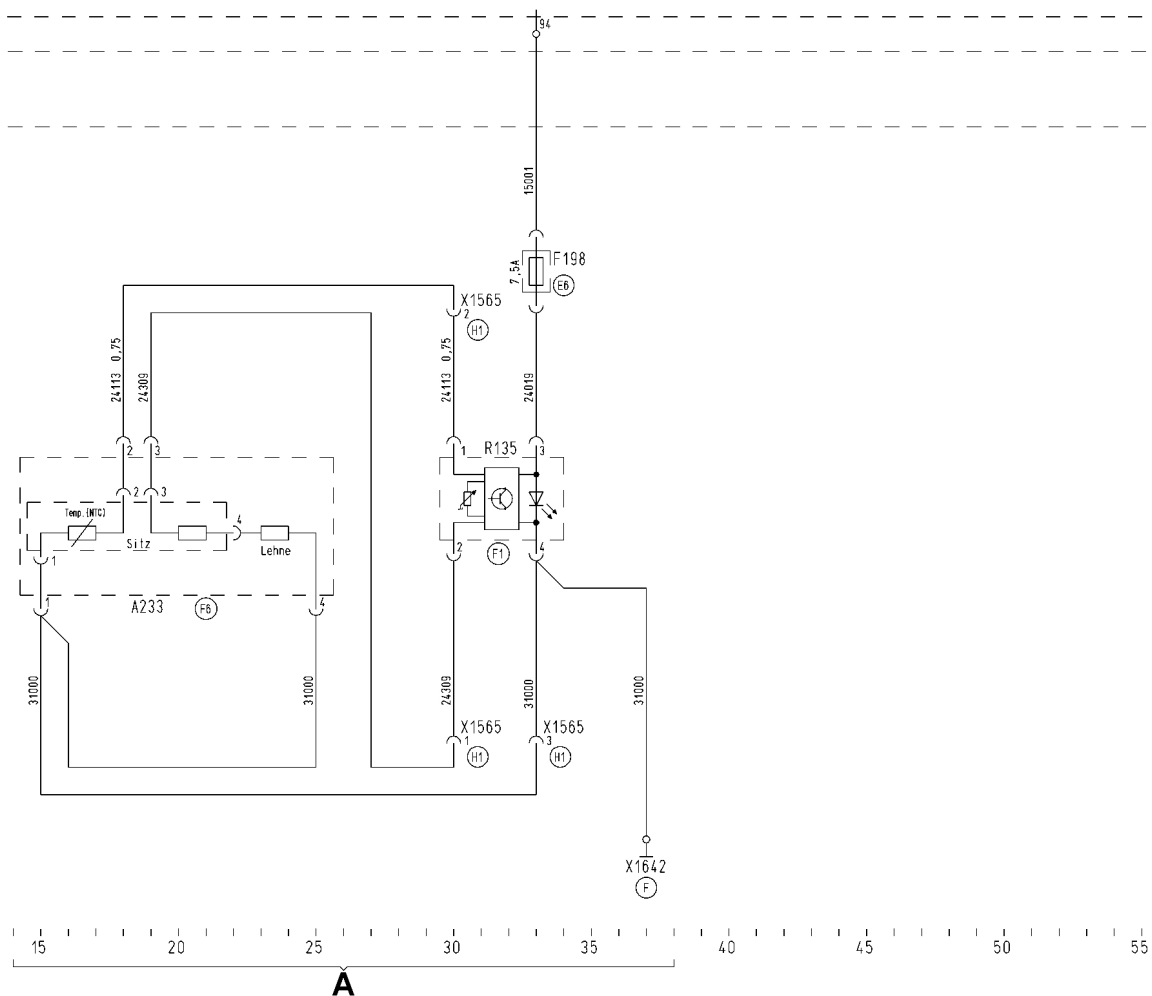
Legend

A Seat heating, driver

A100	Central electrical system
A233	Seat, driver side
A302	Central computer 2
F198	Fuse, seat heating
R135	Potentiometer, seat heating, driver
X1565	Plug conn., Seat heating
X1642	Earthing point, cab behind instrument panel

A100
(E6)

A302
(E6)



