

# **WIRING DIAGRAM**

**Section 3 (39)**  
**S40/V40**  
**2003**

TP 3965202

## Groups

|          |                                     |
|----------|-------------------------------------|
| Group 23 | = Fuel system                       |
| Group 26 | = Cooling system                    |
| Group 27 | = Engine controls                   |
| Group 32 | = Generator and voltage regulator   |
| Group 33 | = Starting system                   |
| Group 35 | = Lighting                          |
| Group 36 | = Additional electrical equipment   |
| Group 37 | = Wiring and fuses                  |
| Group 38 | = Instruments                       |
| Group 39 | = Other                             |
| Group 43 | = Transmission                      |
| Group 52 | = Vacuum hydraulic brake system     |
| Group 59 | = Brake system                      |
| Group 83 | = Doors and openings                |
| Group 84 | = Exterior decorative elements etc. |
| Group 85 | = Interior equipment                |
| Group 87 | = Climate controls                  |
| Group 88 | = Internal equipment                |

## Countries/Markets

|       |                                  |
|-------|----------------------------------|
| A     | = Austria                        |
| AUS   | = Australia                      |
| B     | = Belgium                        |
| CDN   | = Canada                         |
| CH    | = Switzerland                    |
| D     | = Germany                        |
| DK    | = Denmark                        |
| E     | = Spain                          |
| EU/OS | = Markets outside USA and Canada |
| FIN   | = Finland                        |
| GB    | = Great Britain                  |
| ISR   | = Israel                         |
| J     | = Japan                          |
| KOR   | = Korea                          |
| N     | = Norway                         |
| NL    | = Netherlands                    |
| S     | = Sweden                         |
| USA   | = United States of America       |
| WEU   | = Western Europe                 |

## Other

|          |                                     |
|----------|-------------------------------------|
| ABS      | = Anti-lock Brake System            |
| A/C      | = Air conditioning                  |
| AUTO     | = Automatic transmission            |
| D        | = Driver                            |
| ECC      | = Electronic climate control system |
| EMS 2000 | = EMS 2000 Engine management system |
| FL       | = Front left                        |
| FR       | = Front right                       |
| HL       | = High level of equipment           |
| L        | = Left                              |
| LHD      | = Left-hand drive                   |
| LL       | = Standard level of equipment       |
| LPG      | = Liquefied petroleum gas           |
| MAN      | = Manual transmission               |
| MELCO    | = Melco engine management system    |
| P        | = Passenger                         |
| PETROL   | = Gasoline                          |
| R        | = Right                             |
| REC      | = Receiver                          |
| RHD      | = Right-hand drive                  |
| RL       | = Rear left                         |
| RR       | = Rear right                        |
| SRS      | = Airbag                            |
| TRANS    | = Transmitter                       |
| TURBO    | = Turbo engine                      |
| XENON    | = Xenon lamps                       |

## Colors

|    |          |
|----|----------|
| BL | = Blue   |
| BN | = Brown  |
| GN | = Green  |
| GR | = Gray   |
| OR | = Orange |
| P  | = Pink   |
| R  | = Red    |
| SB | = Black  |
| VO | = Violet |
| W  | = White  |
| Y  | = Yellow |

# How to use the wiring diagrams

The descriptions below apply in general to all wiring diagram manuals, although not all sections are necessarily contained in this manual.

## A. Component designation

Every component has a component designation that consists of two parts.

The first part is a type number that describes the type of component in question, for example 3/xx.

The second part of the designation is a serial number, for example, x/2.

Combined these give a component designation, for example, 3/2.

At the end of the manual is a list of components, where, with the help of the component designation, you can read off the name of the component, for example, 3/2 = light switch.

## List of type numbers

The list shows which type of component that respective type numbers refer to, for example, 3/x = switch, 6/x = electric motor, etc.

|    |                           |
|----|---------------------------|
| 1  | Battery                   |
| 2  | Relay                     |
| 3  | Switch                    |
| 4  | Control module            |
| 5  | Combined instrument panel |
| 6  | Electric motor            |
| 7  | Sensor                    |
| 8  | Actuator                  |
| 9  | Heating element           |
| 10 | Light                     |
| 11 | Fuse                      |
| 15 | Distribution rail         |
| 16 | Audio                     |
| 17 | Service/diagnostics       |
| 18 | Contact reel              |
| 19 | Meter                     |
| 20 | Ignition component/shunt  |
| 31 | Ground connection         |
| 43 | Junction point            |
| 44 | Connector                 |

## B. Junction points

The wiring diagrams contain numbered junction points, e.g. 43/352.

This manual contains a section with a list of junction points. This list shows all the components which are connected to each junction point.

The location of the junction points is shown in the "Cable harness routing in vehicle" section.

## C. Connectors

Connectors provide a bridge between two cables harnesses and are described in the "Connectors" section.

## D: Electrical distribution

Operation of the fuses and relays is shown in the "Electrical distribution" section.

## E. Data communication

Today's cars are equipped with a CAN network, which transmits information. Connections to this network are shown in their entirety on the respective wiring diagrams. Complete information on CAN communication is can be found in the section titled "Data communication".

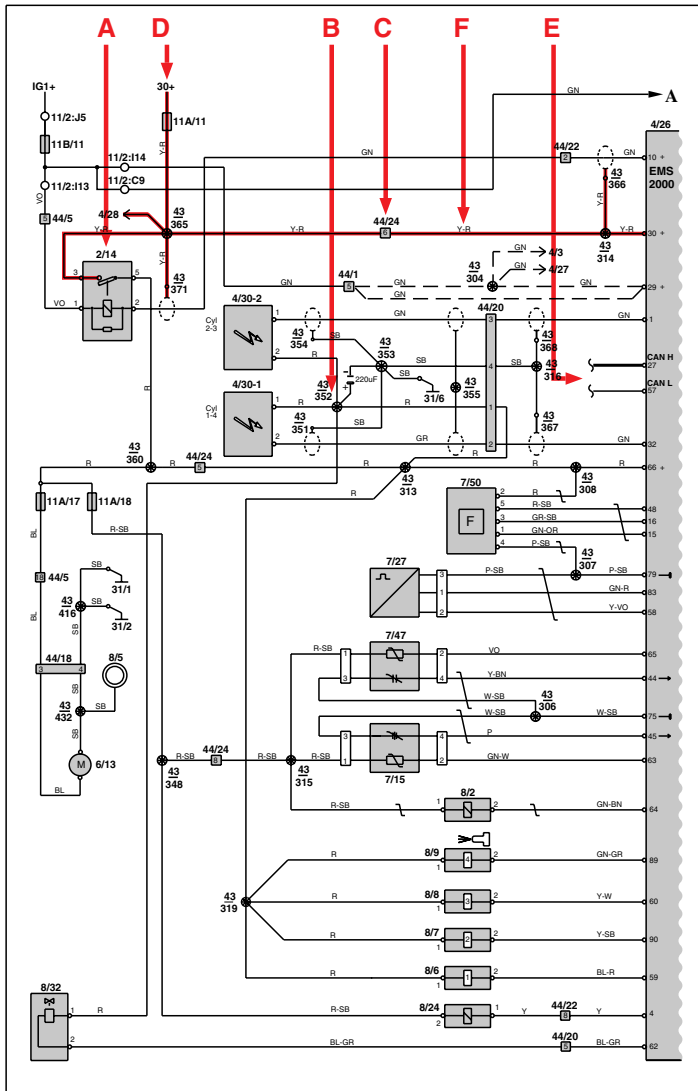
## F. Abbreviations

A number of different abbreviations are used in the manual. These are explained in the section "Abbreviations".

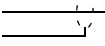
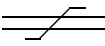
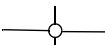
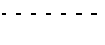
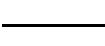
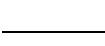
## G. Component location

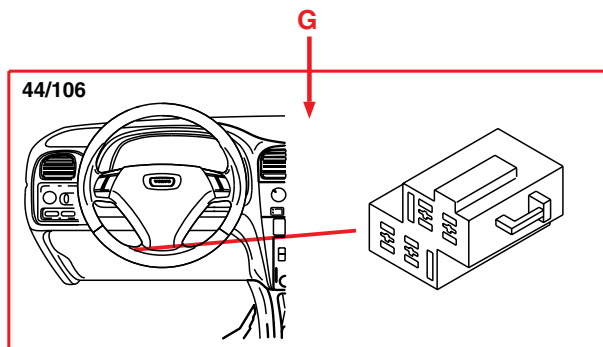
There is a section at the end of the manual in which the appearance and location of components is described in numerical order.

# How to use the wiring diagram

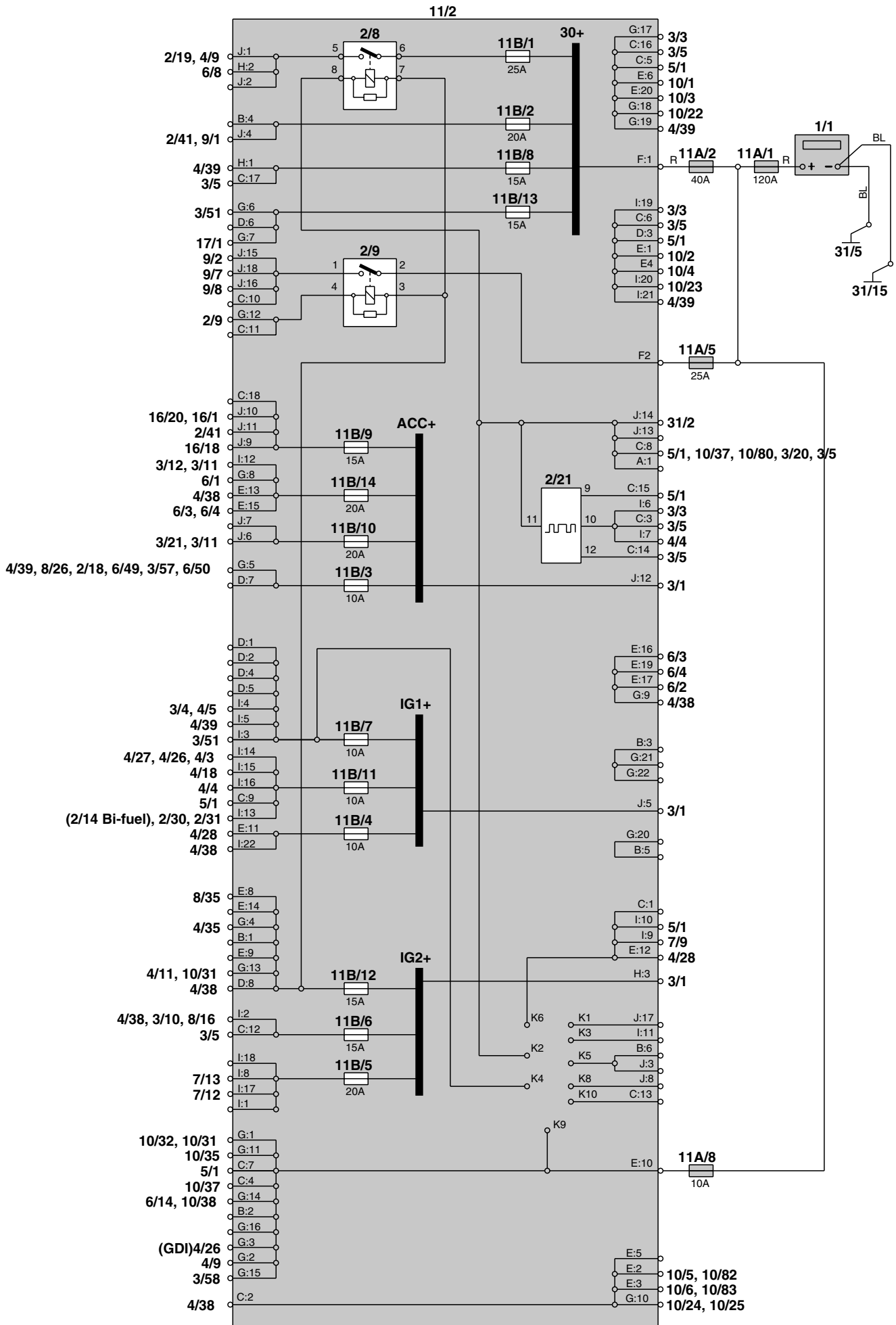


## List of symbols

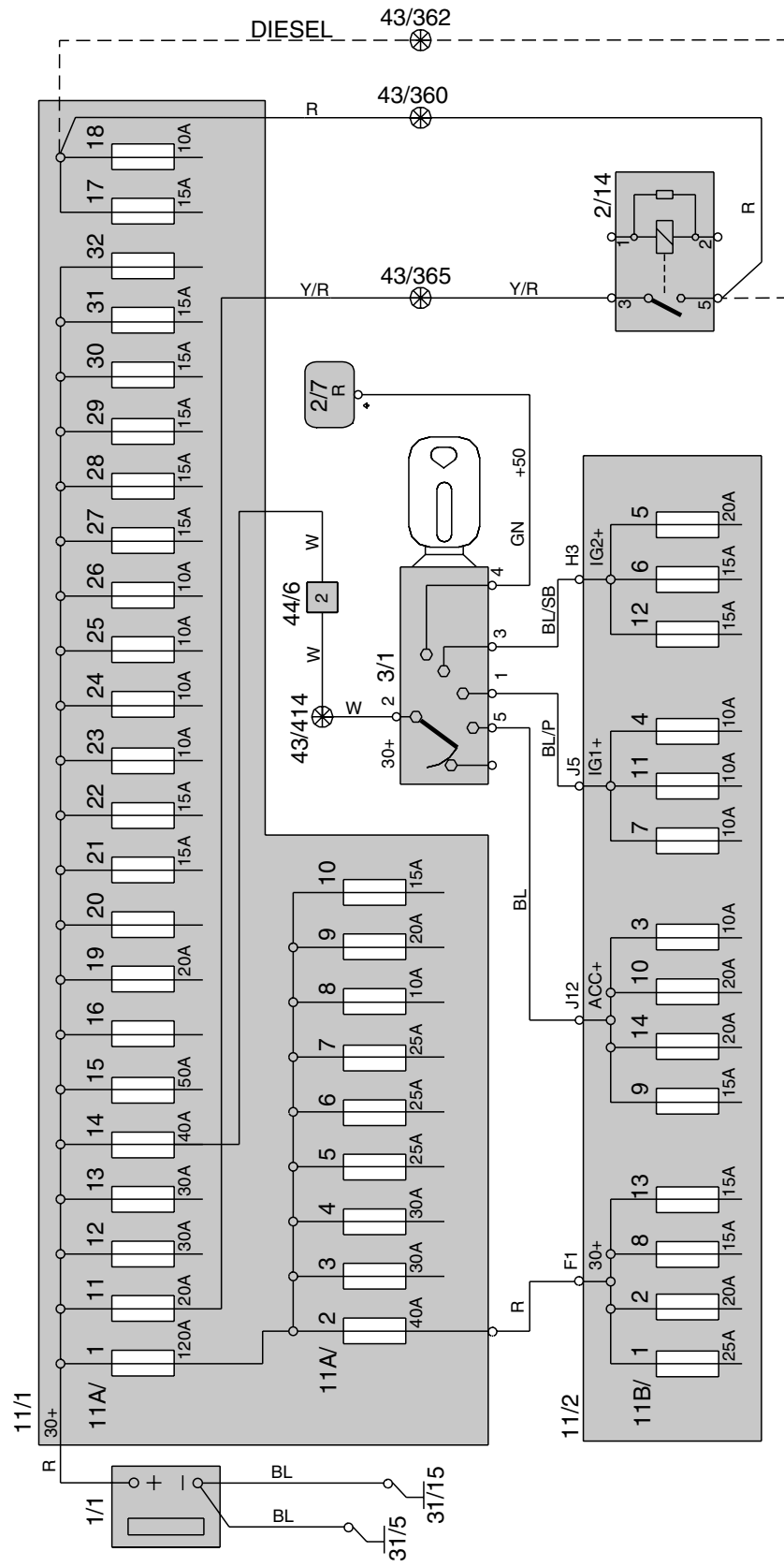
- = System voltage
-  = Ground connection via wiring
-  = Ground connection on component/chassis
-  = Screened wire
-  = Junction point
-  = Twisted cable
-  = Electrical connection
-  = Variant
-  = CAN communication
-  = CAN high speed data signal (CAN H)
-  = CAN low speed data signal (CAN L)
-  = Serial communication
-  = DIN cable, coaxial cable, etc.
-  = Data communication
-  = CAN communication
-  = Connection with fuse box
-  = Further connection to...
-  = Connector between cable harnesses
-  = Connector connected to component



# Electrical distribution Overview

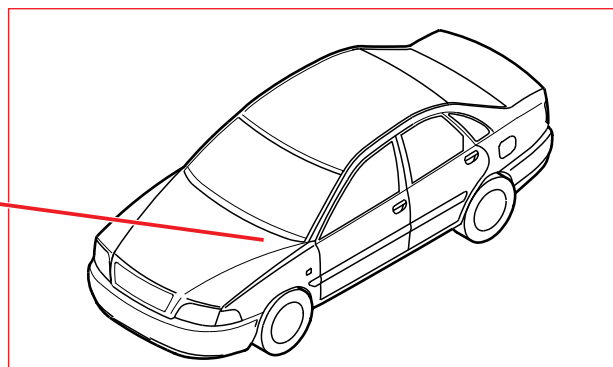
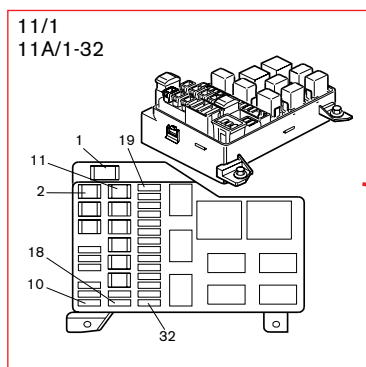


# Electrical distribution Overview



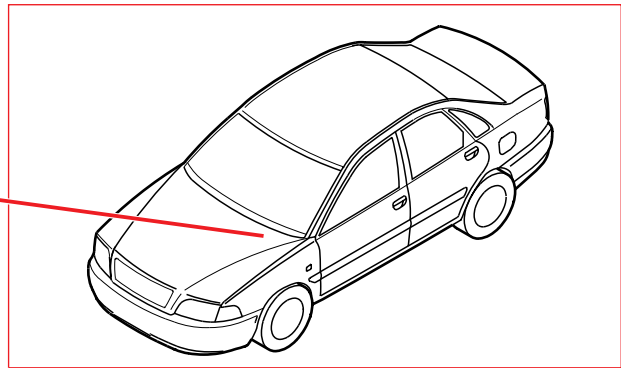
# Fuses

## Engine compartment 11A/1-8



### 11A Fuses in the engine compartment

| No. | Fuse function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | via                      | A   |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|
| 1   | 11A/2-10 Fuses in the engine compartment<br>9/9 Glow plug<br>6/7 Generator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2/36                     | 120 |
| 2   | 11B/1-2 Fuses in the passenger compartment<br>11B/8 Fuses in the passenger compartment<br>11B/13 Fuses in the passenger compartment                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          | 40  |
| 5   | 9/2 Heated rear window<br>9/7 Heated door mirror, driver's door<br>9/8 Heated door mirror, passenger door<br>3/33 Control module, power windows/door mirrors, driver's door                                                                                                                                                                                                                                                                                                                                                                                                              | 2/9<br>2/9<br>2/9<br>2/9 | 25  |
| 6   | 8/25 Power driver's seat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          | 25  |
| 7   | 8/26 Power passenger seat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          | 25  |
| 8   | 5/1 Combined instrument panel<br>4/26 Engine management system, Melco 2<br>8/35 Alarm siren<br>4/35 Control module, key-inserted warning/seat belt reminder<br>4/39 Control module for locks and alarm, VGLA<br>10/35 Courtesy lighting<br>10/37 Glove compartment lighting<br>10/31 Ceiling light for HL with reading lights<br>10/33 Reading lights, rear<br>10/36 Lighting, vanity mirror, passenger side<br>10/47 Lighting, vanity mirror, driver's side<br>4/9 Climate Control Module (CCM)<br>10/32 Ceiling light for LL<br>10/38 Cargo compartment lighting<br>6/14 Power antenna | 3/58<br>3/58             | 10  |
|     | continues                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |     |

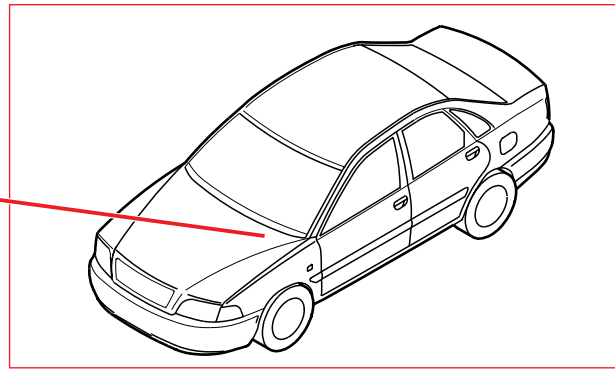
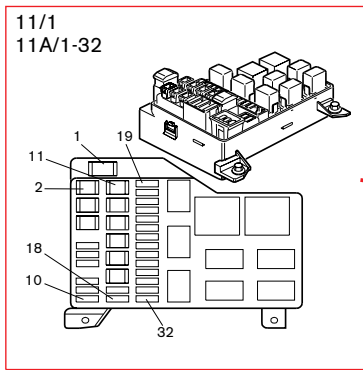


## 11A Fuses in the engine compartment

| No. | Fuse function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | via                                                                                                  | A  |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----|
| 9   | 4/40 Receiver, VGLA<br>4/39 Control module for locks and alarm, VGLA<br>4/41 Control module, ultrasonic glass breakage sensor<br>6/34 Rear left child safety lock<br>6/35 Rear right child safety lock<br>6/36 Central locking with deadlock on driver's door<br>6/37 Central locking with deadlock on passenger door<br>6/38 Central locking with deadlocks, rear driver's side<br>6/39 Central locking with deadlocks, rear passenger side<br>6/28 Central locking, driver's door<br>6/29 Central locking, passenger door<br>6/30 Central locking, rear driver's side door<br>6/31 Central locking, rear passenger side<br>6/32 Central locking, trunk lid/tailgate<br>6/55 Lock motor, fuel filler flap                 | 4/39<br>4/39<br>4/39<br>4/39<br>4/39<br>4/39<br>4/39<br>4/39<br>4/39<br>4/39<br>4/39<br>4/39<br>4/39 | 20 |
| 10  | 16/1 Radio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                      | 15 |
| 11  | 11A/17-18 Fuses in the engine compartment<br>4/18 Control module, electronic immobilizer<br>4/26 Engine management system<br>2/14 Main relay engine management system, Melco 2, Diesel<br>7/50 Mass airflow sensor MAF<br>4/30 Ignition coils<br>8/6-9 Injectors<br>8/32 CVVT valve<br>4/33 Control module, fuel system Melco 2<br>7/64 IGF sensor, Melco 2<br>4/50 Control module, fuel throttle relay, Melco 2<br>6/56 Engine, fuel throttle body<br>2/11 Relay, electric cooling fan, speed 1, Diesel<br>2/28 Relay, electric cooling fan, speed 2, Diesel<br>7/27 Camshaft position sensor<br>7/56 Crankshaft position sensor<br>8/38 Regulator, fuel line pressure, Diesel<br>8/23 Turbocharger control valve, Diesel | 2/14<br>2/30<br>2/30<br>2/32<br>4/50<br>2/14<br>2/14<br>2/14<br>2/14<br>2/14<br>2/14<br>2/14         | 20 |
|     | continues                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                      |    |

# Fuses

## Engine compartment 11A/12-17

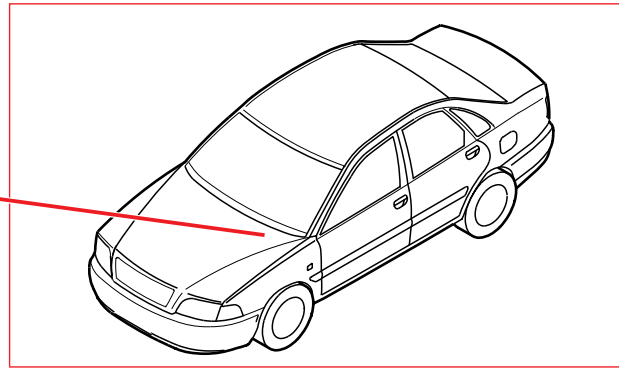
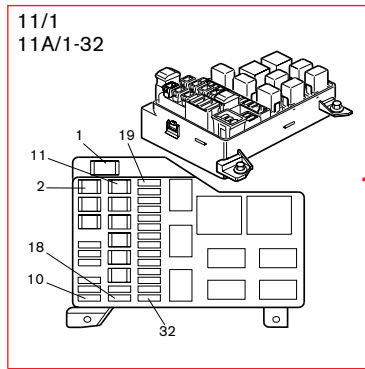


### 11A Fuses in the engine compartment

| No. | Fuse function                                                  | via        | A  |
|-----|----------------------------------------------------------------|------------|----|
| 12  | 3/34 Switch unit, passenger door power window                  | 2/18       | 30 |
|     | 6/18 Motor, power window, passenger door                       | 2/18, 3/34 |    |
|     | 3/33 Control module, power windows/door mirrors, driver's door |            |    |
|     | 6/17 Motor, power window, driver's door                        | 3/33       |    |
|     | 6/19 Motor, rear left power window                             | 3/33       |    |
|     | 6/20 Motor, rear right power window                            | 3/33       |    |
|     | 6/21 Power door mirror, driver's side                          | 3/33       |    |
| 13  | 2/11 Relay, electric cooling fan, speed 1                      | 2/11       | 30 |
|     | 6/9 Motor, electric cooling fan                                |            |    |
|     | 6/26 Motor, two-speed cooling fan                              | 2/28       |    |
|     | 2/28 Relay, electric cooling fan, speed 2                      |            |    |
| 14  | 2/7 Starter motor relay                                        | 3/1        | 40 |
|     | 6/6 Starter motor                                              | 2/7        |    |
|     | 3/1 Ignition switch                                            |            |    |
|     | 11B3-7 Fuses in the passenger compartment                      | 3/1        |    |
|     | 11B9-12 Fuses in the passenger compartment                     | 3/1        |    |
|     | 11B/14 Fuses in the passenger compartment                      | 3/1        |    |
| 15  | 4/28 ABS control module                                        |            | 50 |
| 17  | 6/13 Fuel pump                                                 |            | 15 |
|     | 2/31 Fuel pump relay, Bifuel                                   |            |    |
|     | 9/10 Fuel preheater, Diesel                                    |            |    |
|     | continues                                                      |            |    |

# Fuses

## Engine compartment 11A/18-23

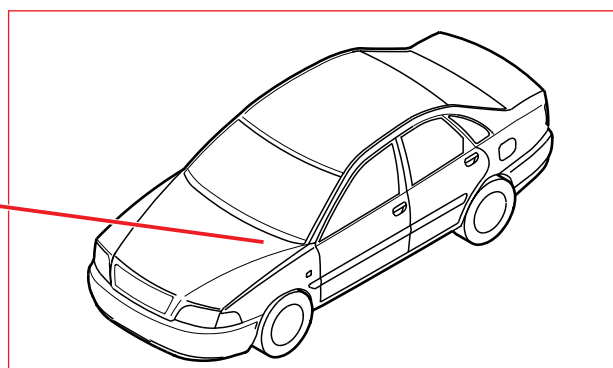
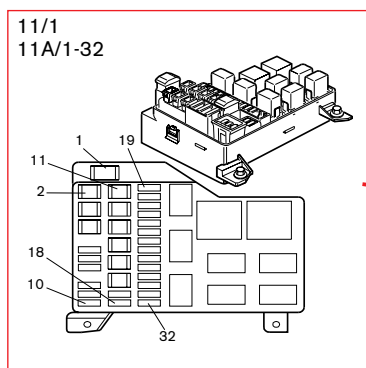


### 11A Fuses in the engine compartment

| No. | Fuse function |                                                       | via  | A  |
|-----|---------------|-------------------------------------------------------|------|----|
| 18  | 8/24          | EVAP valve                                            | 7/67 | 10 |
|     | 7/47          | Heated oxygen sensor, rear                            |      |    |
|     | 7/60          | Sensor, air pressure/temperature/flow, Melco 2        |      |    |
|     | 9/12          | Crankcase breather, Turbo, Diesel                     |      |    |
|     | 8/13          | EGR valve, Diesel                                     |      |    |
|     | 7/15          | Heated oxygen sensor, front                           |      |    |
|     | 8/2           | Idling valve                                          |      |    |
|     | 8/23          | Turbocharger control valve                            |      |    |
|     | 7/78          | Leakage diagnostic pump (LDP), Turbo USA              |      |    |
|     | 7/85          | Heated oxygen sensor LPG                              |      |    |
|     | 2/34          | Relay, vacuum pump, automatic transmission            |      |    |
|     | 7/50          | Mass airflow sensor MAF, Diesel                       |      |    |
|     | 8/36          | Engine stopping damper valve, Diesel                  |      |    |
| 19  | 7/67          | Pressure monitor, vacuum pump, automatic transmission | 2/10 | 20 |
|     | 6/51          | EGR stepper motor, Melco 2                            |      |    |
|     | 4/26          | Engine management system, Diesel                      |      |    |
|     | 10/13         | Front left fog light                                  | 4/38 |    |
|     | 10/14         | Front right fog light                                 | 4/38 |    |
| 20  | 10/73         | Indicator light, front fog lights                     | 4/38 | 15 |
|     | 10/74         | Indicator light, rear fog lights                      | 4/38 |    |
|     | 10/30         | Rear fog light                                        | 4/38 |    |
|     | 16/20:11      | Audio amplifier                                       |      |    |
| 21  | 10/7          | Left-hand low beam                                    | 4/38 | 15 |
|     | 10/86         | Left-hand headlight, Xenon                            | 4/38 |    |
| 22  | 10/8          | Right-hand low beam                                   | 4/38 | 15 |
|     | 10/87         | Right-hand headlight, Xenon                           | 4/38 |    |
| 23  | 10/24         | RL parking light                                      | 4/38 | 10 |
|     | 10/25         | RR parking light                                      | 4/38 |    |
|     | 10/5          | FL parking light                                      | 4/68 |    |
|     | 10/6          | FR parking light                                      | 4/68 |    |
|     | continues     |                                                       |      |    |

# Fuses

## Engine compartment 11A/24-31

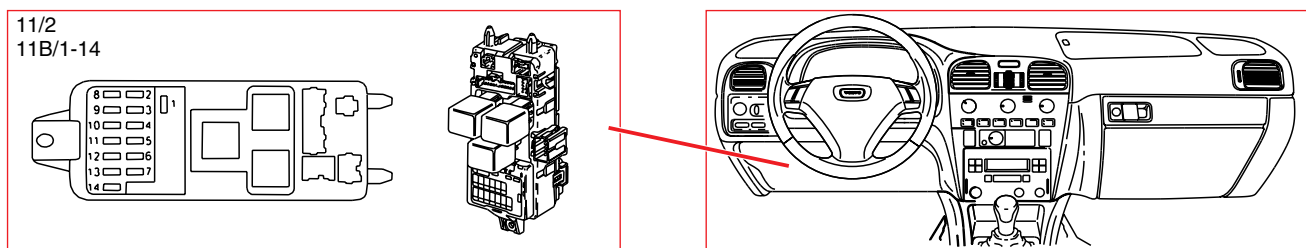


### 11A Fuses in the engine compartment

| No. | Fuse function          |                                     | via  | A              |
|-----|------------------------|-------------------------------------|------|----------------|
| 24  | 10/11                  | Front left side marker light        | 4/38 | 10             |
|     | 10/12                  | Front right side marker light       | 4/38 |                |
|     | 10/28                  | Rear left side marker light         | 4/38 |                |
|     | 10/29                  | Rear right side marker light        | 4/38 |                |
|     | 10/26                  | Left-hand tail light                | 4/38 |                |
|     | 10/27                  | Right-hand tail light               | 4/38 |                |
|     | 10/20                  | License plate lighting, left-hand   | 4/38 |                |
|     | 10/21                  | License plate lighting, right-hand  | 4/38 |                |
|     | 6/15                   | Left-hand beam adjustment actuator  | 4/38 |                |
|     | 6/16                   | Right-hand beam adjustment actuator | 4/38 |                |
| 25  | 3/19                   | Control, beam adjustment            | 4/38 | 10             |
|     | 4/6                    | Control module, xenon lamps         | 4/38 |                |
|     | 4/26                   | Engine management system, Melco 2   | 4/38 |                |
|     | 4/27                   | Transmission Control Module TCM     | 2/50 |                |
|     | 4/75                   | Control module LPG                  |      |                |
| 26  | 8/41                   | Fuel cut-off valve DFCO, Bifuel     | 2/50 | 15             |
|     | 8/42                   | Cut-off valve, engine, Bifuel       | 2/50 |                |
|     | 8/43                   | Cut-off valve, tank, Bifuel         | 2/50 |                |
| 27  | 6/7                    | Generator                           |      | 10             |
| 28  | Accessory outlet, rear |                                     |      | 15             |
| 29  | 10/9                   | Left-hand high beam                 |      | 15             |
|     | 10/10                  | Right-hand high beam                |      |                |
|     | 10/62                  | Indicator light, high beam          |      |                |
| 30  | 2/35                   | Horn relay                          | 2/35 | 15             |
|     | 16/9                   | Horn 1                              |      |                |
|     | 16/16                  | Horn 2                              |      |                |
| 31  | 2/10                   | Relay, AC compressor                | 2/10 | 15<br>20 Turbo |
|     | 8/1                    | Solenoid clutch, AC compressor      |      |                |
|     | 2/13                   | Relay, AC condenser fan             | 2/13 |                |
|     | 6/27                   | AC condenser fan                    |      |                |
| 32  | 6/54                   | Vacuum pump, automatic transmission | 2/34 | 15             |

## Fuses

### Passenger compartment 11B/7-10

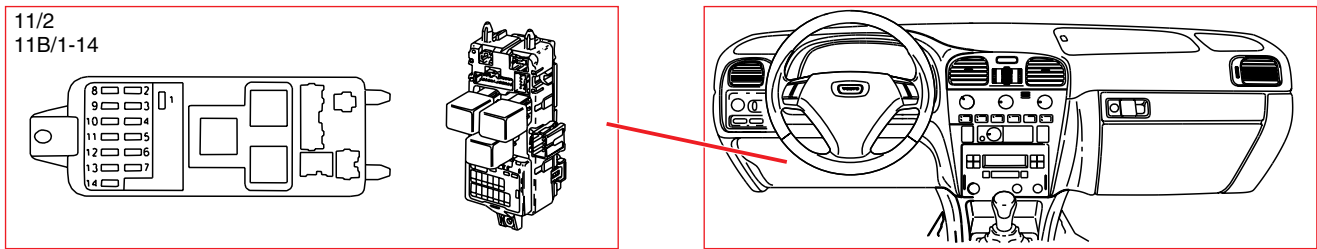


#### 11B Fuses in passenger compartment

| No. | Fuse function                                                                                                                                                                                                                                                                                     | via                                  | A  |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----|
| 7   | 4/5 Control module, cruise control, EMS 2000<br>2/23 Relay, shift lock<br>4/39 Control module for locks and alarm, VGLA<br>4/75 Control module LPG<br>2/50 Relay, LPG<br>3/63 Switch, gas/gasoline drive, Bifuel<br>3/4 Control, cruise control                                                   | 3/51                                 | 10 |
| 8   | 4/39:A26 Control module for locks and alarm, VGLA<br>10/64 Rear left lamp housing<br>10/65 Rear right lamp housing<br>10/1 FL direction indicator<br>10/2 FR direction indicator<br>10/3 Direction indicator, FL fender<br>10/4 Direction indicator FR fender<br>2/21 Relay, direction indicators | 4/39<br>4/39<br>4/39<br>4/39<br>3/5  | 15 |
| 9   | 2/41 Relay, cigarette lighter, USA, CDN, AUS<br>16/1 Radio<br>16/18 Bass speaker, V40<br>16/20 Audio amplifier                                                                                                                                                                                    |                                      | 15 |
| 10  | 6/1 Windshield wiper motor<br>6/11 Rear window wiper motor, V40<br>6/2 Windshield washer pump<br>6/3 Right-hand headlight wiper motor<br>6/4 Left-hand headlight wiper motor                                                                                                                      | 3/11<br>4/38<br>3/21<br>3/21<br>3/21 | 20 |
|     | continues                                                                                                                                                                                                                                                                                         |                                      |    |

## Fuses

### Passenger compartment 11B/11-14

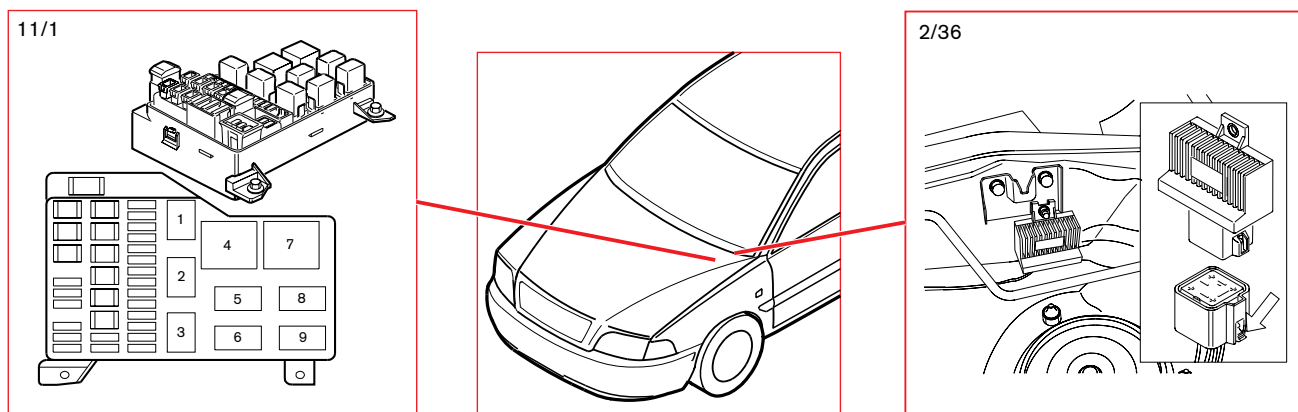


#### 11B Fuses in passenger compartment

| No. | Fuse function                                                          | via                          | A  |
|-----|------------------------------------------------------------------------|------------------------------|----|
| 11  | 2/14 Engine management system main relay                               | 44/13:16                     | 10 |
|     | 4/26 Engine management system                                          |                              |    |
|     | 4/18 Control module, electronic immobilizer                            |                              |    |
|     | 5/1 Combined instrument panel                                          |                              |    |
|     | 2/30 Relay, fuel injection/ignition, Melco 2                           |                              |    |
|     | 2/31 Fuel pump relay, Melco 2                                          |                              |    |
|     | 4/3 Control module, Dynamic Stability Assistance (DSA)                 |                              |    |
|     | 4/27 Transmission Control Module TCM                                   |                              |    |
|     | 4/4 Control module, Supplemental Restraint System (SRS)                |                              |    |
| 12  | 44/19:4 Connector for towing bracket socket                            | 4/11                         | 15 |
|     | 4/38 Central Electronic Module CEM                                     |                              |    |
|     | 4/11 Control module, power sunroof                                     |                              |    |
|     | 6/5 Sunroof motor                                                      |                              |    |
|     | 4/35 Control module, key-inserted warning/seat belt reminder, USA, KOR |                              |    |
|     | 8/35:1 Alarm siren                                                     |                              |    |
|     | 2/9 Relay, heated rear window/door mirrors                             |                              |    |
| 13  | 2/8 Relay, passenger compartment fan                                   | 3/51<br>4/38<br>4/38<br>4/38 | 15 |
|     | 10/31 Ceiling light for HL with reading lights                         |                              |    |
|     | 4/38 Central Electronic Module CEM                                     |                              |    |
|     | 10/15 Left-hand brake light                                            |                              |    |
|     | 10/16 Right-hand brake light                                           |                              |    |
| 14  | 10/17 Auxiliary brake light                                            | 3/12                         | 20 |
|     | 17/1:6 Data link connector                                             |                              |    |
|     | 6/3 Right-hand headlight wiper motor                                   |                              |    |
|     | 6/4 Left-hand headlight wiper motor                                    |                              |    |
|     | 6/10 Rear window washer pump, V40                                      |                              |    |
|     | 6/1 Horn 2                                                             |                              |    |
|     | 6/11 Rear window wiper motor, V40                                      |                              |    |

## Relays

### Engine compartment 1-9, misc.



### Relays in the engine compartment

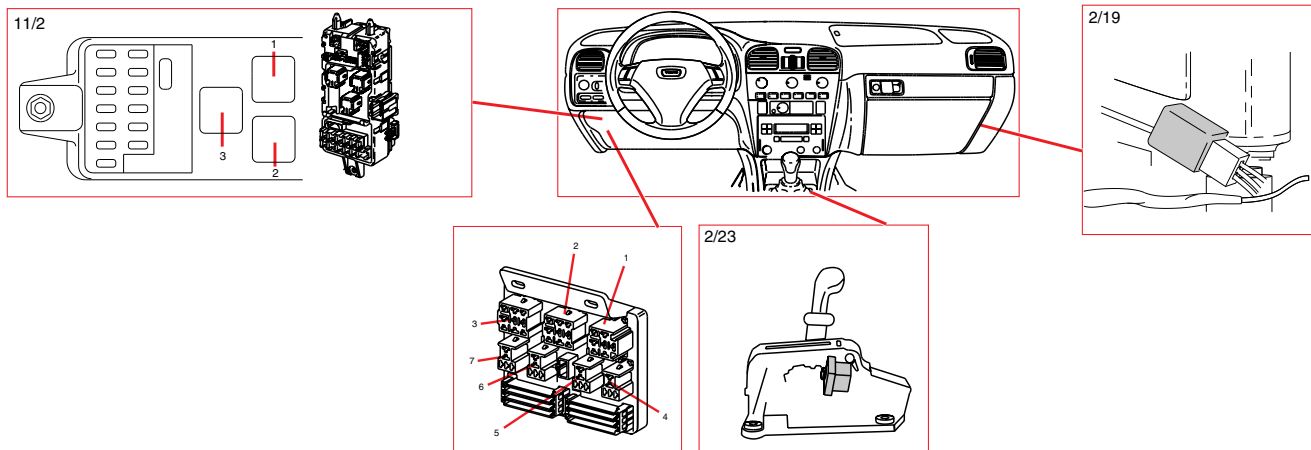
| Pos. | Relay function |                                            |
|------|----------------|--------------------------------------------|
| 1    | 2/11           | Relay, electric cooling fan, speed 1       |
| 2    | 2/10           | Relay, AC compressor                       |
| 3    | 2/13           | Relay, AC condenser fan                    |
| 4    | 2/28           | Relay, electric cooling fan, speed 2       |
|      | 2/30           | Relay, fuel injection/ignition, Melco 2    |
| 6    | 2/34           | Relay, vacuum pump, automatic transmission |
|      | 2/32           | Relay, fuel throttle body                  |
|      | 2/50           | Relay, LPG                                 |
| 7    | 2/14           | Engine management system main relay        |
| 8    | 2/35           | Horn relay                                 |
| 9    | 2/31           | Fuel pump relay, Melco 2, Bifuel           |

### Other relays

| Pos. | Relay function |                               |
|------|----------------|-------------------------------|
| -    | 2/36           | Relay, glow plug unit, Diesel |

## Relays

### Passenger compartment 1-7, misc.



### Relays in passenger compartment fuse box

| Pos. | Relay function |                                        |
|------|----------------|----------------------------------------|
| 1    | 2/8            | Relay, passenger compartment fan       |
| 2    | 2/9            | Relay, heated rear window/door mirrors |
| 3    | 2/21           | Relay, direction indicators            |

### Relays in the passenger compartment

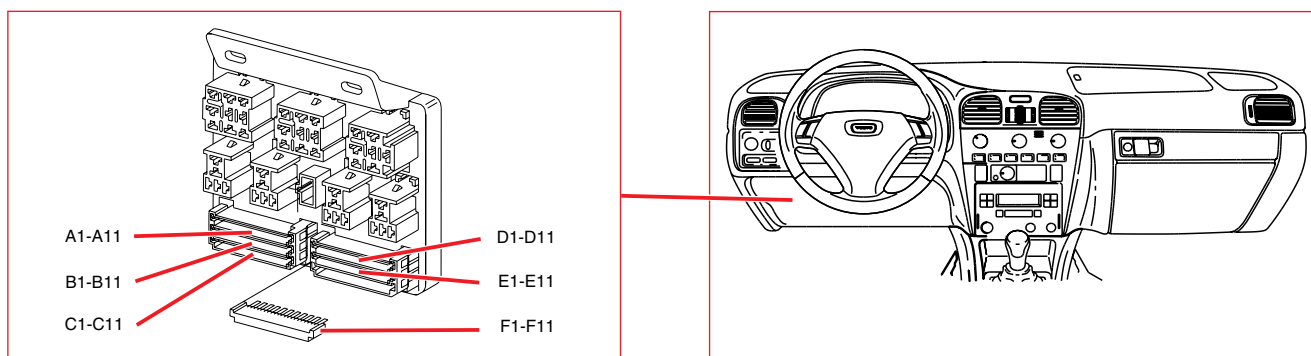
| Pos. | Relay function |                                                                   |
|------|----------------|-------------------------------------------------------------------|
| 3    | 4/35           | Control module, key-inserted warning/seat belt reminder, USA, KOR |
| 4    | 2/7            | Starter motor relay                                               |
| 5    | 2/18           | Relay, power windows                                              |
| 6    | 2/41           | Relay, cigarette lighter, USA, CDN, AUS                           |
| 7    | 2/51           | Relay, key-inserted warning                                       |

### Other relays

| Pos. | Relay function |                                             |
|------|----------------|---------------------------------------------|
| -    | 2/19           | Relay, passenger compartment fan max. speed |
| -    | 2/23           | Relay, shift lock                           |

## Distribution rails

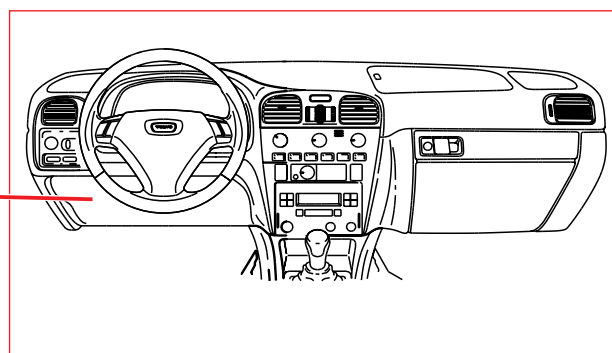
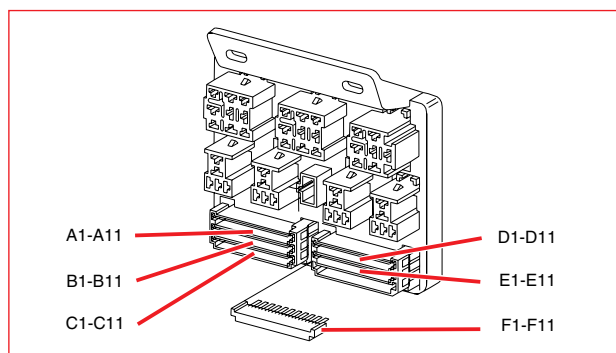
### 15/1 - 15/3



| 15/1 Distribution rail, dimmer for lighting |            |                                                   |
|---------------------------------------------|------------|---------------------------------------------------|
| A1                                          | 4/38_B2:22 | Central Electronic Module CEM                     |
| A2                                          | 9/1:1      | Cigarette lighter                                 |
| A3                                          | 3/23:1     | Switch, reduced alarm                             |
|                                             | 3/57:3     | Switch, retractable door mirrors                  |
| A4                                          | 4/9:1.7    | Climate Control Module (CCM)                      |
| A5                                          | 10/42:2    | Lighting, gear selector, automatic transmission   |
|                                             | 10/43:1    | Lighting, automatic transmission program selector |
|                                             | 3/63:3     | Switch, gas/gasoline drive, Bifuel                |
| A6                                          | 3/25:4     | Switch, child safety lock                         |

| 15/2 Distribution rail, central locking |           |                                                     |
|-----------------------------------------|-----------|-----------------------------------------------------|
| B1                                      | 4/39_B:12 | Control module for locks and alarm, VGLA            |
| B2                                      | 6/55:2    | Lock motor, fuel filler flap, EU/OS                 |
|                                         | 6/32:1    | Central locking, trunk lid/tailgate EU/OS           |
| B3                                      | 6/30:1    | Central locking, rear driver's side door            |
|                                         | 6/38:2    | Central locking with deadlocks, rear driver's side  |
| B4                                      | 6/31:1    | Central locking, rear passenger side                |
|                                         | 6/39:2    | Central locking with deadlocks, rear passenger side |
| B5                                      | 6/29:1    | Central locking, passenger door                     |
|                                         | 6/37:2    | Central locking with deadlock on passenger door     |
| B6                                      | 6/28:1    | Central locking, driver's door                      |
|                                         | 6/36:2    | Central locking with deadlock on driver's door      |
|                                         | 4/39_A:15 | Control module for locks and alarm, VGLA, USA       |

| 15/3 Distribution rail, central locking |          |                                                  |
|-----------------------------------------|----------|--------------------------------------------------|
| B8                                      | 11A/9    | Fuses in the engine compartment                  |
| B9                                      | 4/39_B:1 | Control module for locks and alarm, VGLA         |
| B10                                     | 4/40:5   | Receiver, VGLA                                   |
| B11                                     | 4/41:1   | Control module, ultrasonic glass breakage sensor |