WIRING DIAGRAM NO. 81.99192.3313

Voltage transformer, 12V sheet 1 of 1

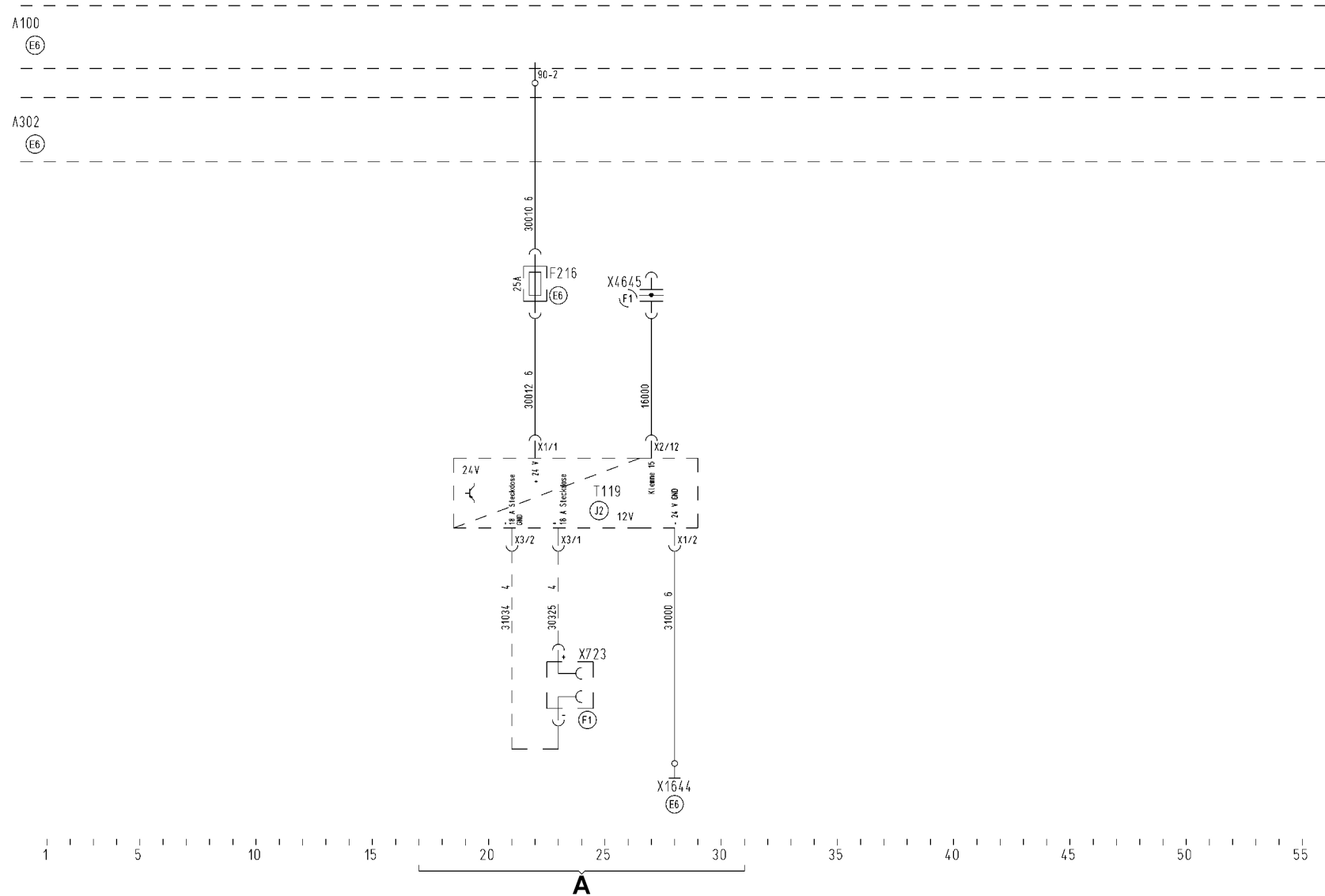
Date: 12.2005

Legend

A Voltage transformer, 12V

A100	Central electrical system
A302	Central computer 2
F216	Fuse, voltage transformer, 12V
T119	Modular voltage transformer
X723	Socket, 12V
X1644	Earthing point, cab, next to central electrical system
X4645	Potential distributor, line 16000

Voltage transformer, 12V sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3317**START/STOP device on engine sheet 1 of 1**

Date: 12.2005

Legend**A START/STOP device on engine**

A100	Central electrical system
A302	Central computer 2
A403	Vehicle management computer
A435	Control unit, EDC
B493	Pressure switch, parking brake switch, start/stop, external
K266	Relay, parking brake if start/stop fitted
Q101	Steering lock
S580	Button, engine start (MP box)
S581	Button, engine stop (MP box)
X669	Plug conn., Starter interlock
X1551	Plug conn., engine/EDC/gearbox II
X1966	Plug conn., ignition lock
X2334	Plug conn., start/stop device
X2541	Potential distributor, 21-pin, line 31000
X4644	Potential distributor, line 60028

- 1** Immobiliser
- 2** Gearbox neutral
- 3** Starter, terminal 50

WIRING DIAGRAM NO. 81.99192.3395

Storage locker lighting, rear left sheet 1 of 1

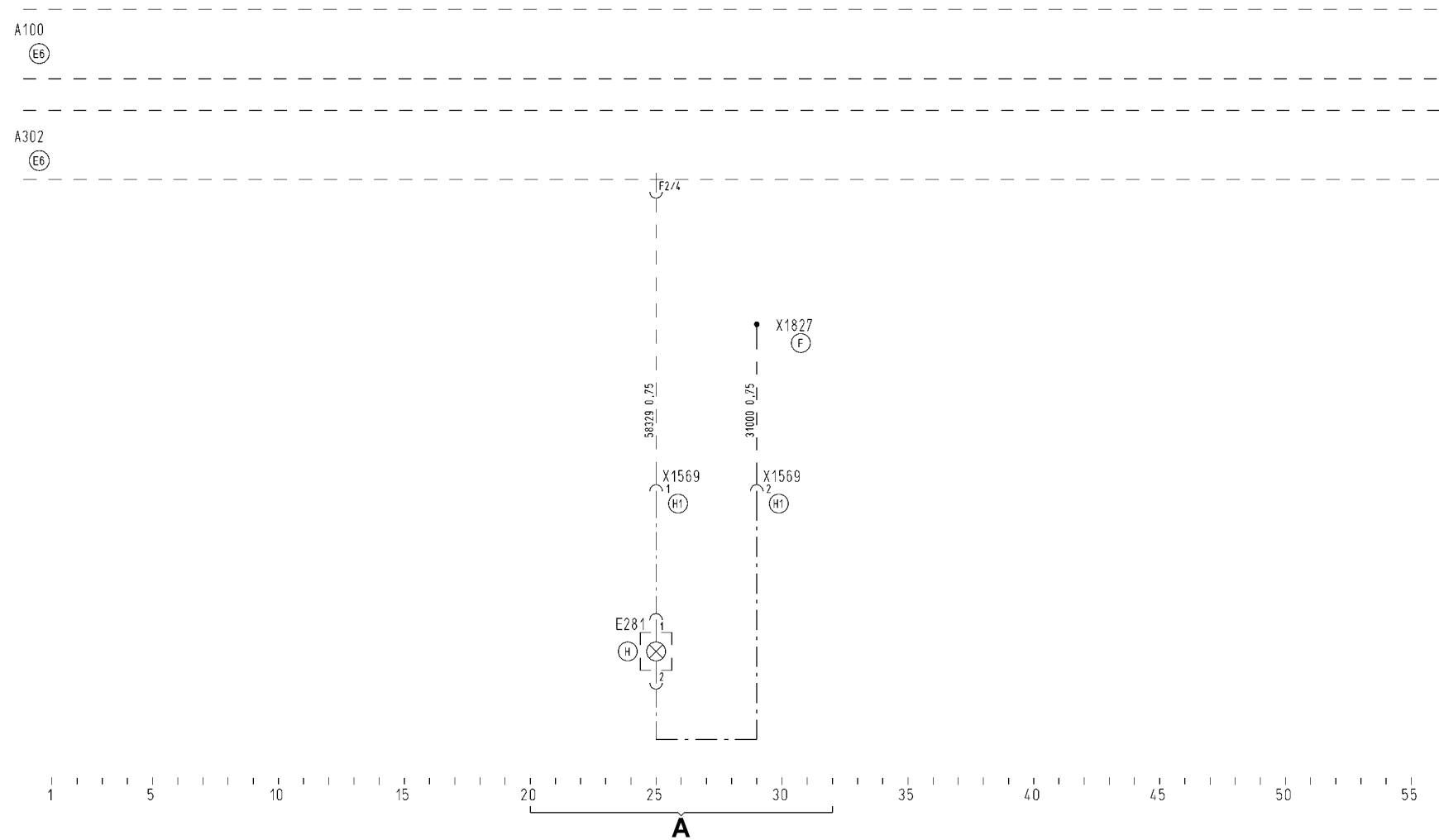
Date: 01.2006

Legend

A Storage locker lighting, rear left

-
- A100** Central electrical system
 - A302** Central computer 2
 - E281** Storage locker light, rear
 - X1569** Plug conn., storage locker lighting
 - X1827** Crimped connector, line 31000