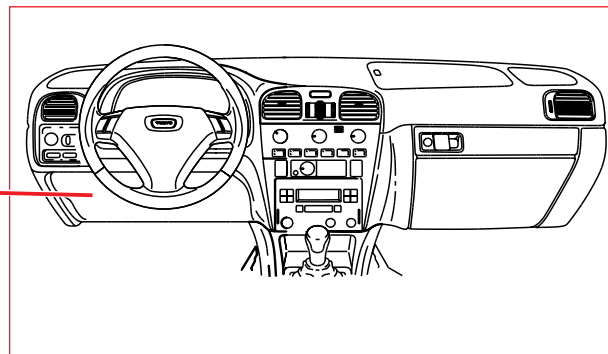
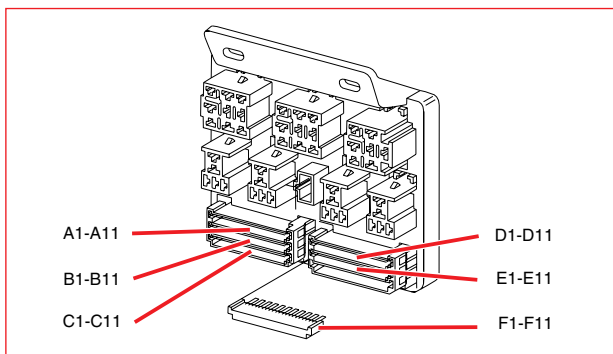
| 15/4 Distribution rail, central locking |          |                                                     |
|-----------------------------------------|----------|-----------------------------------------------------|
| C1                                      | 4/39_B:2 | Control module for locks and alarm, VGLA            |
| C2                                      | 6/55:1   | Lock motor, fuel filler flap, EU/OS                 |
|                                         | 6/32:2   | Central locking, trunk lid/tailgate                 |
| C3                                      | 6/30:2   | Central locking, rear driver's side door            |
|                                         | 6/38:1   | Central locking with deadlocks, rear driver's side  |
| C4                                      | 6/31:2   | Central locking, rear passenger side                |
|                                         | 6/39:1   | Central locking with deadlocks, rear passenger side |
| C5                                      | 6/28:2   | Central locking, driver's door                      |
|                                         | 6/36:1   | Central locking with deadlock on driver's door      |
| C6                                      | 6/29:2   | Central locking, passenger door                     |
|                                         | 6/37:1   | Central locking with deadlock on passenger door     |

| 15/5 Distribution rail LHD USA, KOR |           |                                                         |
|-------------------------------------|-----------|---------------------------------------------------------|
| C8                                  | 4/35:3    | Control module, key-inserted warning/seat belt reminder |
| C9                                  | 3/27:1    | Driver's door contact                                   |
| C10                                 | 4/39_A:23 | Control module for locks and alarm, VGLA                |

| 15/6 Distribution rail, ground connections |         |                                                     |
|--------------------------------------------|---------|-----------------------------------------------------|
| D1                                         | 3/25:5  | Switch, child safety lock                           |
| D3                                         | 31/1    | Ground connection                                   |
| D4                                         | 3/14:1  | Brake pedal contact, cruise control Diesel, Melco 2 |
|                                            | 3/63:1  | Switch, gas/gasoline drive, Bifuel                  |
|                                            | 3/57:1  | Switch, retractable door mirrors                    |
| D5                                         | 3/3:3   | Switch, direction indicators/high and low beams     |
| D6                                         | 17/1:4  | Data link connector                                 |
| D7                                         | 17/1:5  | Data link connector                                 |
| D8                                         | 4/9:1.8 | Climate Control Module (CCM)                        |
| D9                                         | 4/18:8  | Control module, electronic immobilizer              |
| D10                                        | 4/5:10  | Control module, cruise control                      |

## Distribution rails

### 15/5 - 15/6

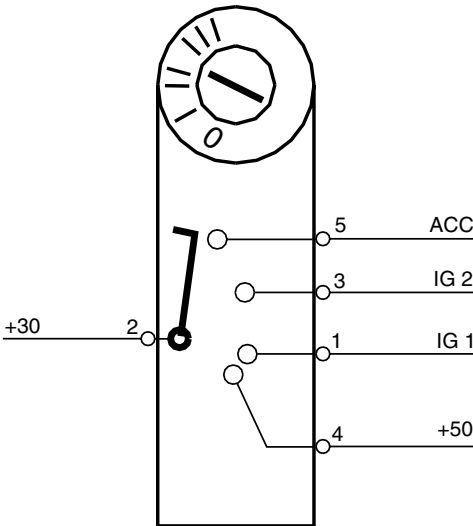
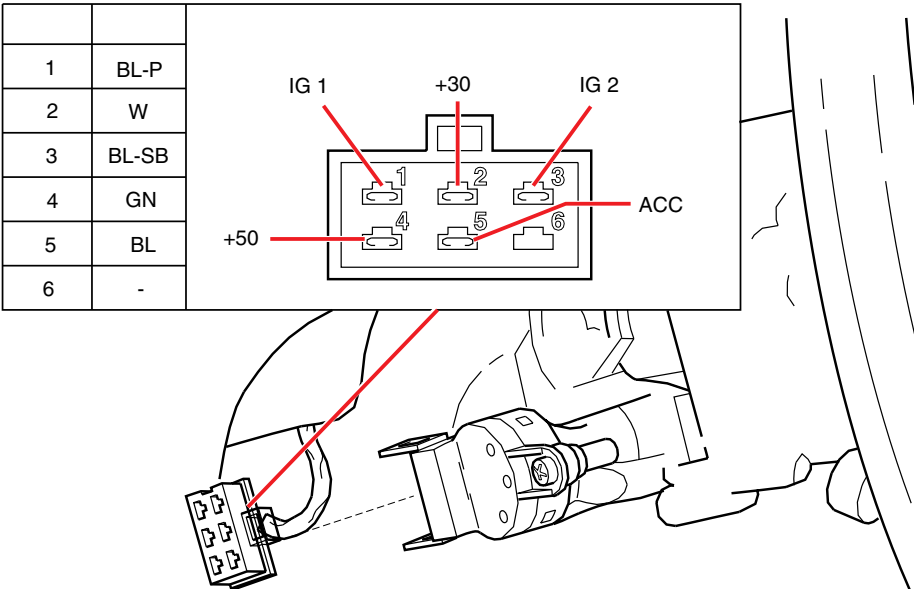


| 15/7 Distribution rail, diagnostics system |                                              |                                                                                                                                                  |
|--------------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| E1                                         | 5/1_B:3                                      | Combined instrument panel                                                                                                                        |
| E3                                         | 4/4:75                                       | Control module, Supplemental Restraint System (SRS)                                                                                              |
| E4                                         | 4/18:3                                       | Control module, electronic immobilizer                                                                                                           |
| E5                                         | 4/39_B:19                                    | Control module for locks and alarm, VGLA                                                                                                         |
| E6                                         | 4/27:13<br>4/3:14<br>4/26_C:15<br>4/75_J1:31 | Transmission Control Module TCM<br>Control module, Dynamic Stability Assistance (DSA)<br>Engine management system, Melco 2<br>Control module LPG |
| E7                                         | 4/38_B2:7                                    | Central Electronic Module CEM                                                                                                                    |
| E8                                         | 17/1:7                                       | Data link connector                                                                                                                              |
| E9                                         | 4/28:11                                      | ABS control module                                                                                                                               |
| E10                                        | 4/9:1.30                                     | Climate Control Module (CCM)                                                                                                                     |

| 15/8 Distribution rail, ground connections |                                     |                                                                                                                                                                |
|--------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F1                                         | 3/23:2                              | Switch, reduced alarm                                                                                                                                          |
| F3                                         | 31/1                                | Ground connection                                                                                                                                              |
| F4                                         | 9/8:5<br>6/50:5<br>3/34:3<br>3/37:3 | Heated door mirror, passenger door<br>Retractable passenger door mirror<br>Switch unit, passenger door power window<br>Switch, central locking, passenger door |
| F5                                         | 7/40:5                              | Vehicle inclination sensor                                                                                                                                     |
| F6                                         | 4/41:5<br>4/35:2                    | Control module, ultrasonic glass breakage sensor<br>Control module, key-inserted warning/seat belt reminder                                                    |
| F7                                         | 3/15:1<br>4/35:2                    | Clutch pedal contact, cruise control Diesel, Melco 2<br>Control module, key-inserted warning/seat belt reminder, USA, KOR                                      |
| F8                                         | 2/41:2                              | Relay, cigarette lighter, USA, CDN, AUS                                                                                                                        |
| F10                                        | 4/40:4                              | Receiver, VGLA                                                                                                                                                 |
| F11                                        | 2/18:2                              | Relay, power windows                                                                                                                                           |

# Electrical distribution

## Ignition switch



|     | +30 | ACC | IG 2 | IG 1 | +50 |
|-----|-----|-----|------|------|-----|
| 0   | X   |     |      |      |     |
| I   | X   | X   |      |      |     |
| II  | X   | X   | X    | X    |     |
| III | X   |     |      | X    | X   |

| Key position | Function                                                              | Current on connection    |
|--------------|-----------------------------------------------------------------------|--------------------------|
| 0 +30        | Constant current from battery                                         | 2                        |
| I Acc        | Option position (radio position)                                      | 2 and 5                  |
| II IG1 IG2   | Contact remains connected during start<br>Contact breaks during start | 1, 2, 3 and 5<br>1 and 2 |
| III +50      | Start                                                                 | 1, 2 and 4               |

## Ground connections

### 31/1 - 31/4

| 31/1                                                                               |                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 43/416<br>-44/17:3<br>-44/18:4<br>-31/2                                            | Junction point<br>-connector<br>-connector<br>-ground connection                                                                                                                                                        |
| 15/8:F3                                                                            | Distribution rail                                                                                                                                                                                                       |
| 15/6:D3                                                                            | Distribution rail, Bifuel                                                                                                                                                                                               |
| 43/401<br>-2/19:2<br>-4/14:2                                                       | Junction point<br>-relay, passenger compartment fan max. speed<br>-control module, passenger compartment fan speed control                                                                                              |
| 43/428<br>-3/27:2<br>-3/28:2<br>-7/12:1<br>-7/13:1<br>-8/25:3<br>-8/26:3<br>-9/1:3 | Junction point<br>-driver's door contact<br>-passenger door contact<br>-sensor, driver's seat temperature<br>-sensor, passenger seat temperature<br>-power driver's seat<br>-power passenger seat<br>-cigarette lighter |

| 31/2                                                  |                                                                                                        |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 4/38_B2:1                                             | Central Electronic Module CEM                                                                          |
| 44/41:3                                               | Connector                                                                                              |
| 44/9:7                                                | Connector                                                                                              |
| 4/39_A:1                                              | Control module for locks and alarm, VGLA                                                               |
| 43/416<br>-44/17:3<br>-44/18:4<br>-31/1<br>-11/2_J:14 | Junction point<br>-connector<br>-connector<br>-ground connection<br>-fuse box in passenger compartment |

| 31/3      |       |
|-----------|-------|
| 16/1_A:8  | Radio |
| 16/1_A:12 | Radio |

| 31/4                                                        |                                                                                                                                                                                        |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 43/317<br>-6/1:5<br>-6/54:2<br>-7/9:2<br>-9/12:2<br>-8/42:1 | Junction point<br>-windshield wiper motor<br>-vacuum pump, automatic transmission<br>-brake fluid level sensor<br>-crankcase breather, Bifuel, Turbo<br>-cut-off valve, engine, Bifuel |

| <b>31/4 Melco 2</b>                                           |                                                                                                                                                                           |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 43/328<br>-43/326<br>-4/33:14<br>-4/33:22<br>-7/9:2<br>-6/1:5 | Junction point<br>-junction point<br>-control module, fuel system Melco 2<br>-control module, fuel system Melco 2<br>-brake fluid level sensor<br>-windshield wiper motor |
| 43/376<br>-31/7<br>-43/321<br>-43/375                         | Junction point<br>-ground connection<br>-junction point<br>-junction point                                                                                                |

| <b>31/4 Diesel</b>                                    |                                                                                                                                   |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 43/331<br>-4/26:L3<br>-4/26:L4<br>-4/26:M4<br>-7/50:6 | Junction point<br>-engine management system<br>-engine management system<br>-engine management system<br>-mass airflow sensor MAF |
| 43/330<br>-6/1:5<br>-9/10A<br>-9/12:2<br>-7/9:2       | Junction point<br>-windshield wiper motor<br>-fuel preheater<br>-crankcase breather<br>-brake fluid level sensor                  |

| <b>31/5</b> |         |
|-------------|---------|
| 1/1         | Battery |

| <b>31/6</b>                                          |                                                                                  |
|------------------------------------------------------|----------------------------------------------------------------------------------|
| 43/353<br>-43/351<br>-43/354<br>-44/20:4<br>-20/16:- | Junction point<br>-junction point<br>-junction point<br>-connector<br>-capacitor |

| <b>31/7 EMS</b>                                                            |                                                                                                                                                                                                              |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 43/305<br>-43/302<br>-4/3:9<br>-4/26:3<br>-4/26:28<br>-4/26:33<br>-4/26:67 | Junction point<br>-junction point<br>-control module, dynamic stability assistance (DSA)<br>-engine management system<br>-engine management system<br>-engine management system<br>-engine management system |

## Ground connection

### 31/7 - 31/10

| 31/7 Melco 2                          |                                                                            |
|---------------------------------------|----------------------------------------------------------------------------|
| 43/376<br>-31/4<br>-43/321<br>-43/375 | Junction point<br>-ground connection<br>-junction point<br>-junction point |

| 31/7 Bifuel                                                                                     |                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 43/305<br>-4/26:3<br>-4/26:28<br>-4/26:33<br>-4/26:67<br>-4/75_J2:20<br>-4/75_J2:19<br>-44/1:16 | Junction point<br>-engine management system<br>-engine management system<br>-engine management system<br>-engine management system<br>-control module LPG<br>-control module LPG<br>-connector |

| 31/8                                                                      |                                                                                                                                                                                                         |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 43/342<br>-43/337<br>-43/347<br>-6/9:1<br>-6/26:1<br>-10/84:3<br>-10/11:2 | Junction point<br>-junction point<br>-junction point<br>-motor, electric cooling fan, Melco 2<br>-motor, two-speed cooling fan, EMS 2000 Turbo, Diesel<br>-left-hand headlight<br>-FL side marker light |

| 31/9                                                                         |                                                                                                                                                   |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 43/340<br>-43/344<br>-4/28:16<br>-4/28:19<br>-8/35:6<br>-10/10:3<br>-10/12:2 | Junction point<br>-junction point<br>-ABS control module<br>-ABS control module<br>-alarm siren<br>-right-hand high beam<br>-FR side marker light |

| 31/10 S40                                                                                                |                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 43/615<br>-44/19:2<br>-44/32:2<br>-10/64_1:4<br>-10/64_2:5<br>-3/29:2<br>-6/14:6<br>-10/17:5<br>-10/28:2 | Junction point<br>-connector<br>-connector<br>-RL lamp housing<br>-RL lamp housing<br>-contact, RL door<br>-power antenna<br>-auxiliary brake light<br>-RL side marker light |

| <b>31/11 V40</b>                                                  |                                                                                                                            |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 43/614<br>-10/65_1:4<br>-10/65_2:5<br>-3/30:2<br>-10/29:2<br>-9/2 | Junction point<br>-RR lamp housing<br>-RR lamp housing<br>-contact, RR door<br>-RR side marker light<br>-temperature gauge |
| 8/43:A                                                            | Cut-off valve, tank, Bifuel                                                                                                |

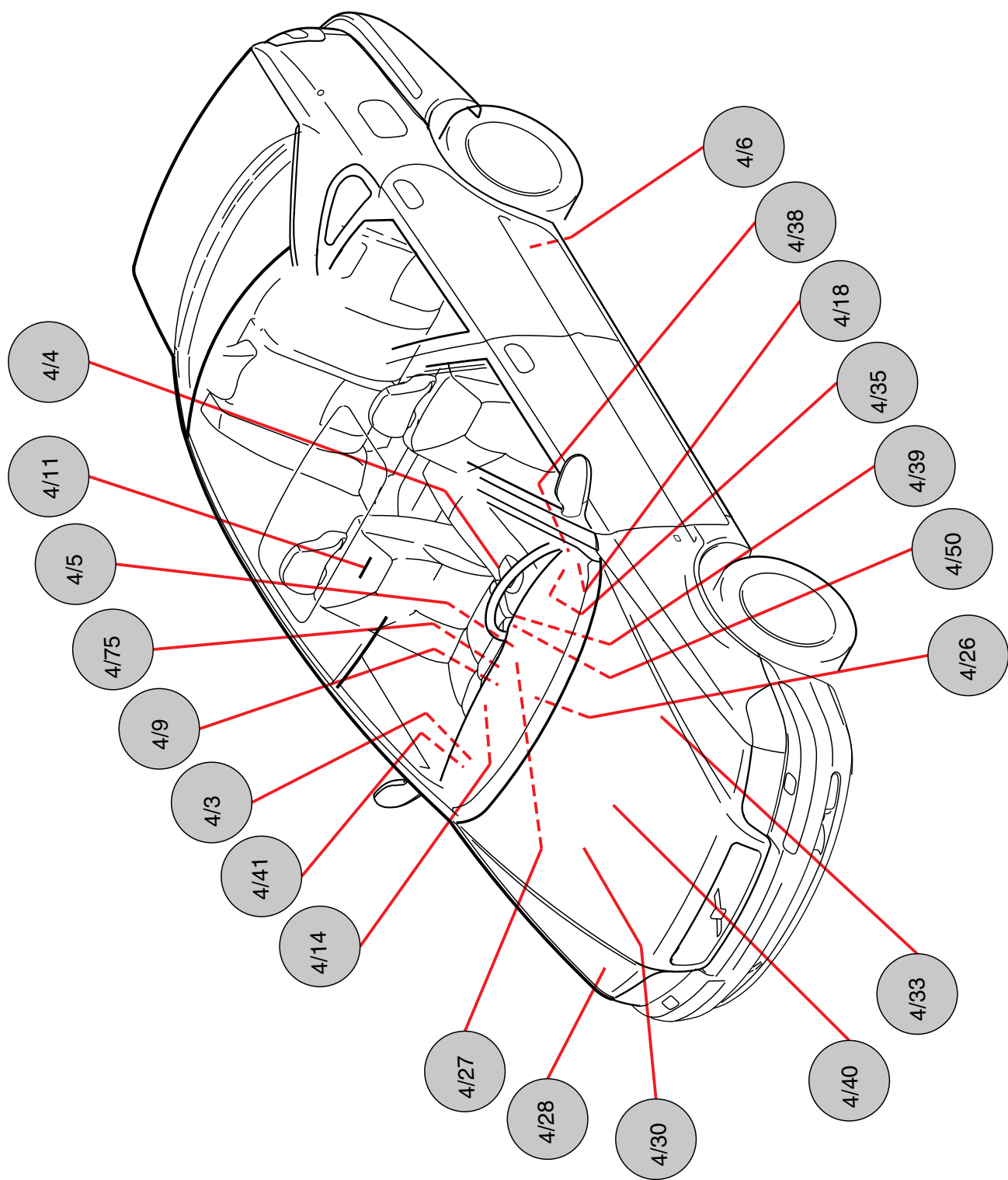
| <b>31/12 V40</b>                                                              |                                                                                                                                   |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 43/610<br>-10/28:2<br>-10/64:4<br>-44/19:2<br>-3/29:2<br>-3/30:2<br>-44/13:21 | Junction point<br>-RL side marker light<br>-RL lamp housing<br>-connector<br>-contact, RL door<br>-contact, RR door<br>-connector |
| 44/33:2                                                                       | Connector                                                                                                                         |

| <b>31/13 V40</b>                |                                                                                |
|---------------------------------|--------------------------------------------------------------------------------|
| 10/65:4                         | Rear right lamp housing                                                        |
| 16/18_2:3                       | Bass speaker passive/active                                                    |
| 43/621<br>-8/43:1<br>-16/18_2:3 | Junction point, Bifuel<br>-cut-off valve, tank<br>-bass speaker passive/active |

| <b>31/14 Melco 2</b>                                                             |                                                                                                                              |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 43/326<br>-43/328<br>-4/30_1:2<br>-4/30_2:2<br>-4/30_3:2<br>-4/30_4:2<br>-7/64:4 | Junction point<br>-junction point<br>-ignition coils<br>-ignition coils<br>-ignition coils<br>-ignition coils<br>-IGF sensor |

| <b>31/15</b> |         |
|--------------|---------|
| 1/1          | Battery |

Control modules  
Overview

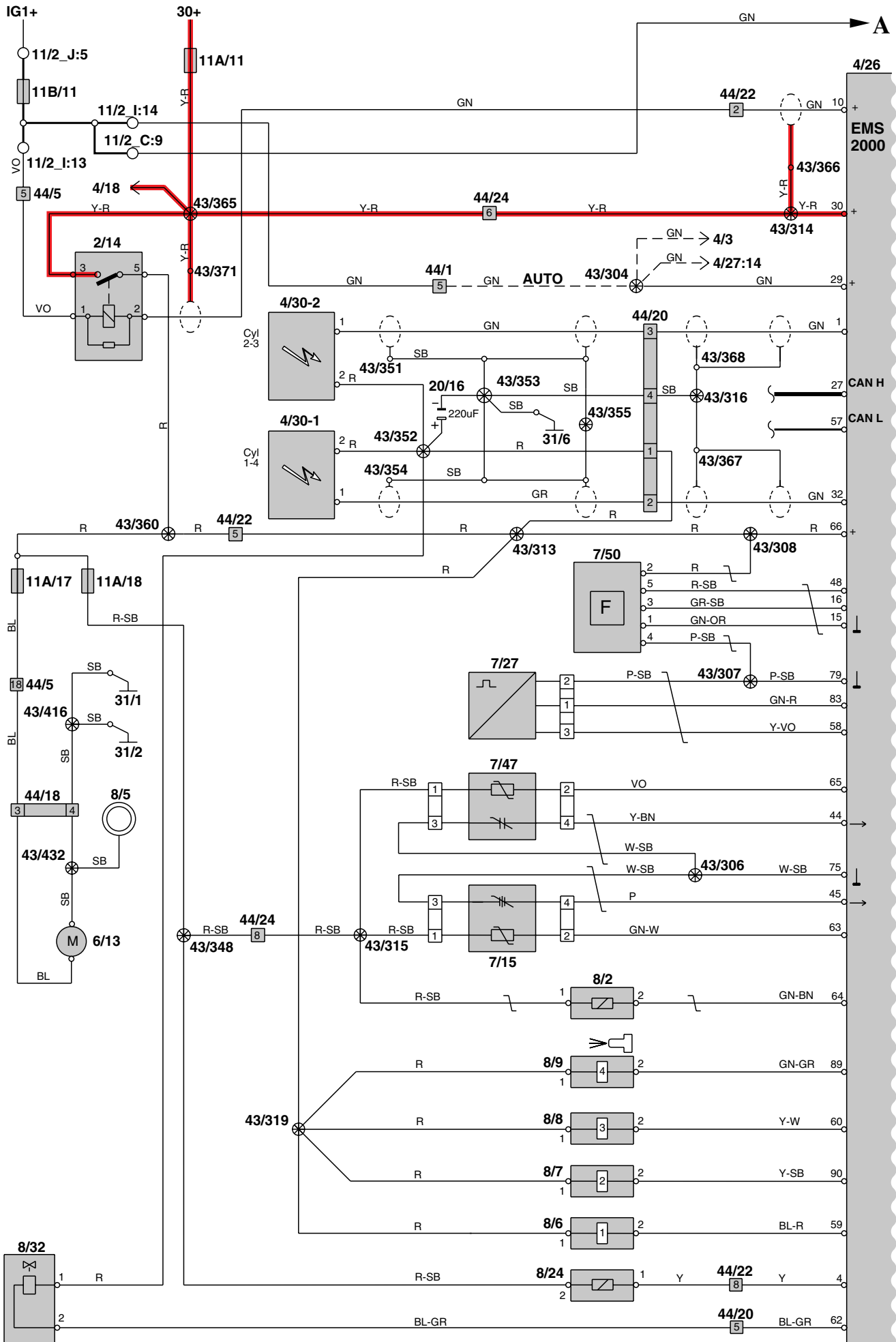


## Control modules Overview

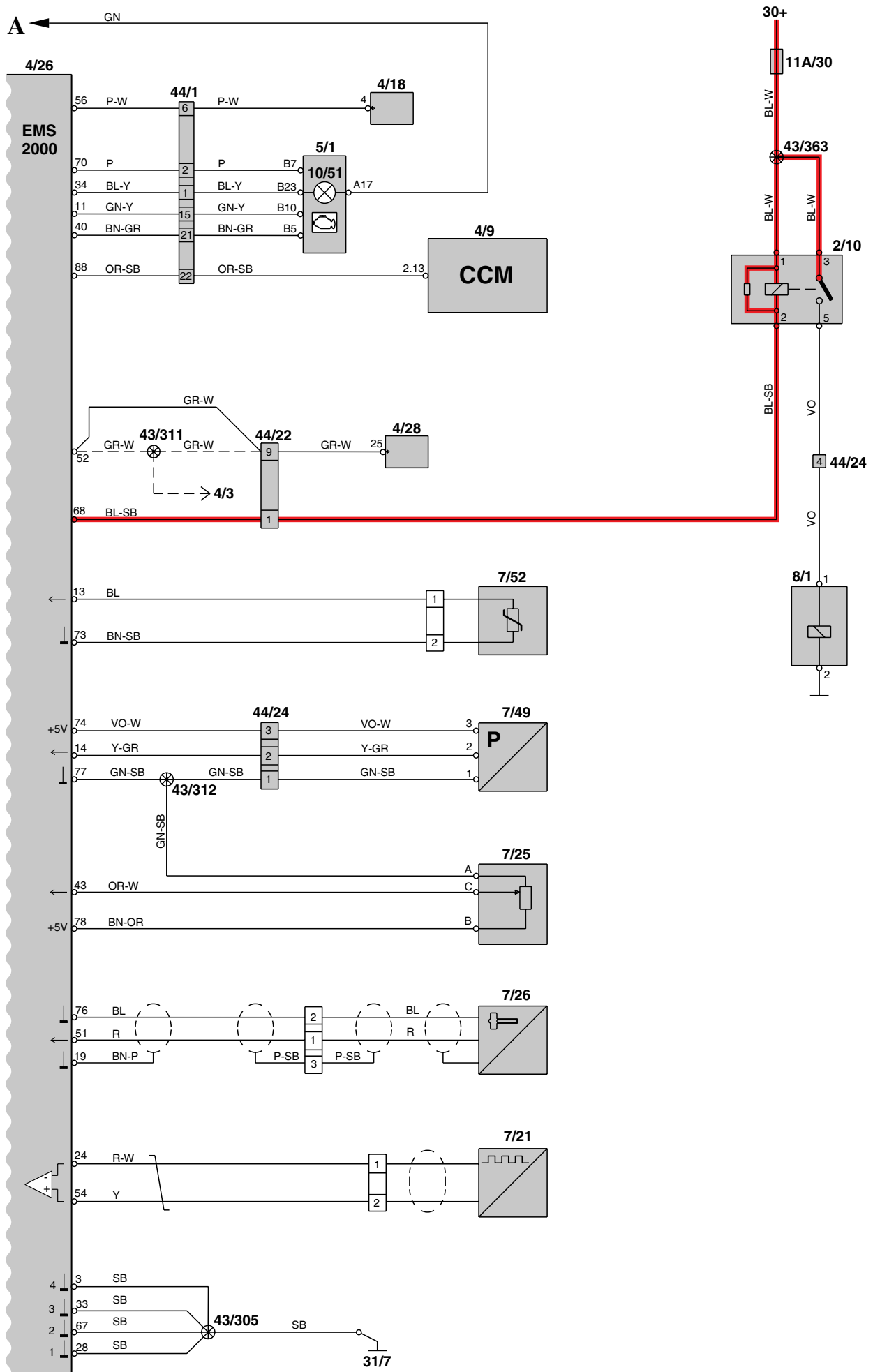
| Unit | Designation                                             |
|------|---------------------------------------------------------|
| 4/3  | Control module, Dynamic Stability Assistance (DSA)      |
| 4/4  | Control module, Supplemental Restraint System (SRS)     |
| 4/5  | Control module, cruise control                          |
| 4/6  | Control module, xenon lamps                             |
| 4/9  | Climate Control Module (CCM)                            |
| 4/11 | Control module, power sunroof                           |
| 4/14 | Control module, passenger compartment fan speed control |
| 4/18 | Control module, electronic immobilizer                  |
| 4/26 | Engine management system                                |
| 4/27 | Transmission Control Module TCM                         |
| 4/28 | ABS control module                                      |
| 4/30 | Ignition coils                                          |
| 4/33 | Control module, fuel system Melco 2                     |
| 4/35 | Control module, key-inserted warning/seat belt reminder |
| 4/38 | Central Electronic Module CEM                           |
| 4/39 | Control module for locks and alarm, VGLA                |
| 4/40 | Receiver, VGLA                                          |
| 4/41 | Control module, ultrasonic glass breakage sensor        |
| 4/50 | Control module, fuel throttle body                      |
| 4/75 | Control module LPG                                      |

# Group 23

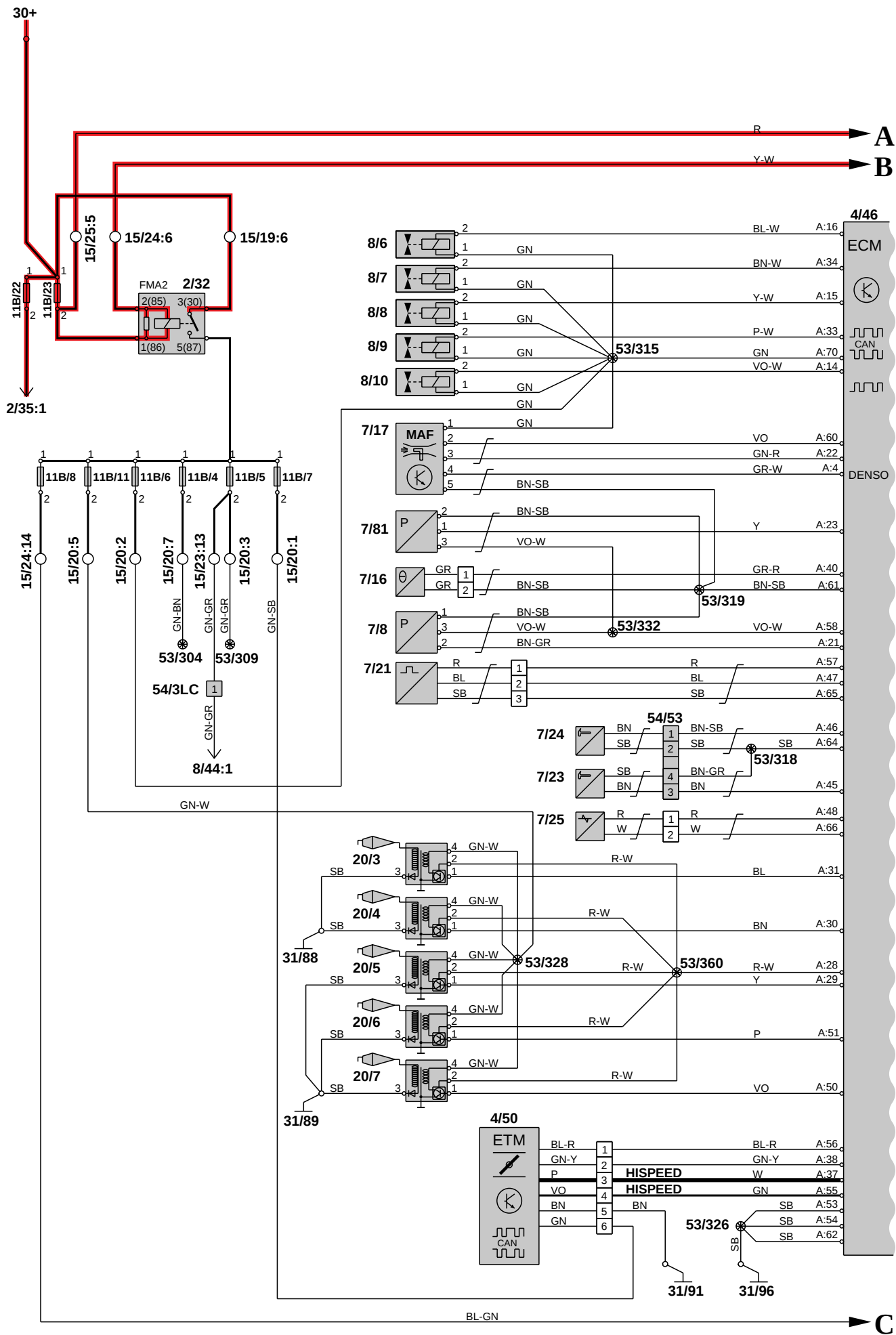
## Engine management system, EMS 2000



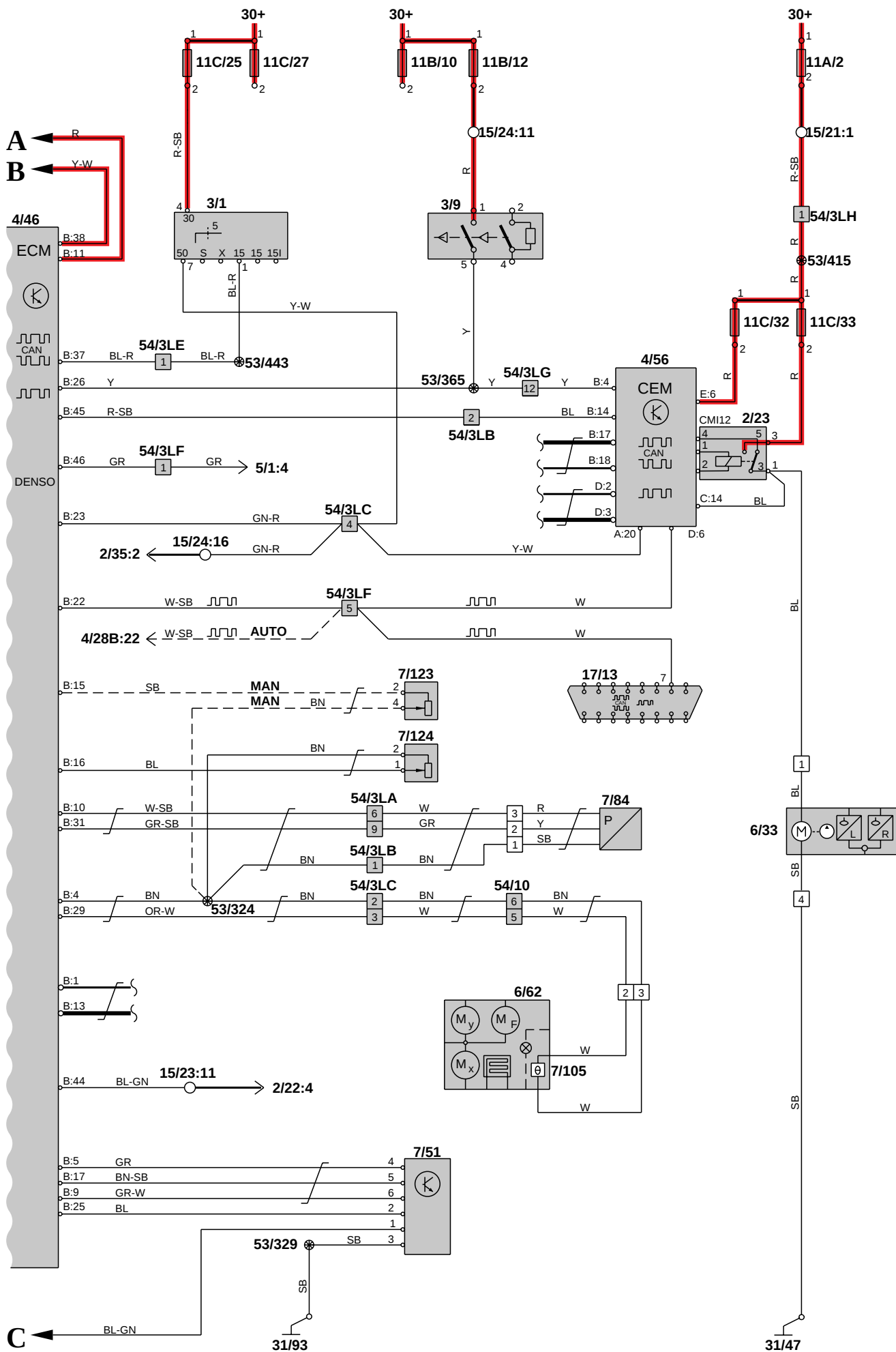
# Engine management system, EMS 2000



## Engine management system Denso

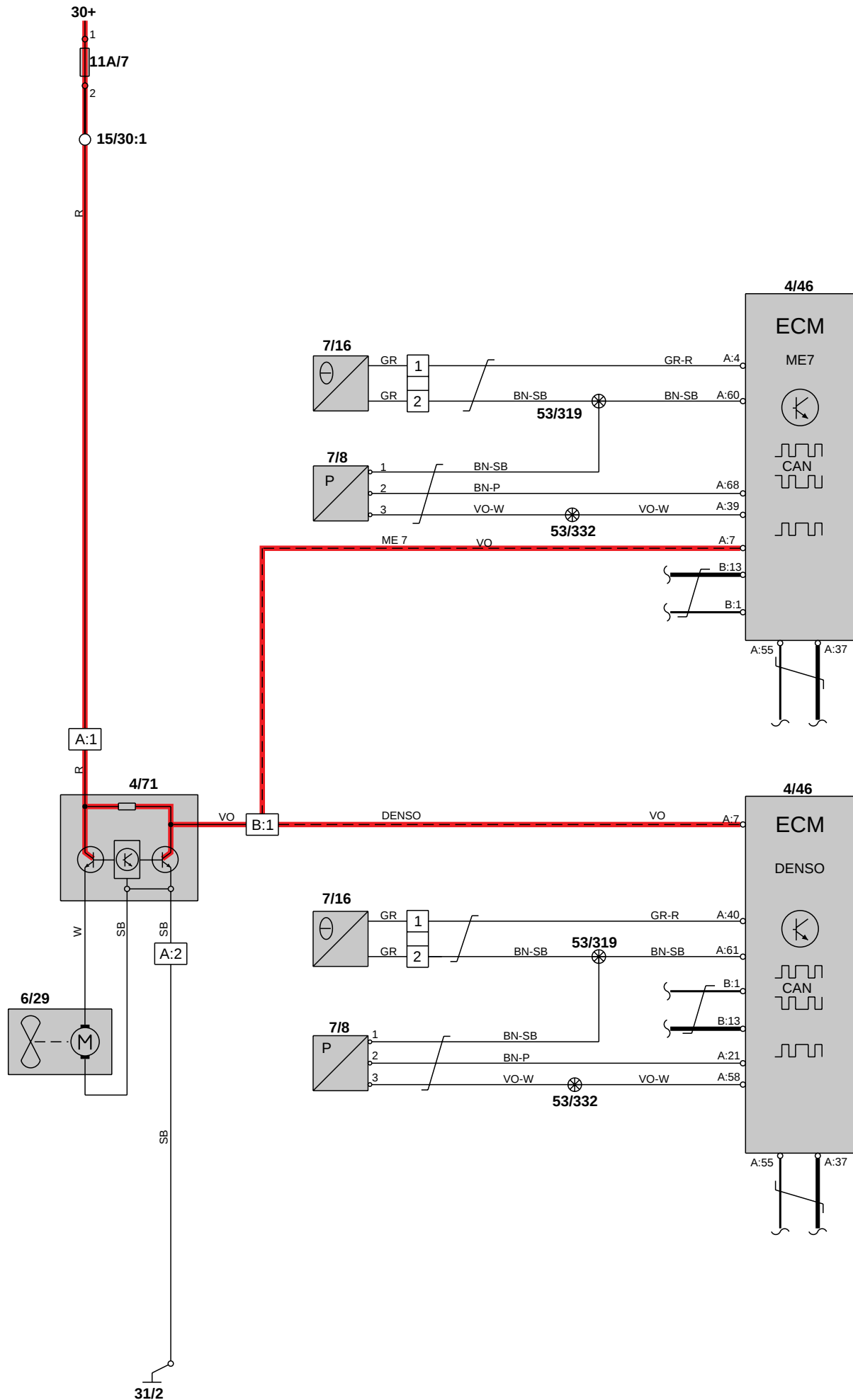


# Engine management system Denso

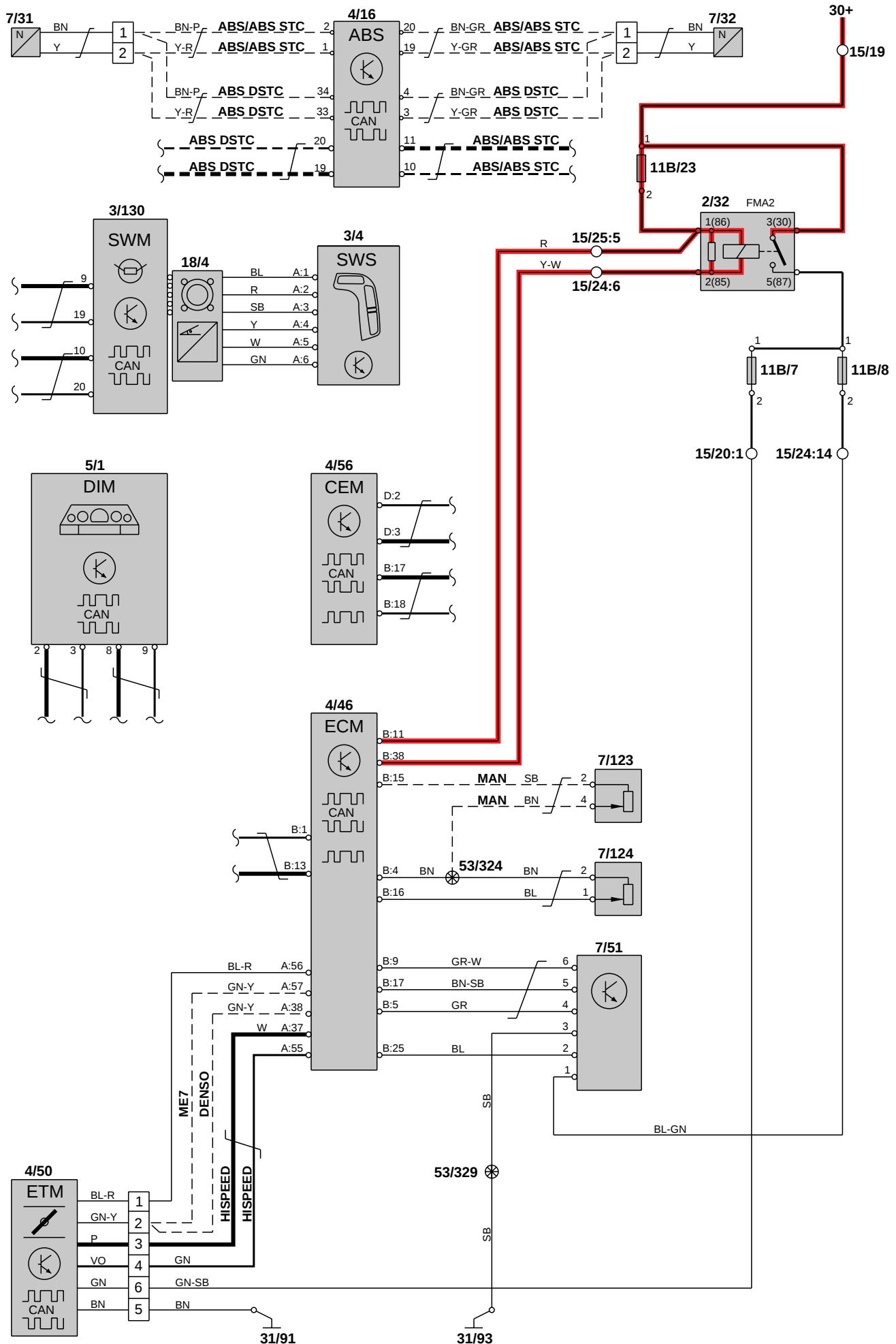


# Group 26

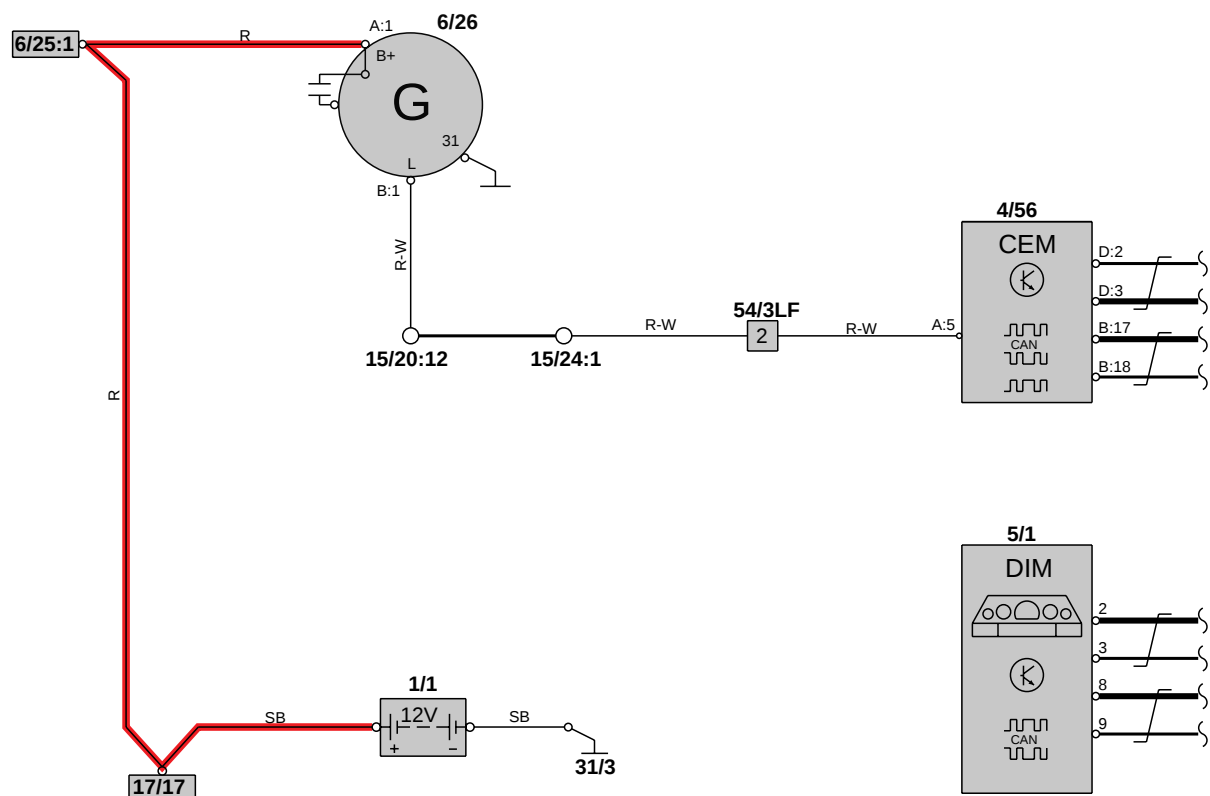
## Electric cooling fan



# Group 27 Cruise control

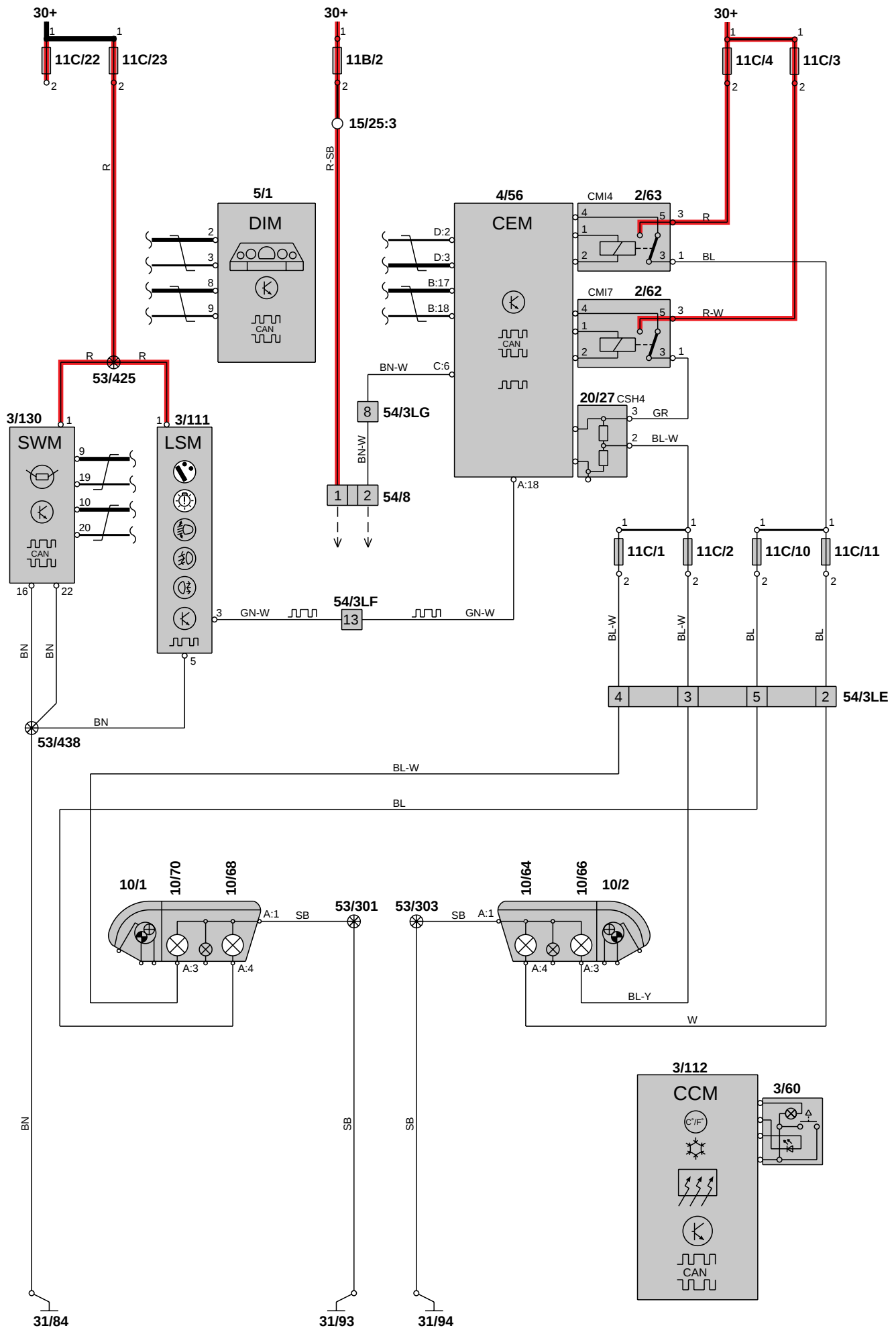


Group 32  
Power supply

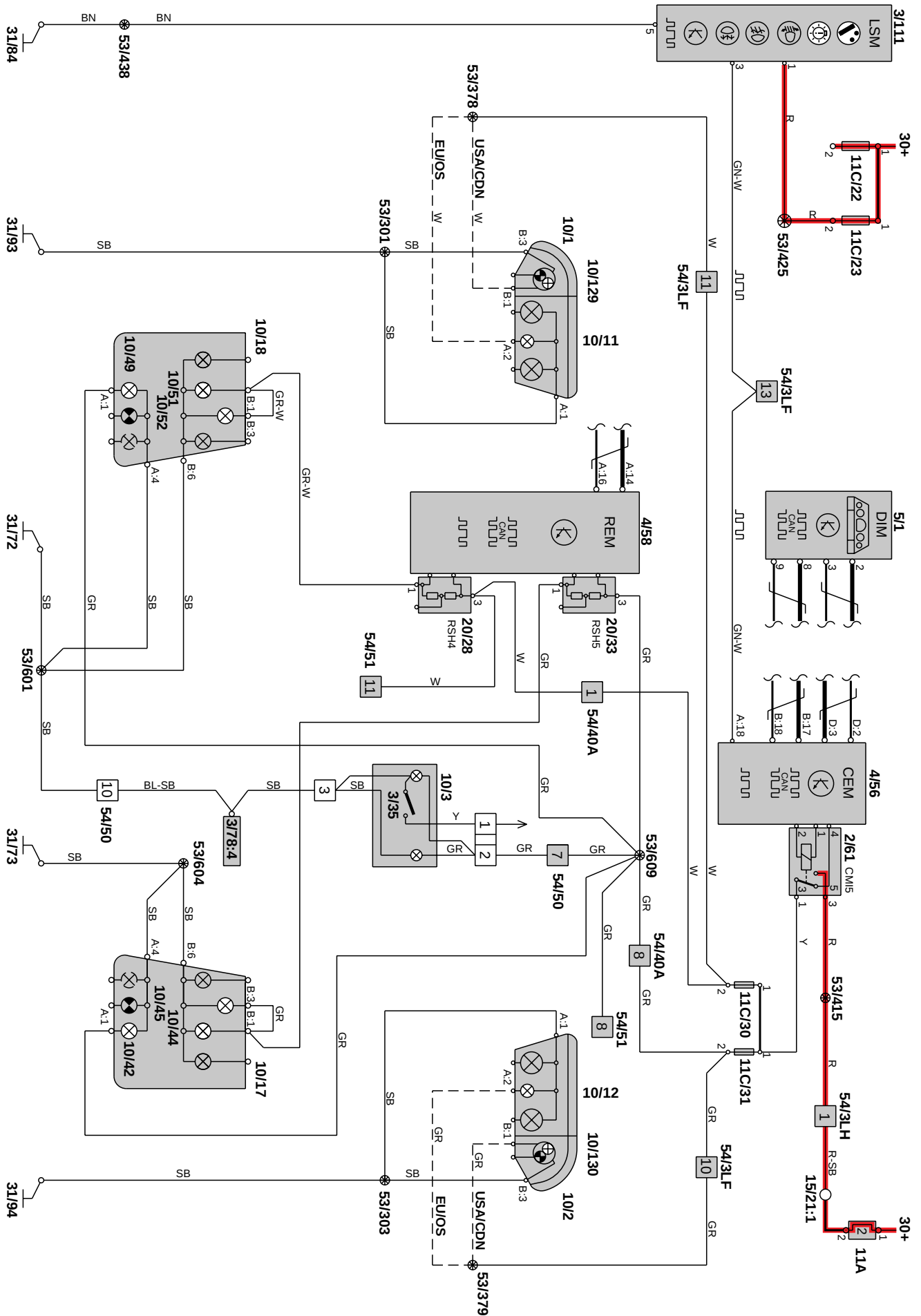


## Group 35

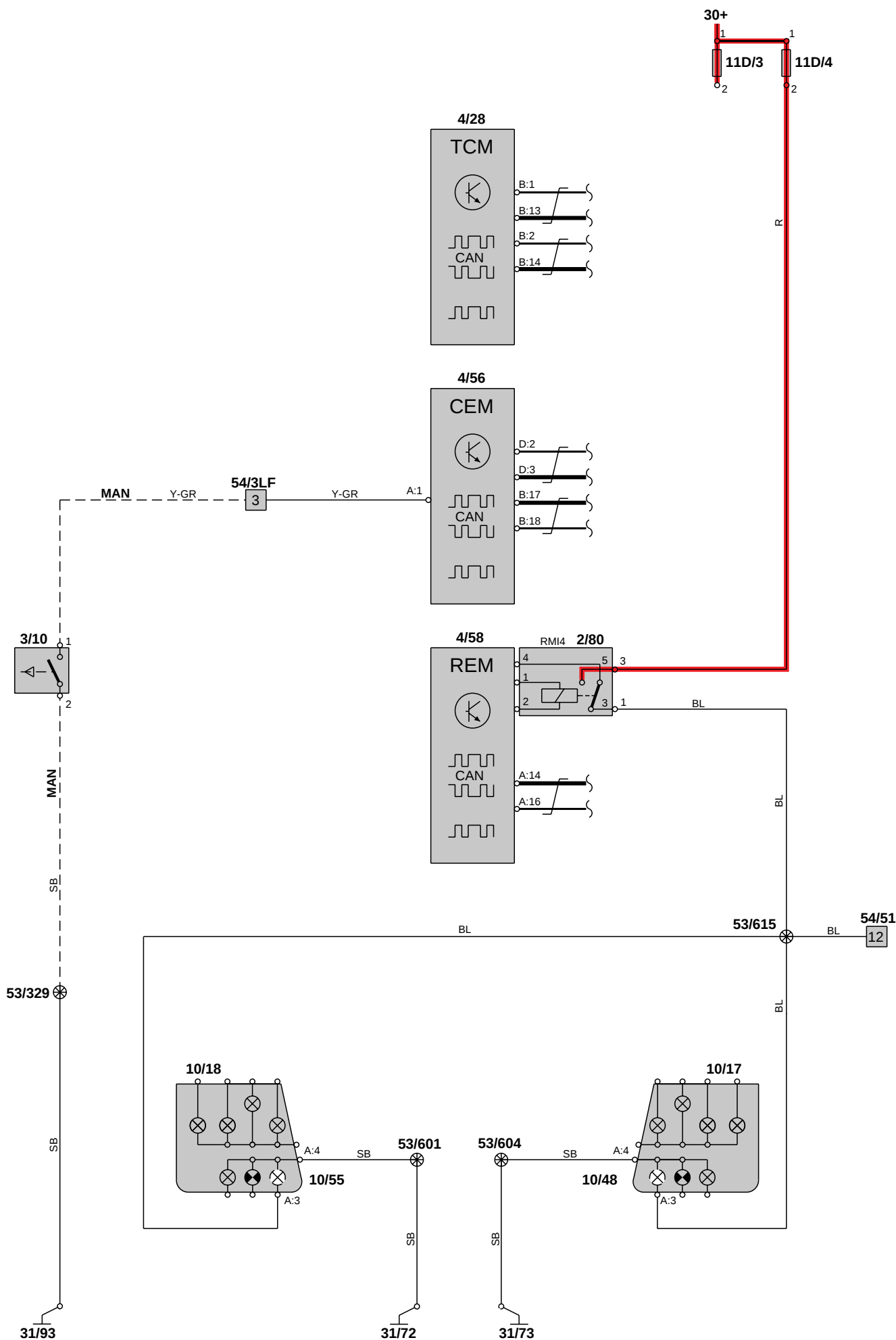
### High beam, low beam and auxiliary light wiring