Storage locker lighting, rear left sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3396

Storage locker lighting, rear right sheet 1 of 1

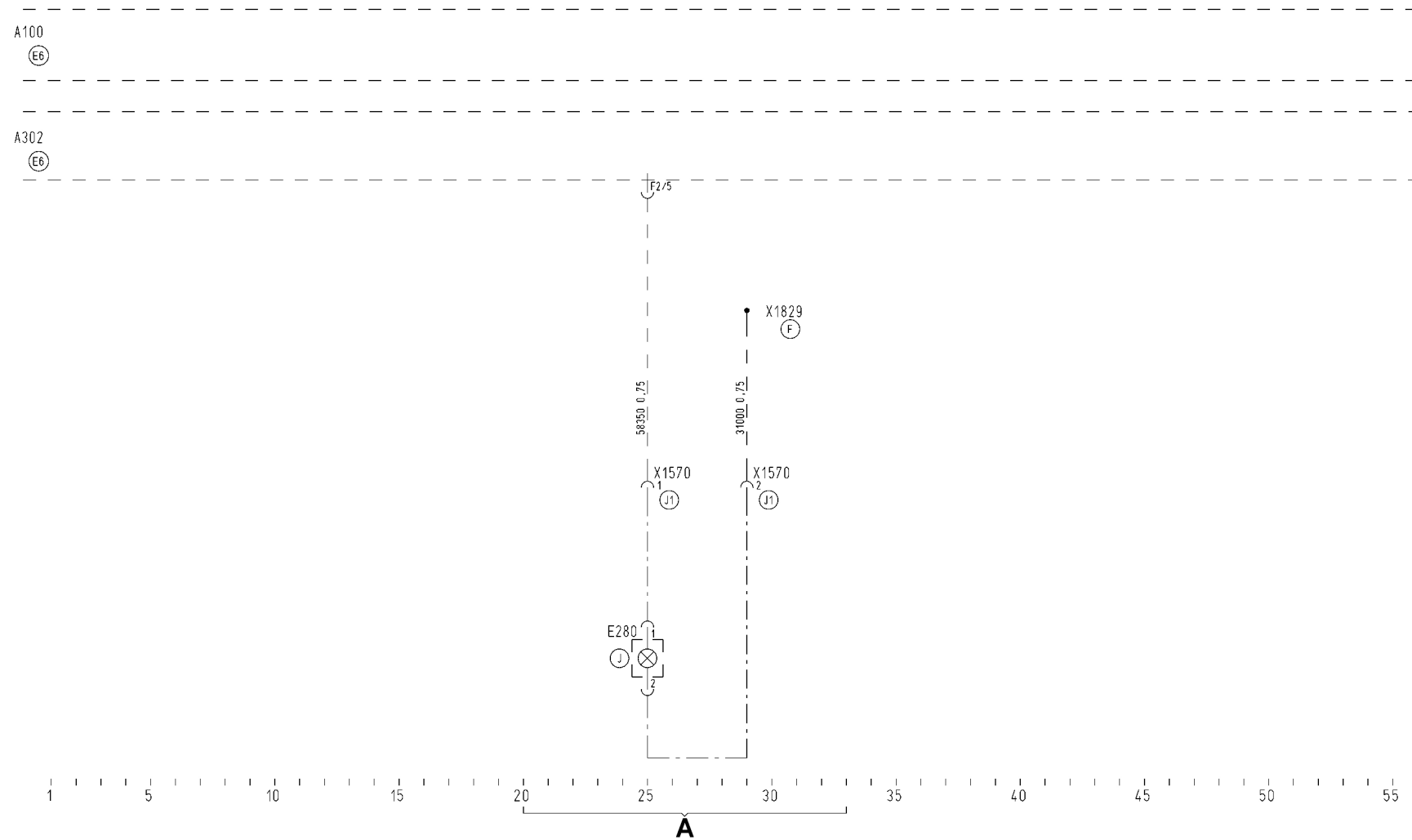
Date: 01.2006

Legend

A Storage locker lighting, rear right

-
- A100** Central electrical system
A302 Central computer 2
E280 Storage locker light, rear
X1570 Plug conn., storage locker lighting
X1829 Crimped connector, line 31000