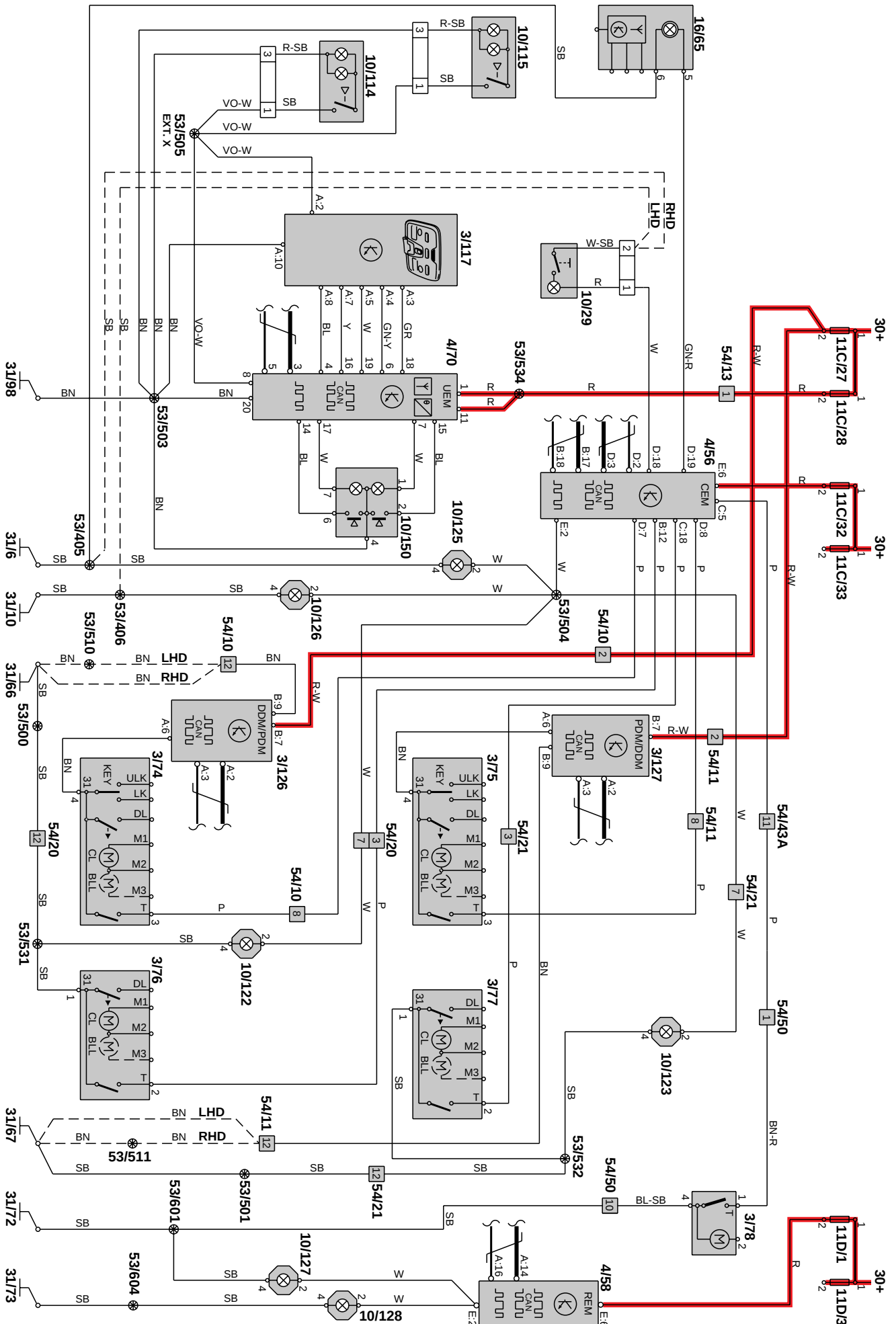


## Parking light, tail lights and license plate lighting

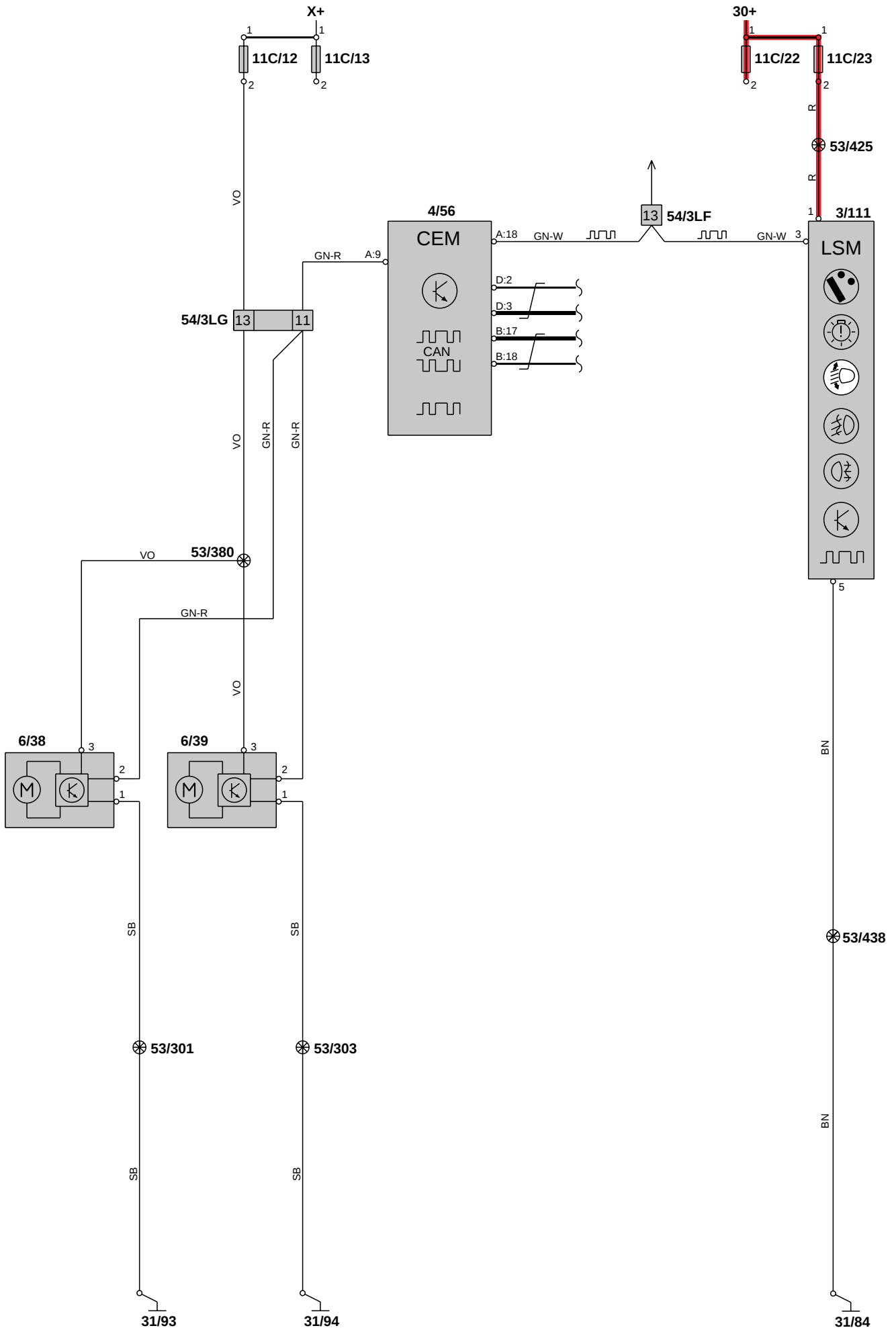


Reversing lights

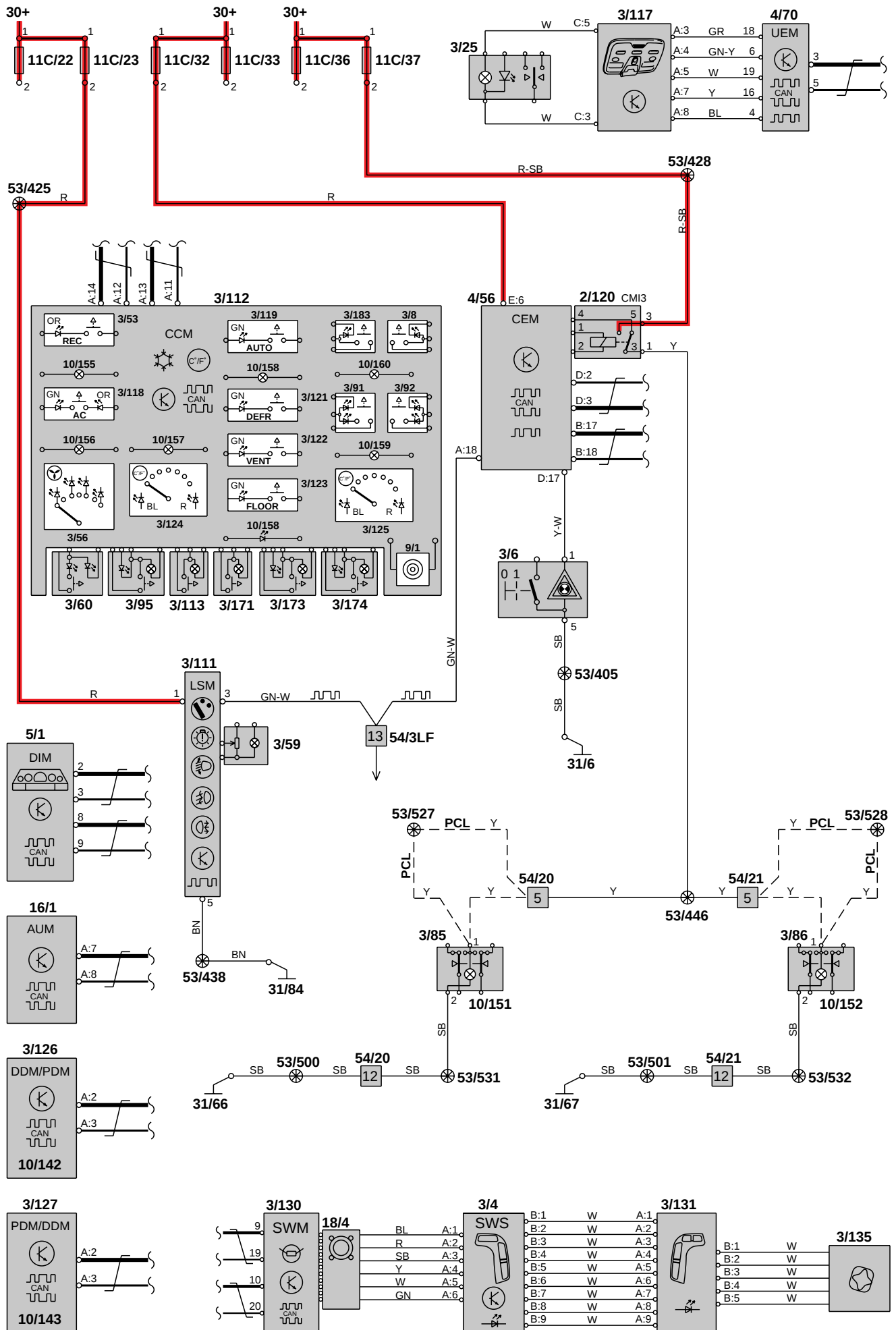




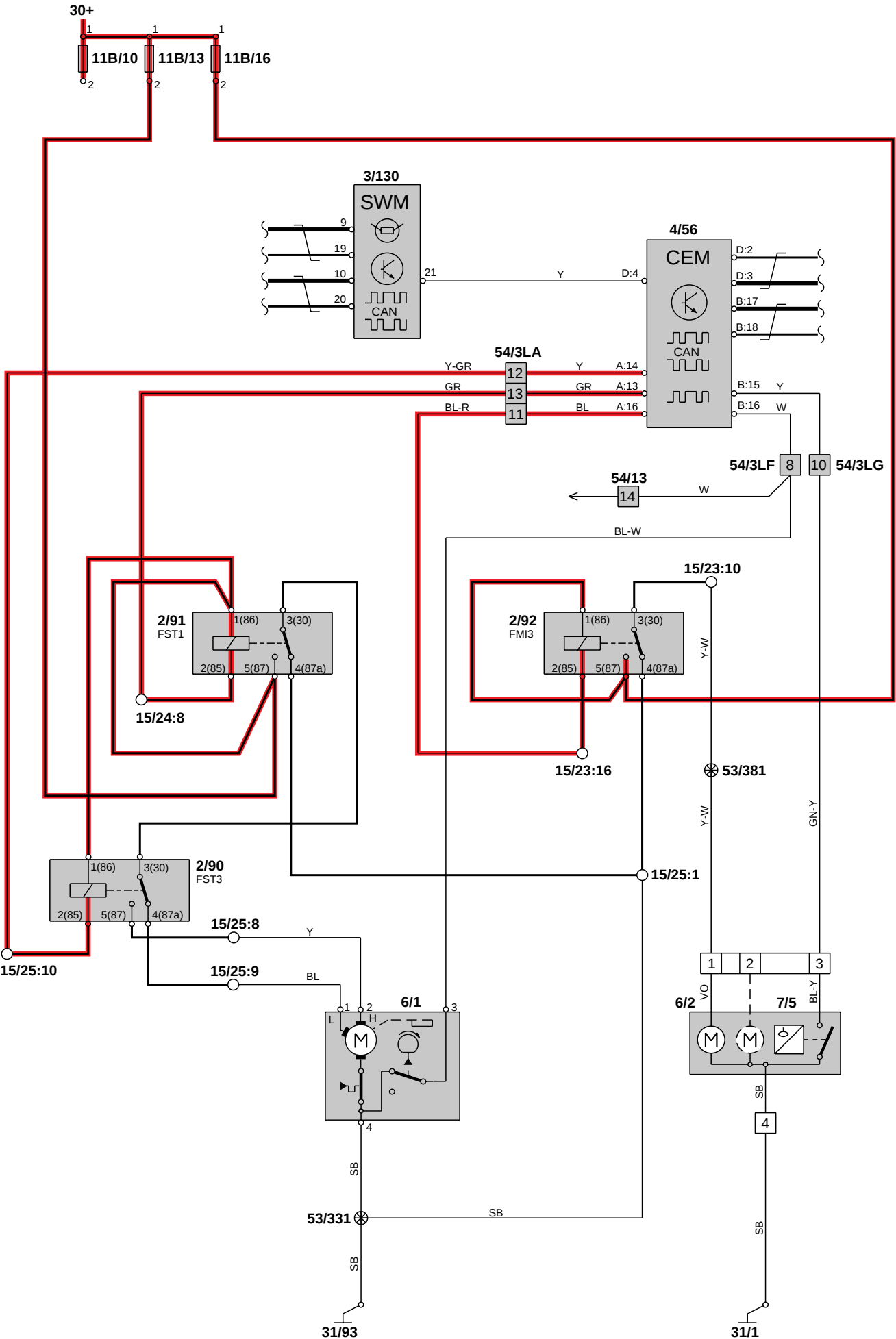
# Beam length adjustment



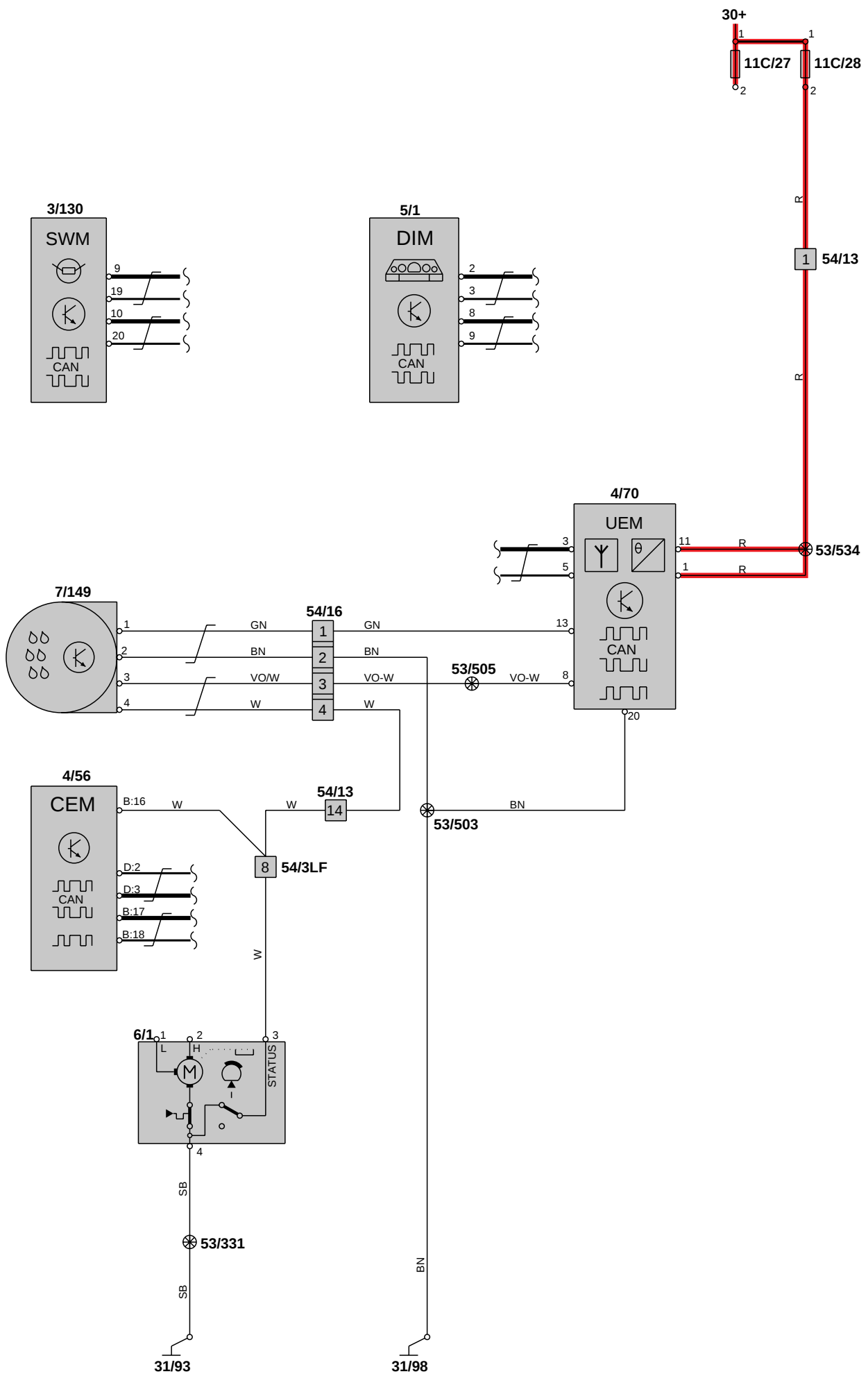
# Instrument and control lighting



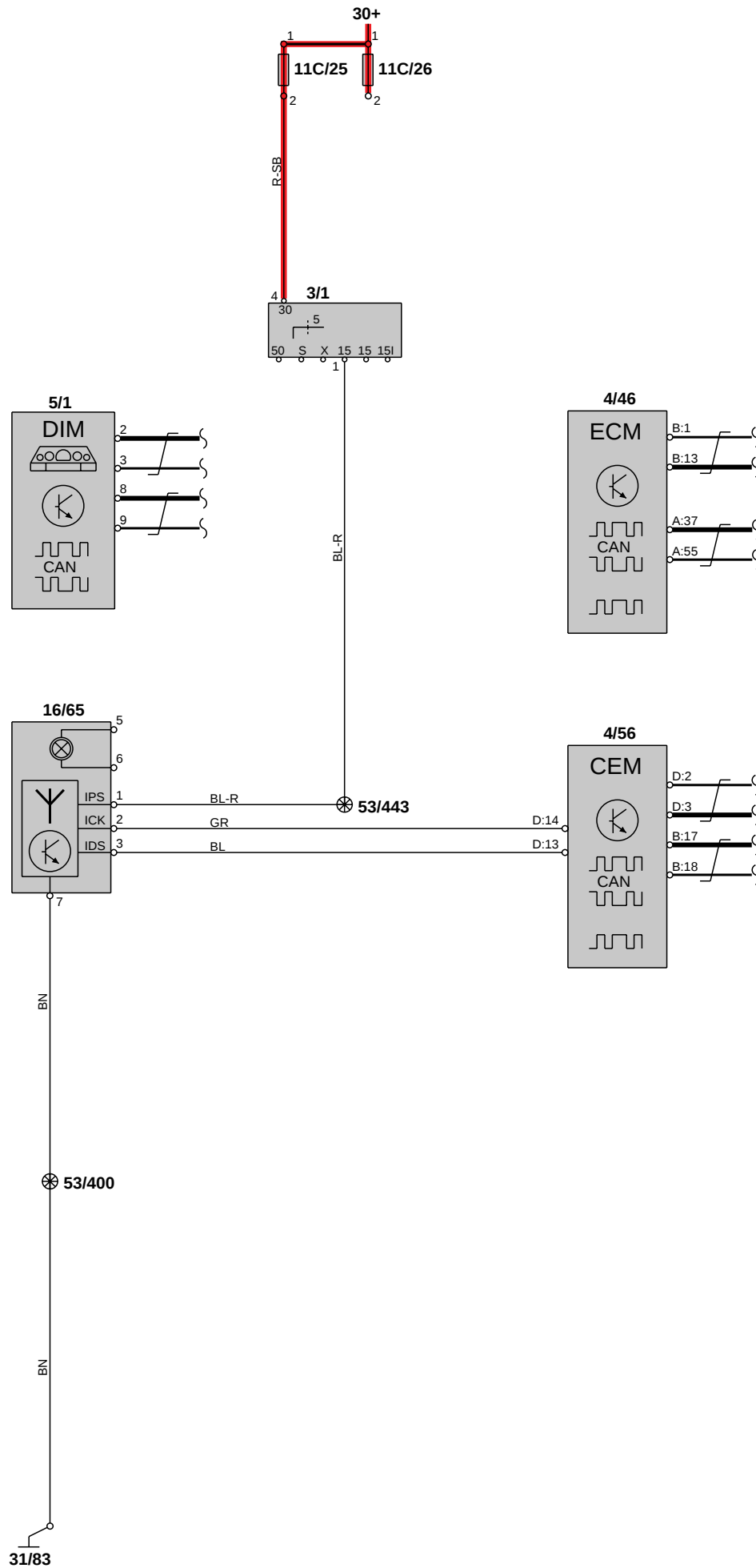
Wiper/Washer, Windshield

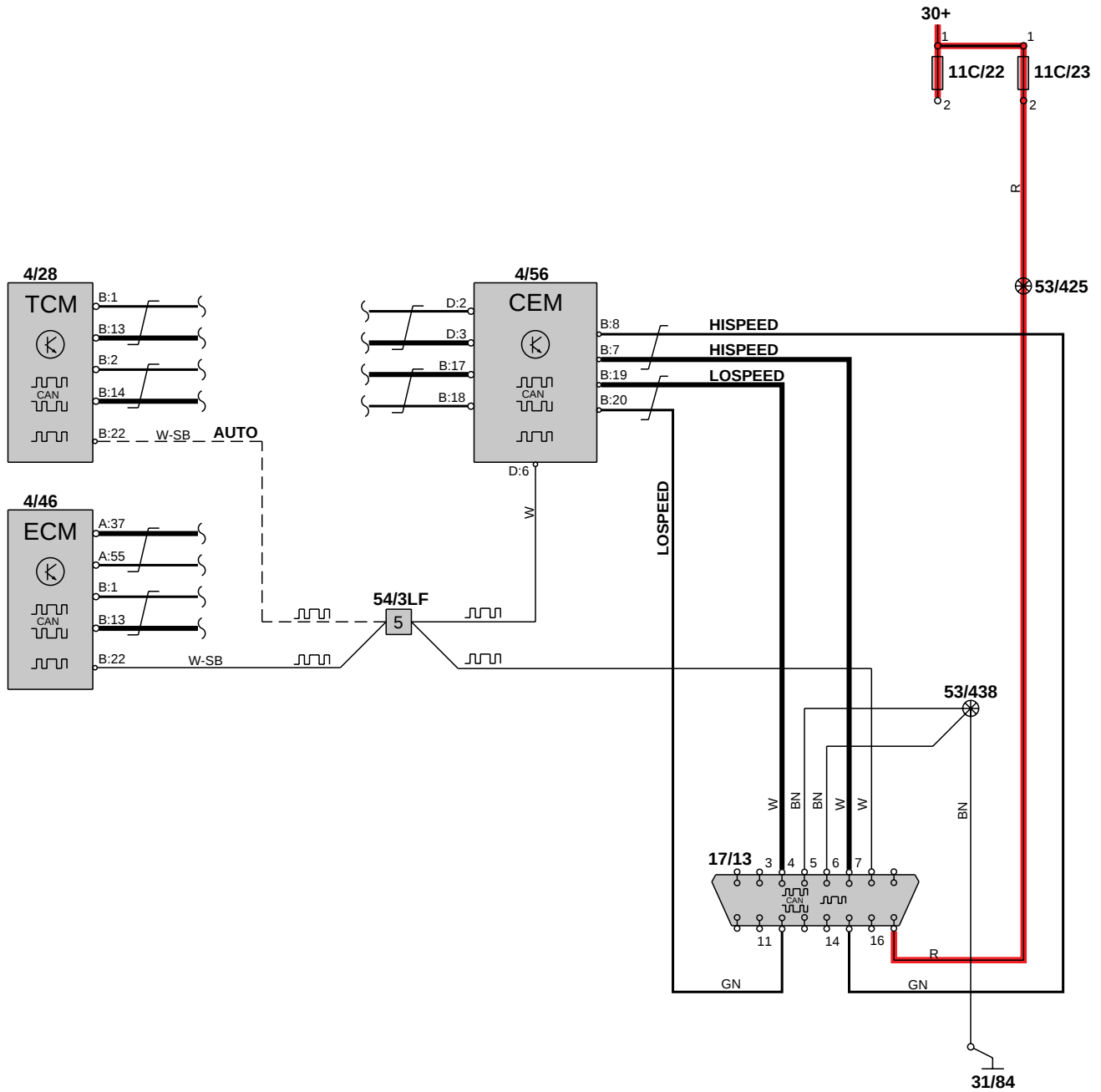


## Rain sensor

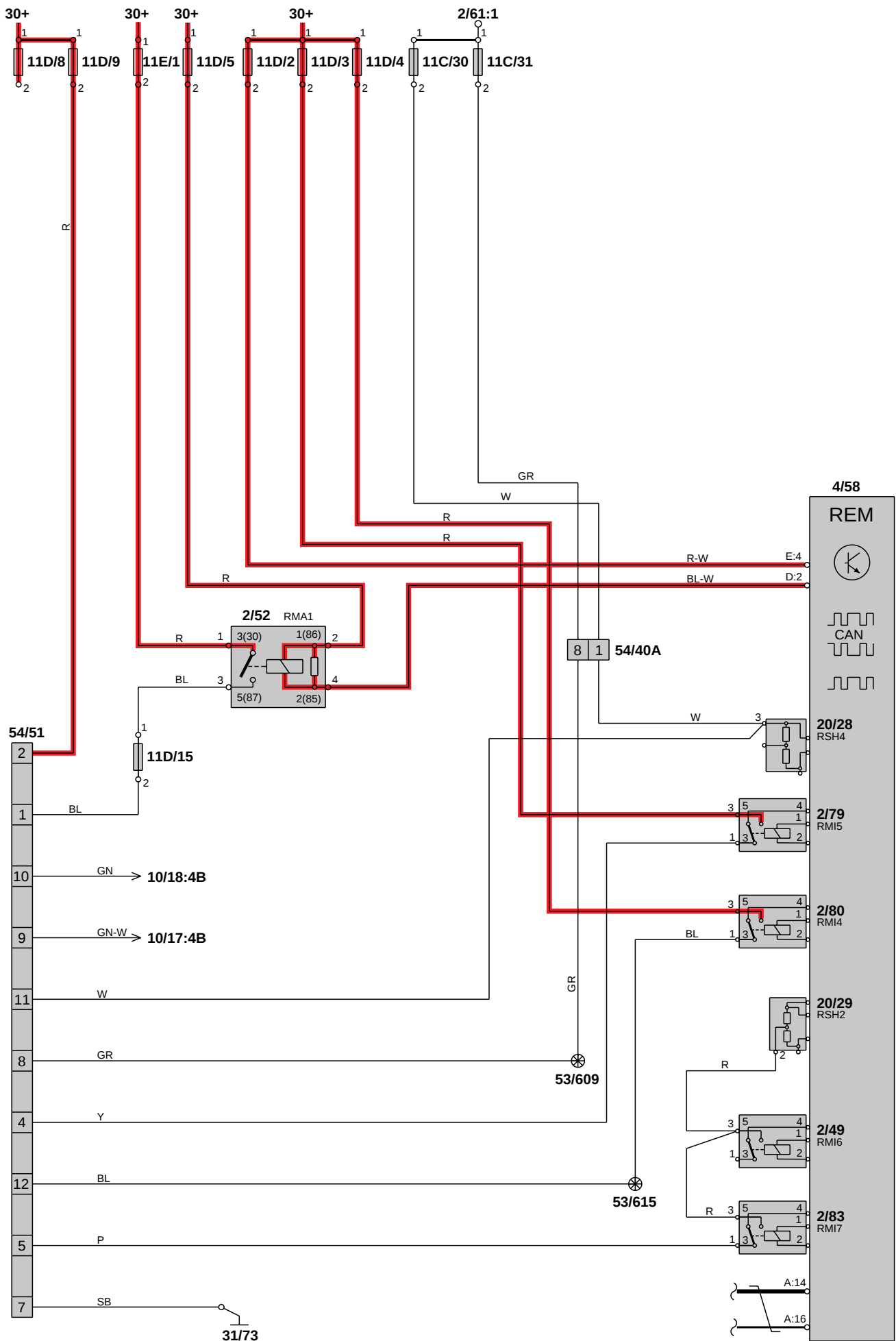


## Electronic immobilizer

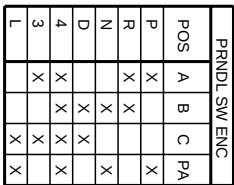




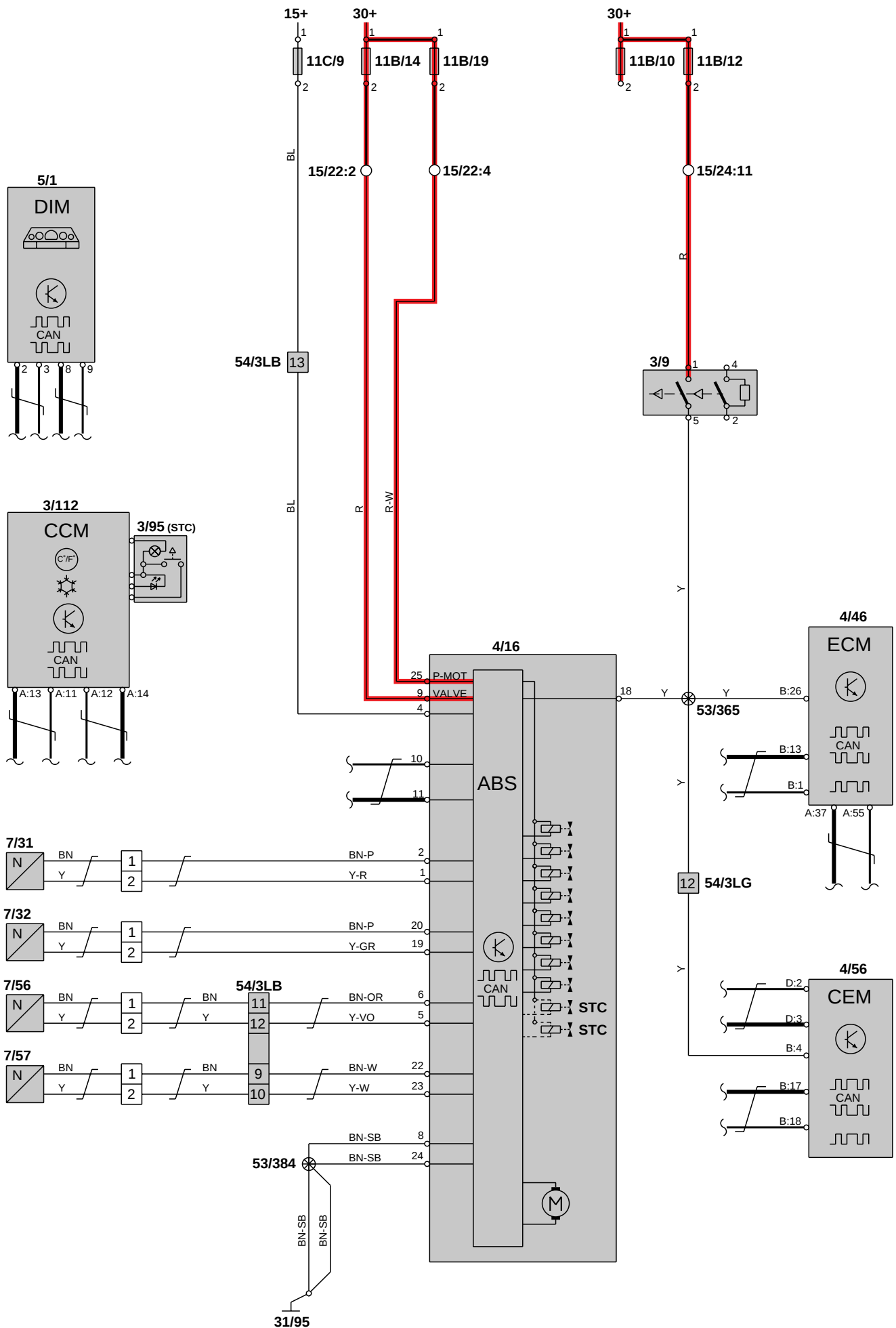
## Towing bracket wiring



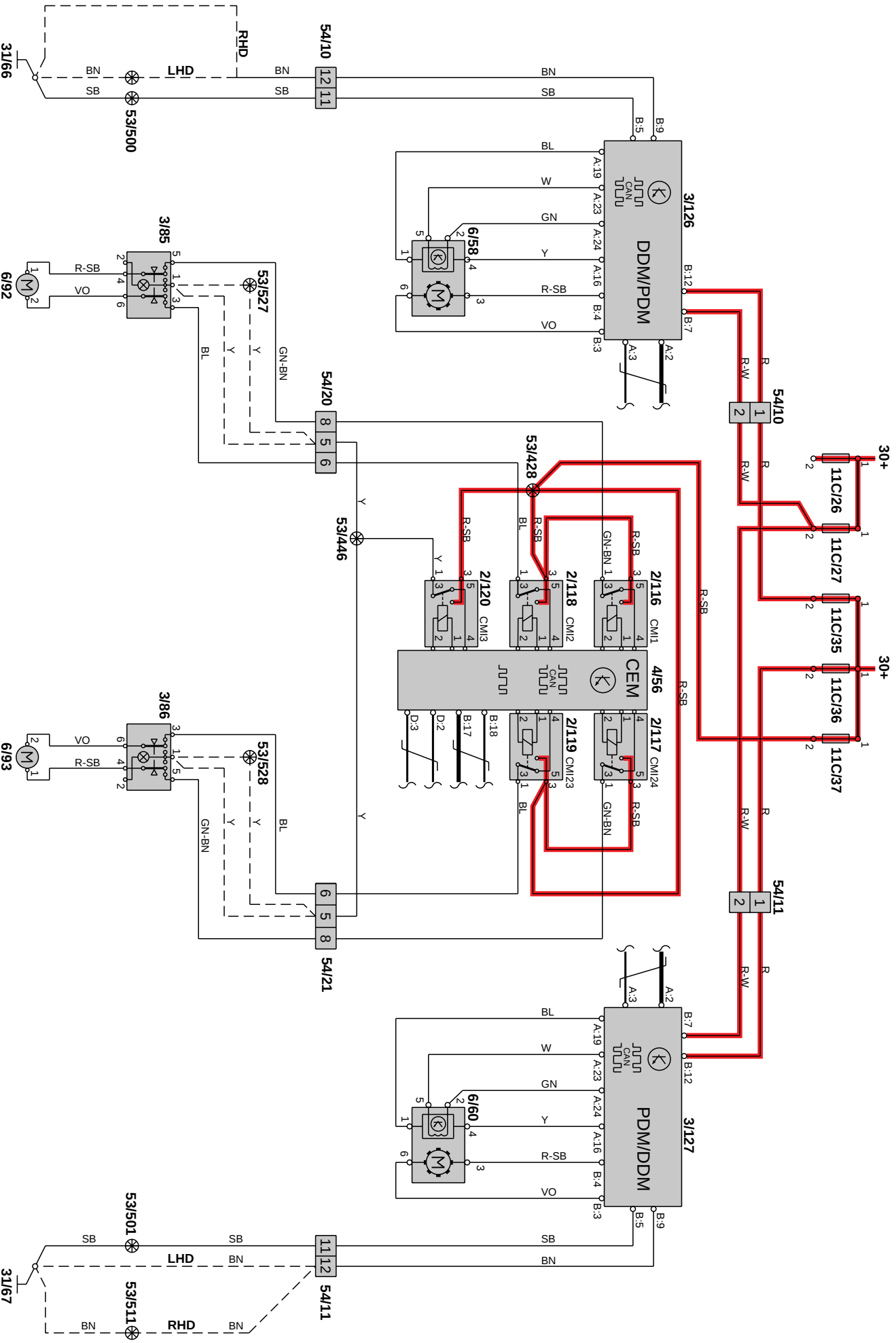
## Electronically controlled automatic transmission, AW 55-50