Storage locker lighting, rear right sheet 1 of 1



WIRING DIAGRAM NO. 81.99192.3350

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

Date: 04.2006

Legend

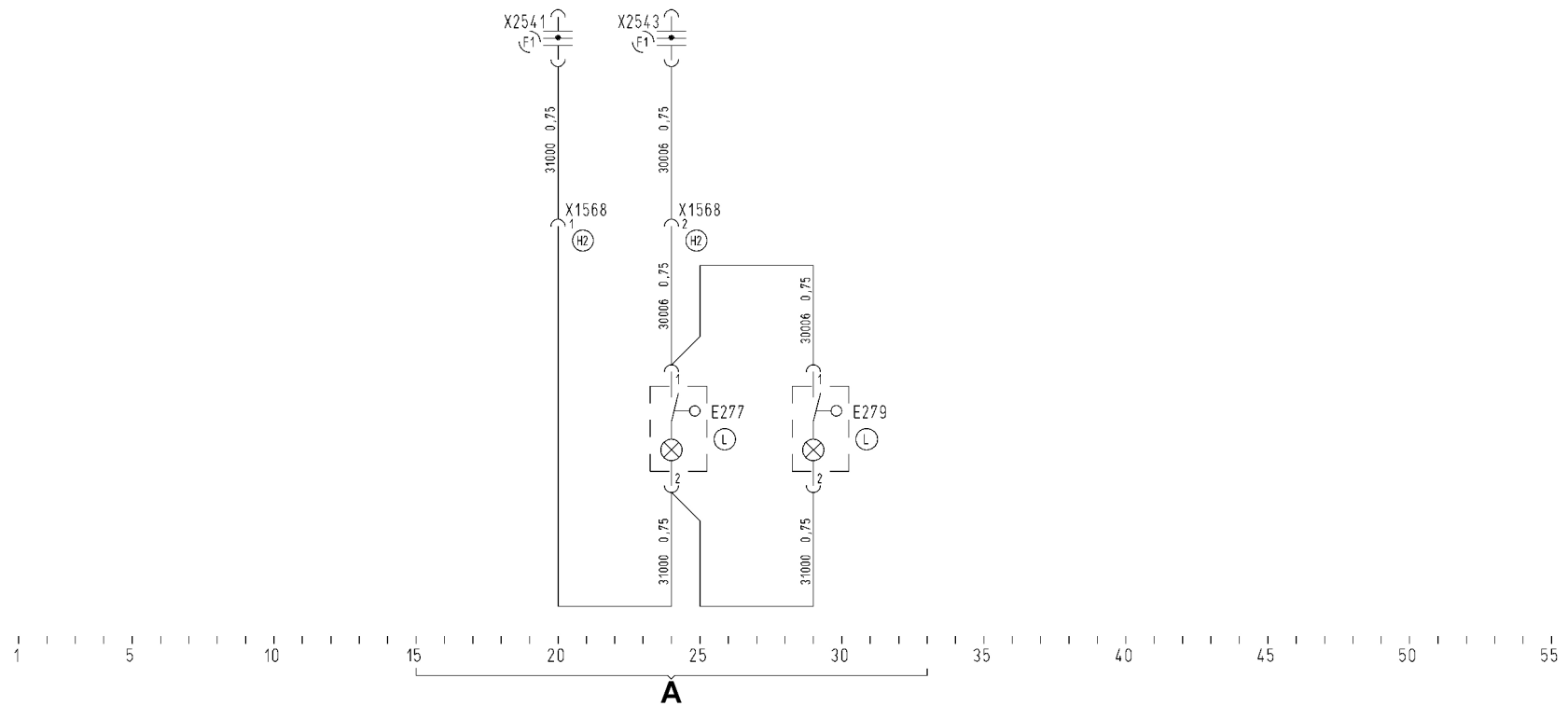
A Storage locker lighting, top (left, middle)

A100	Central electrical system
A302	Central computer 2
E277	Storage locker light, top
E279	Storage locker light, top
X1568	Plug conn., storage locker light, top
X2541	Potential distributor, 21-pin, line 31000
X2543	Potential distributor, 21-pin, line 30006

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

A100
(E6)

A302
(E6)