# Group 59 ABS and STC

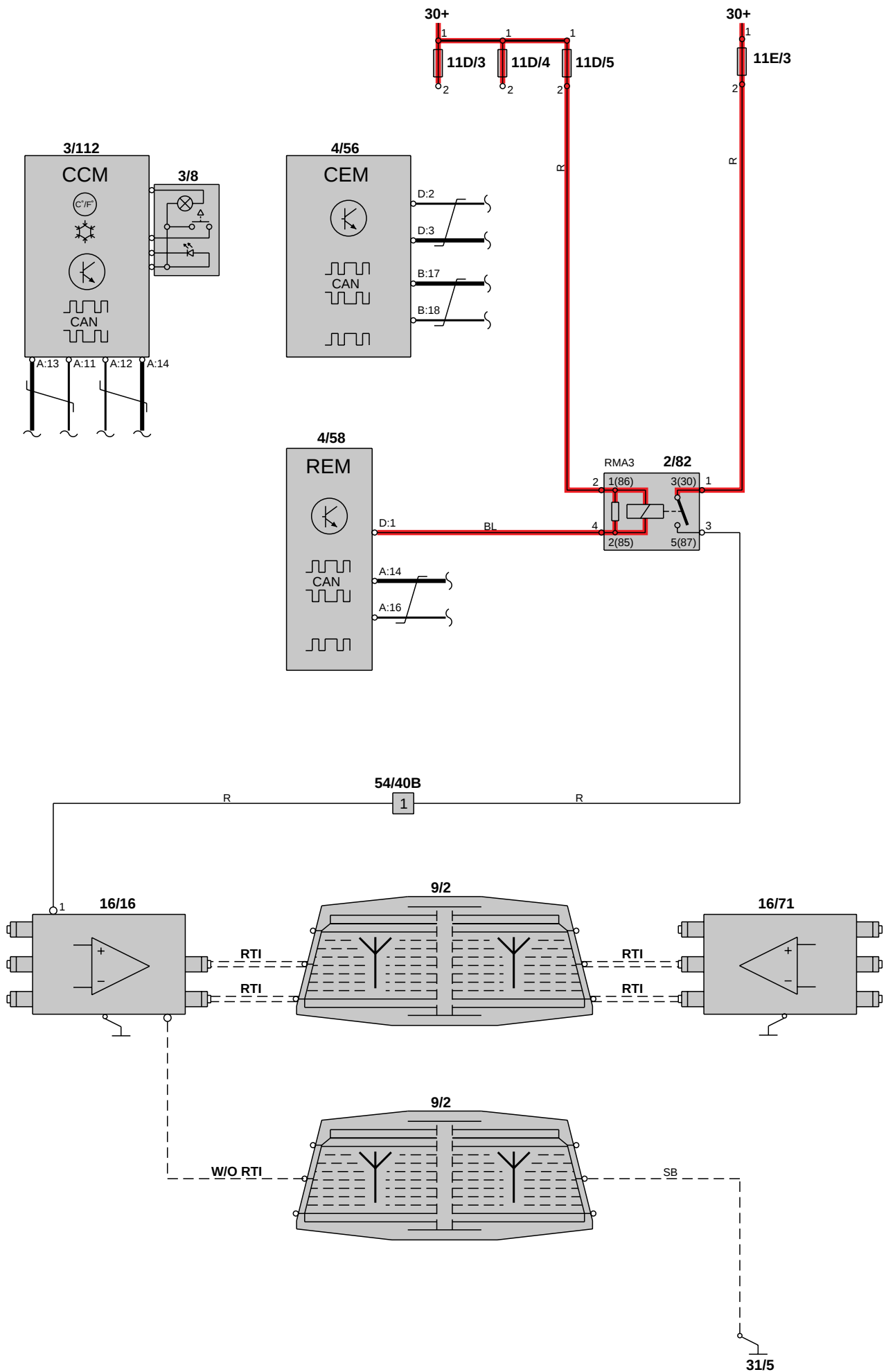


Group 83  
Power windows

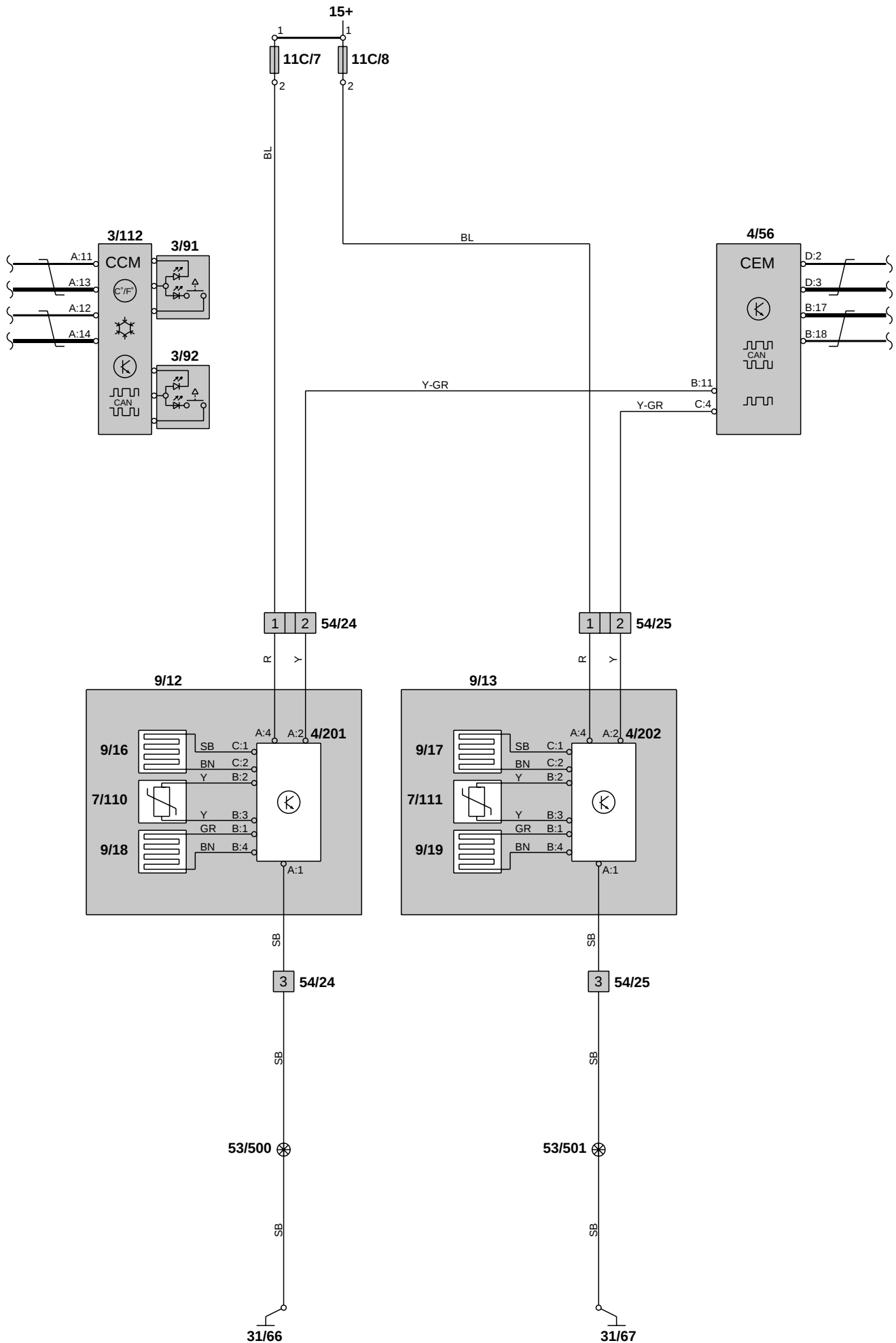


# Group 84

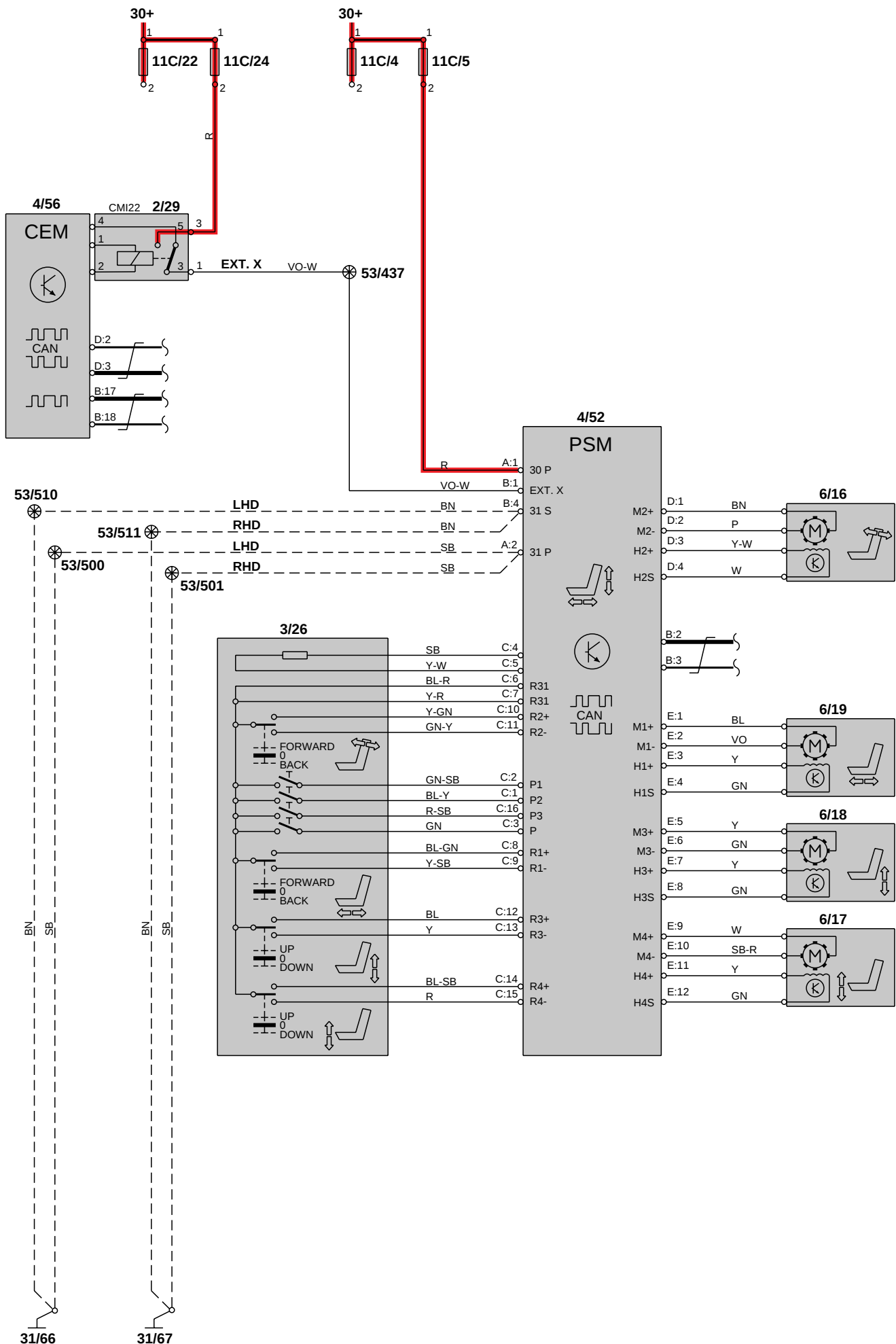
## Heated rear window



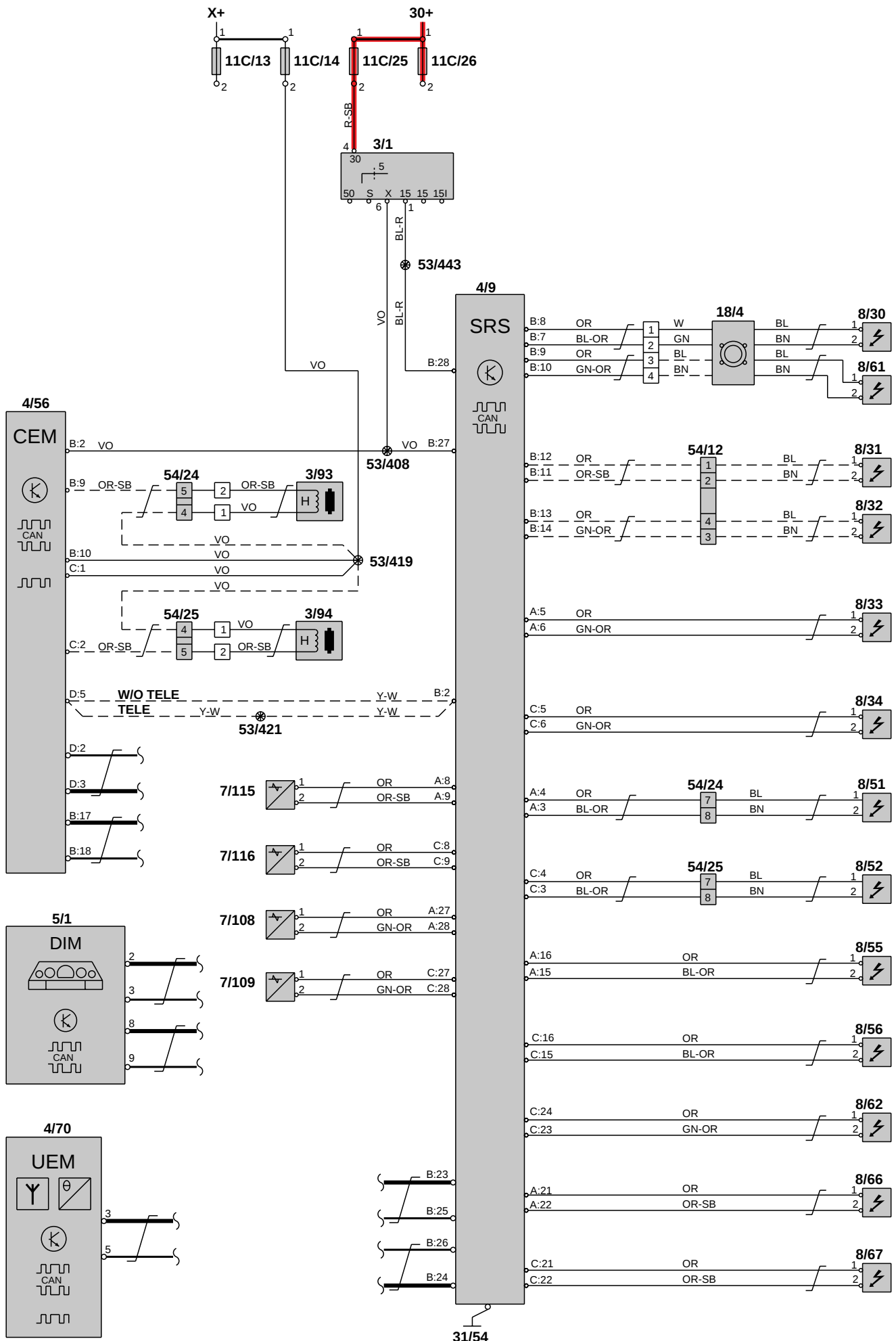
## Group 85 Heated seats



# Power driver's seat



# SRS Supplemental Restraint System



**54/3LA 13-pole white**

**Passenger compartment harness - Engine compartment harness**

| No. | Passenger compartment harness                    |      | Engine compartment harness                        |             |
|-----|--------------------------------------------------|------|---------------------------------------------------|-------------|
| 1   | Yaw angle sensor 2 7/148:1 DSTC                  | W    | ABS control module 4/16:14                        | W-VO        |
| 2   | Yaw angle sensor 2 7/148:2 DSTC                  | BN   | ABS control module 4/16:30                        | BN-GR       |
| 3   | Yaw angle sensor 2 7/148:3 DSTC                  | GR   | ABS control module 4/16:45                        | GR-R        |
| 4   | Canister shut-off valve 8/44:2                   | GN   | Engine Control Module ECM 4/46B:40                | GN-BN       |
| 5   | Shifter unit automatic transmission GSM 3/156A:6 | SB   | Control unit TCM 4/28:54<br>Junction point 53/329 | BL-SB<br>SB |
| 6   | Tank pressure sensor 7/84:3                      | W    | Engine Control Module ECM 4/46B:10                | W-SB        |
| 7   | CEM 4/56A:19                                     | Y    | Horn relay 2/17:2                                 | Y-GR        |
| 8   | CEM 4/56A:3                                      | BN-W | Starter motor relay 2/35:2                        | BL-OR       |
| 9   | Tank pressure sensor 7/84:2                      | GR   | Engine Control Module ECM 4/46B:31                | GR-SB       |
| 10  | -                                                | -    | -                                                 | -           |
| 11  | CEM 4/56A:16                                     | BL   | Relay, windshield washer motor 2/92:2             | BL-R        |
| 12  | CEM 4/56A:14                                     | Y    | Relay, windshield wiper, low/high speed 2/90:2    | Y-GR        |
| 13  | CEM 4/56A:13                                     | GR   | Relay, intermittent windshield wiper 2/91:2       | GR          |

**54/3LB 13-pole white**

**Passenger compartment harness - Engine compartment harness**

| No. | Passenger compartment harness           |    | Engine compartment harness                                   |       |
|-----|-----------------------------------------|----|--------------------------------------------------------------|-------|
| 1   | Tank pressure sensor 7/84:1             | BN | Junction point 53/324                                        | BN    |
| 2   | CEM 4/56B:14                            | BL | Engine Control Module ECM 4/46B:45                           | R-SB  |
| 3   | Lateral acceleration meter 7/128:3 DSTC | GR | ABS control module 4/16:25                                   | GR    |
| 4   | Lateral acceleration meter 7/128:2 DSTC | BN | ABS control module 4/16:9                                    | BN    |
| 5   | Lateral acceleration meter 7/128:1 DSTC | W  | ABS control module 4/16:40                                   | P-W   |
| 6   | Yaw angle sensor 1 7/127:3 DSTC         | GR | ABS control module 4/16:27                                   | GR-SB |
| 7   | Yaw angle sensor 1 7/127:2 DSTC         | BN | ABS control module 4/16:11                                   | BN-SB |
| 8   | Yaw angle sensor 1 7/127:1 DSTC         | W  | ABS control module 4/16:42                                   | W-SB  |
| 9   | RH rear ABS sensor 7/57:1               | BN | ABS control module 4/16:22<br>ABS control module 4/16:6 DSTC | BN-W  |
| 10  | RH rear ABS sensor 7/57:2               | Y  | ABS control module 4/16:23<br>ABS control module 4/16:7 DSTC | Y-W   |
| 11  | LH rear ABS sensor 7/56:1               | BN | ABS control module 4/16:6<br>ABS control module 4/16:36 DSTC | BN-OR |
| 12  | LH rear ABS sensor 7/56:2               | Y  | ABS control module 4/16:5<br>ABS control module 4/16:37 DSTC | Y-VO  |
| 13  | Fuse protection for 11C/9:2             | BL | ABS control module 4/16:4<br>ABS control module 4/16:44 DSTC | BL    |

## Connector

### 54/3LC - 54/3LD

54/3LC 6-pole white

Passenger compartment harness - Engine compartment harness

| No. | Passenger compartment harness                             |       | Engine compartment harness                                           |       |
|-----|-----------------------------------------------------------|-------|----------------------------------------------------------------------|-------|
| 1   | Canister shut-off valve 8/44:1                            | GN-GR | Fuse 11B/5:2                                                         | GN-GR |
| 2   | Connector 54/10:6                                         | BN    | Junction point 53/324                                                | BN    |
| 3   | Connector 54/10:5                                         | W     | Engine Control Module ECM 4/46B:29                                   | OR-W  |
| 4   | CEM 4/56A:20<br>Ignition switch 3/1:7                     | Y-W   | Starter motor relay 2/35:1<br>Engine Control Module ECM 4/46B:23     | GN-R  |
| 5   | Relay for extended X feed, automatic transmission 2/101:1 | VO-W  | Control unit TCM 4/28A:35                                            | VO-W  |
| 6   | Turn signal shunt<br>CEM left 20/32:2                     | GN    | LH front fender turn signal 10/15:2<br>LH front lamp housing 10/1B:2 | GN    |

54/3LD 4-pole white

Passenger compartment harness - Engine compartment harness

| No. | Passenger compartment harness          |      | Engine compartment harness                                           |      |
|-----|----------------------------------------|------|----------------------------------------------------------------------|------|
| 1   | -                                      | -    | -                                                                    | -    |
| 2   | Junction point 53/402                  | R    | Connecting rail relay/fusebox 15/21:2                                | R-W  |
| 3   | Junction point 53/403                  | R    | Connecting rail relay/fusebox 15/28:1                                | R    |
| 4   | Turn signal shunt<br>CEM right 20/34:2 | GN-W | RH front fender turn signal 10/16:2<br>RH front lamp housing 10/2B:2 | GN-W |

**54/3LE 6-pole white**

**Passenger compartment harness - Engine compartment harness**

| No. | Passenger compartment harness |      | Engine compartment harness                                |      |
|-----|-------------------------------|------|-----------------------------------------------------------|------|
| 1   | Junction point 53/443         | BL-R | Engine Control Module ECM 4/46B:37                        | BL-R |
| 2   | Fuse 11C/11:2                 | BL   | RH front lamp housing 10/2A:4                             | BL-Y |
| 3   | Fuse 11C/2:2                  | BL-W | RH front lamp housing 10/2A:3                             | BL-W |
| 4   | Fuse 11C/1:2                  | BL-W | LH front lamp housing 10/1A:3                             | BL-W |
| 5   | Fuse 11C/10:2                 | BL   | LH front lamp housing 10/1A:4                             | BL   |
| 6   | Fog light relay, front 2/34:1 | P    | Foglight front right 10/6:1<br>Foglight front left 10/5:1 | P    |

**54/3LF 13-pole white**

**Passenger compartment harness - Engine compartment harness**

| No. | Passenger compartment harness                       |      | Engine compartment harness                                      |       |
|-----|-----------------------------------------------------|------|-----------------------------------------------------------------|-------|
| 1   | Combined instrument panel DIM 5/1                   | GR   | Engine Control Module ECM 4/46B:46                              | GR    |
| 2   | CEM 4/56A:5                                         | R-W  | 6/26B:1                                                         | R-W   |
| 3   | CEM 4/56A:1                                         | Y-GR | 3/10:2                                                          | Y-GR  |
| 4   | CEM 4/56D:9                                         | Y    | Automatic transmission solenoids 8/37B:1                        | BL-Y  |
| 5   | CEM 4/56D:6<br>Data link connector 17/13:7          | W    | Engine Control Module ECM 4/46B:22<br>Control unit TCM 4/28B:22 | W-SB  |
| 6   | Shifter unit automatic transmission GSM<br>3/156A:2 | GN-W | Control unit TCM 4/28B:21                                       | GN-SB |
| 7   | Fuse 11C/38:2                                       | R    | Alarm siren SCM 16/35:1                                         | R     |
| 8   | CEM 4/56B:16<br>Connector 54/13:14                  | W    | Windshield wiper motor 6/1:3                                    | BL-W  |
| 9   | Combination instrument DIM 5/1:5                    | Y-R  | Brake fluid level sensor 7/4:1                                  | Y-R   |
| 10  | Fuse 11C/31:2                                       | GR   | Junction point 53/379                                           | GR    |
| 11  | Fuse 11C/30:2                                       | W    | Junction point 53/378                                           | W     |
| 12  | Junction point 53/437                               | VO-W | Connector 54/9:4                                                | VO-W  |
| 13  | CEM 4/56A:18<br>Light Switch Module LSM 3/111:3     | GN-W | Connector 54/9:6                                                | GN-W  |

## Connector

### 54/3LG - 54/4

54/3LG 13-pole white

Passenger compartment harness - Engine compartment harness

| No. | Passenger compartment harness         |      | Engine compartment harness                                                         |      |
|-----|---------------------------------------|------|------------------------------------------------------------------------------------|------|
| 1   | CEM 4/56A:12                          | W    | Stepper motor, speed-dependent power steering 6/71:5                               | GR-W |
| 2   | CEM 4/56A:11                          | GN   | Stepper motor, speed-dependent power steering 6/71:4                               | GN   |
| 3   | CEM 4/56A:7                           | Y    | Stepper motor, speed-dependent power steering 6/71:3                               | Y    |
| 4   | CEM 4/56A:6                           | BN   | Stepper motor, speed-dependent power steering 6/71:2                               | BN   |
| 5   | Connector 54/13:15                    | P    | Foglight front left 10/5:1                                                         | P    |
| 6   | Junction point 53/430<br>CEM 4/56B:17 | W    | Junction point 53/352                                                              | W    |
| 7   | Junction point 53/431<br>CEM 4/56B:18 | GN   | Junction point 53/353                                                              | GN   |
| 8   | CEM 4/56C:6                           | BN-W | Connector 54/8:2                                                                   | BN-W |
| 9   | CEM 4/56A:4                           | Y    | Connector 54/4:3                                                                   | Y    |
| 10  | CEM 4/56B:15                          | Y    | Windshield washer pump 6/2:3                                                       | GN-Y |
| 11  | CEM 4/56A:9                           | GN-R | LH headlight level adjustment motor 6/38:2<br>RH headlight adjustment motor 6/39:2 | GN-R |
| 12  | CEM 4/56B:4                           | Y    | Junction point 53/365                                                              | Y    |
| 13  | Fuse 11C/12:2                         | VO   | Junction point 53/380                                                              | VO   |

54/3LH 2-pole black

Passenger compartment harness - Engine compartment harness

| No. | Passenger compartment harness |   | Engine compartment harness    |      |
|-----|-------------------------------|---|-------------------------------|------|
| 1   | Junction point 53/415         | R | Main fuses in fusebox 11A/2:2 | R-SB |
| 2   | -                             | - | -                             | -    |

54/4 4-pole dark gray

Measure front - Measure the engine compartment

| No. | Front harness             |      | Engine compartment harness |       |
|-----|---------------------------|------|----------------------------|-------|
| 1   | Horn 1 16/10:1            | R-SB | Horn relay 2/17:5          | R-SB  |
| 2   | Horn 2 16/11:1            | R-SB | Horn relay 2/17:5          | R-SB  |
| 3   | Hood alarm contact 3/62:1 | Y    | Connector 54/3LG:9         | Y     |
| 4   | Junction point 53/382     | SB   | Junction point 53/331      | GR-SB |

**54/8      2-pole dark gray**  
**Engine compartment harness - Front harness**

| No. | Engine compartment harness |      | Front harness                            |      |
|-----|----------------------------|------|------------------------------------------|------|
| 1   | Fuse 11B/2:2               | R-SB | Junction point 53/343                    | R    |
| 2   | Connector 54/3LG:8         | BN-W | Auxiliary light (accessory) relay 2/64:1 | BN-W |

**54/9      6-pole dark gray**  
**Engine compartment harness - Front harness**

| No. | Engine compartment harness |   | Front harness           |      |
|-----|----------------------------|---|-------------------------|------|
| 1   | Connecting rail            | - | Control unit CPM 4/7:9  | R    |
| 2   | -                          | - | -                       | -    |
| 3   | Junction point 53/331      | - | -                       | -    |
| 4   | Connector 54/3LF:12        |   | Control unit CPM 4/7:15 | VO-W |
| 5   | -                          | - | -                       | -    |
| 6   | Connector 54/3LF:13        | - | Control unit CPM 4/7:6  | GN-W |

**54/10      12-pole black**  
**Passenger compartment harness - LH front door harness**

| No. | Passenger compartment harness                        |      | LH front door harness                             |      |
|-----|------------------------------------------------------|------|---------------------------------------------------|------|
| 1   | Fuse 11C/35:2                                        | R    | Control unit left front door<br>DDM/PDM 3/126B:12 | R    |
| 2   | Fuse 11C/27:2                                        | R-W  | Control unit left front door<br>DDM/PDM 3/126B:7  | R-W  |
| 3   | Junction point 53/516                                | W    | Control unit left front door<br>DDM/PDM 3/126A:2  | W    |
| 4   | Junction point 53/517                                | GN   | Control unit left front door<br>DDM/PDM 3/126A:3  | GN   |
| 5   | Connector 54/3LC:3                                   | W    | LH power door mirror 6/62:2                       | W    |
| 6   | Connector 54/3LC:2                                   | BN   | LH power door mirror 6/62:3                       | BN   |
| 7   | -                                                    | -    | -                                                 | -    |
| 8   | CEM 4/56D:7                                          | P    | LH front door lock unit 3/74:3                    | P    |
| 9   | Radio 16/1B:1<br>Connector 54/14:1                   | GR-R | Junction point 53/519                             | GR-R |
| 10  | Radio 16/1B:2<br>Connector 54/14:2                   | GR   | Junction point 53/520                             | GR   |
| 11  | Junction point 53/500                                | SB   | Control unit left front door<br>DDM/PDM 3/126B:5  | SB   |
| 12  | Junction point 53/510 LHD<br>Ground connection 31/66 | BN   | Control unit left front door<br>DDM/PDM 3/126B:9  | BN   |

## Connector

### 54/11 - 54/12

54/11 12-pole black

Passenger compartment harness - RH front door harness

| No. | Passenger compartment harness      |      | RH front door harness                              |      |
|-----|------------------------------------|------|----------------------------------------------------|------|
| 1   | Fuse 11C/36:2                      | R    | Control unit right front door<br>PDM/DDM 3/127B:12 | R    |
| 2   | Fuse 11C/27:2                      | R-W  | Control unit right front door<br>PDM/DDM 3/127B:7  | R-W  |
| 3   | Junction point 53/433              | W    | Control unit right front door<br>PDM/DDM 3/127A:2  | W    |
| 4   | Junction point 53/434              | GN   | Control unit right front door<br>PDM/DDM 3/127A:3  | GN   |
| 5   | -                                  | -    | -                                                  | -    |
| 6   | -                                  | -    | -                                                  | -    |
| 7   | -                                  | -    | -                                                  | -    |
| 8   | CEM 4/56D:8                        | P    | RH front door lock unit 3/75:3                     | P    |
| 9   | Radio 16/1B:5<br>Connector 54/14:5 | GR-R | Junction point 53/521                              | GR-R |
| 10  | Radio 16/1B:6<br>Connector 54/14:6 | GR   | Junction point 53/522                              | GR   |
| 11  | Junction point 53/501              | SB   | Control unit right front door<br>PDM/DDM 3/127B:5  | SB   |
| 12  | Ground connection 31/67            | BN   | Control unit right front door<br>PDM/DDM 3/127B:9  | BN   |

54/12 4-pole orange

Passenger compartment harness - Airbag SRS harness

| No. | Passenger compartment harness |       | Airbag SRS harness                   |    |
|-----|-------------------------------|-------|--------------------------------------|----|
| 1   | Control unit SRS 4/9B:12      | OR    | Passenger side airbag 8/31:1         | BL |
| 2   | Control unit SRS 4/9B:11      | OR-SB | Passenger side airbag 8/31:2         | BN |
| 3   | Control unit SRS 4/9B:14      | GN-OR | Passenger side airbag, step 2 8/32:2 | BN |
| 4   | Control unit SRS 4/9B:13      | OR    | Passenger side airbag, step 2 8/32:1 | BL |

**54/13 22-pole black**  
**Passenger compartment harness - Roof harness**

| No. | Passenger compartment harness |        | Roof harness                                                   |        |
|-----|-------------------------------|--------|----------------------------------------------------------------|--------|
|     |                               |        |                                                                |        |
| 1   | Fuse 11C/28:2                 | R      | Junction point 53/534                                          | R      |
| 2   | -                             | -      | -                                                              | -      |
| 3   | -                             | -      | -                                                              | -      |
| 4   | -                             | -      | -                                                              | -      |
| 5   | Junction point 53/516         | W      | Upper Electronic Module UEM 4/70:3                             | W      |
| 6   | Junction point 53/517         | GN     | Upper Electronic Module UEM 4/70:5                             | GN     |
| 7   | -                             | -      | -                                                              | -      |
| 8   | Mobile telephone 16/60:1      | W      | Connector 54/15:1                                              | W      |
| 9   | -                             | -      | -                                                              | -      |
| 10  | -                             | -      | -                                                              | -      |
| 11  | CEM 4/56B:5                   | Y-R    | Auxiliary brake light 10/19:1                                  | Y-R    |
| 12  | -                             | -      | -                                                              | -      |
| 13  | -                             | -      | -                                                              | -      |
| 14  | Connector 54/3LF:8            | W      | -                                                              | -      |
| 15  | Connector 54/3LG:5            | P      | Upper Electronic Module UEM 4/70:21<br>Control unit SRM 4/33:4 | P      |
| 16  | CEM 4/56A:15                  | Y      | Connector 54/16:4                                              | W      |
| 17  | Connector 54/43A:12           | P      | -                                                              | -      |
| 18  | Mobile telephone 16/60:11     | Fender | Connector 54/15:2                                              | Fender |
| 19  | -                             | -      | -                                                              | -      |
| 20  | Junction point 53/400         | BN     | Junction point 53/503                                          | BN     |
| 21  | Fuse 11C/34:2                 | R      | Control unit SRM 4/33:1                                        | R      |
| 22  | Junction point 53/405         | SB     | Control unit SRM 4/33:10                                       | SB     |

## Connector

### 54/14 - 54/16

54/14 12-pole light gray

Passenger compartment harness - Audio harness

| No. | Passenger compartment harness |      | Audio harness      |      |
|-----|-------------------------------|------|--------------------|------|
| 1   | Connector 54/10:9             | GR-R | Amplifier 16/2B:1  | GR-R |
| 2   | Connector 54/10:10            | GR   | Amplifier 16/2B:2  | GR   |
| 3   | -                             | -    | -                  | -    |
| 4   | -                             | -    | -                  | -    |
| 5   | Connector 54/11:9             | GR-R | Amplifier 16/2B:5  | GR-R |
| 6   | Connector 54/11:10            | GR   | Amplifier 16/2B:6  | GR   |
| 7   | Junction point 53/523         | GR-W | Amplifier 16/2B:7  | GR-W |
| 8   | Junction point 53/524         | GR   | Amplifier 16/2B:8  | GR   |
| 9   | -                             | -    | -                  | -    |
| 10  | -                             | -    | -                  | -    |
| 11  | Junction point 53/525         | GR-W | Amplifier 16/2B:11 | GR-W |
| 12  | Junction point 53/526         | GR   | Amplifier 16/2B:12 | GR   |

54/15 2-pole light gray

Roof harness - Microphone

| No. | Roof harness       |        | Microphone                         |        |
|-----|--------------------|--------|------------------------------------|--------|
| 1   | Connector 54/13:8  | W      | Microphone, mobile telephone 16/77 | W      |
| 2   | Connector 54/13:18 | Fender | Microphone, mobile telephone 16/77 | Fender |

54/16 5-pole green

Roof harnessf - Rain sensor harness

| No. | Roof harness                        |      | Rain sensor harness |      |
|-----|-------------------------------------|------|---------------------|------|
| 1   | Upper Electronic Module UEM 4/70:13 | W    | Rain sensor 7/149:1 | GN   |
| 2   | Junction point 53/503               | BN   | Rain sensor 7/149:2 | BN   |
| 3   | Junction point 53/505               | VO-W | Rain sensor 7/149:3 | VO-W |
| 4   | Connector 54/13:16                  | W    | Rain sensor 7/149:4 | BN   |
| 5   | -                                   | -    | -                   | -    |

**54/20 12-pole black**

**Passenger compartment harness - LH rear door harness**

| No. | Passenger compartment harness             |       | LH rear door harness                                                  |       |
|-----|-------------------------------------------|-------|-----------------------------------------------------------------------|-------|
| 1   | Junction point 53/523                     | GR-W  | LH rear door speaker 16/6:1                                           | GR-W  |
| 2   | Junction point 53/524                     | GR    | LH rear door speaker 16/6:2                                           | GR    |
| 3   | CEM 4/56B:12                              | P     | LH rear door lock unit 3/76:2                                         | P     |
| 4   | CEM 4/56B:13                              | BL    | LH rear door lock unit 3/76:5                                         | BL    |
| 5   | Junction point 53/446                     | Y     | LH rear door electric window switch 3/85:1<br>Junction point 53/527   | Y     |
| 6   | Rear left power window down relay 2/118:1 | BL    | LH rear door electric window switch 3/85:3                            | BL    |
| 7   | Junction point 53/504                     | W     | -                                                                     | -     |
| 8   | Rear left power window up relay 2/116:1   | GN-BN | LH rear door electric window switch 3/85:5                            | GN-BN |
| 9   | Connector 54/40A:4                        | VO    | LH rear door lock unit 3/76:8<br>Deadlock relay, LH rear door 2/138:1 | VO    |
| 10  | Connector 54/40A:3                        | GR    | LH rear door lock unit 3/76:6                                         | GR    |
| 11  | Connector 54/40A:2                        | Y     | LH rear door lock unit 3/76:4                                         | Y     |
| 12  | Junction point 53/500                     | SB    | Junction point 53/531                                                 | SB    |

**54/21 12-pole black**

**Passenger compartment harness - RH rear door harness**

| No. | Passenger compartment harness              |       | RH rear door harness                                                |       |
|-----|--------------------------------------------|-------|---------------------------------------------------------------------|-------|
| 1   | Junction point 53/525                      | GR-W  | Speaker RH rear door 16/5:1                                         | GR-W  |
| 2   | Junction point 53/526                      | GR    | Speaker RH rear door 16/5:2                                         | GR    |
| 3   | CEM 4/56C:18                               | P     | RH rear door lock unit 3/77:2                                       | P     |
| 4   | CEM 4/56C:3                                | BL    | RH rear door lock unit 3/77:5                                       | BL    |
| 5   | Junction point 53/446                      | Y     | RH rear door electric window switch 3/86:1<br>Junction point 53/528 | Y     |
| 6   | Right rear power window down relay 2/119:1 | BL    | RH rear door electric window switch 3/86:3                          | BL    |
| 7   | Junction point 53/504                      | W     | -                                                                   | -     |
| 8   | Right rear power window up relay 2/117:1   | GN-BN | RH rear door electric window switch 3/86:5                          | GN-BN |
| 9   | Connector 54/43:4                          | VO    | RH rear door lock unit 3/77:8<br>Deadlock relay, RH rear door 2/139 | VO    |
| 10  | Connector 54/43:3                          | GR    | RH rear door lock unit 3/77:6                                       | GR    |
| 11  | Connector 54/43:2                          | Y     | RH rear door lock unit 3/77:4                                       | Y     |
| 12  | Junction point 53/501                      | SB    | Junction point 53/532                                               | SB    |

## Connector

**54/24 - 54/25**

**54/24 13-pole black**

**Passenger compartment harness - Front seat harness**

| No. | Passenger compartment harness |       | Front seat harness                   |       |
|-----|-------------------------------|-------|--------------------------------------|-------|
| 1   | Fuse 11C/7:2                  | BL    | LH seat heater control unit 4/201A:4 | R     |
| 2   | CEM 4/56B:11                  | Y-GR  | LH seat heater control unit 4/201A:2 | Y     |
| 3   | Junction point 53/500         | SB    | LH seat heater control unit 4/201A:1 | SB    |
| 4   | Junction point 53/419         | VO    | Left seatbelt latch switch 3/93      | VO    |
| 5   | CEM 4/56B:9                   | OR-SB | Left seatbelt latch switch 3/93      | OR-SB |
| 6   | -                             | -     | -                                    | -     |
| 7   | Control unit SRS 4/9A:4       | OR    | Side airbag, LH front 8/51           | BL    |
| 8   | Control unit SRS 4/9A:3       | BL-OR | LH front side airbag 8/51            | BN    |
| 9   | Mobile telephone 16/60:5 LHD  | GR-R  | Speaker, mobile telephone 16/78      | GR-R  |
| 10  | Mobile telephone 16/60:4 LHD  | GR    | Speaker, mobile telephone 16/78      | GR    |
| 11  | Fuse 11C/6:2 RHD              | R     | Power passenger seat module 3/27     | GN-R  |
| 12  | Junction Point 53/419 RHD     | VO    | Power passenger seat module 3/27     | Y-R   |
| 13  | Junction Point 53/501 RHD     | SB    | Power passenger seat module 3/27     | SB    |

**54/25 13-pole black**

**Passenger compartment harness - Front seat harness**

| No. | Passenger compartment harness |       | Front seat harness                   |       |
|-----|-------------------------------|-------|--------------------------------------|-------|
| 1   | Fuse 11C/8:2                  | BL    | RH seat heater control unit 4/202A:4 | R     |
| 2   | CEM 4/56C:4                   | Y-GR  | RH seat heater control unit 4/202A:2 | Y     |
| 3   | Junction point 53/501         | SB    | RH seat heater control unit 4/202A:1 | SB    |
| 4   | Junction point 53/419         | VO    | Right seatbelt latch switch 3/94     | VO    |
| 5   | CEM 4/56C:2                   | OR-SB | Right seatbelt latch switch 3/94     | OR-SB |
| 6   | -                             | -     | -                                    | -     |
| 7   | Control unit SRS 4/9C:4       | OR    | RH front side airbag ignitor 8/52:1  | BL    |
| 8   | Control unit SRS 4/9C:3       | BL-OR | RH front side airbag ignitor 8/52:2  | BN    |
| 9   | Mobile telephone 16/60:5 RHD  | -     | Speaker, mobile telephone 16/78      | GR-R  |
| 10  | Mobile telephone 16/60:4 RHD  | -     | Speaker, mobile telephone 16/78      | GR    |
| 11  | Fuse 11C/6:2 LHD              | R     | Power passenger seat module 3/27     | GN-R  |
| 12  | Junction point 53/419 LHD     | VO    | Power passenger seat module 3/27     | Y-R   |
| 13  | Junction point 53/501 LHD     | SB    | Power passenger seat module 3/27     | SB    |

**54/40A 14-pole light gray**

**Baggage compartment harness - Passenger compartment harness**

| No. | Baggage compartment harness                                        |      | Passenger compartment harness         |      |
|-----|--------------------------------------------------------------------|------|---------------------------------------|------|
| 1   | Shunt, parking light REM 20/28:3                                   | W    | Fuse 11C/30:2                         | W    |
| 2   | Locking relay, LH rear 2/111:1                                     | Y    | Connector 54/20:11                    | Y    |
| 3   | Unlocking relay, LH rear 2/112:1                                   | GR   | Connector 54/20:10                    | GR   |
| 4   | Relay, deadlock, rear doors 2/115:1                                | VO   | Connector 54/20:9                     | VO   |
| 5   | REM 4/58A:16                                                       | GN   | Junction point 53/435                 | GN   |
| 6   | REM 4/58A:14                                                       | W    | Junction point 53/436                 | W    |
| 7   | -LH tail light housing 10/18A:2<br>-LH tail light housing 10/18B:4 | GN   | Turn signal shunt<br>CEM left 20/32:2 | GN   |
| 8   | Junction point 53/609                                              | GR   | Fuse 11C/31:2                         | GR   |
| 9   | -                                                                  | -    | Junction point 53/523                 | GR-W |
| 10  | -                                                                  | -    | Junction point 53/524                 | GR   |
| 11  | REM 4/58A:2                                                        | GN   | Fuel pump 6/33:5                      | GN   |
| 12  | REM 4/58A:10<br>Junction point 53/608                              | BN   | Fuel pump 6/33:6                      | BN   |
| 13  | -                                                                  | -    | Fuel pump 6/33:7                      | BL   |
| 14  | REM 4/58A:4                                                        | GN-Y | CEM 4/56B:6                           | GN-Y |

**54/40B 1-pole black**

**Passenger compartment harness - Baggage compartment harness**

| No. | Passenger compartment harness          |   | Baggage compartment harness      |   |
|-----|----------------------------------------|---|----------------------------------|---|
| 1   | Window antenna amplifier, left 16/16:1 | R | Relay, heated rear window 2/82:3 | R |

## Connector

### 54/43A - 54/50

#### 54/43A 14-pole light gray

##### Baggage compartment harness - Passenger compartment harness

| No. | Baggage compartment harness         |      | Passenger compartment harness  |      |
|-----|-------------------------------------|------|--------------------------------|------|
| 1   | -                                   | -    | -                              | -    |
| 2   | Locking relay, RH rear 2/113:1      | Y    | Connector 54/21:11             | Y    |
| 3   | Unlocking relay, RH rear 2/114:1    | GR   | Connector 54/21:10             | GR   |
| 4   | Relay, deadlock, rear doors 2/115:1 | VO   | Connector 54/21:9              | VO   |
| 7   | RH rear lamp housing 10/17B:1,2,4   | GN-W | RH turn signal shunt CEM 20/34 | GN-W |
| 8   | REM 4/58F:3                         | BL   | Fuse 11C20:2                   | BL   |
| 9   | -                                   | -    | Junction point 53/525          | GR-W |
| 10  | -                                   | -    | Junction point 53/526          | GR   |
| 11  | Connector 54/50:1                   | P    | CEM 4/56C:5                    | P    |
| 12  | -                                   | -    | Connector 54/13:17             | P    |
| 13  | -                                   | -    | -                              | -    |
| 14  | -                                   | -    | -                              | -    |

#### 54/50 10 -pole light gray

##### Baggage compartment harness - Trunk lid harness

| No. | Baggage compartment harness             |      | Trunk lid harness                   |       |
|-----|-----------------------------------------|------|-------------------------------------|-------|
| 1   | Connector 54/43A:11                     | p    | Trunk lid/tailgate lock unit 3/78:1 | BN-R  |
| 2   | -                                       | -    | -                                   | -     |
| 3   | Trunk lid/tailgate opening relay 2/67:1 | GR-W | Trunk lid lock unit 3/78:2          | GR-W  |
| 4   | -                                       | -    | License plate lighting 10/3:4       | GR-GN |
| 5   | -                                       | -    | Trunk lid/tailgate lock unit 3/78:3 | BN    |
| 7   | Junction point 53/609                   | GR   | License plate lighting 10/3:2       | GR    |
| 8   | REM 4/58D:7                             | BL   | License plate lighting 10/3:1       | BL-BN |
| 9   | -                                       | -    | -                                   | -     |
| 10  | Junction point 53/601                   | SB   | Trunk lid/tailgate lock unit 3/78:4 | BL-SB |

**54/51     13-pole light gray**  
**Towing bracket wiring - Baggage compartment harness**

| No. | Towing bracket wiring |      | Baggage compartment harness                                      |      |
|-----|-----------------------|------|------------------------------------------------------------------|------|
| 1   | 15-Feed               | BL   | Fuse 11D/15:2                                                    | BL   |
| 2   | 30-Feed               | R    | Fuse 11D/9:2                                                     | R    |
| 4   | Brake lights          | Y    | Brake light relay 2/79:1                                         | Y    |
| 5   | Rear fog light        | P    | Relay fog light 2/83:1                                           | P    |
| 7   | Ground connection     | SB   | Ground connection 31/73                                          | SB   |
| 8   | RH parking light      | GR   | Junction point 53/609                                            | GR   |
| 9   | RH turn signal        | GN-W | RH rear lamp housing 10/17B:4<br>RH rear lamp housing 10/17A:2   | GN-W |
| 10  | LH turn signal        | GN   | LH tail light housing 10/18B:4<br>LH tail light housing 10/18A:2 | GN   |
| 11  | LH parking light      | W    | Shunt, parking light REM 20/28:3                                 | W    |
| 12  | Reversing lights      | BL   | Junction point 53/615                                            | BL   |

**54/53     Turbo, 4-pole black**  
**Engine harness - Knock sensor**

| No. | Engine harness                     |       | Knock sensor            |    |
|-----|------------------------------------|-------|-------------------------|----|
| 1   | Engine Control Module ECM 4/46A:46 | BN-SB | Front knock sensor 7/24 | BN |
| 2   | Engine Control Module ECM 4/46A:64 | SB    | Front knock sensor 7/24 | SB |
| 3   | Engine Control Module ECM 4/46A:45 | BN    | Rear knock sensor 7/23  | BN |
| 4   | Engine Control Module ECM 4/46A:67 | Y-SB  | Rear knock sensor 7/23  | SB |

## Connector

### 54/53 - 54/56

**54/53**      **Non-turbo, 4-pole dark gray**  
**Engine harness - Knock sensor**

| No. | Engine harness                     |       | Knock sensor            |    |
|-----|------------------------------------|-------|-------------------------|----|
| 1   | Engine Control Module ECM 4/46A:46 | BN    | Front knock sensor 7/24 | BN |
| 2   | Junction point 53/318              | SB    | Front knock sensor 7/24 | SB |
| 3   | Engine Control Module ECM 4/46A:45 | BN    | Rear knock sensor 7/23  | BN |
| 4   | Junction point 53/318              | BN-GR | Rear knock sensor 7/23  | SB |

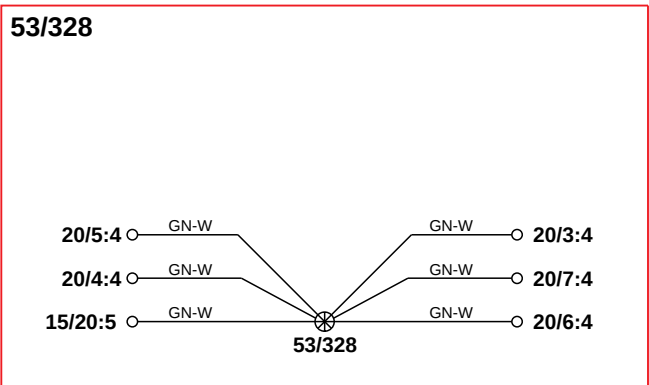
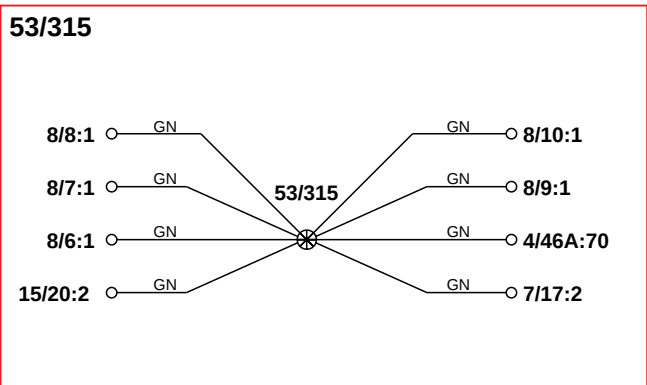
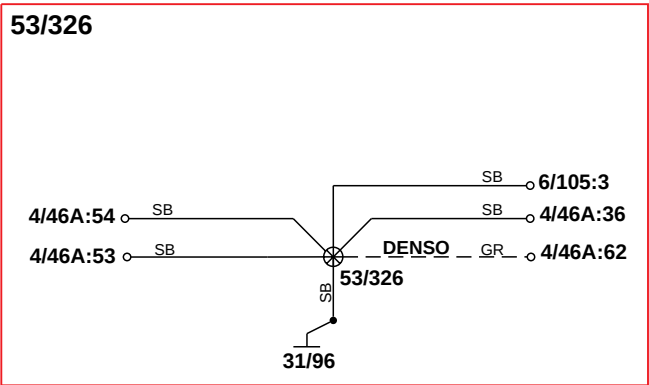
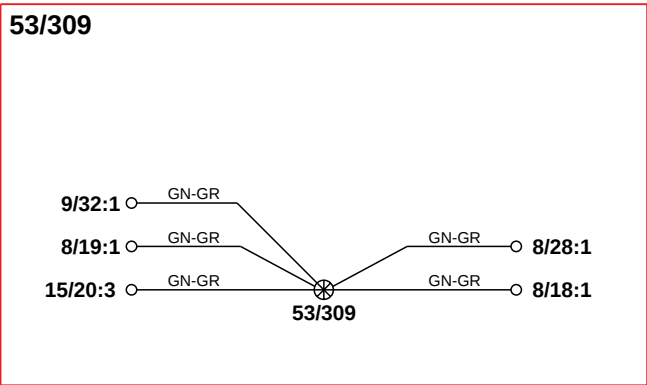
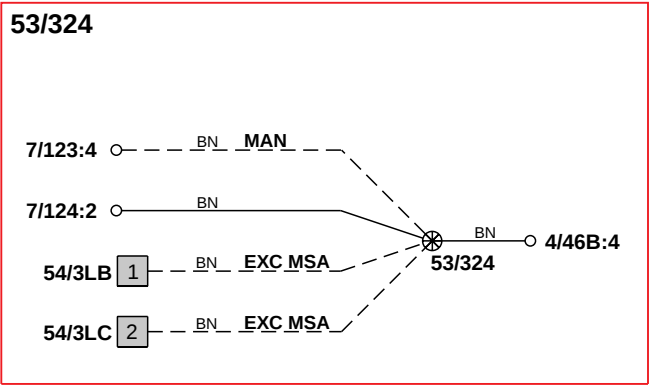
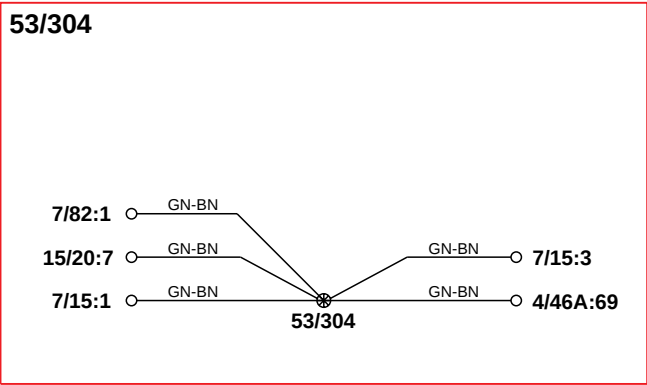
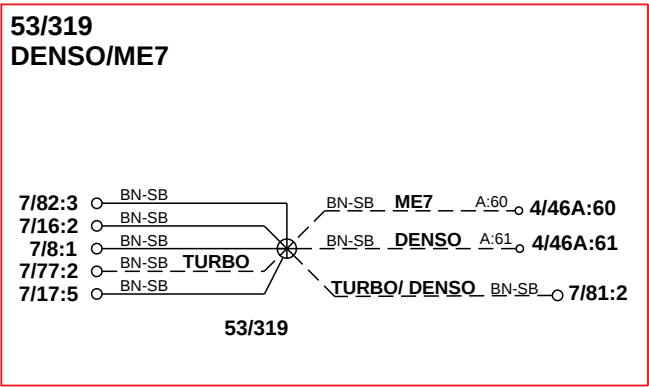
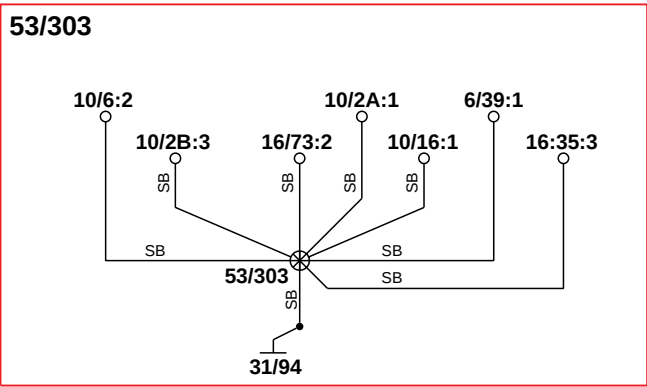
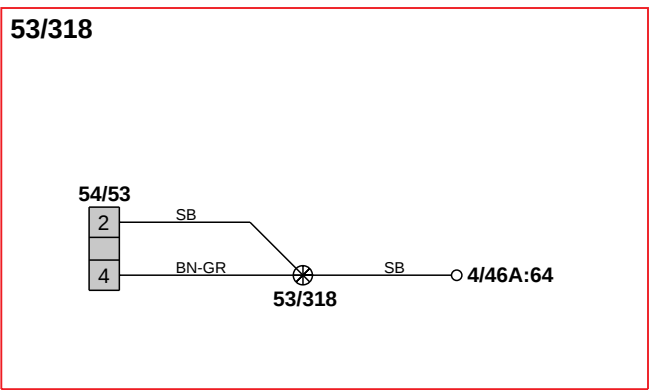
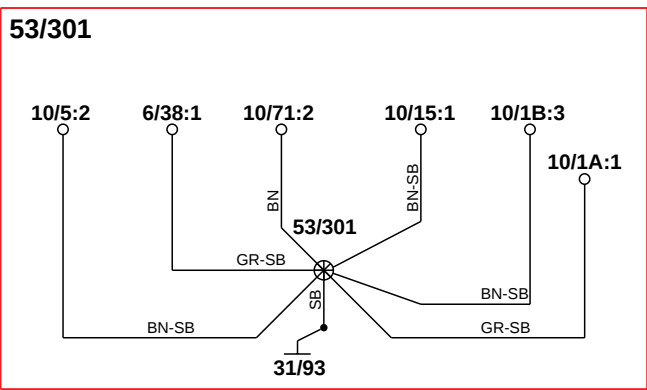
**54/55**      **RHD 3-pole dark gray**  
**Engine compartment harness - Brake pressure sensor**

| No. | Engine compartment harness |       | Brake pressure sensor           |      |
|-----|----------------------------|-------|---------------------------------|------|
| 1   | ABS control module 4/16:28 | GN-BN | Brake pressure sensor 2 7/129:1 | BN   |
| 2   | ABS control module 4/16:12 | GN-W  | Brake pressure sensor 2 7/129:2 | GN-W |
| 3   | ABS control module 4/16:43 | GR-W  | Brake pressure sensor 2 7/129:3 | GR-W |

**54/56**      **RHD 3-pole dark gray**  
**Engine compartment harness - Brake pressure sensor**

| No. | Engine compartment harness |       | Brake pressure sensor           |    |
|-----|----------------------------|-------|---------------------------------|----|
| 1   | ABS control module 4/16:26 | BL-BN | Brake pressure sensor 1 7/139:1 | BN |
| 2   | ABS control module 4/16:10 | OR-W  | Brake pressure sensor 1 7/139:2 | W  |
| 3   | ABS control module 4/16:41 | GR-OR | Brake pressure sensor 1 7/139:3 | GR |

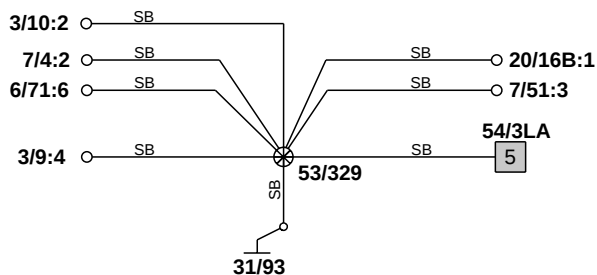
Junction points  
53/301 - 53/328



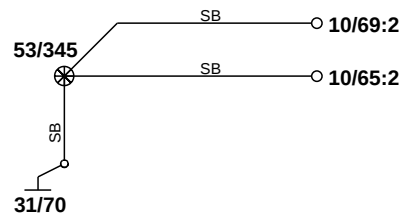
# Junction points

## 53/329 - 53/360

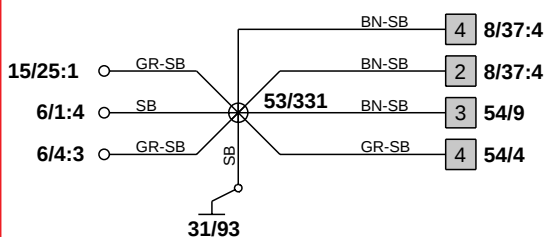
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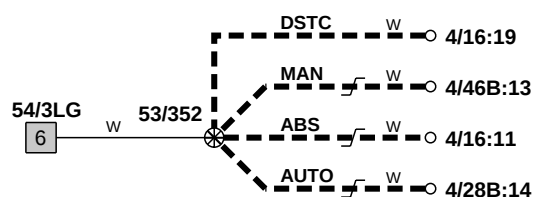
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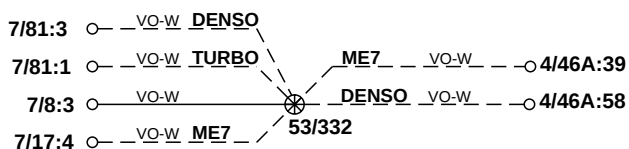
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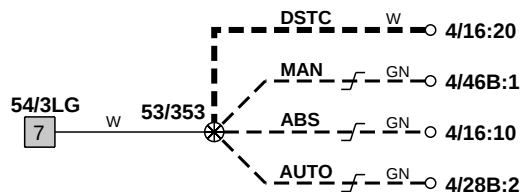
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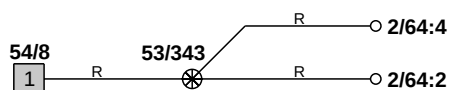
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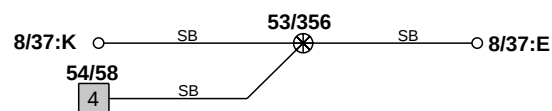
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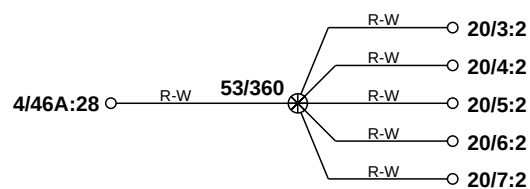
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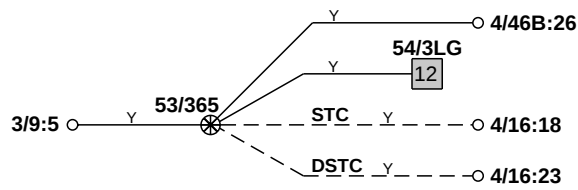
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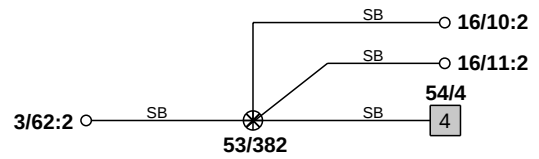
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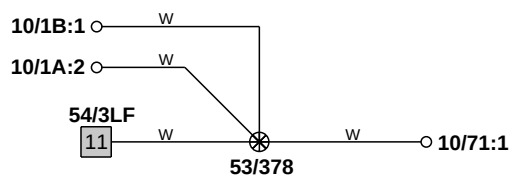
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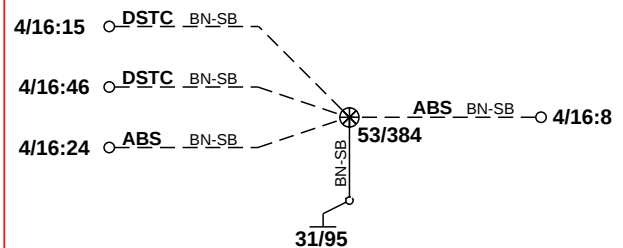
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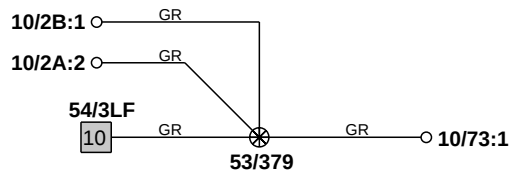
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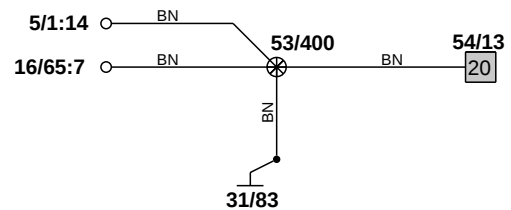
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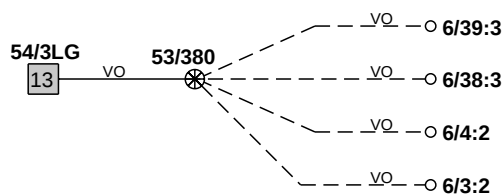
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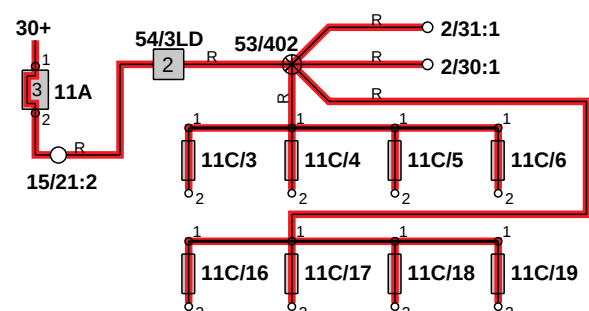
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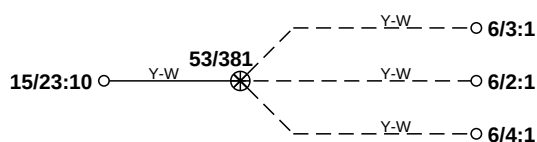
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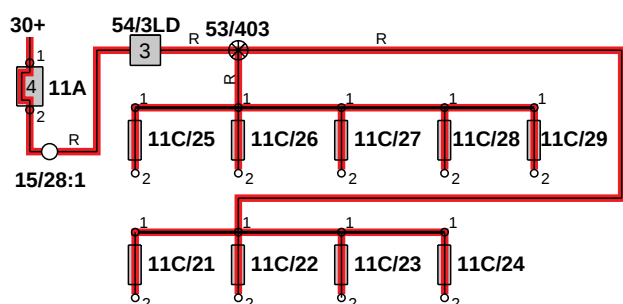
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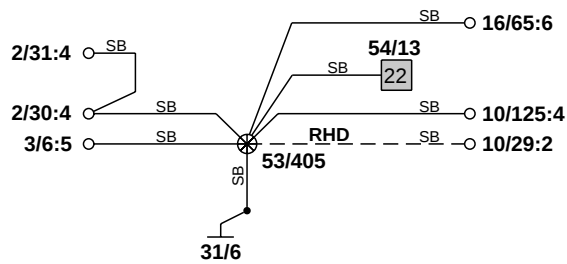
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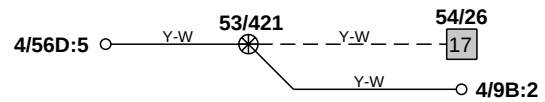
# Junction points

## 53/405 - 53/430

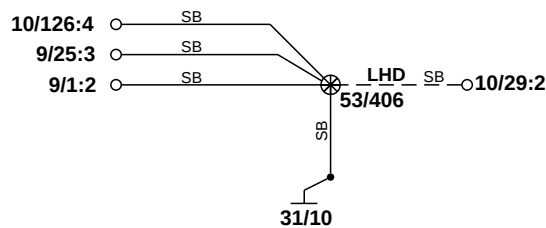
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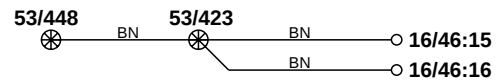
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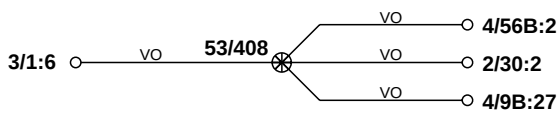
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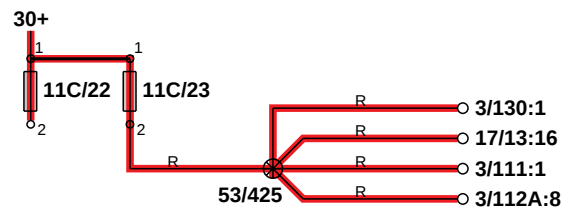
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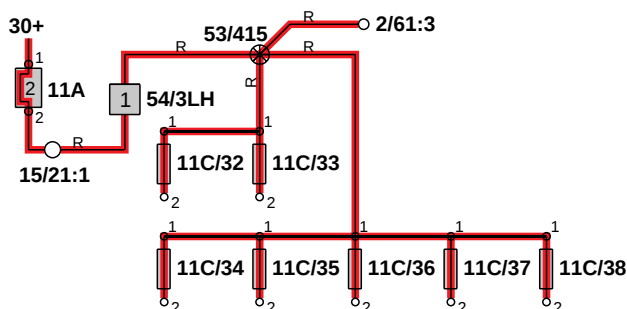
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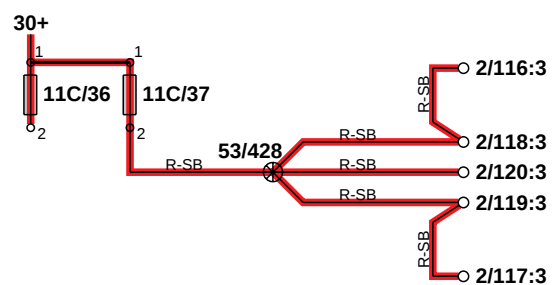
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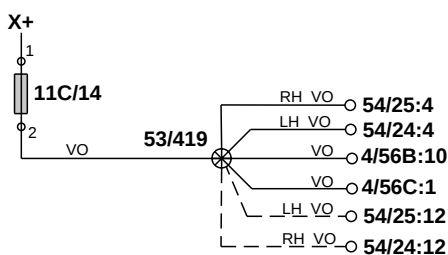
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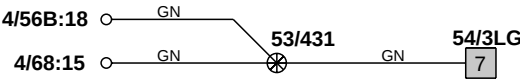


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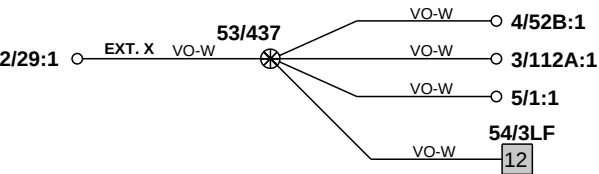


Junction points  
53/431 - 53/448

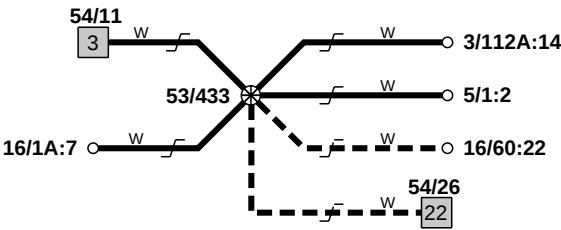
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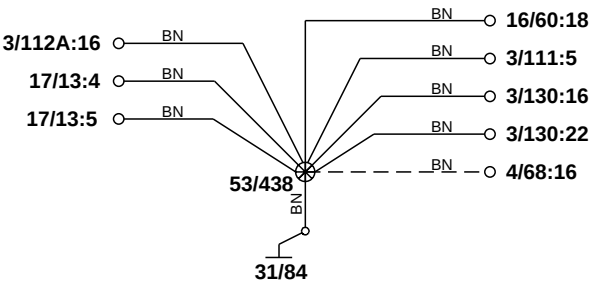
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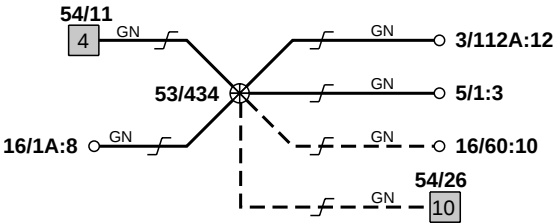
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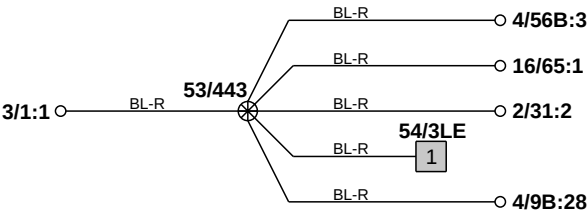
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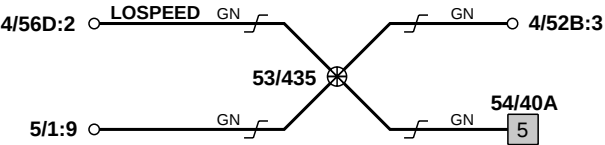
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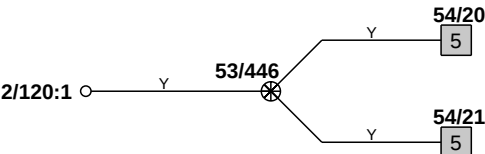
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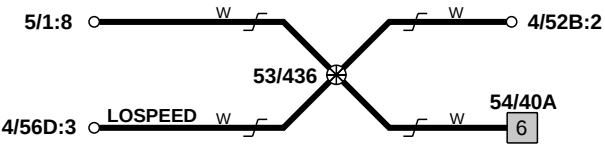
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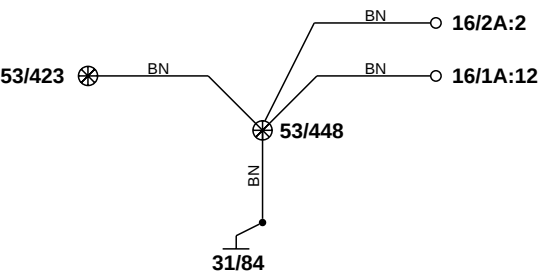
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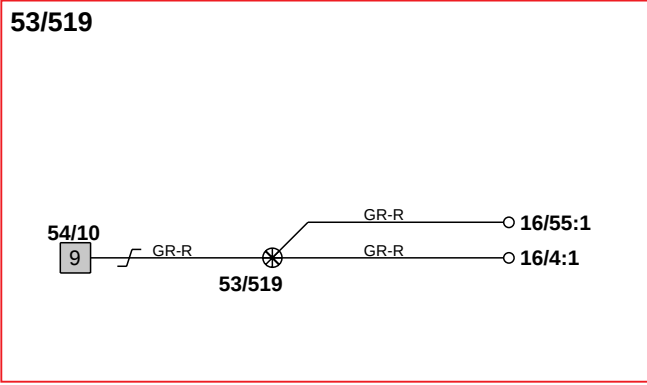
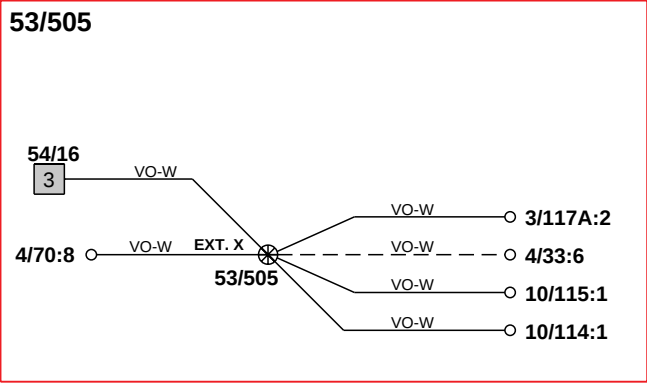
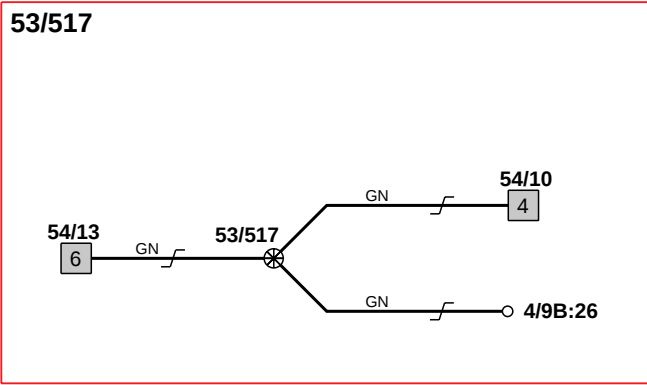
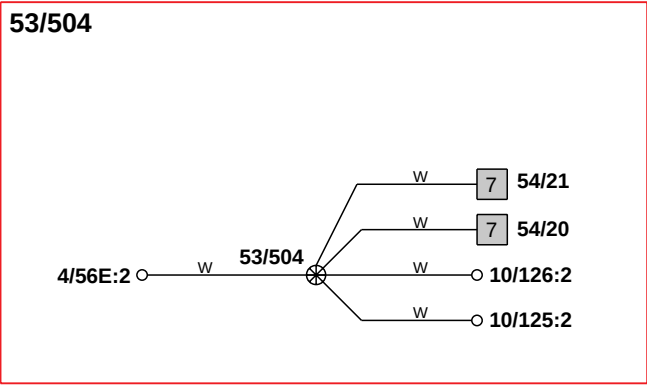
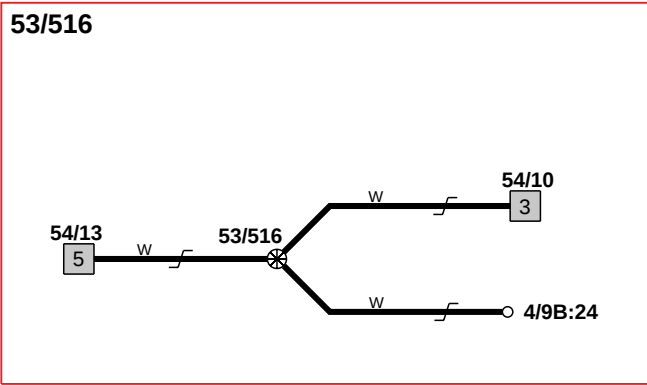
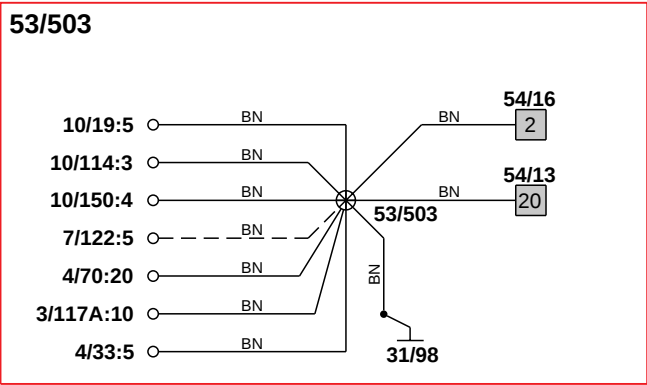
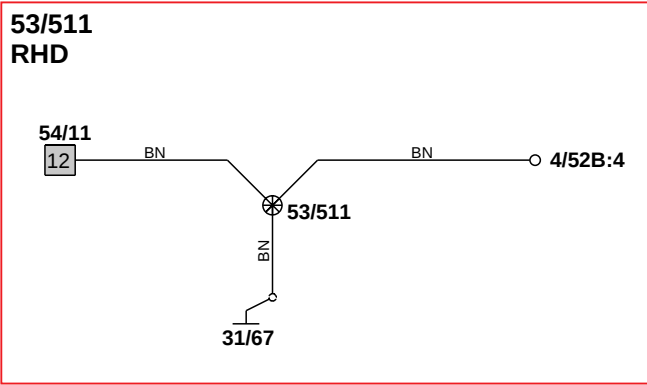
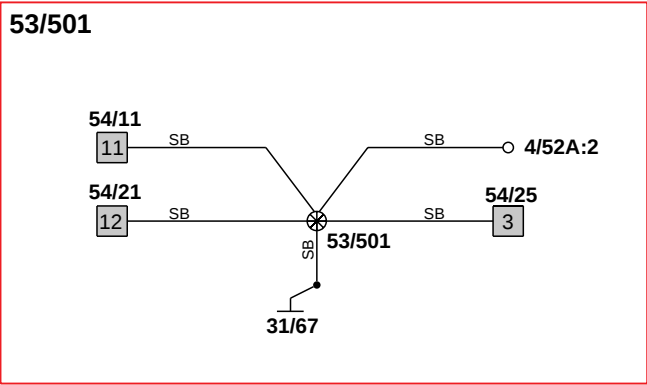
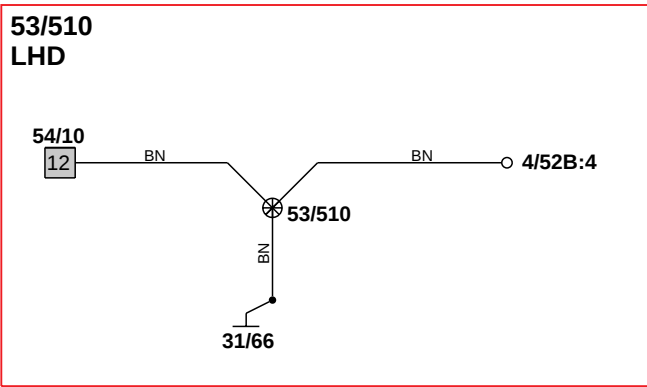
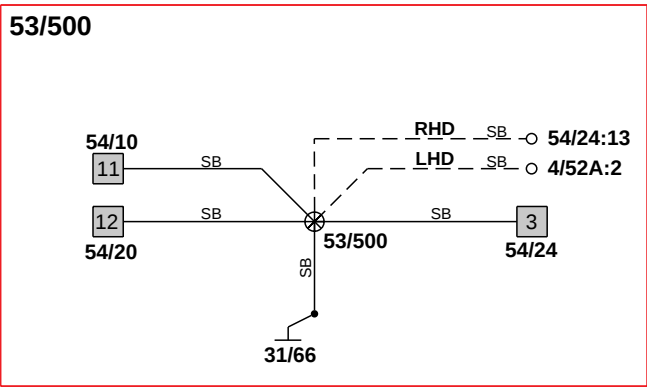
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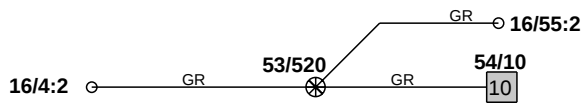


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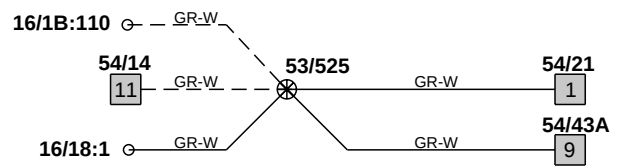


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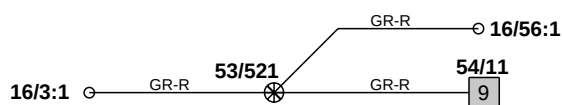
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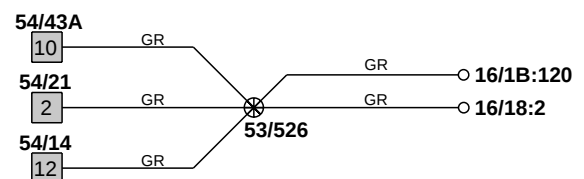
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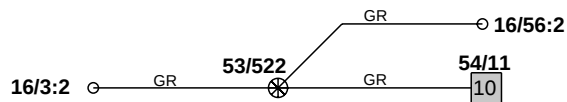
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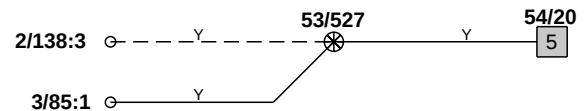
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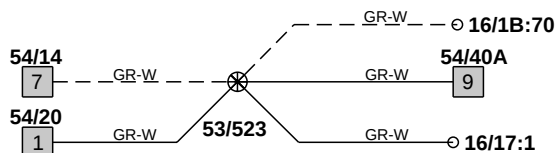
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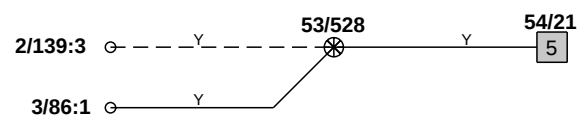
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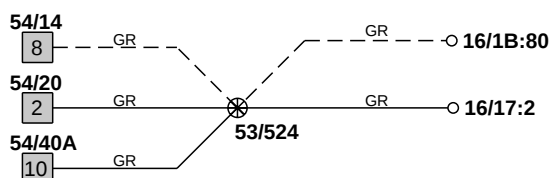
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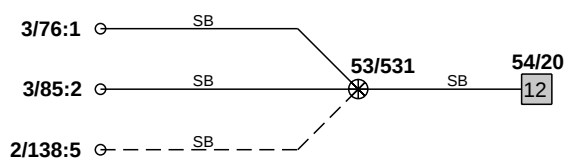
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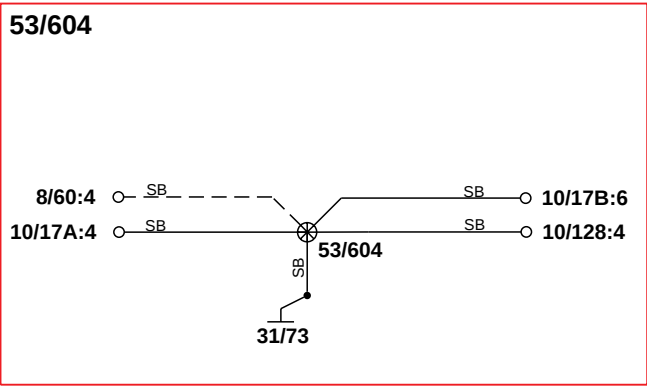
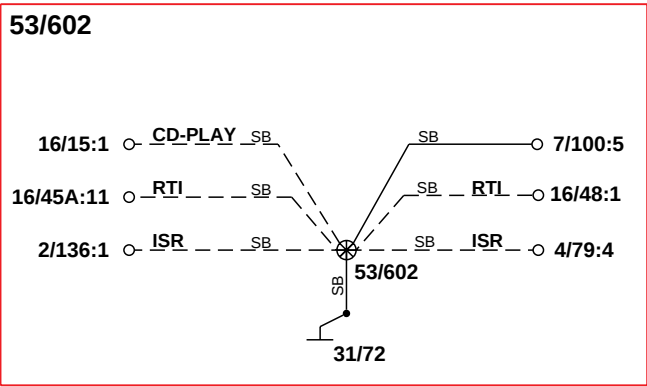
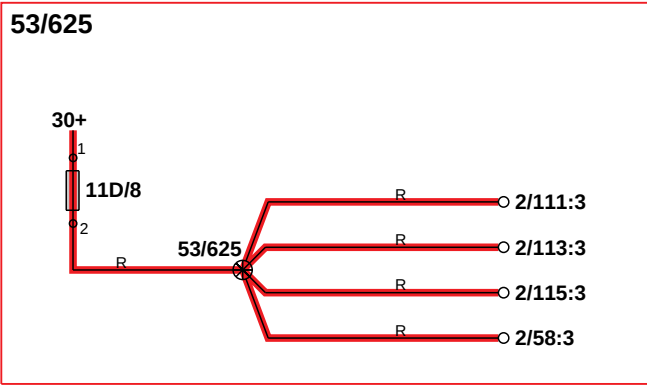
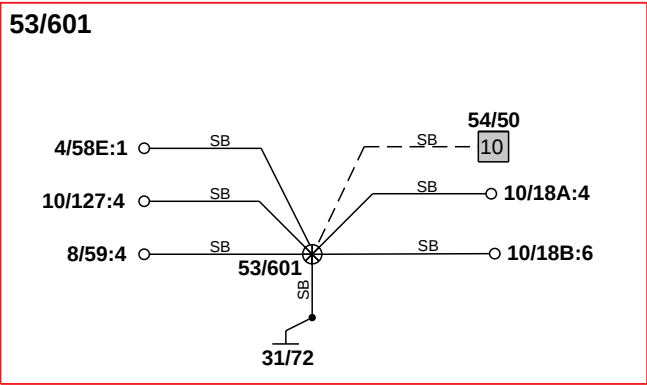
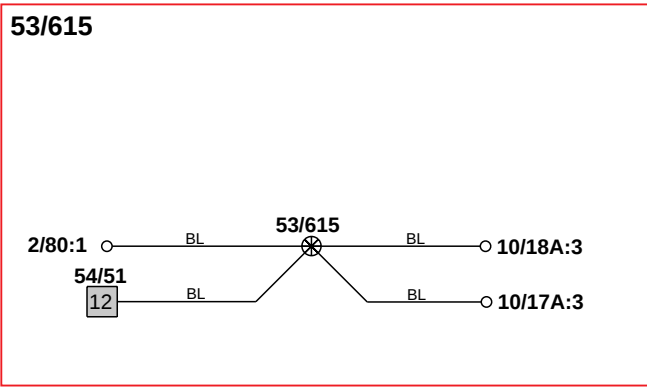
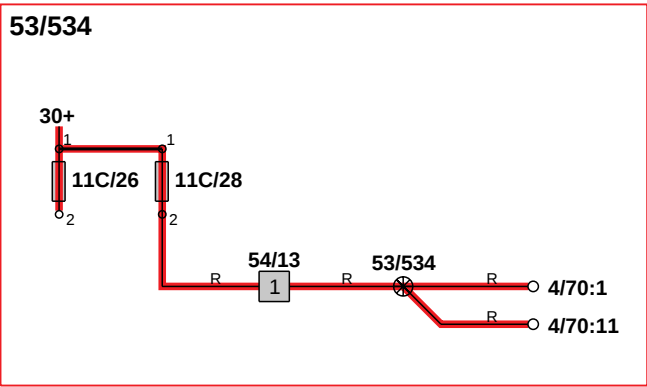
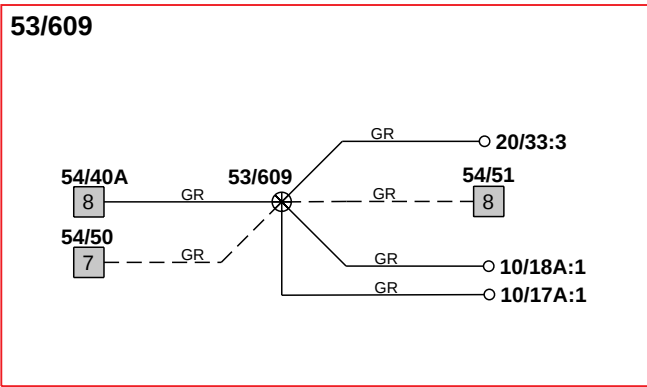
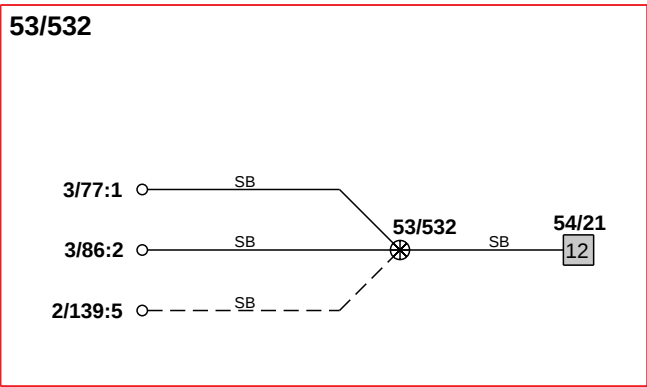
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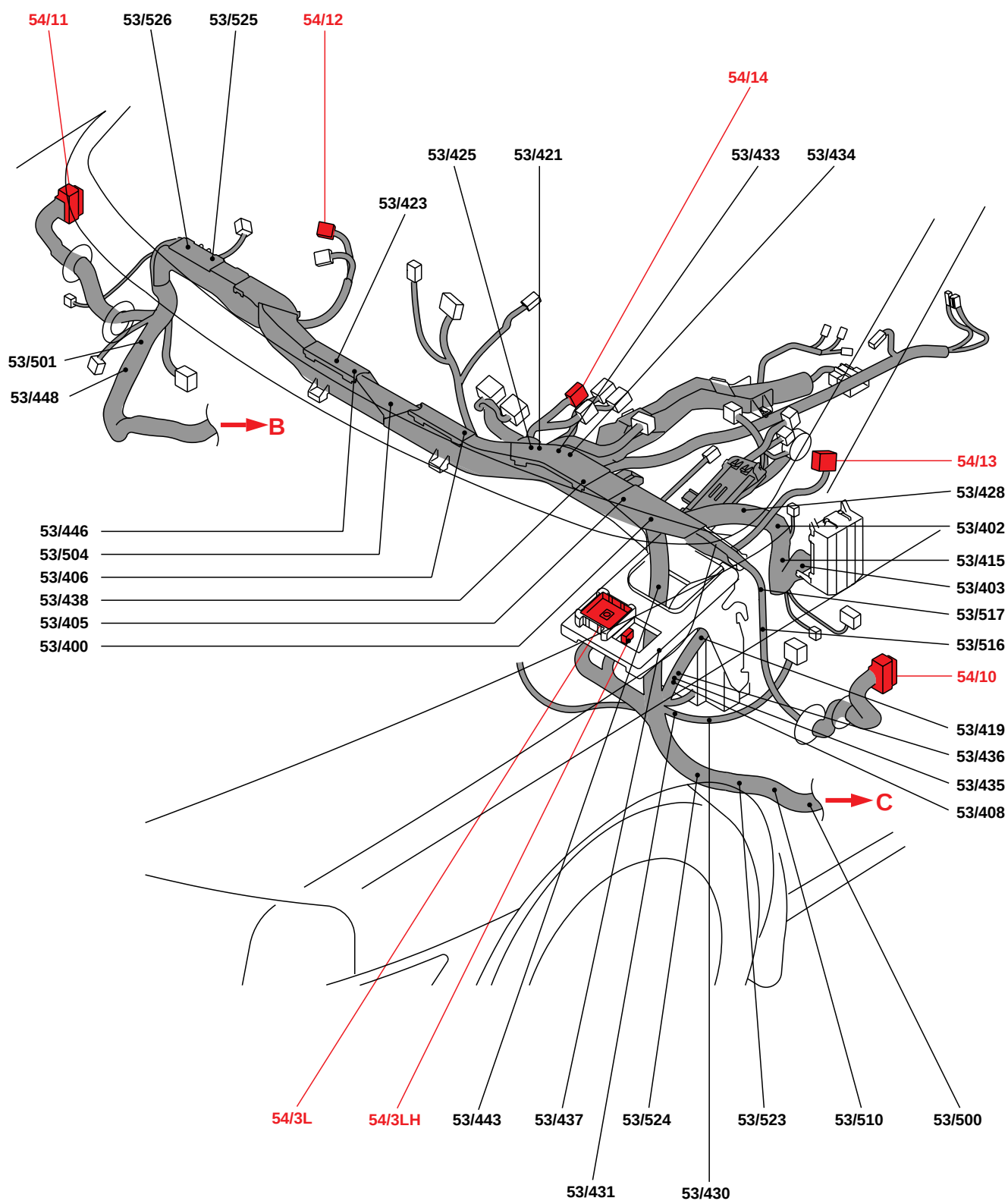
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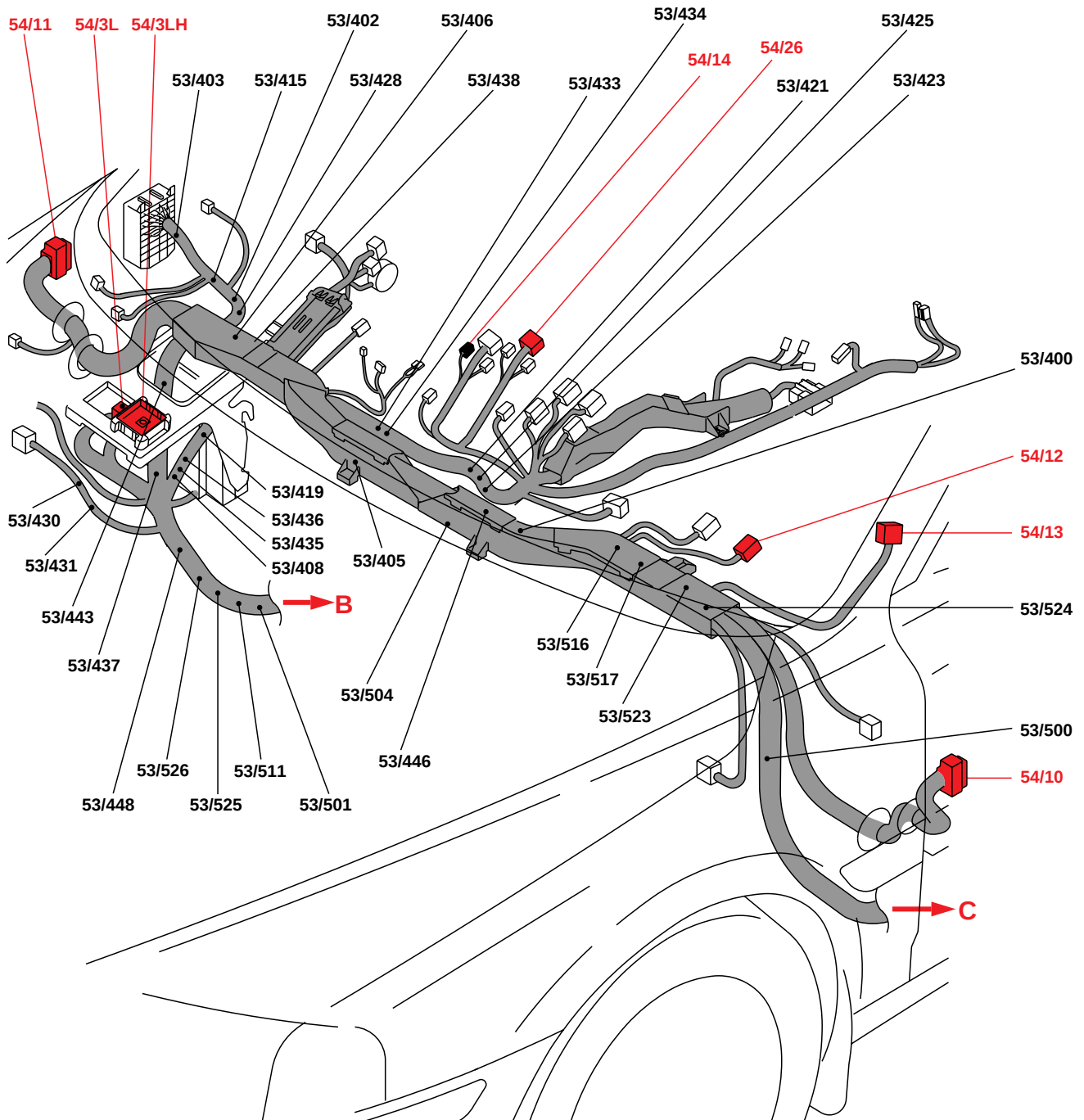
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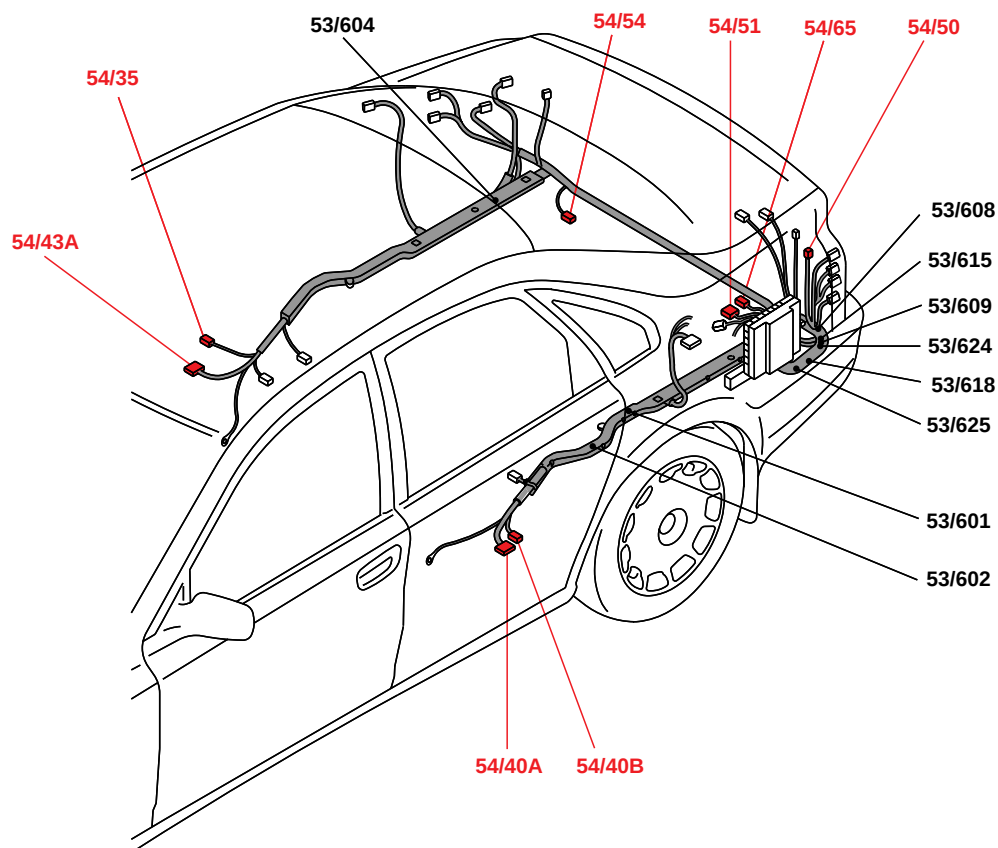
# Cable harness routing in vehicle Passenger compartment harness, front LHD



# Cable harness routing in vehicle Passenger compartment harness, front RHD

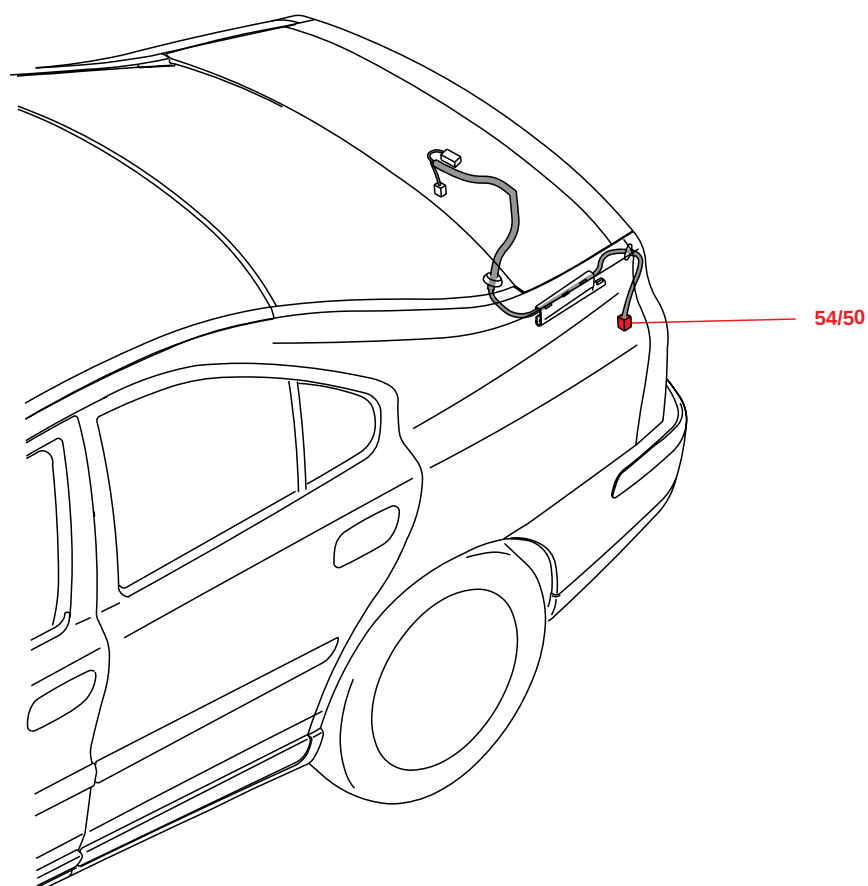
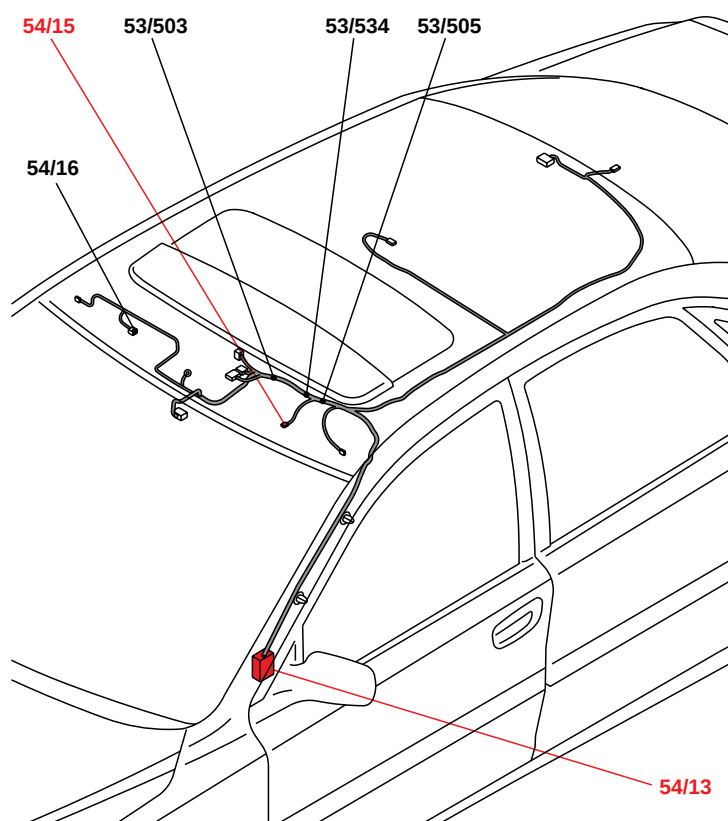


## Cable harness routing in vehicle Baggage compartment harness



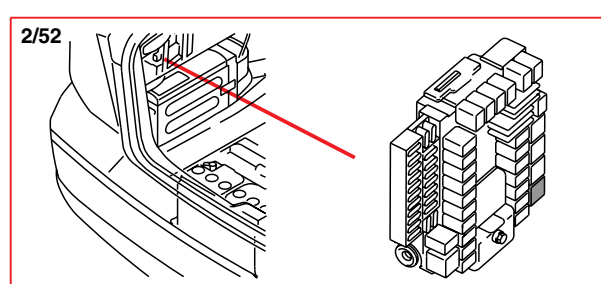
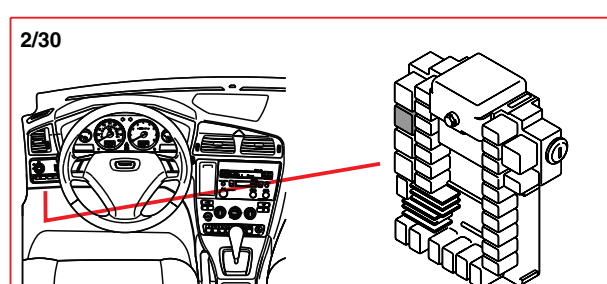
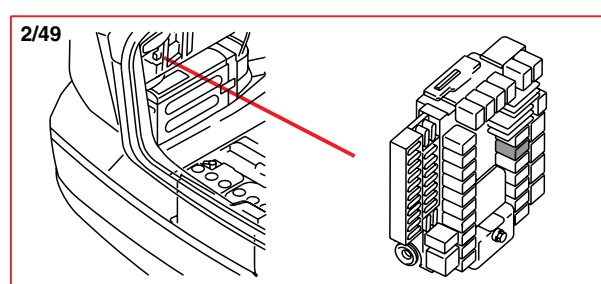
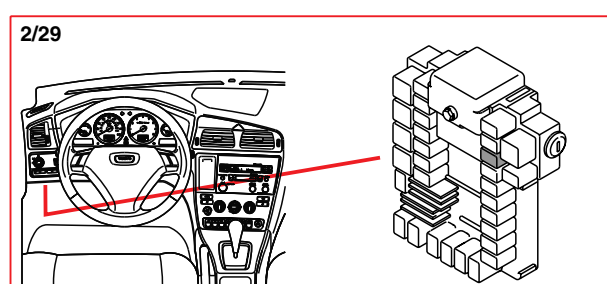
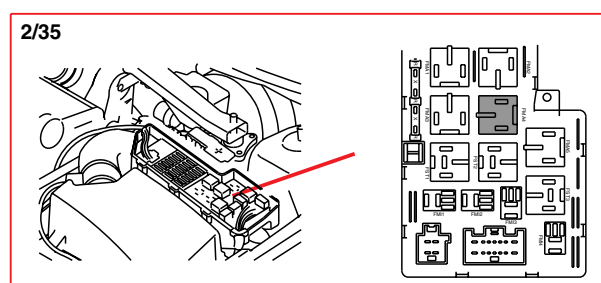
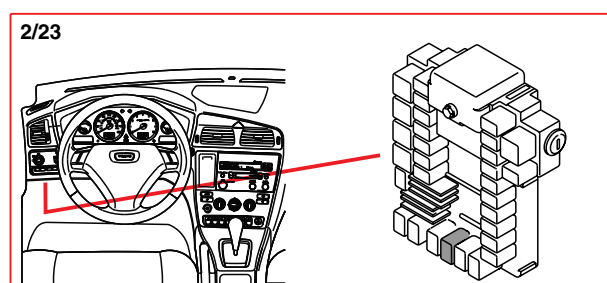
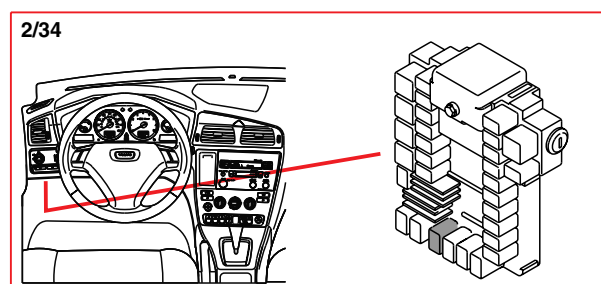
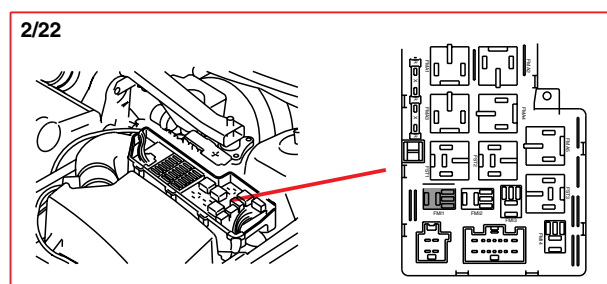
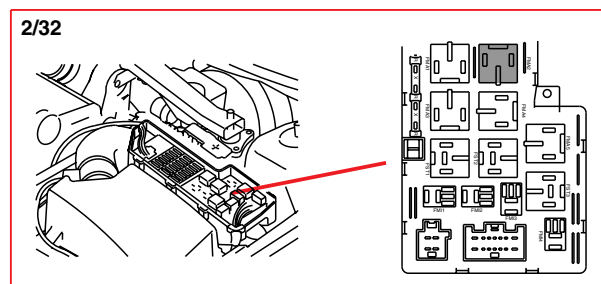
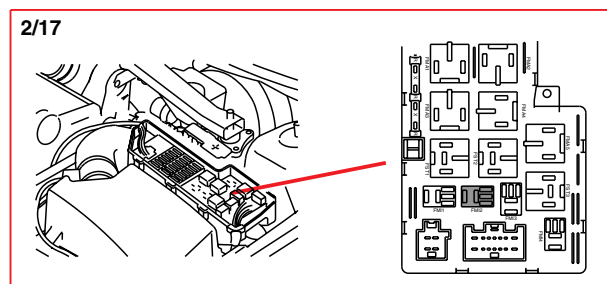
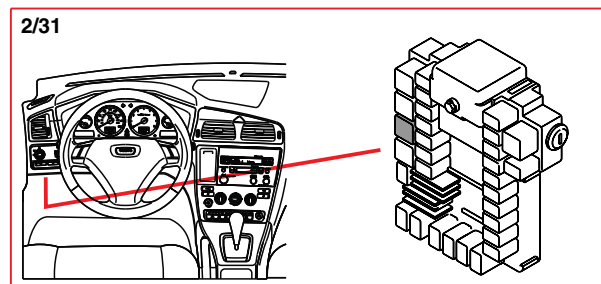
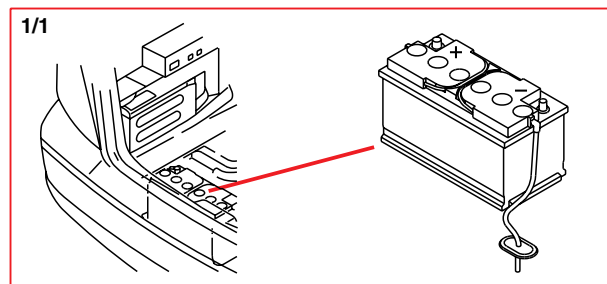
## Cable harness routing in vehicle