WIRING DIAGRAM NO. 81.99192.3351

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

Date: 04.2006

Legend

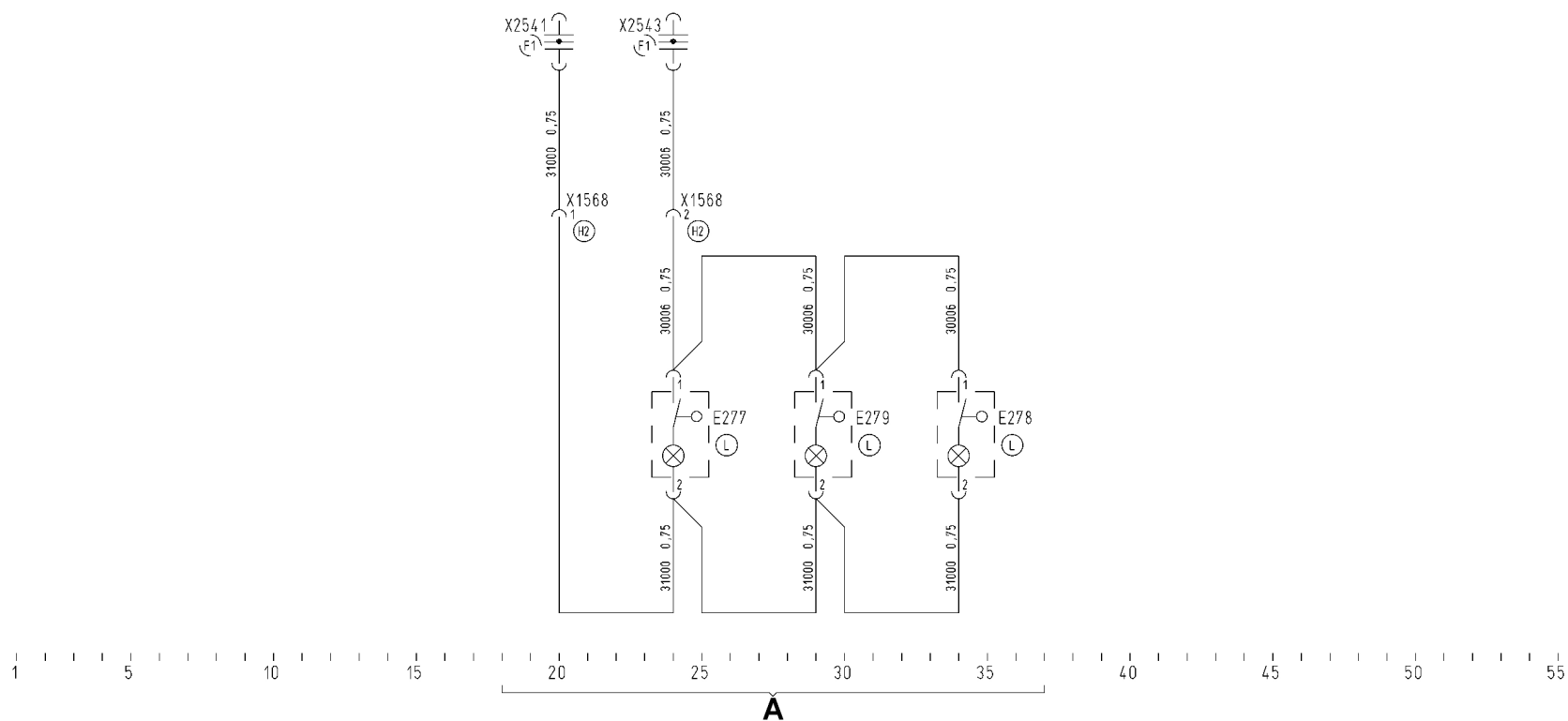
A Storage locker lighting, top (left, middle, right)

A100	Central electrical system
A302	Central computer 2
E277	Storage locker light, top
E278	Storage locker light, top
E279	Storage locker light, top
X1568	Plug conn., storage locker light, top
X2541	Potential distributor, 21-pin, line 31000
X2543	Potential distributor, 21-pin, line 30006

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

A100
(E6)

A302
(E6)



WIRING DIAGRAM NO. 81.99192.3367**Sockets in cab, 12V and 24V sheet 1 of 1**

Date: 12.2005

Legend**A Socket, 12V****B Socket, 24V**

A100	Central electrical system
A302	Central computer 2
F216	Fuse, voltage transformer, 12V
F217	Fuse, socket, 24V
T119	Modular voltage transformer
X723	Socket, 12V
X724	Socket, 24V
X1644	Earthing point, cab, next to central electrical system