### Roof harness, trunk lid harness



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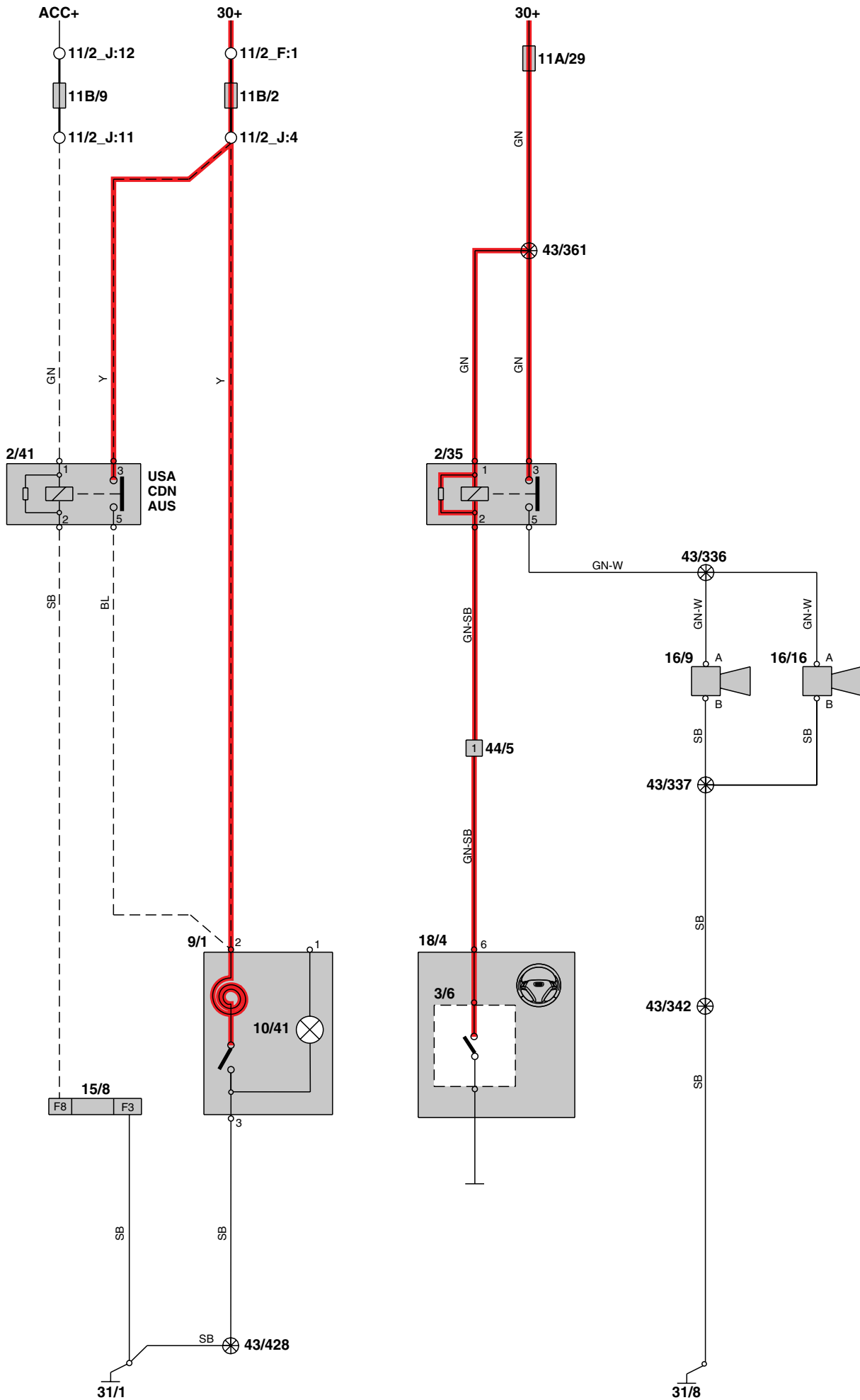
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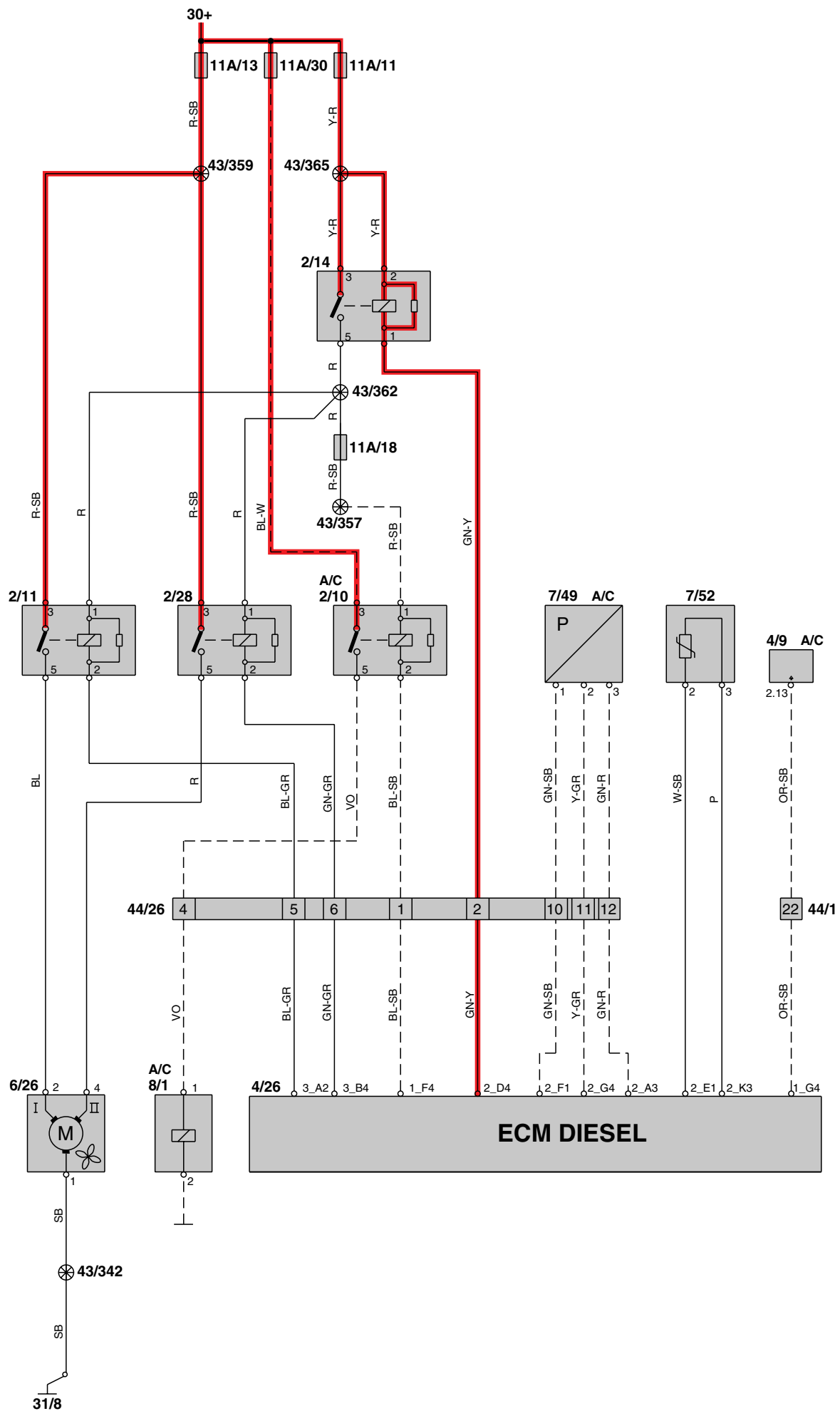
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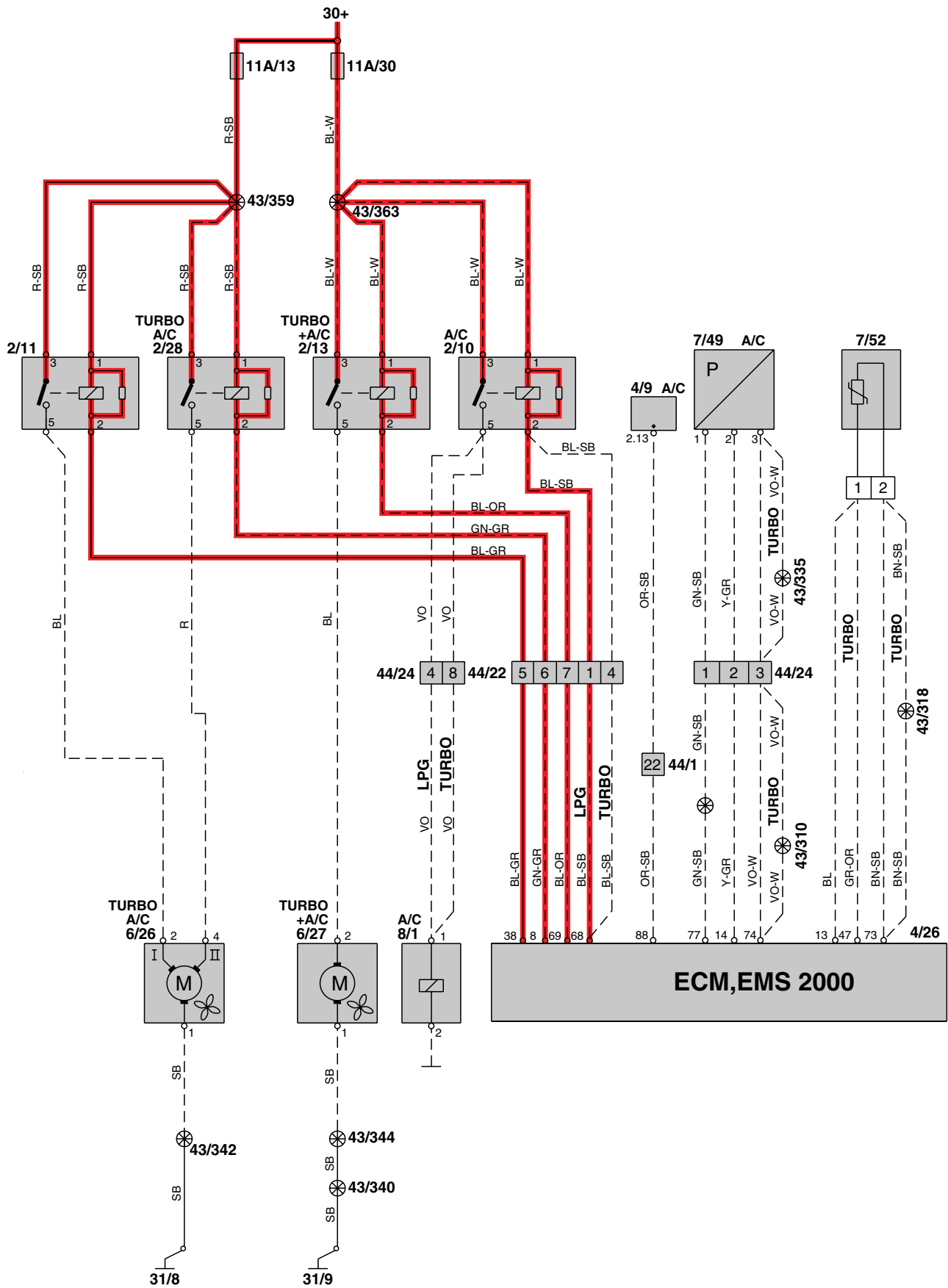
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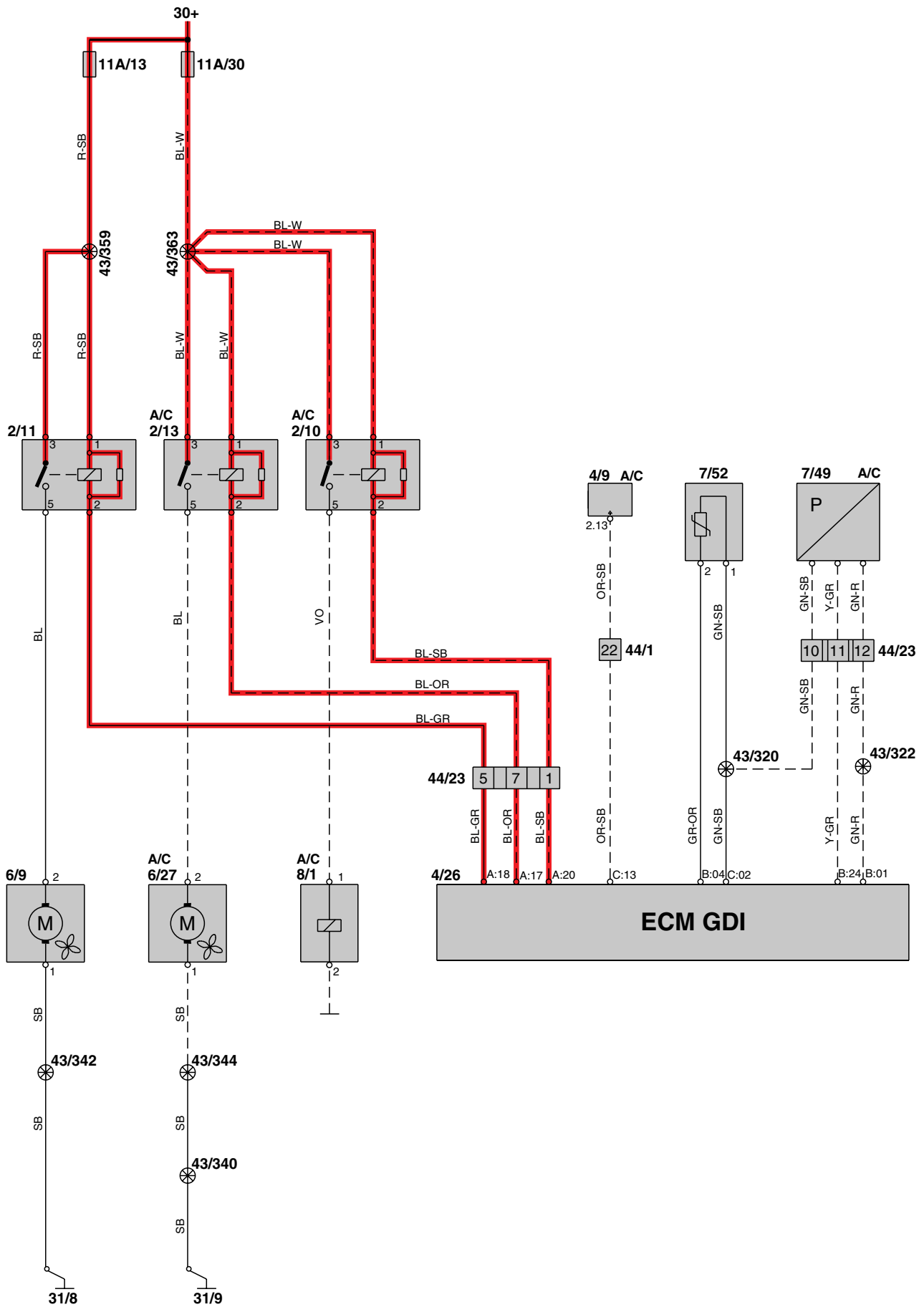


**Electric cooling fan/ AC compressor Diesel**

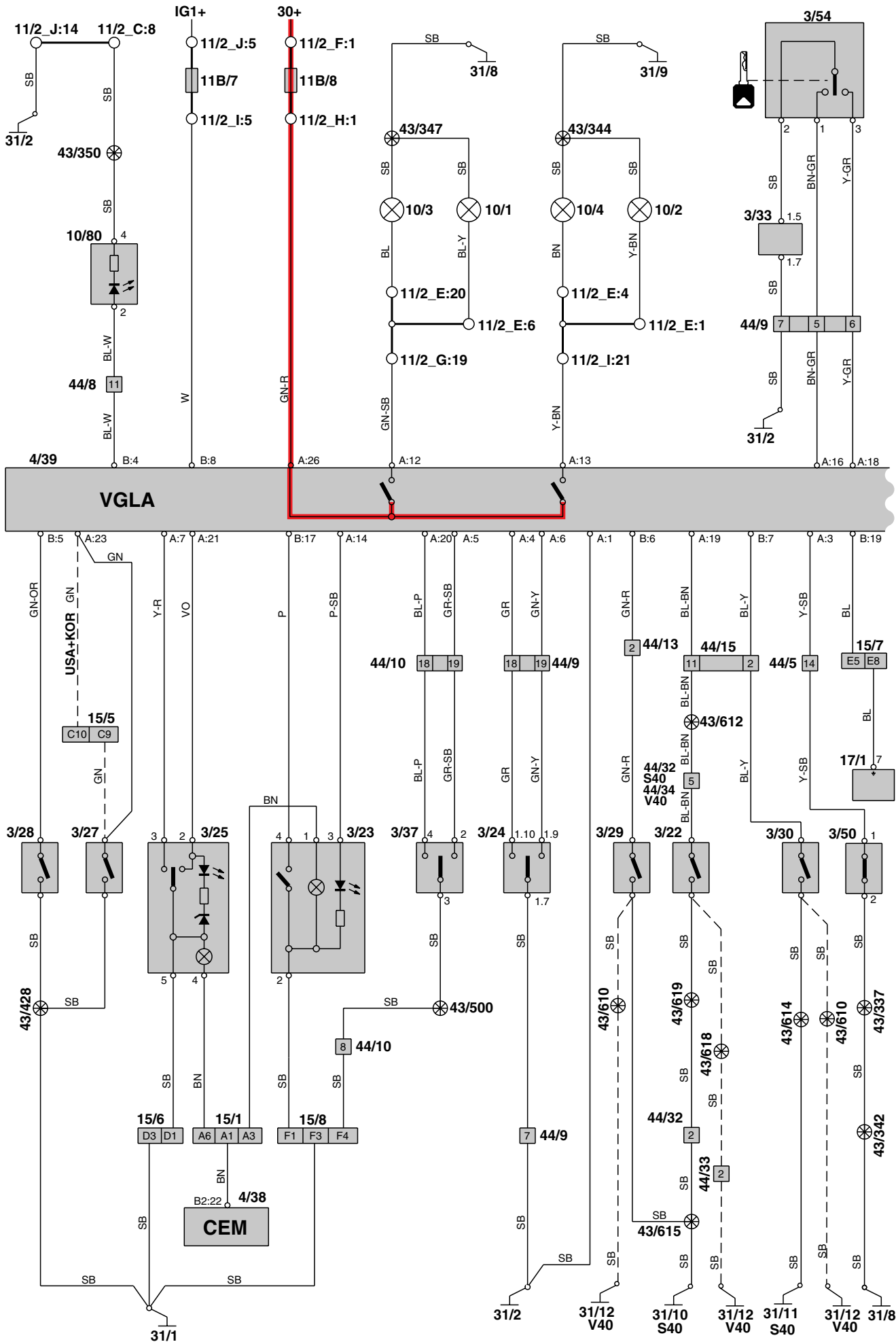




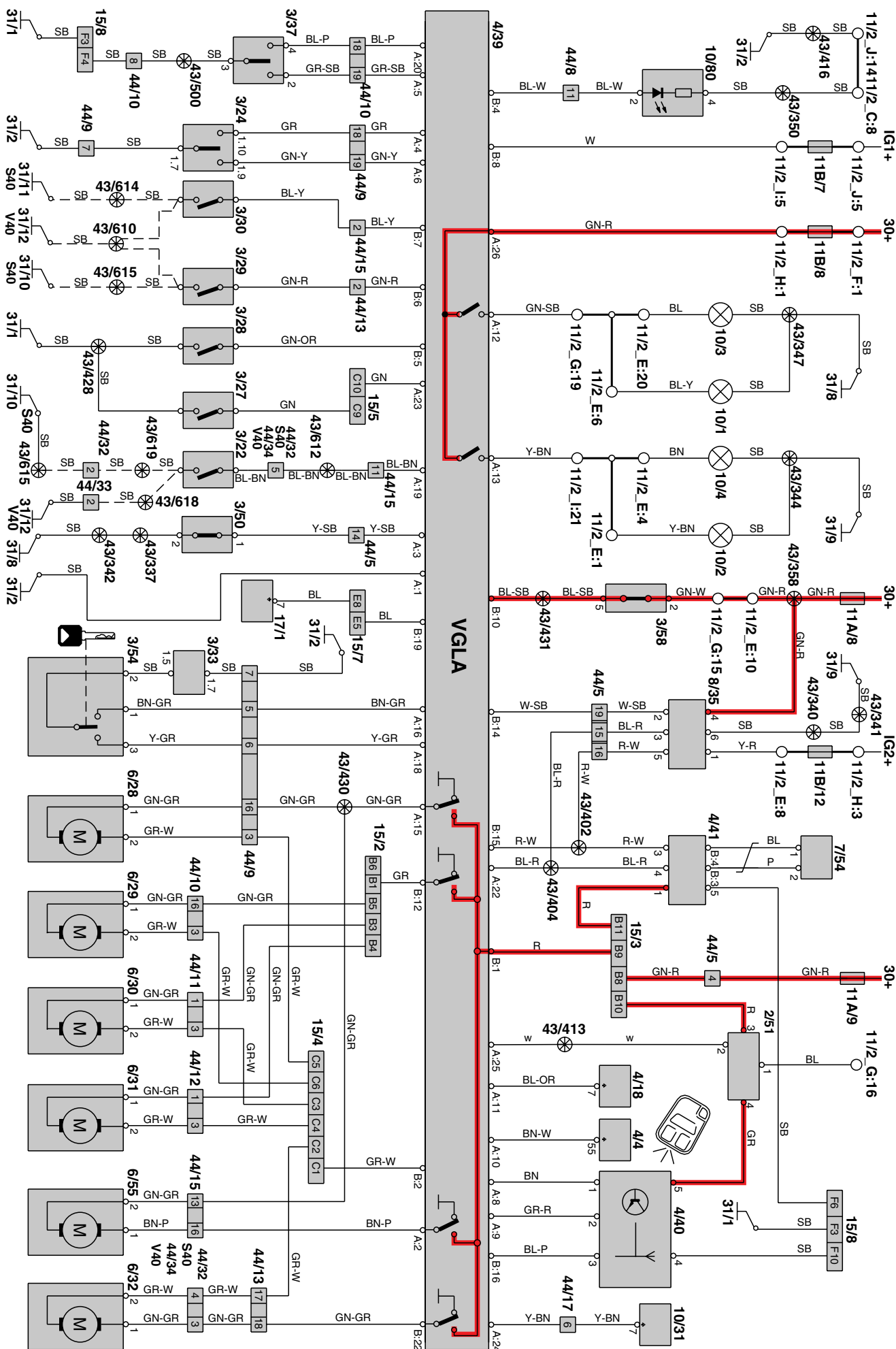
## Electric cooling fan/ AC compressor Melco 2



## Central locking and anti-theft alarm EU/OS

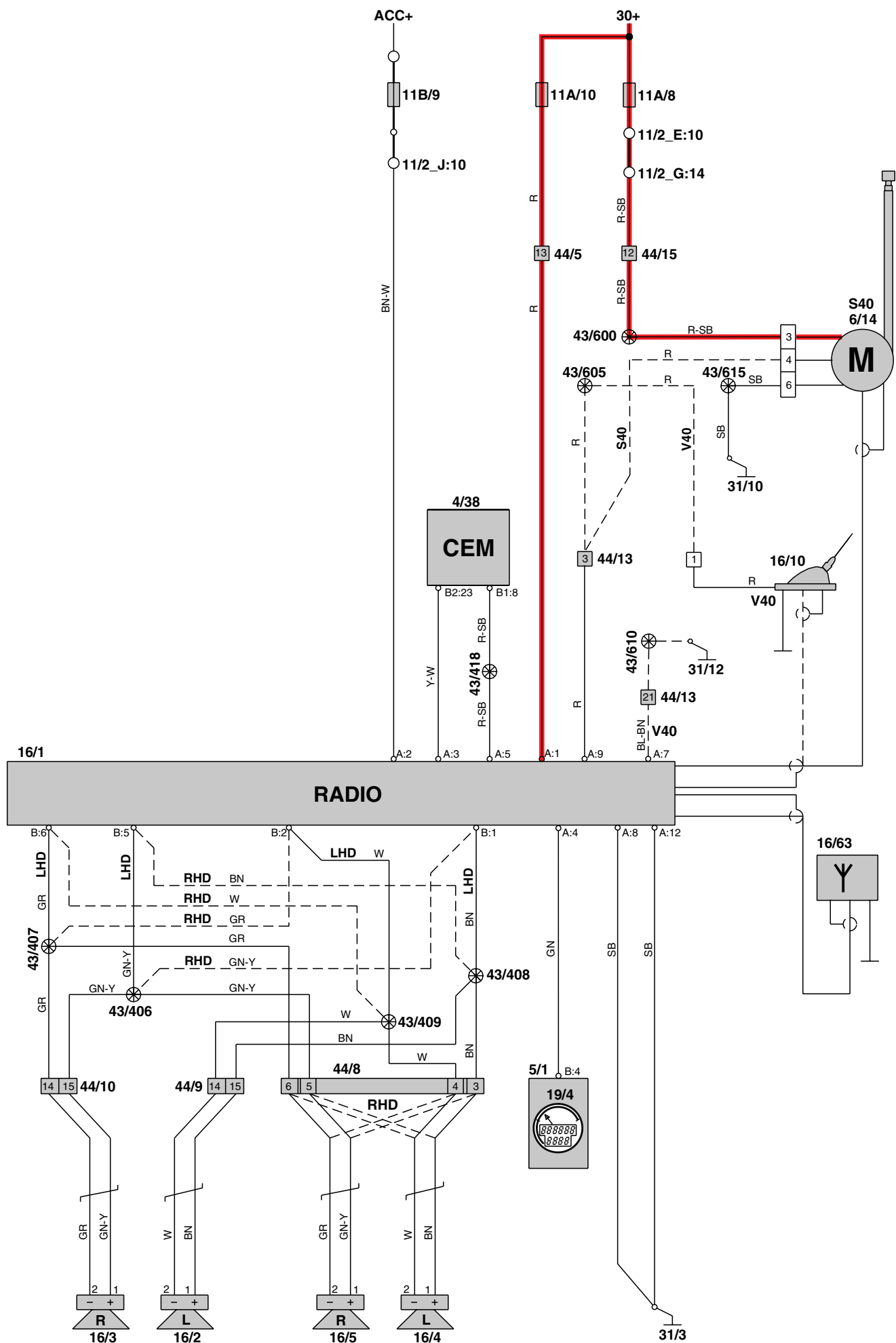


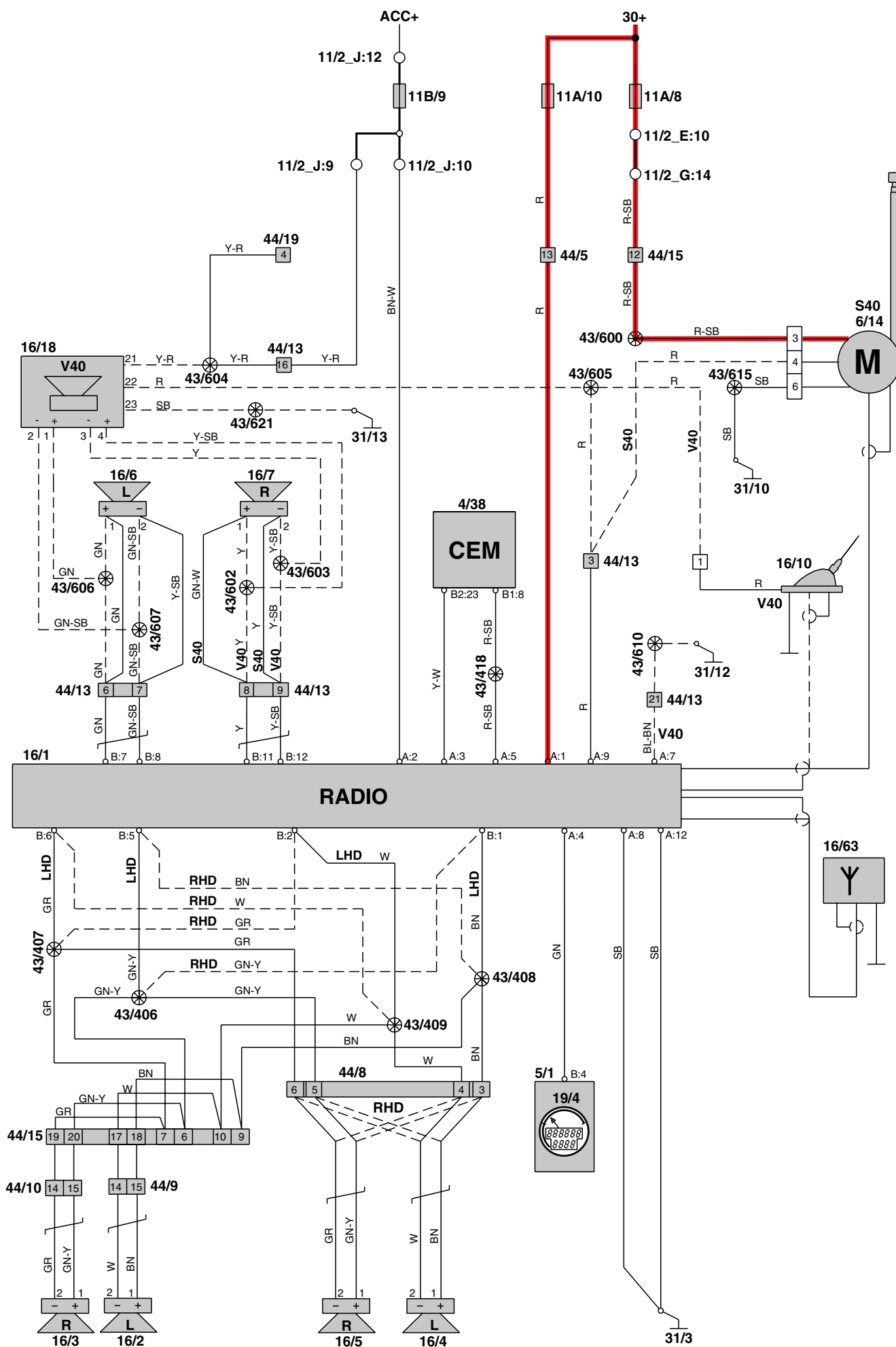
## Central locking and anti-theft alarm USA



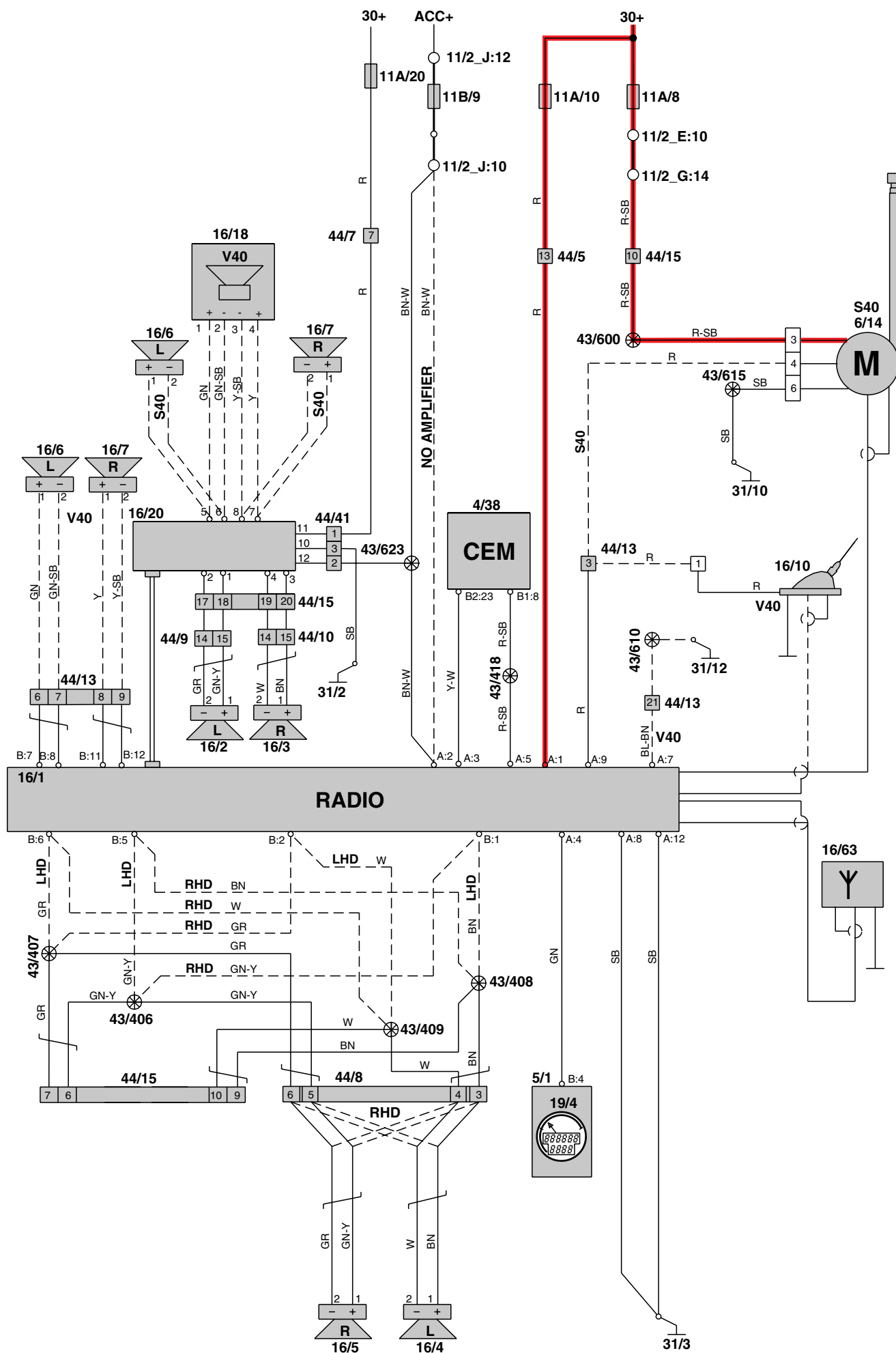
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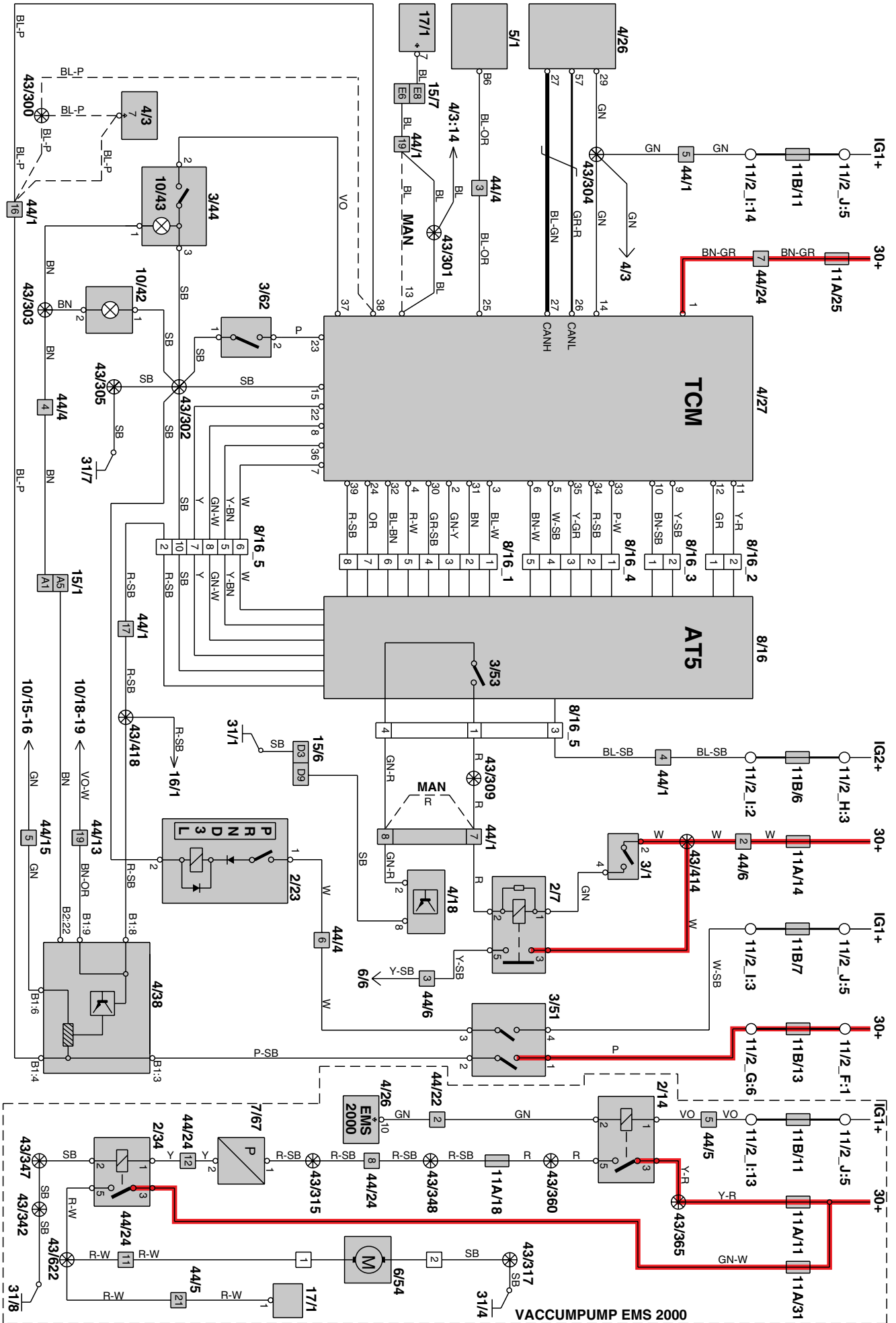




### Audio level 3

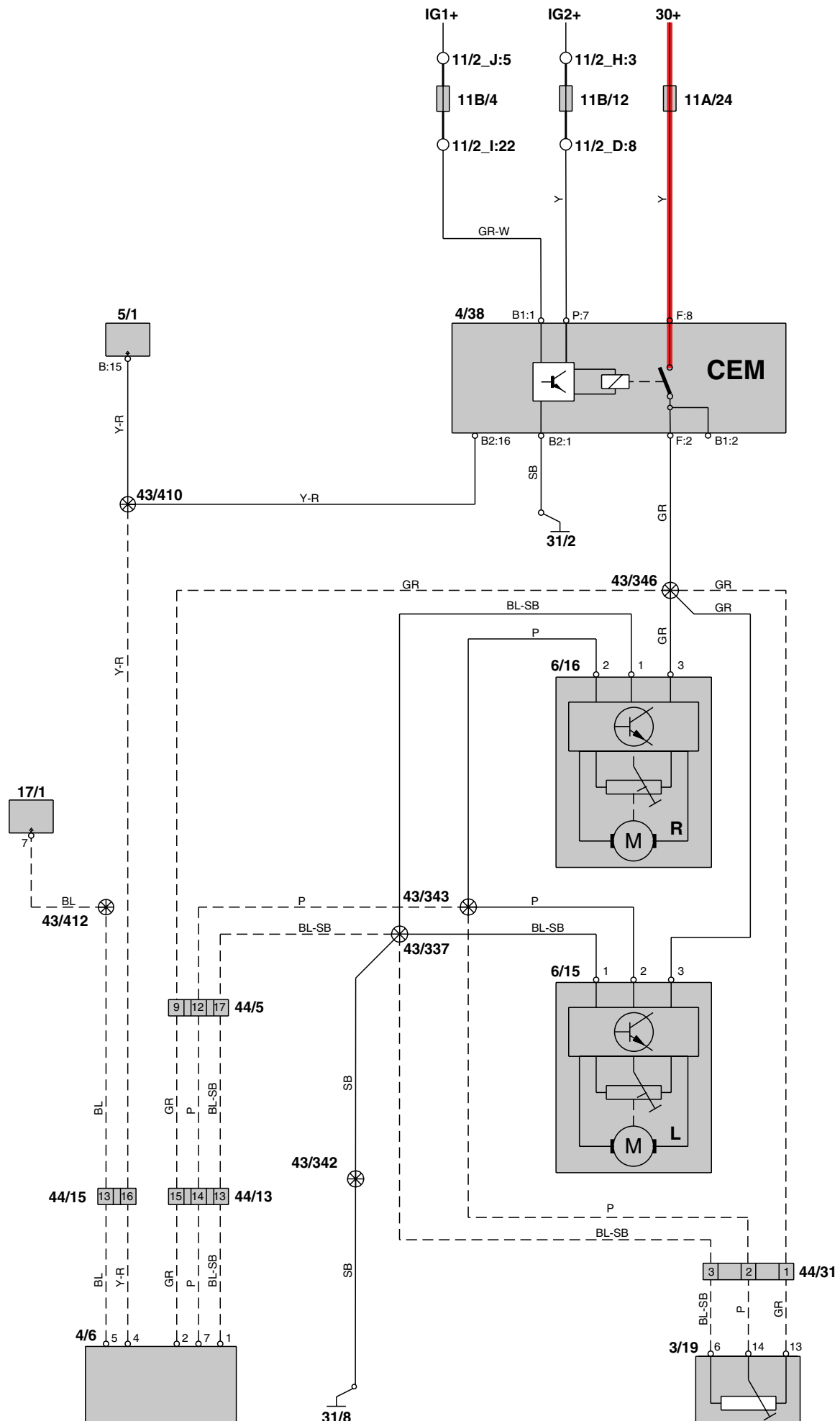


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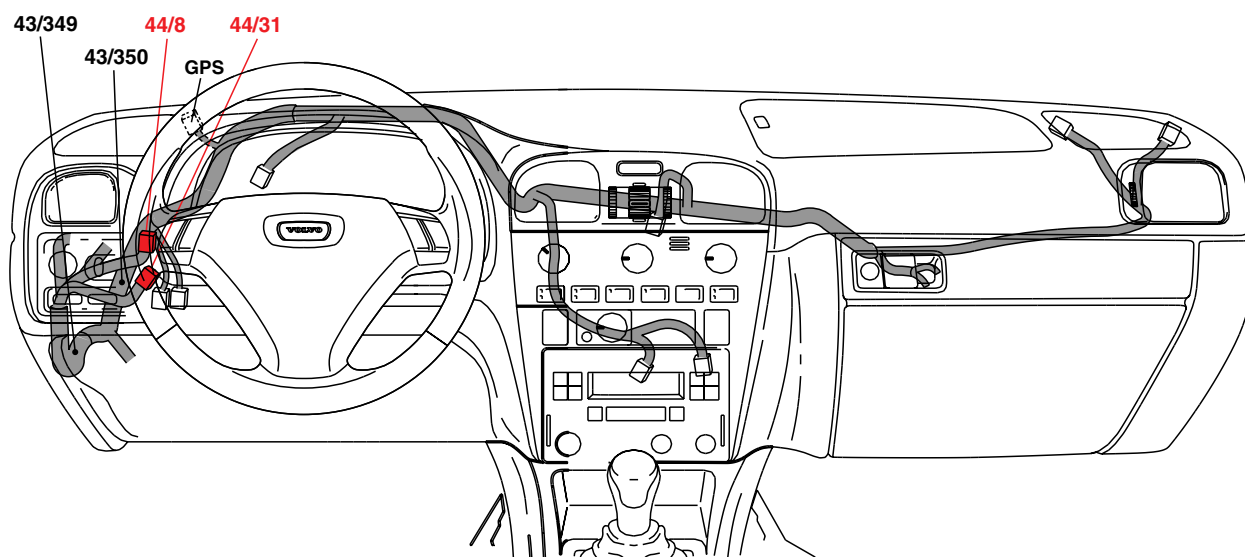
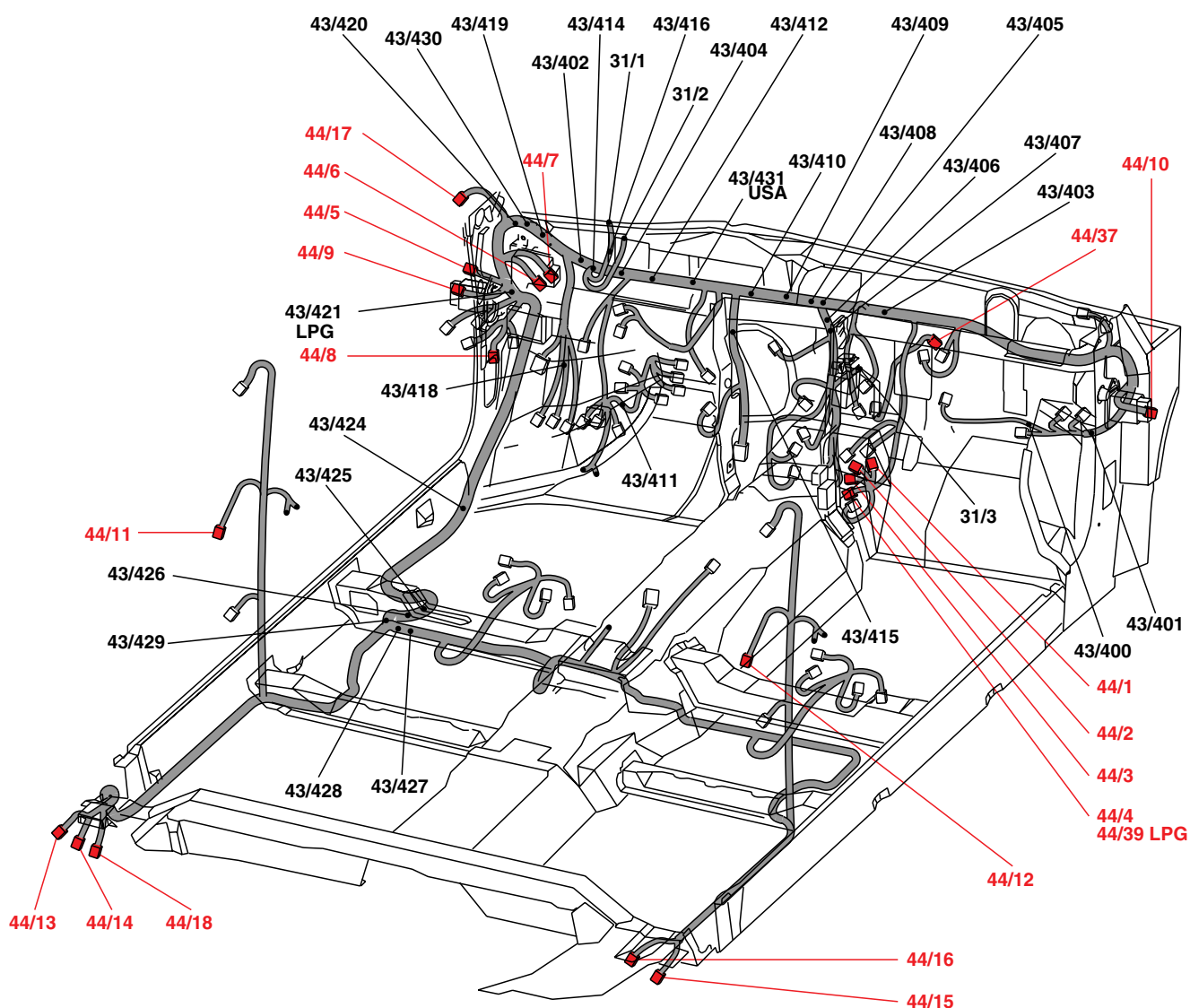


# Group 36

## Beam length adjustment

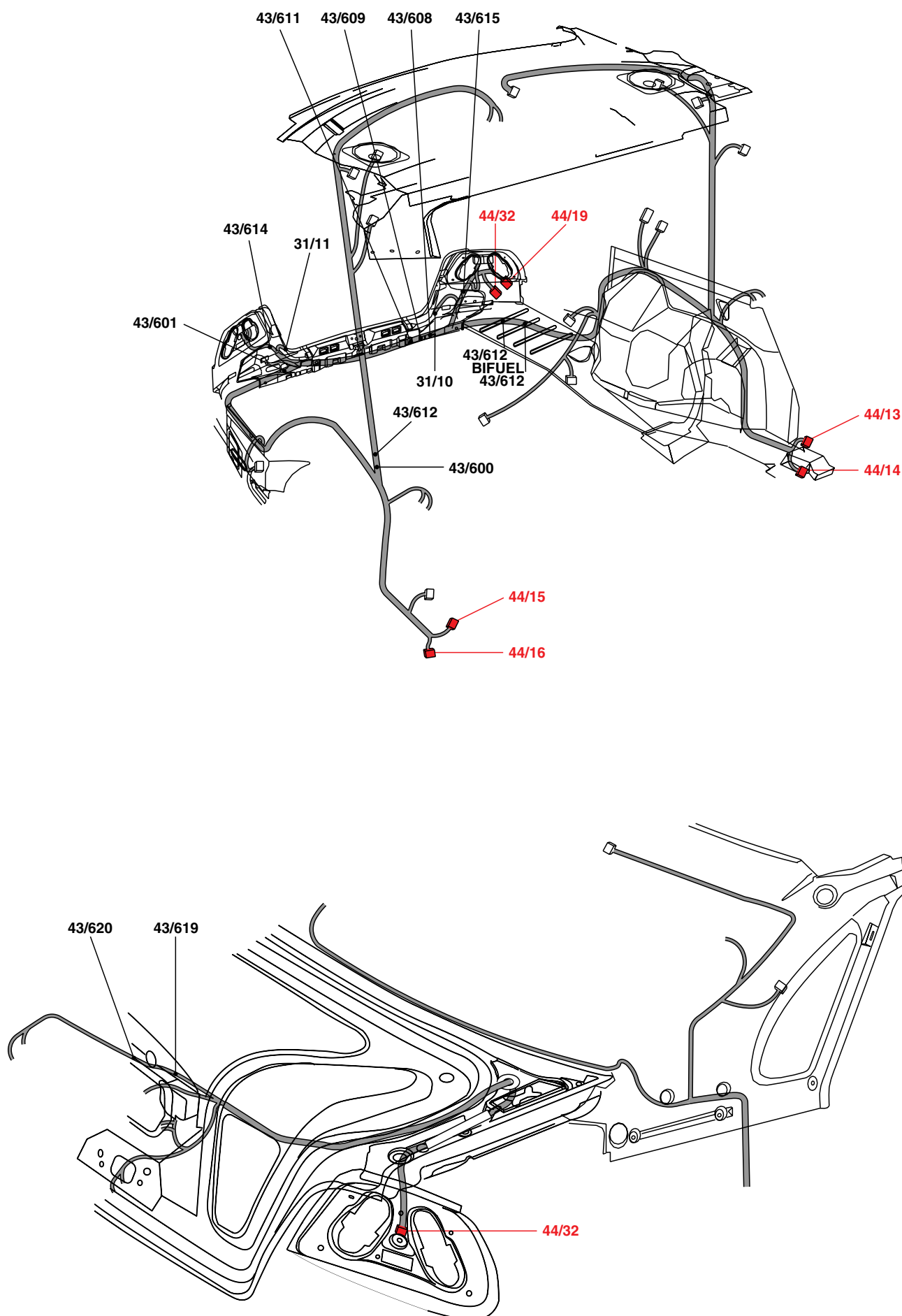


# Cable harness routing in vehicle Passenger compartment and dashboard harness

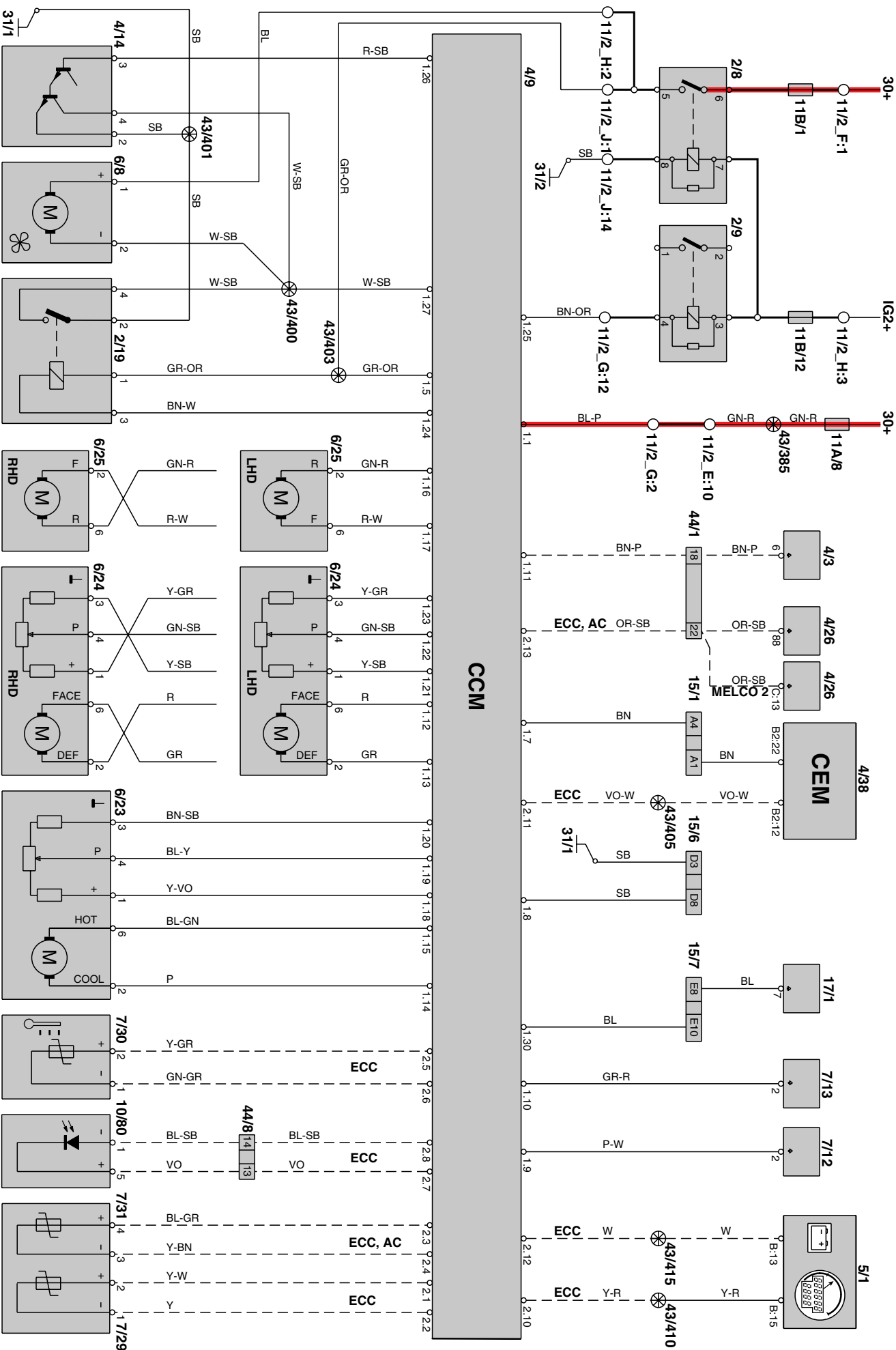


## Rear harness S40

## Cargo compartment harness S40



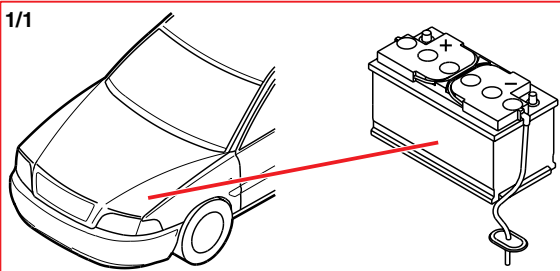
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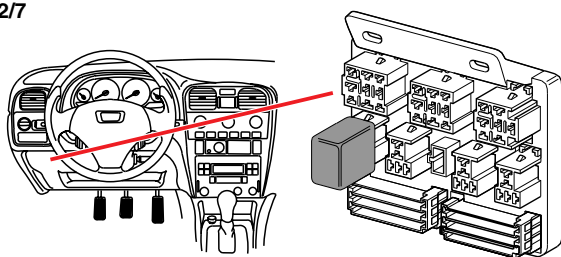
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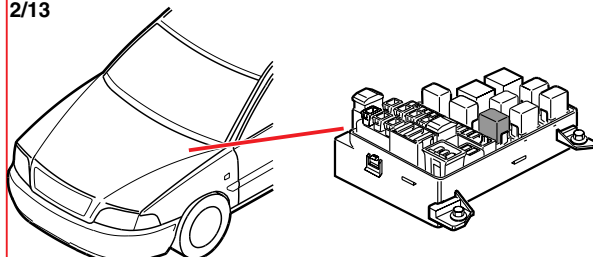
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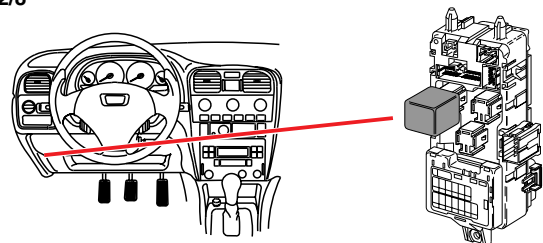
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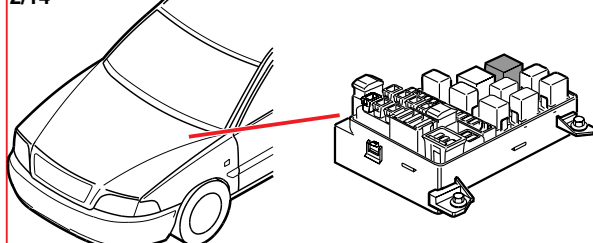
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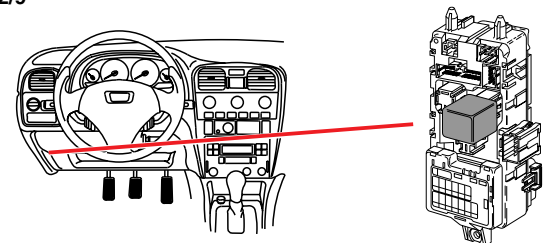
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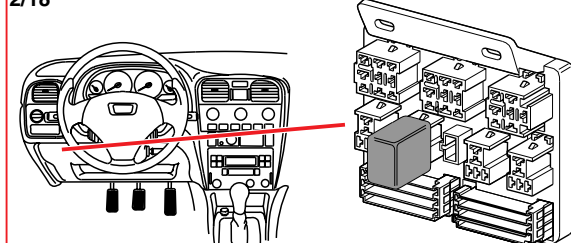
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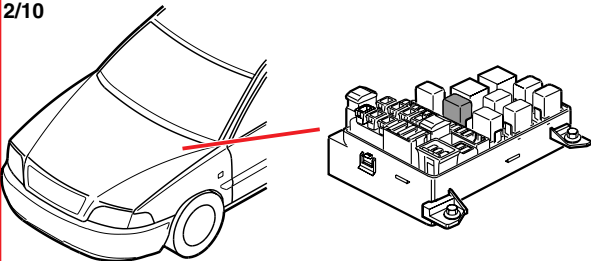
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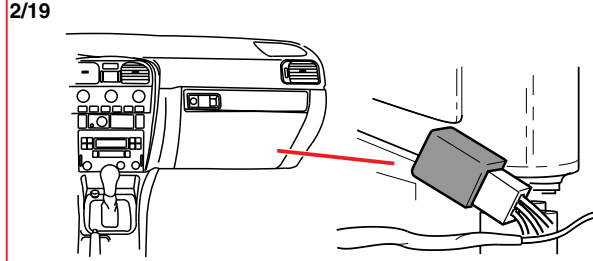
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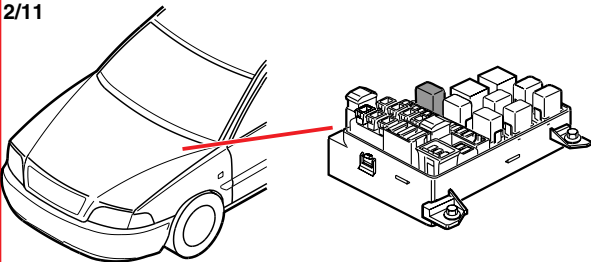
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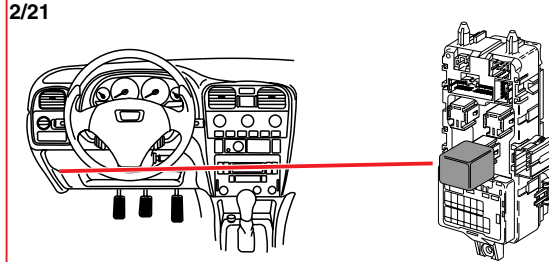
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# Connectors

## 44/1 EMS 2000

### 44/1 22-pin EMS 2000

| No. | Passenger compartment harness |                                                      |       | Engine harness EMS 2000 |                                                    |       |
|-----|-------------------------------|------------------------------------------------------|-------|-------------------------|----------------------------------------------------|-------|
| 1   | 5/1_B:23                      | Combined instrument panel                            | BL-Y  | 4/26:34                 | Engine management system                           | BL-Y  |
| 2   | 5/1_B:7                       | Combined instrument panel                            | P     | 43/379                  | Junction point                                     | P     |
| 3   | 5/1_B:22                      | Combined instrument panel                            | GR    | 43/315                  | Junction point                                     | R-SB  |
|     | 43/410                        | Junction point                                       | Y-R   |                         |                                                    |       |
| 4   | 11/2_L:2                      | Fuse box in passenger compartment                    | BL-SB | 3/10:1                  | Reversing light contact                            | BL-SB |
| 5   | 11/2_L:14                     | Fuse box in passenger compartment                    | GN    | 4/26:29                 | Engine management system                           | GN    |
| 6   | 4/18:4                        | Control module, electronic immobilizer               | P-W   | 4/26:56                 | Engine management system                           | P-W   |
| 7   | 2/7:2                         | Starter motor relay                                  | R     | 44/1:8                  | Connector                                          | R     |
|     | 7/14:2                        | Catalytic converter temperature sensor               | GN-SB |                         |                                                    |       |
| 8   | 4/18:2                        | Control module, electronic immobilizer               | GN-R  | 44/1:7                  | Connector                                          | R     |
|     | 3/15:2                        | Clutch pedal contact, cruise control                 | BN-SB |                         |                                                    |       |
| 9   | 3/11:9                        | Wiper switch, windshield/rear window                 | GR-R  | 6/1:2                   | Windshield wiper motor                             | GR-R  |
| 10  | 3/11:10                       | Wiper switch, windshield/rear window                 | BL-R  | 6/1:1                   | Windshield wiper motor                             | BL-R  |
| 11  | 4/38_B2:12<br>43/405          | Central Electronic Module CEM<br>Junction point, ECC | VO-W  | 6/1:4                   | Windshield wiper motor                             | VO-W  |
| 12  | 11/2_G:8                      | Fuse box in passenger compartment                    | BL-GN | 6/1:3                   | Windshield wiper motor                             | BL-GN |
| 13  | 5/1_B:20                      | Combined instrument panel                            | Y-W   | 7/7                     | Oil pressure sensor                                | Y-W   |
| 14  | 11/2_L:9                      | Fuse box in passenger compartment                    | Y     | 7/9:1                   | Brake fluid level sensor                           | Y     |
| 15  | 5/1_B:10                      | Combined instrument panel                            | GN-Y  | 43/380                  | Junction point                                     | GN-Y  |
| 16  | 4/38_B1:4                     | Central Electronic Module CEM                        | BL-P  | 43/305                  | Junction point                                     | SB    |
| 17  | 43/418                        | Junction point                                       | R-SB  | 8/16_5:2<br>3/10:2      | Automatic transmission<br>Reversing light contact  | R-SB  |
| 18  | 4/9_1:11                      | Climate Control Module (CCM)                         | BN-P  | 4/3:6                   | Control module, Dynamic Stability Assistance (DSA) | BN-P  |
|     | 7/14:1                        | Catalytic converter temperature sensor               | W-SB  |                         |                                                    |       |
| 19  | 15/7:E6                       | Distribution rail                                    | BL    | 4/75_J2:27              | Control module LPG                                 | BL    |
| 20  | 5/1_B:13<br>43/415            | Combined instrument panel<br>Junction point, ECC     | W     | 6/7:61                  | Generator                                          | W     |
| 21  | 5/1_B:5                       | Combined instrument panel                            | BN-GR | 4/26:40                 | Engine management system                           | BN-GR |
| 22  | 4/9_2:13                      | Climate Control Module (CCM)                         | OR-SB | 4/26:88                 | Engine management system                           | OR-SB |

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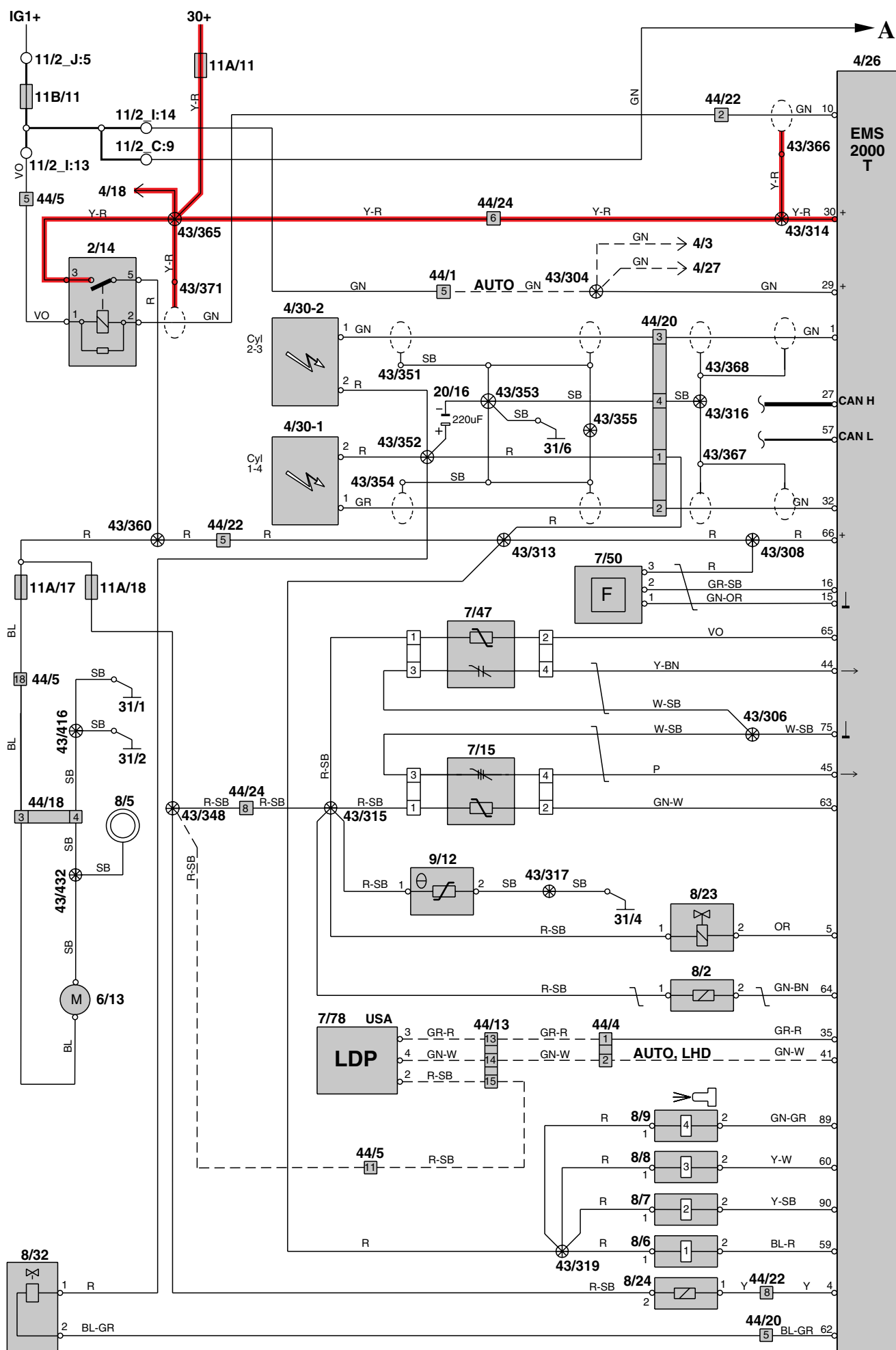
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**Order number TP 3965202**

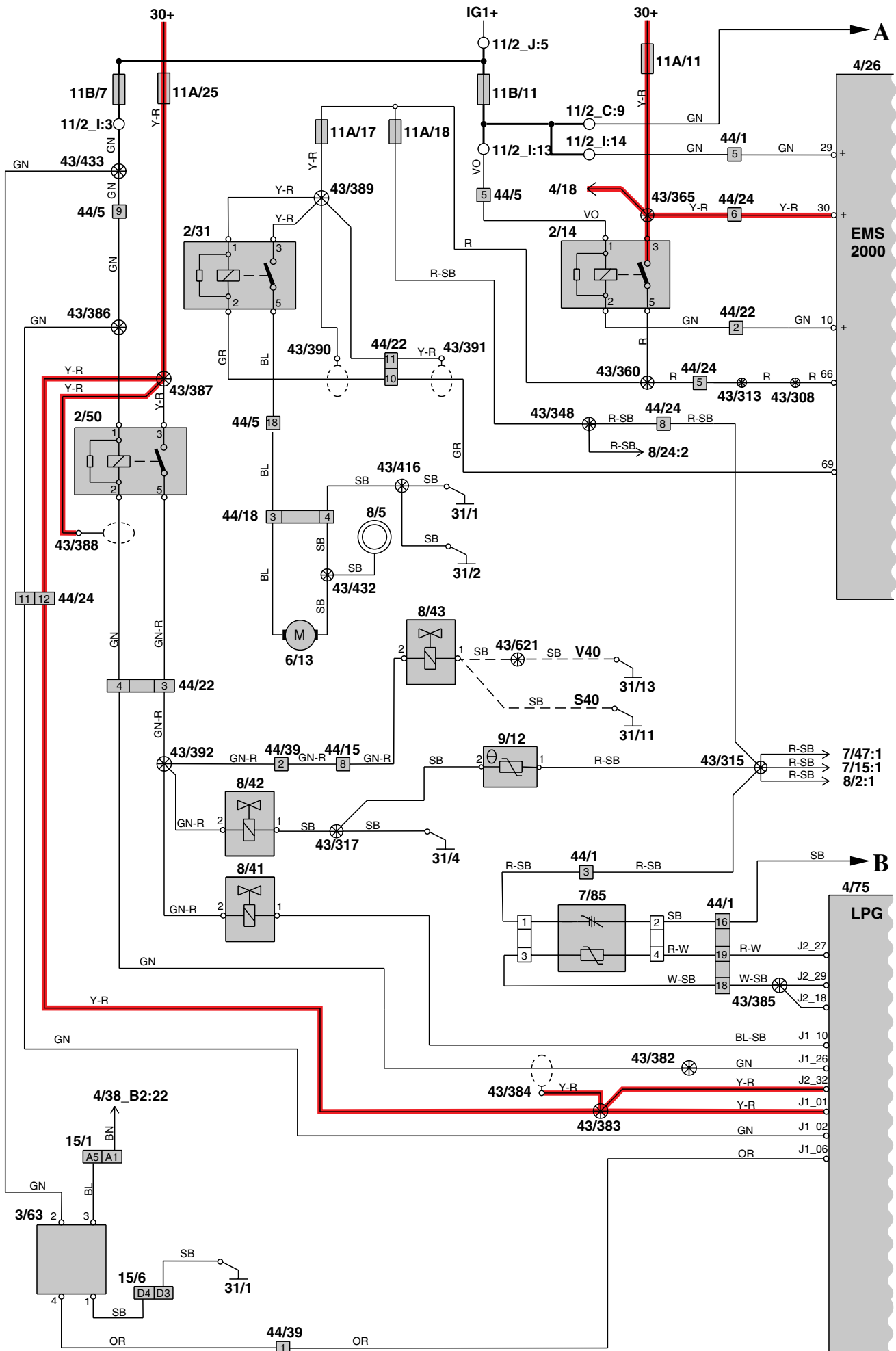
Replaces previous manual TP 3965201

Volvo retains the right to make amendments

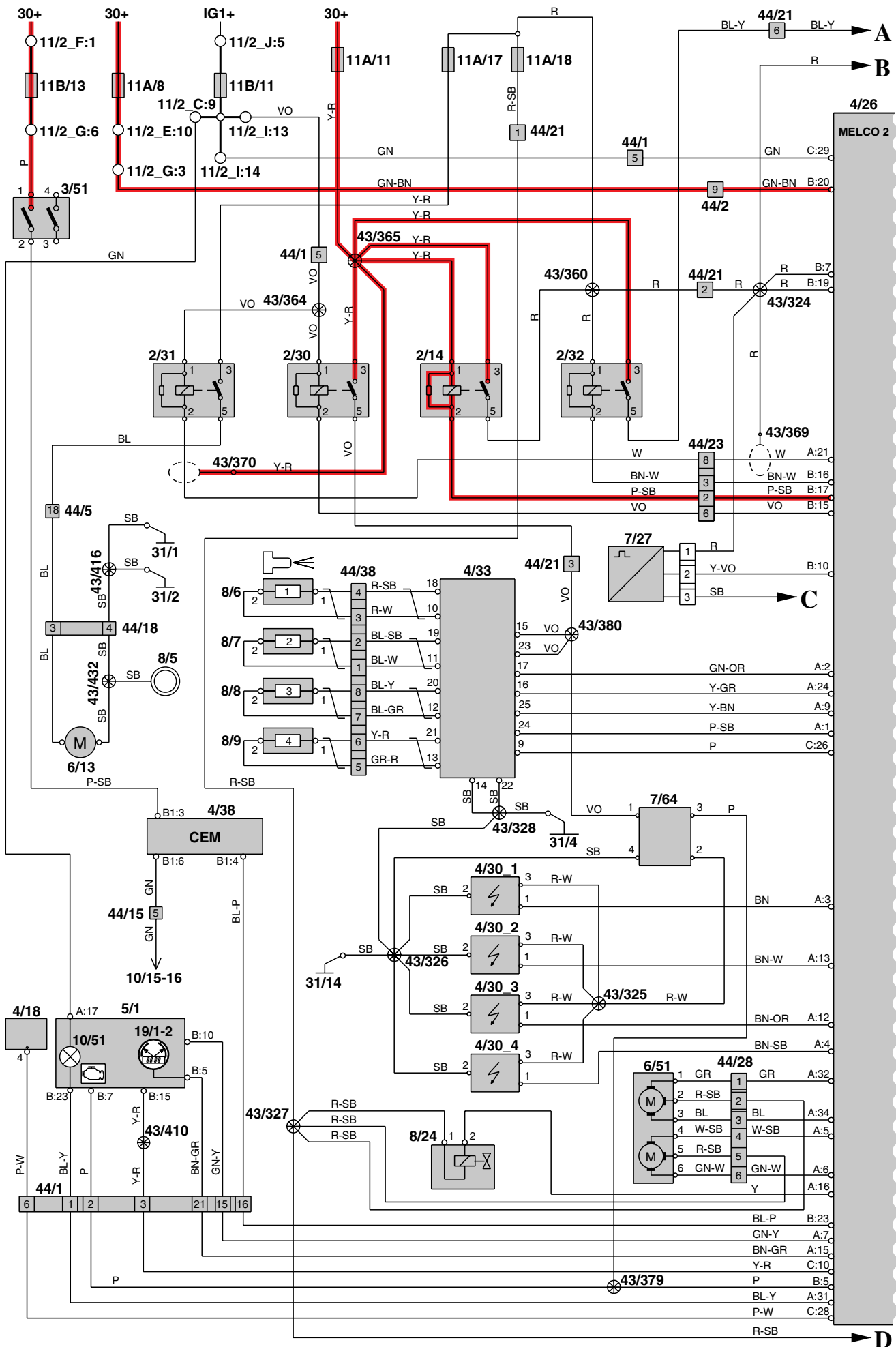
## Engine management system, EMS 2000 Turbo



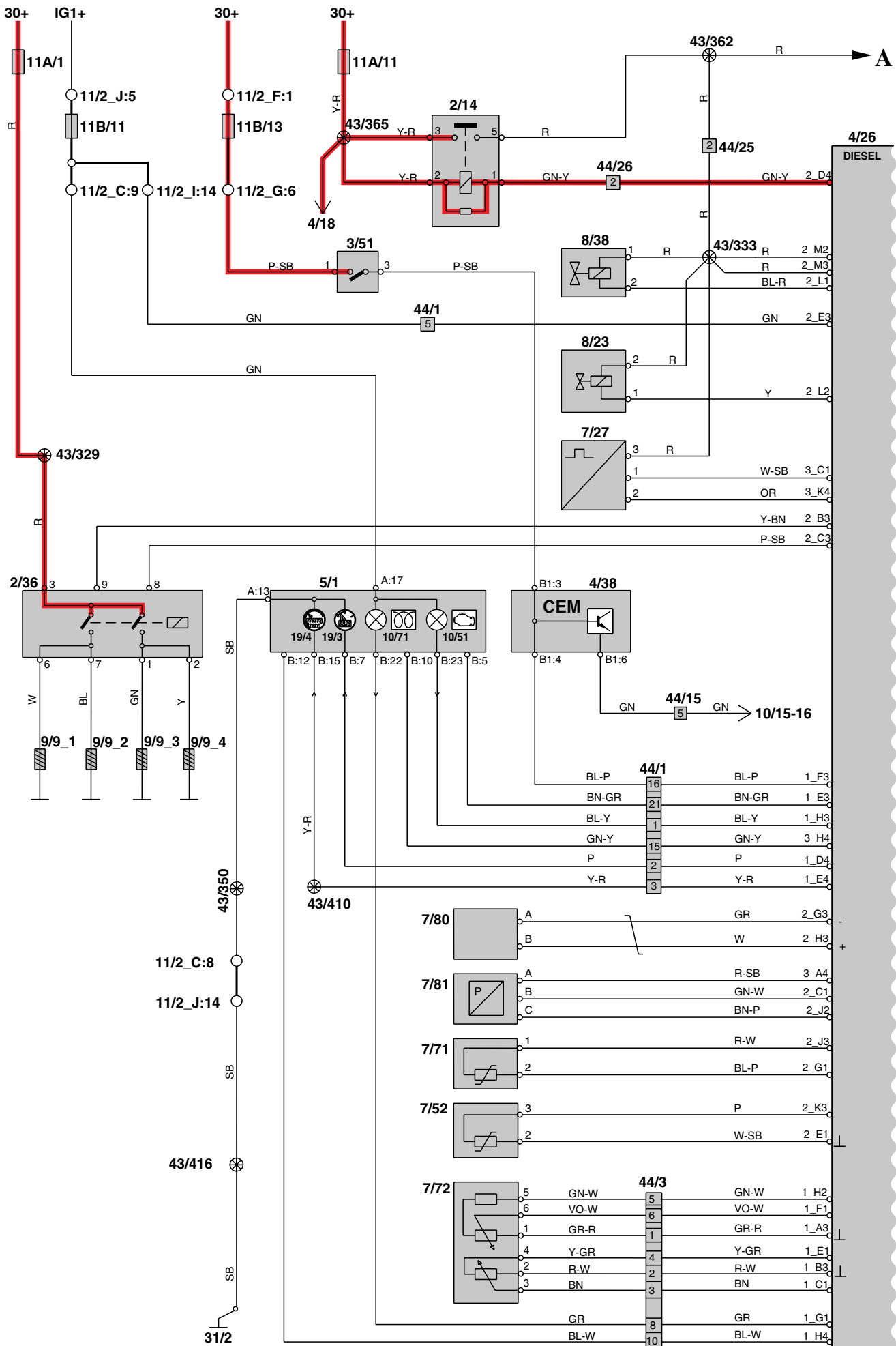
# Engine management system, Bifuel

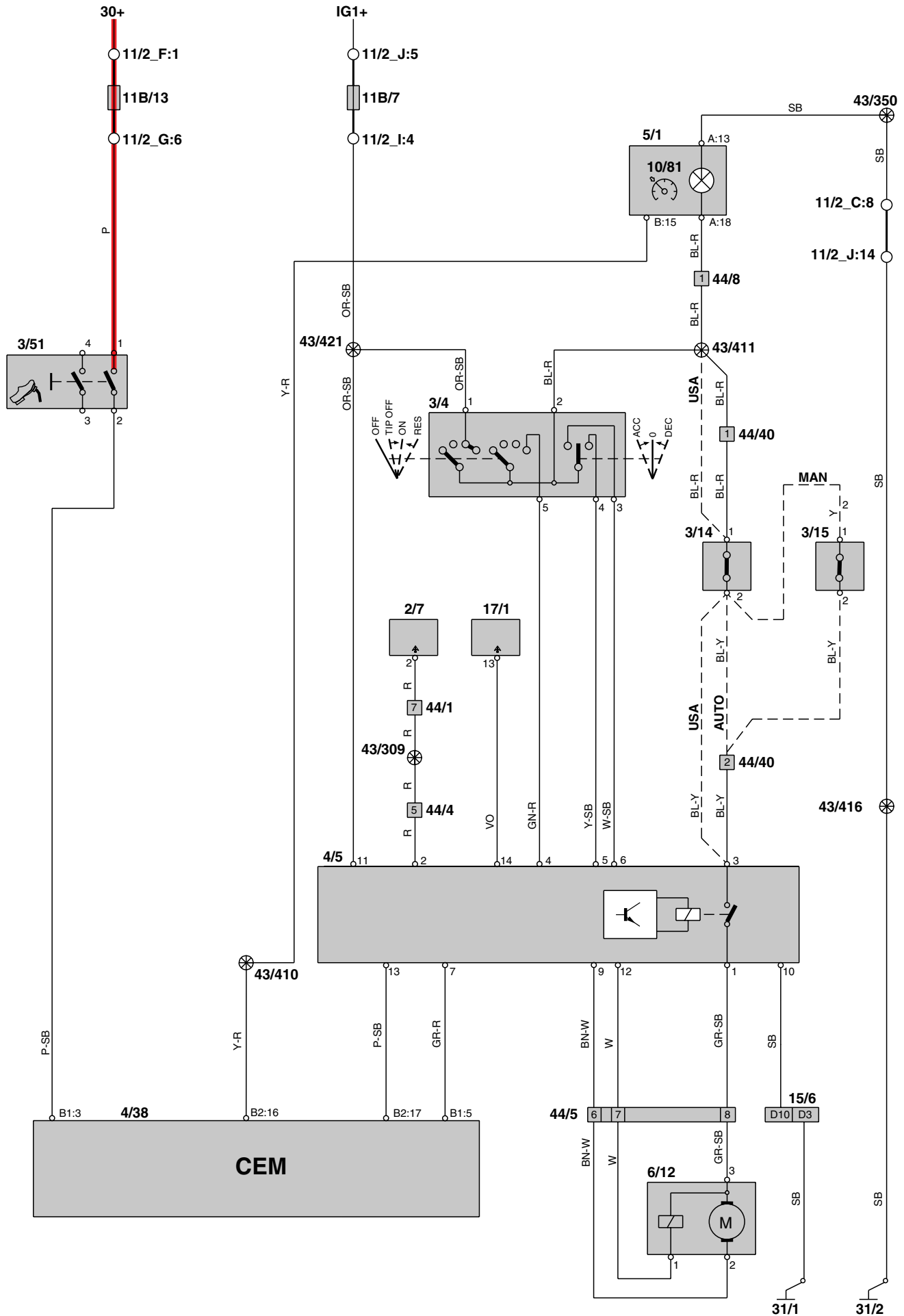


## Engine management system, Melco 2

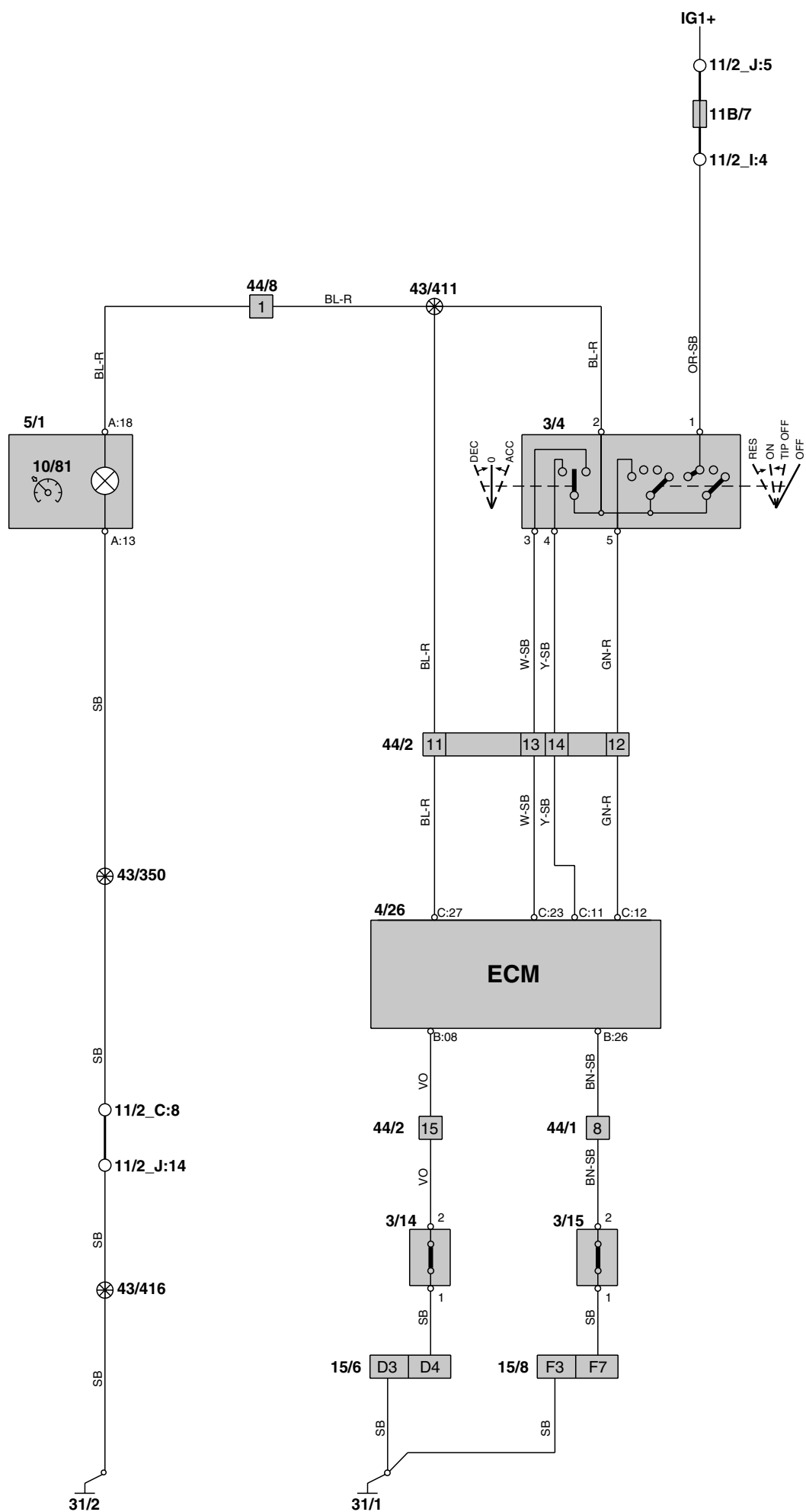


# Engine management system, Diesel

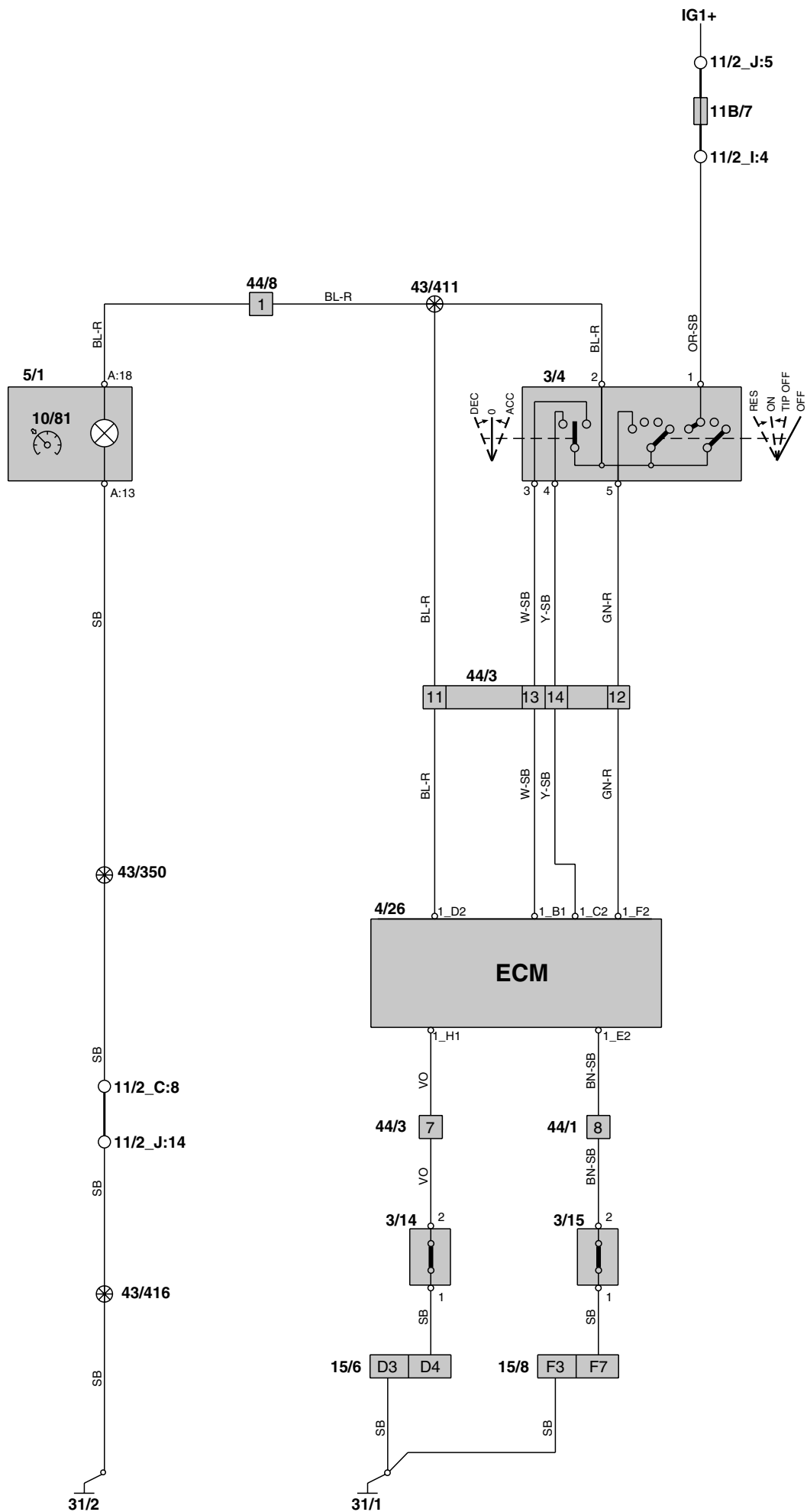




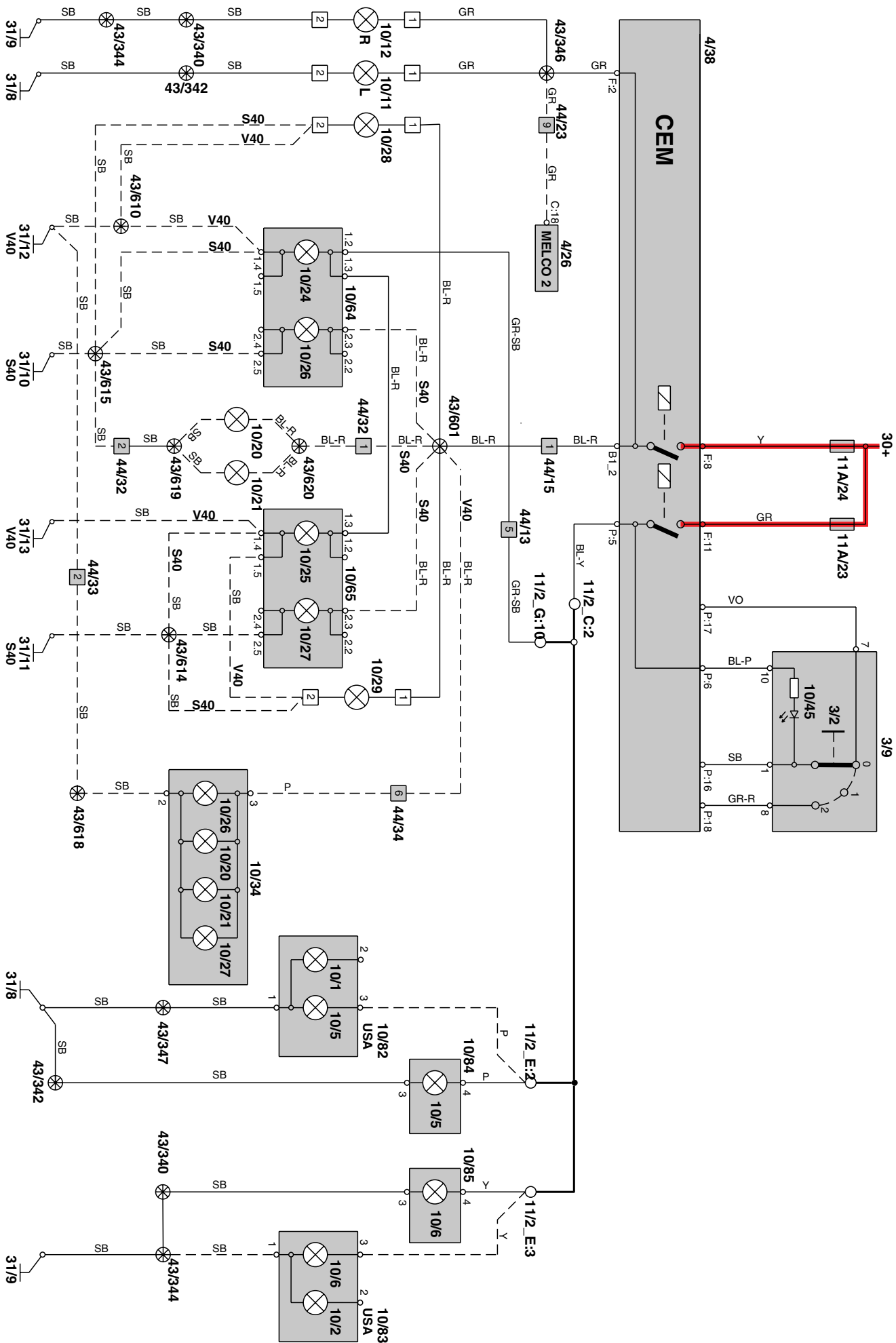
Cruise control, Melco 2



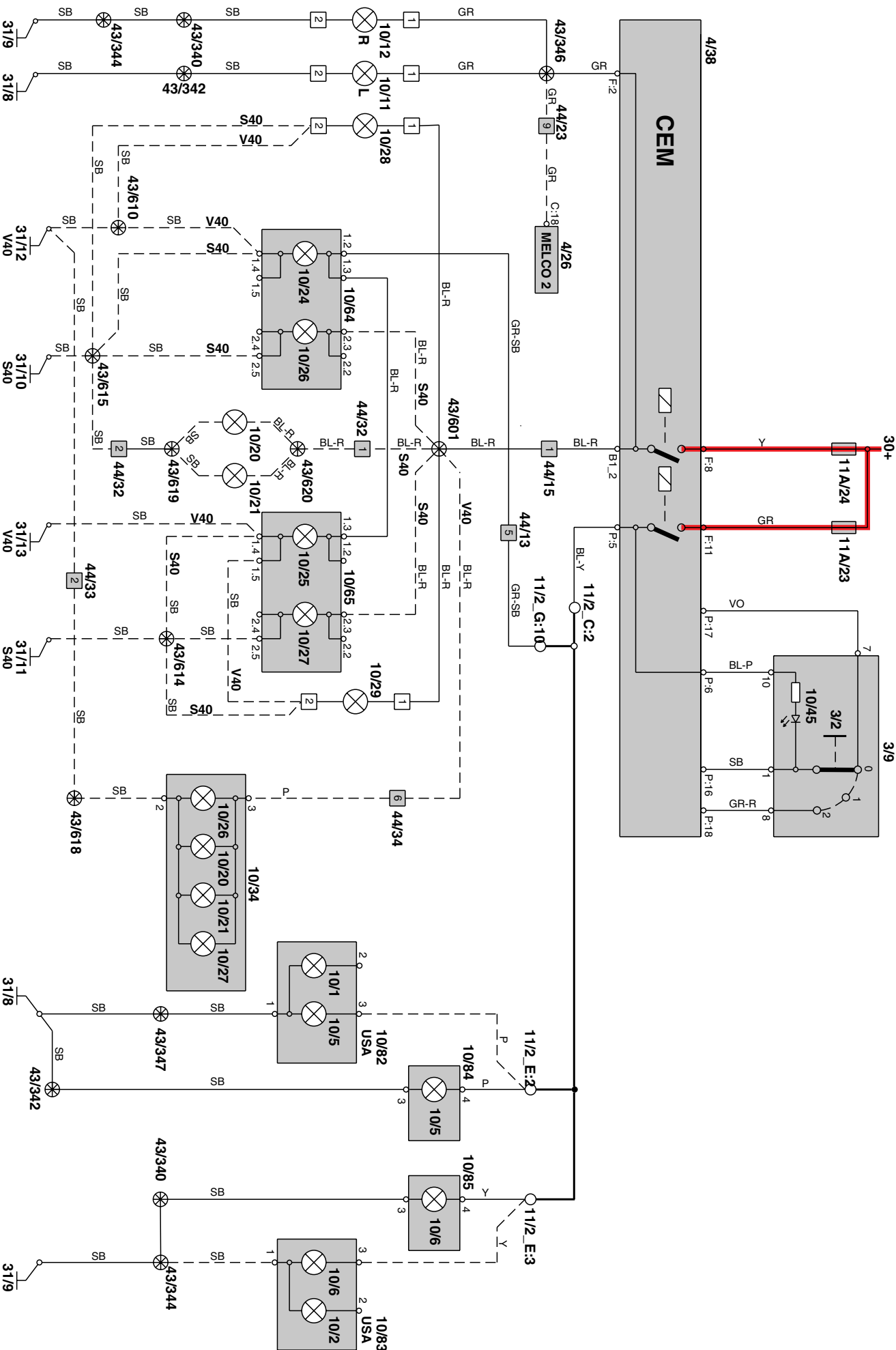
# Cruise control, Diesel



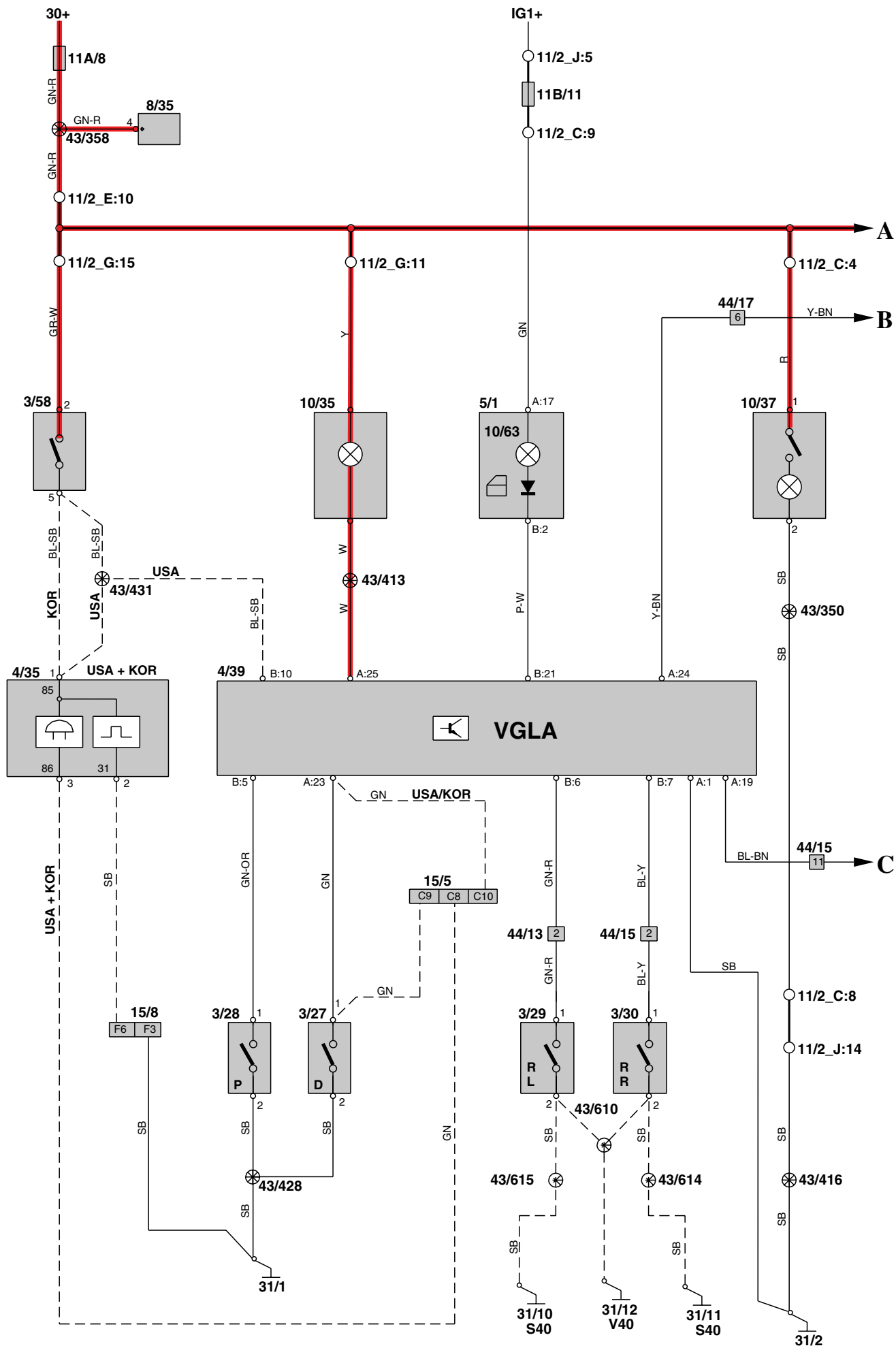
**Parking lights/ side marker lights**  
**License plate lighting**



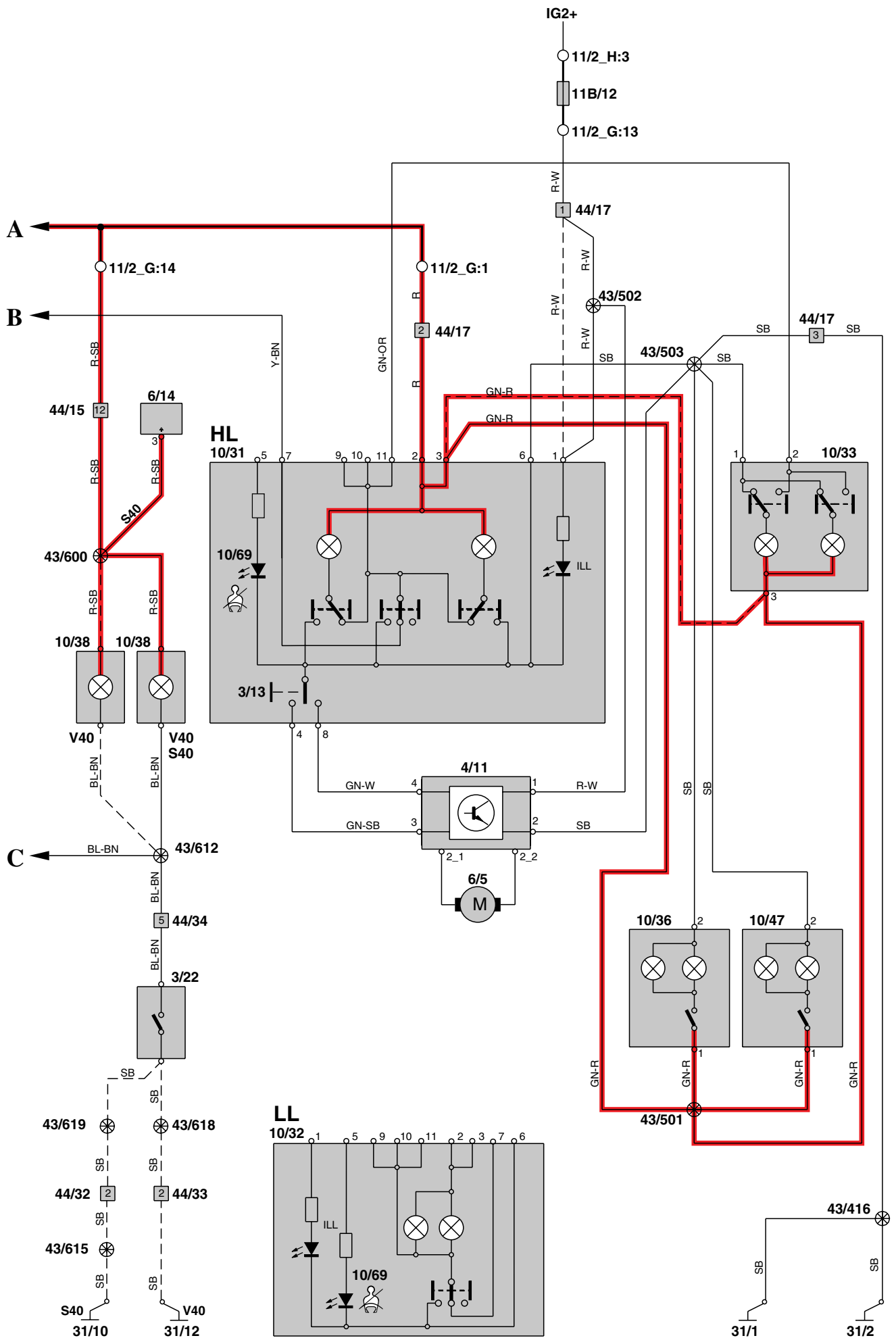
# Parking lights/ side marker lights License plate lighting



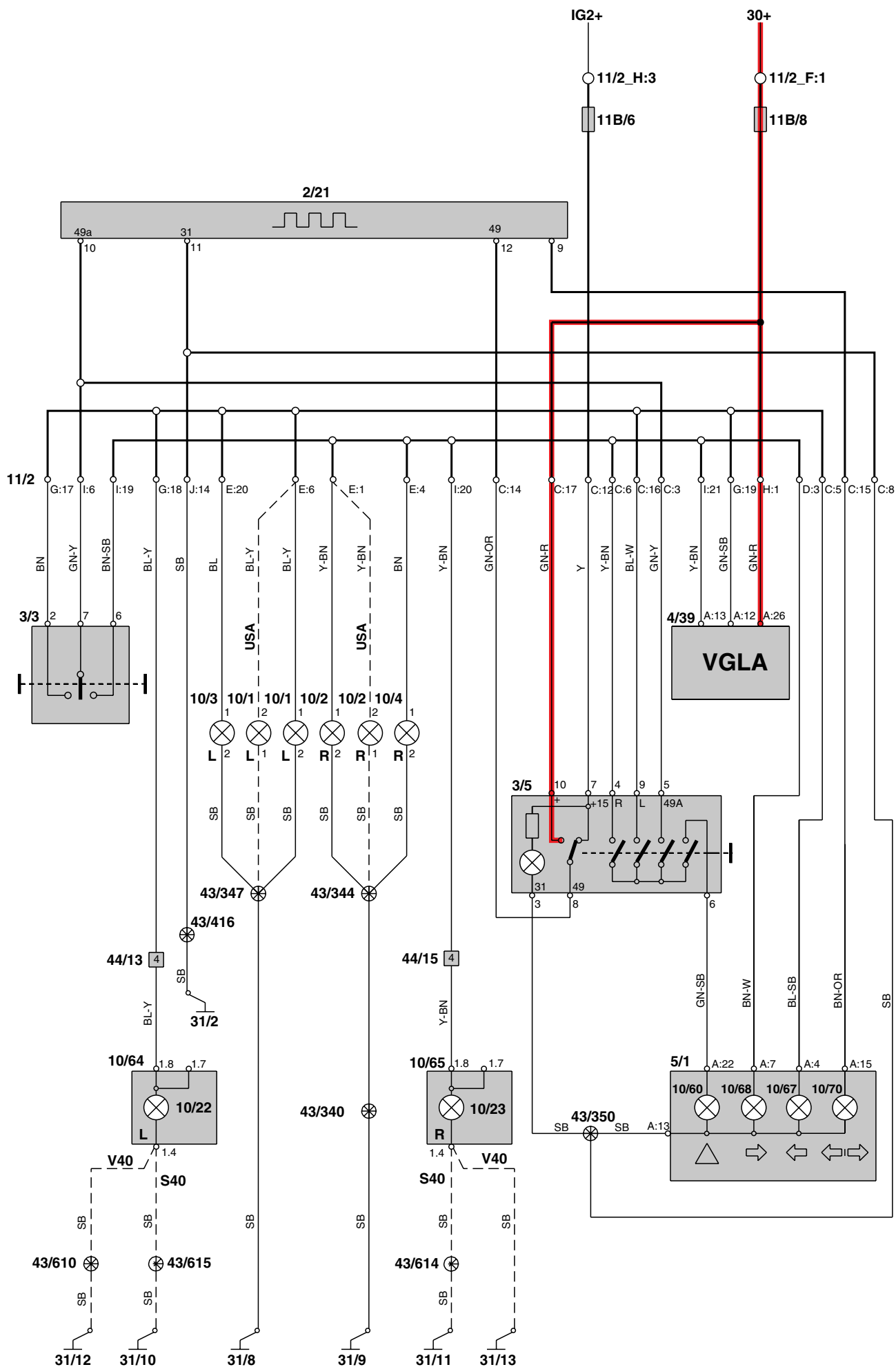
**Interior lighting, power sunroof**  
**Key-inserted warning**



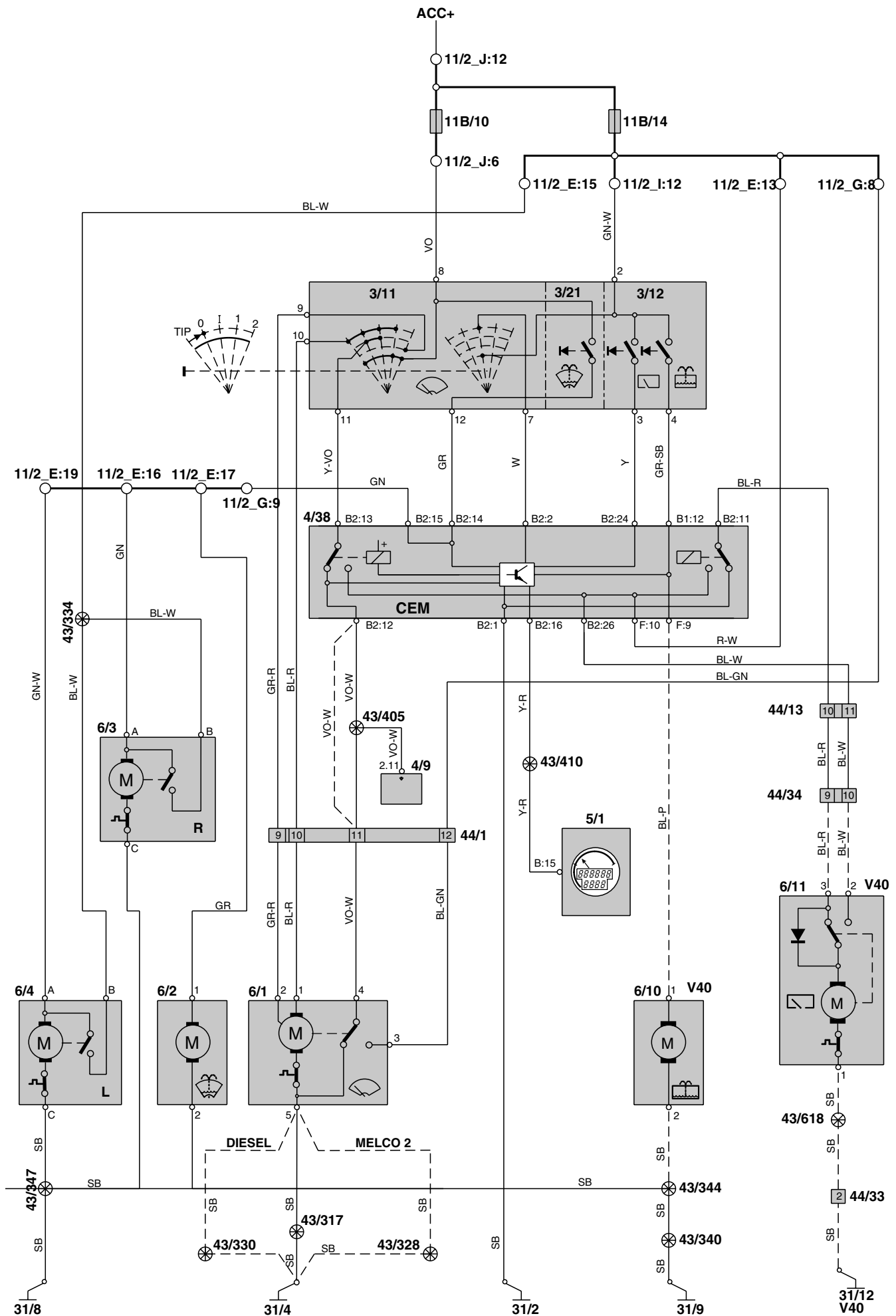
# Interior lighting, power sunroof Key-inserted warning



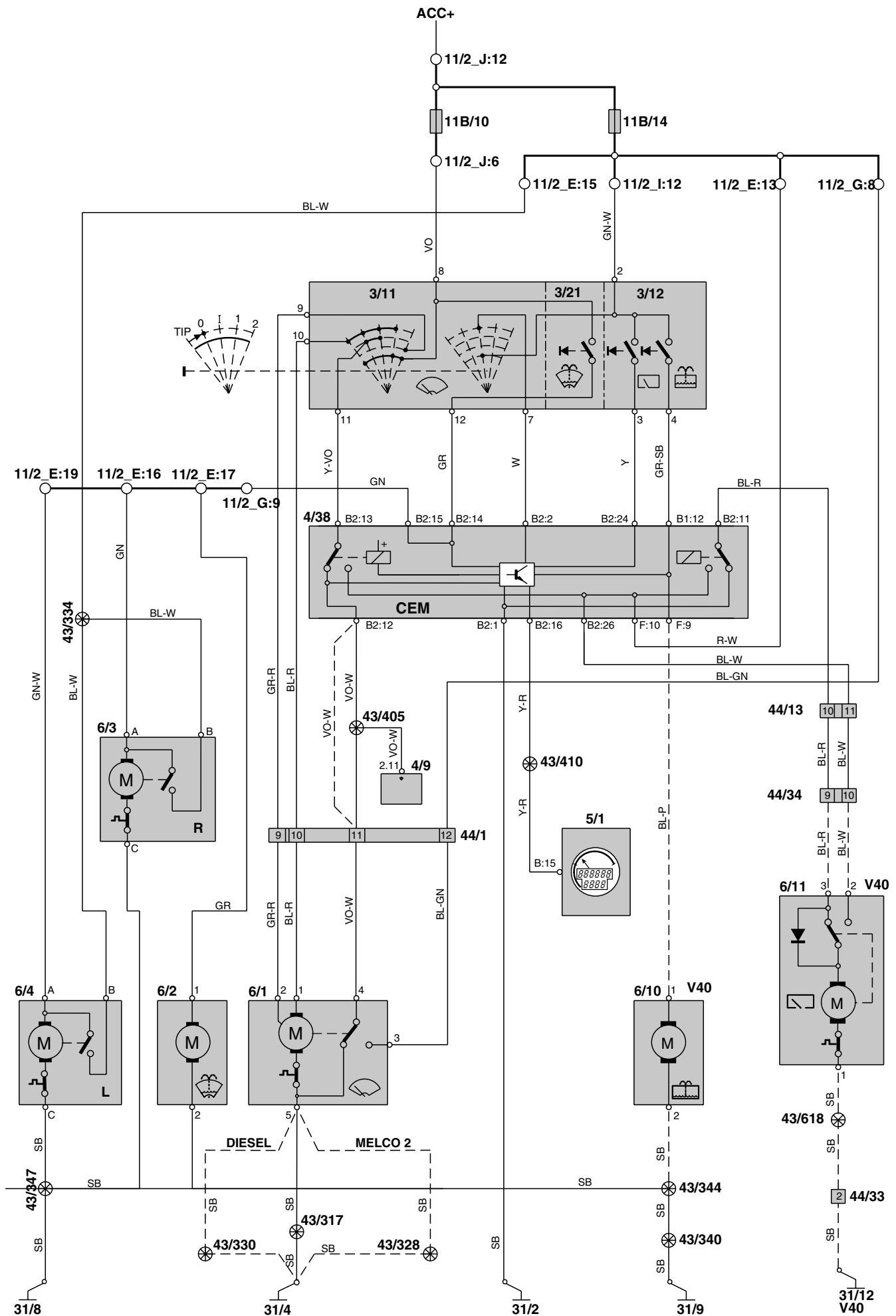
## Direction indicators and warning lights



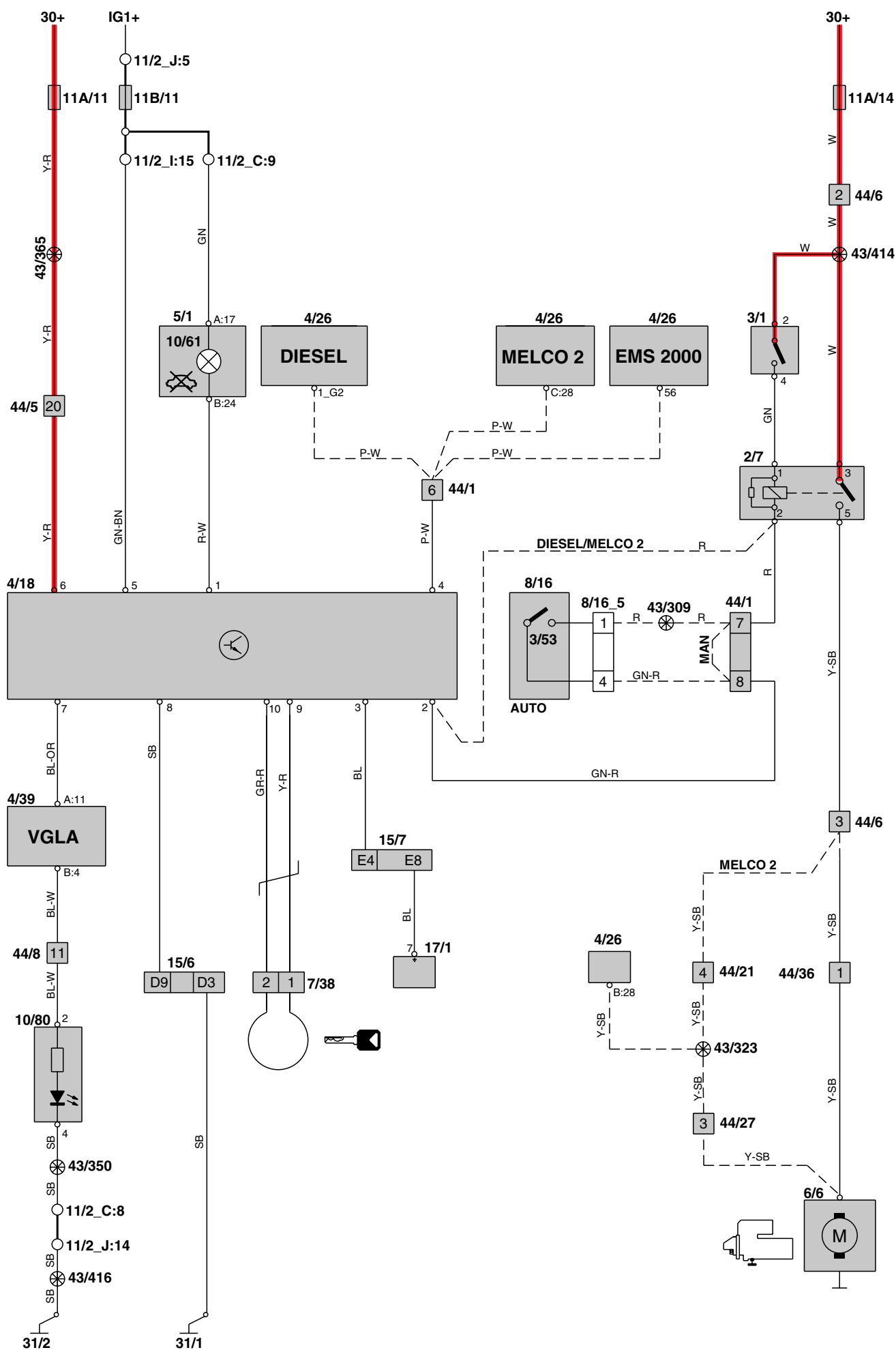
# Wiper/washer, windshield Headlights and rear window



# Wiper/washer, windshield Headlights and rear window

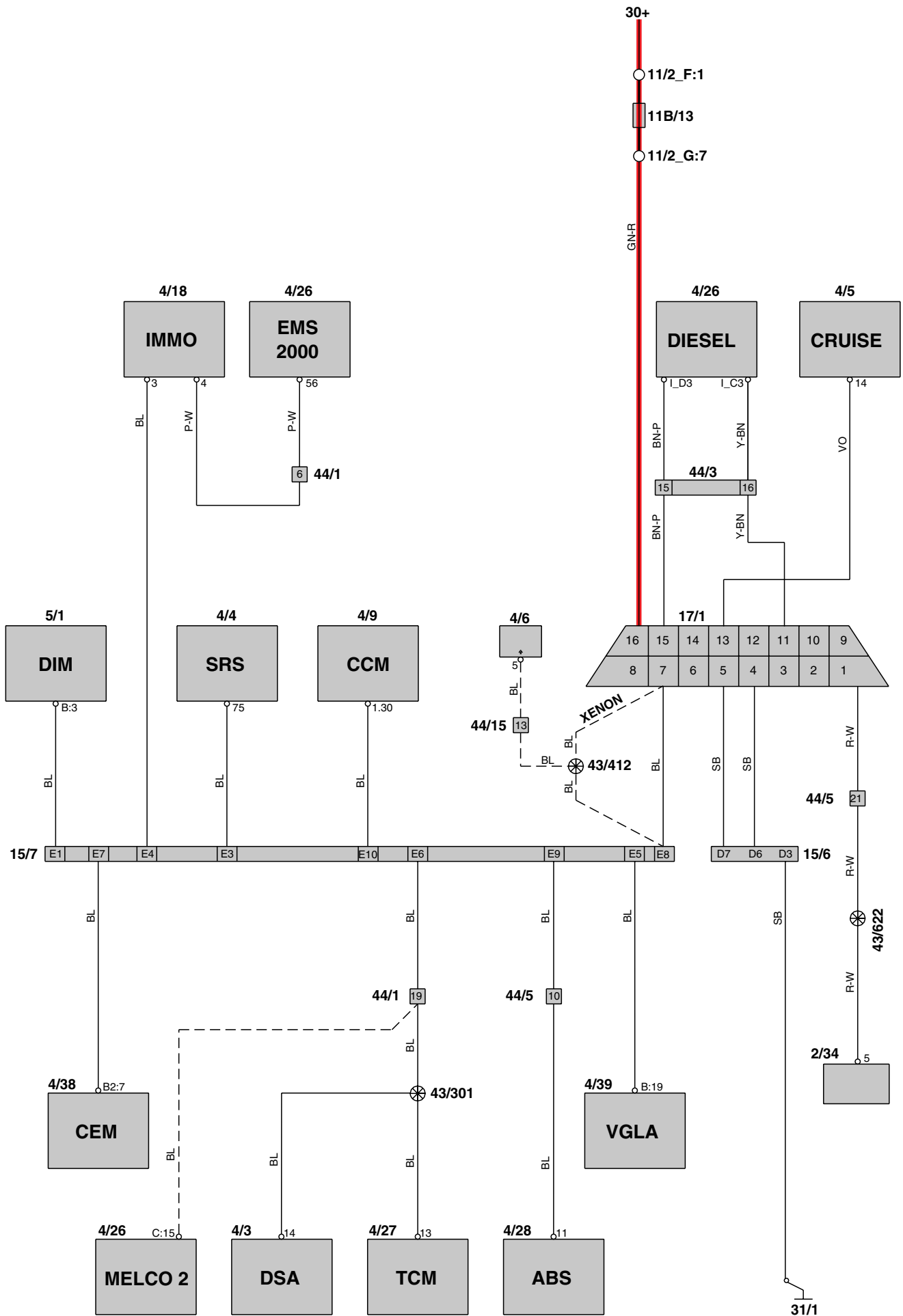


## Electronic immobilizer

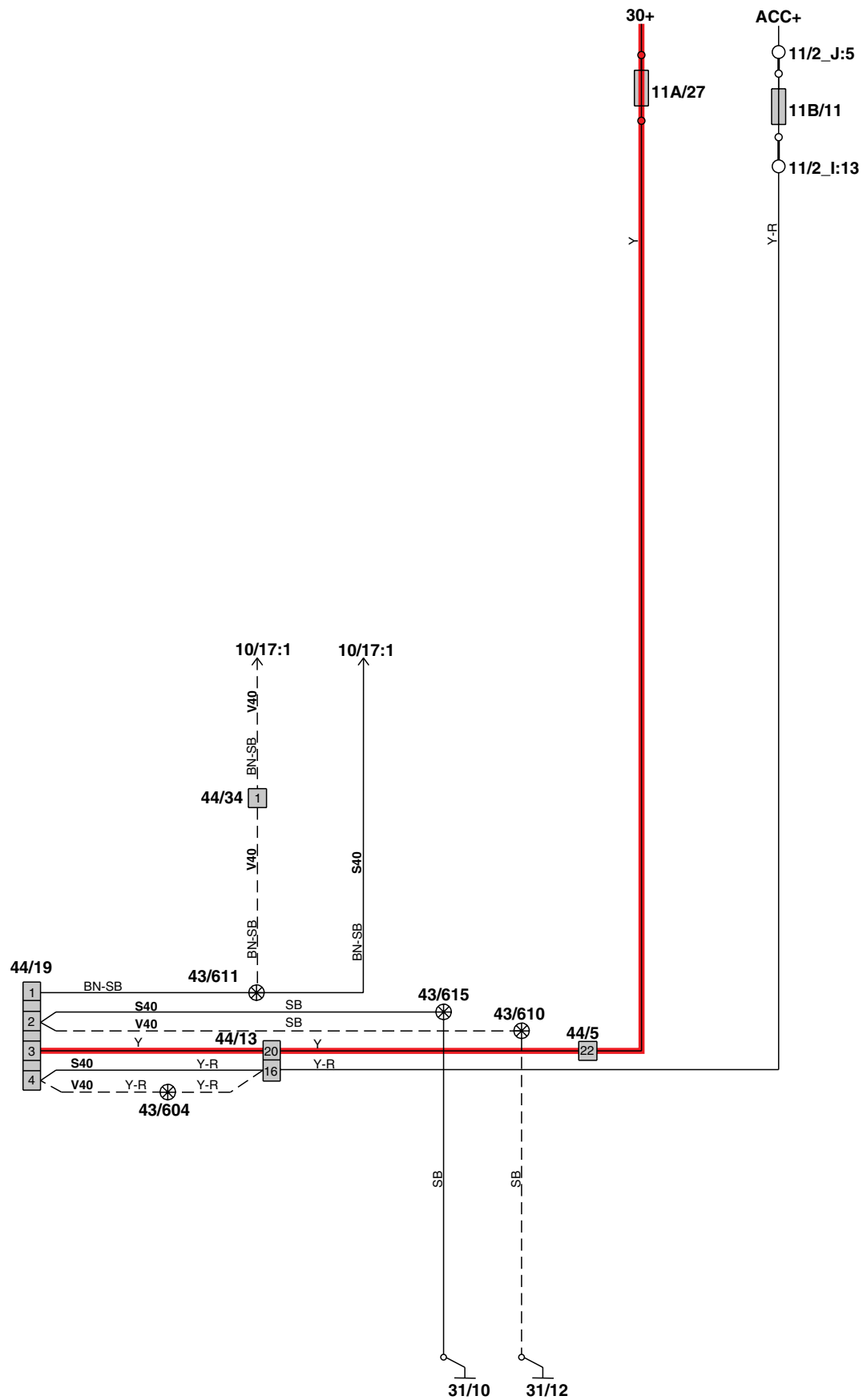


# Group 37

## Diagnostics system

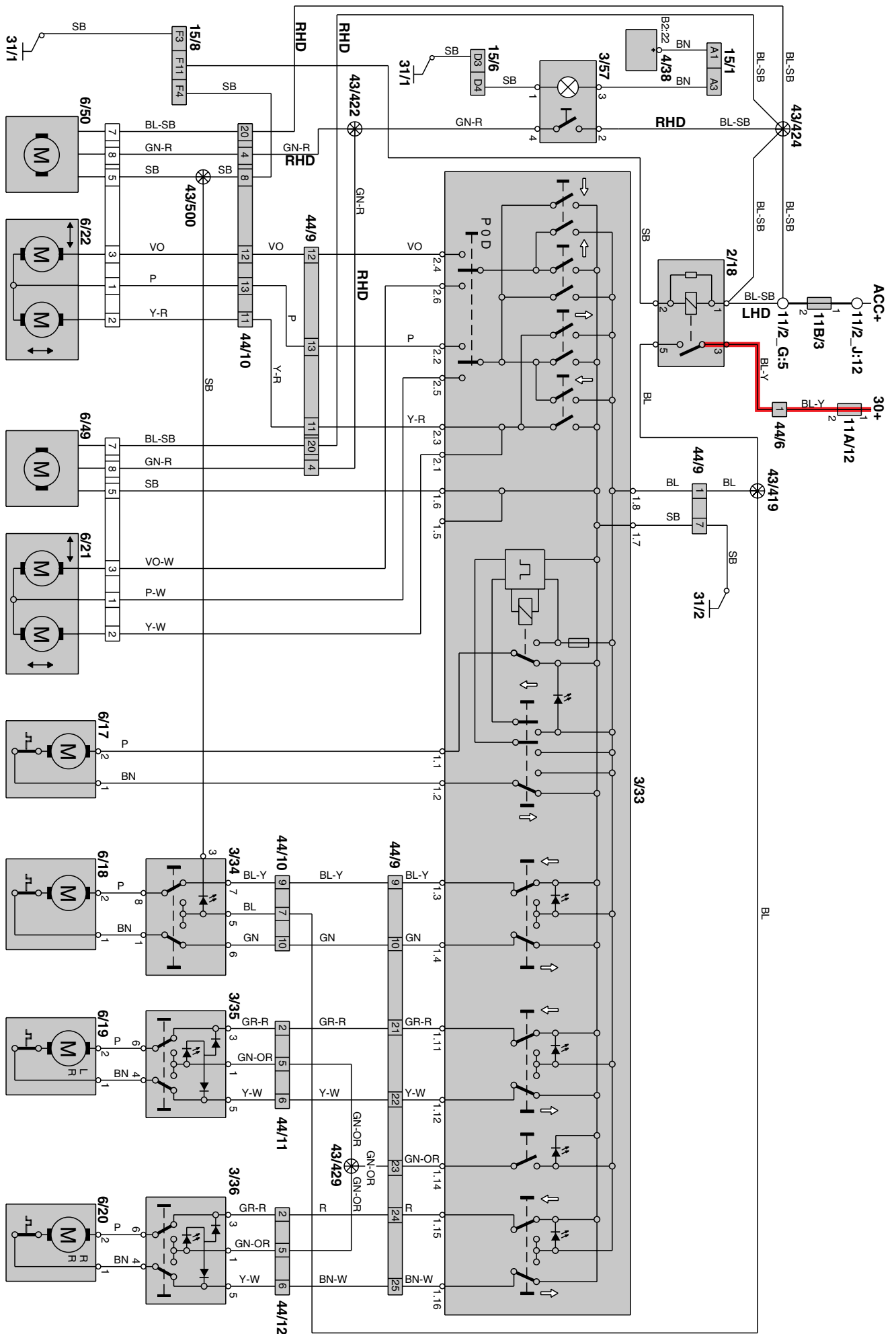


## Towing bracket wiring



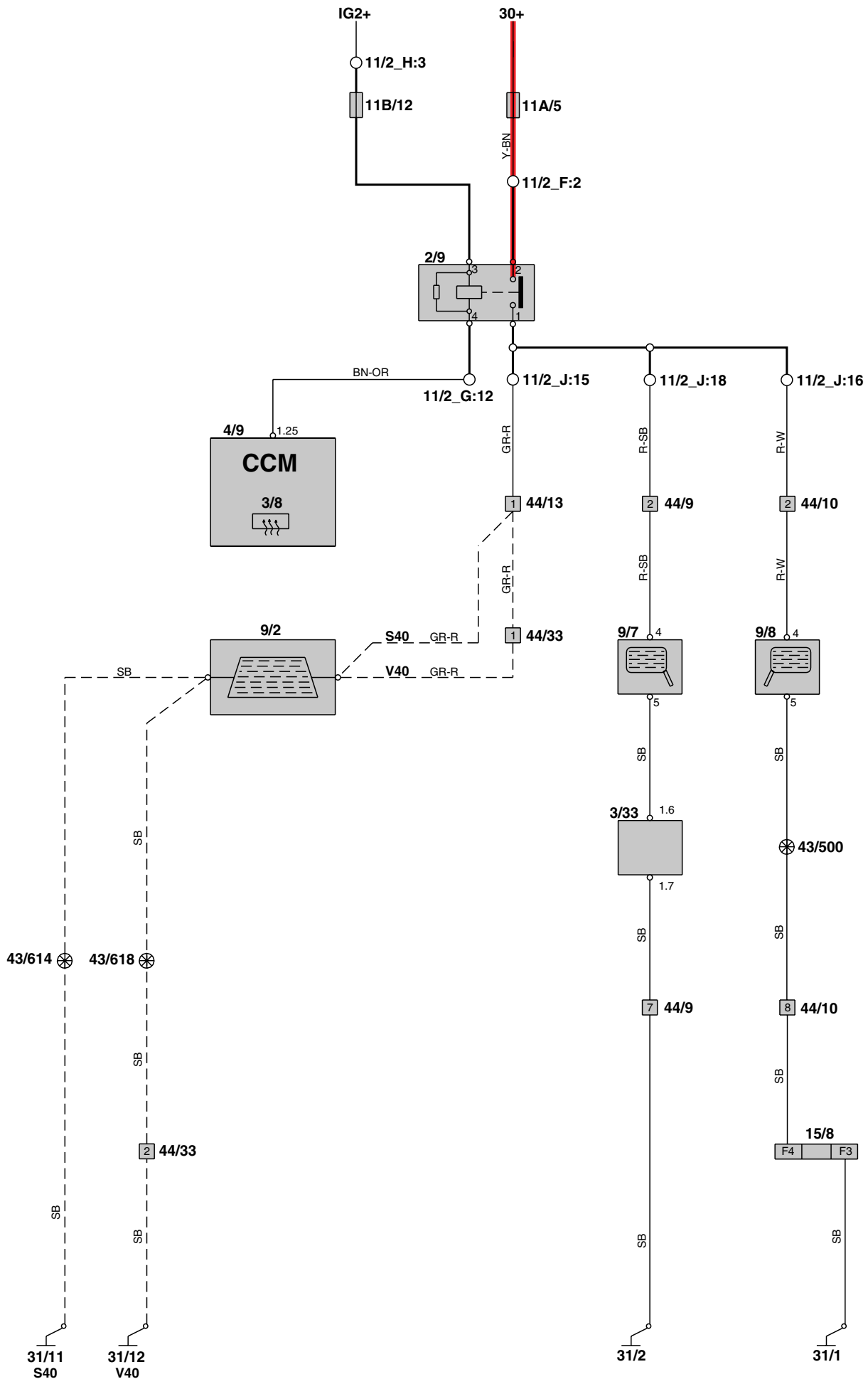
## Group 83, 84

### Power windows and power door mirrors

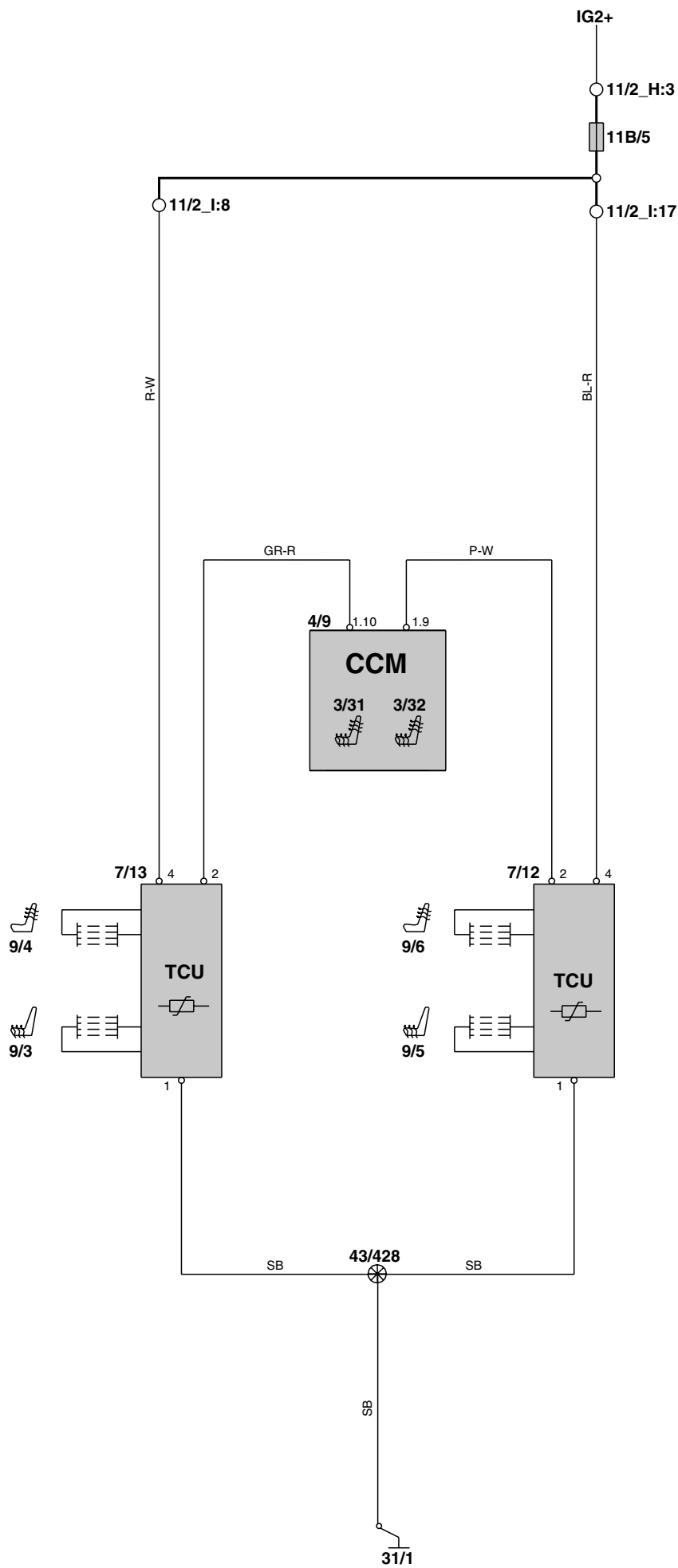


# Group 84

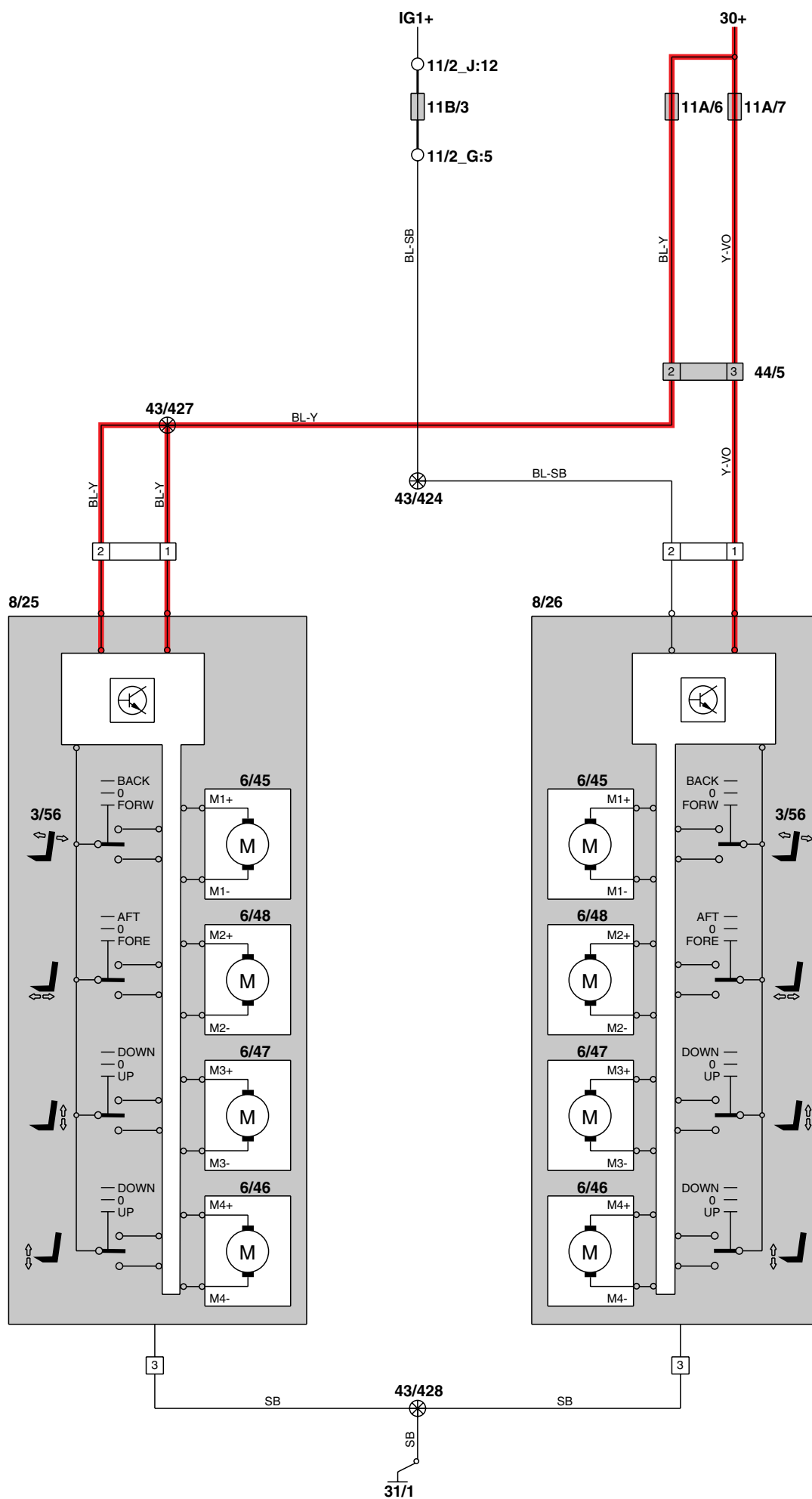
## Heated rear window and heated door mirrors

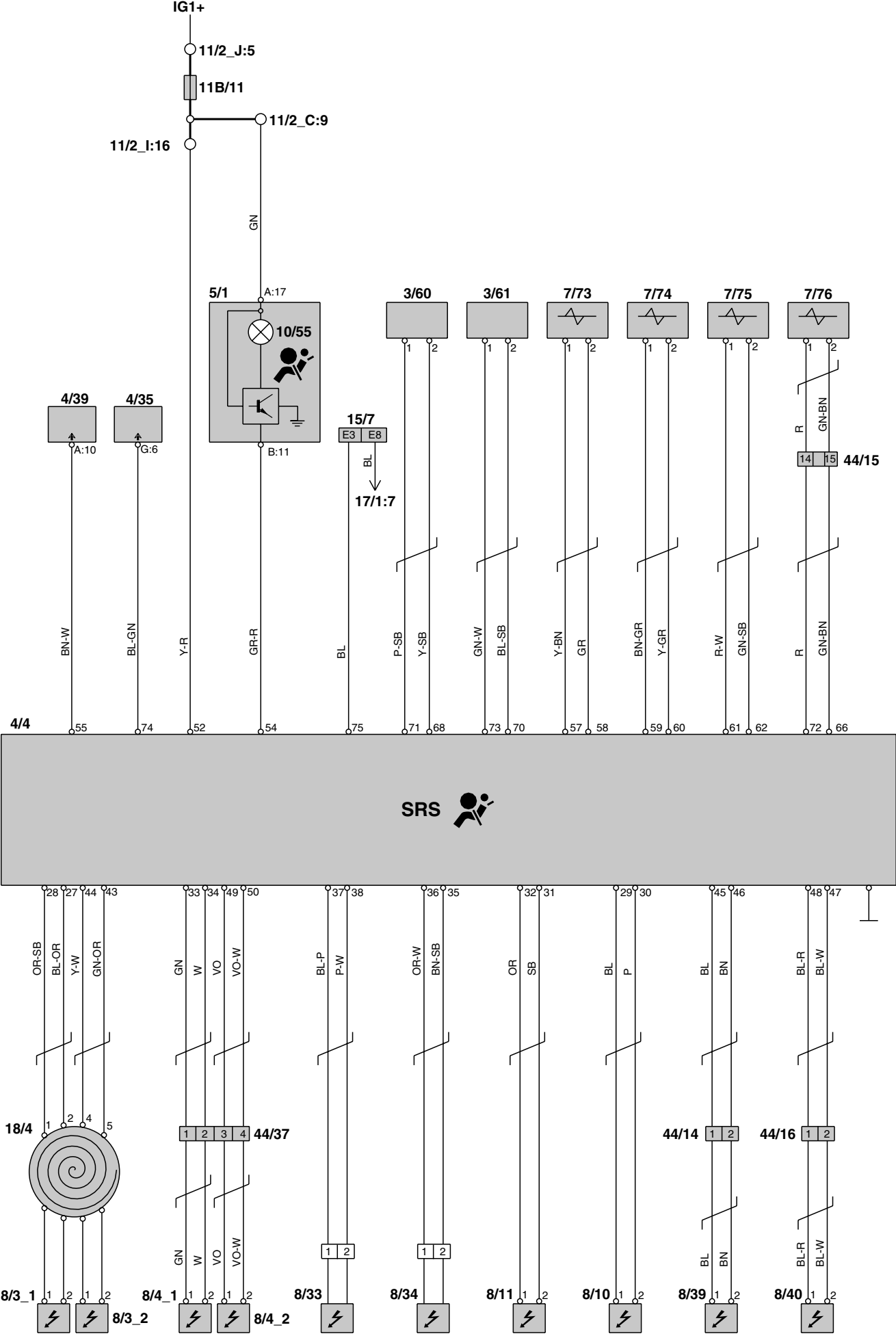


Group 85  
Heated seats



## Power seats





**44/1 22-pin Melco 2**

| No. | Passenger compartment harness |                                                      |           | Engine harness Melco 2 |                          |       |
|-----|-------------------------------|------------------------------------------------------|-----------|------------------------|--------------------------|-------|
| 1   | 5/1_B:23                      | Combined instrument panel                            | BL-Y      | 4/26_A:31              | Engine management system | BL-Y  |
| 2   | 5/1_B:7                       | Combined instrument panel                            | P         | 43/379                 | Junction point           | P     |
| 3   | 43/410<br>5/1_B:22            | Junction point<br>Combined instrument panel          | Y-R<br>GR | 4/26_C:10              | Engine management system | Y-R   |
| 4   | 11/2_I:2                      | Fuse box in passenger compartment                    | BL-SB     | 3/10:1                 | Reversing light contact  | BL-SB |
| 5   | 11/2_I:14                     | Fuse box in passenger compartment 14                 | GN        | 4/26_C:29              | Engine management system | GN    |
| 6   | 4/18:4                        | Control module, electronic immobilizer               | P-W       | 4/26_C:28              | Engine management system | P-W   |
| 7   | 7/14:2<br>sensor              | Catalytic converter temperature                      | GN-SB     | 43/320                 | Junction point           | GN-SB |
| 8   | 3/15:2                        | Clutch pedal contact, cruise control                 | BN-SB     | 4/26_B:26              | Engine management system | BN-SB |
|     | 4/18:2                        | Control module, electronic immobilizer               | GN-R      |                        |                          |       |
| 9   | 3/11:9                        | Wiper switch, windshield/rear window                 | GR-R      | 6/1:2                  | Windshield wiper motor   | GR-R  |
| 10  | 3/11:10                       | Wiper switch, windshield/rear window                 | BL-R      | 6/1:1                  | Windshield wiper motor   | BL-R  |
| 11  | 4/38_B2:12<br>43/405          | Central Electronic Module CEM<br>Junction point, ECC | VO-W      | 6/1:4                  | Windshield wiper motor   | VO-W  |
| 12  | 11/2_G:8                      | Fuse box in passenger compartment                    | BL-GN     | 6/1:3                  | Windshield wiper motor   | BL-GN |
| 13  | 5/1_B:20                      | Combined instrument panel                            | Y-W       | 44/27:2                | Connector                | Y-W   |
| 14  | 11/2_I:9                      | Fuse box in passenger compartment                    | Y         | 7/9:1                  | Brake fluid level sensor | Y     |
| 15  | 5/1_B:10                      | Combined instrument panel                            | GN-Y      | 4/26_A:7               | Engine management system | GN-Y  |
| 16  | 4/38_B1:4                     | Central Electronic Module CEM                        | BL-P      | 4/26_B:23              | Engine management system | BL-P  |
| 17  | 43/418                        | Junction point                                       | R-SB      | 3/10:2                 | Reversing light contact  | R-SB  |
| 18  | 7/14:1                        | Catalytic converter temperature sensor               | W-SB      | 4/26_A:35              | Engine management system | W-SB  |
|     | 4/9_1:1                       | Climate Control Module (CCM)                         | BN-P      |                        |                          |       |
| 19  | 15/7:E6                       | Distribution rail                                    | BL        | 4/26_C:15              | Engine management system | BL    |
| 20  | 5/1_B:13<br>43/415            | Combined instrument panel<br>Junction point          | W         | 44/27:6                | Connector                | W     |
| 21  | 5/1_B:5                       | Combined instrument panel                            | BN-GR     | 4/26_A:15              | Engine management system | BN-GR |
| 22  | 4/9_2:13                      | Climate Control Module (CCM)                         | OR-SB     | 4/26_C:13              | Engine management system | OR-SB |

# Connectors

## 44/1 Diesel

### 44/1 22-pin

| No. | Passenger compartment harness |                                                  |       | Engine harness Diesel |                          |       |
|-----|-------------------------------|--------------------------------------------------|-------|-----------------------|--------------------------|-------|
| 1   | 5/1_B:23                      | Combined instrument panel                        | BL-Y  | 4/26_1:H3             | Engine management system | BL-Y  |
| 2   | 5/1_B:7                       | Combined instrument panel                        | P     | 4/26_1:D4             | Engine management system | P     |
| 3   | 5/1_B:22                      | Combined instrument panel                        | GR    | 4/26_1:E4             | Engine management system | Y-R   |
|     | 43/410                        | Junction point                                   | Y-R   |                       |                          |       |
| 4   | 11/2_L:2                      | Fuse box in passenger compartment                | BL-SB | 3/10:1                | Reversing light contact  | BL-SB |
| 5   | 11/2_L:14                     | Fuse box in passenger compartment                | GN    | 4/26_2:E3             | Engine management system | GN    |
| 6   | 4/18:4                        | Control module, electronic immobilizer           | P-W   | 4/26_1:G2             | Engine management system | P-W   |
| 7   | 2/7:2                         | Starter motor relay                              | R     | -                     |                          | -     |
|     | 7/14:2                        | Catalytic converter temperature sensor           | GN-SB |                       |                          |       |
| 8   | 3/15:2                        | Clutch pedal contact, cruise control             | BN-SB | 4/26_1:E2             | Engine management system | BN-SB |
|     | 4/18:2                        | Control module, electronic immobilizer           | GN-R  |                       |                          |       |
| 9   | 3/11:9                        | Wiper switch, windshield/rear window             | GR-R  | 6/1:2                 | Windshield wiper motor   | GR-R  |
| 10  | 3/11:10                       | Wiper switch, windshield/rear window             | BL-R  | 6/1:1                 | Windshield wiper motor   | BL-R  |
| 11  | 4/38_B2:12<br>43/405          | Central Electronic Module CEM<br>Junction point  | VO-W  | 6/1:4                 | Windshield wiper motor   | VO-W  |
| 12  | 11/2_G:8                      | Fuse box in passenger compartment                | BL-GN | 6/1:3                 | Windshield wiper motor   | BL-GN |
| 13  | 5/1_B:20                      | Combined instrument panel                        | Y-W   | 7/7                   | Oil pressure sensor      | Y-W   |
| 14  | 11/2_L:9                      | Fuse box in passenger compartment                | Y     | 7/9:1                 | Brake fluid level sensor | Y     |
| 15  | 5/1_B:10                      | Combined instrument panel                        | GN-Y  | 4/26_3:H4             | Engine management system | GN-Y  |
| 16  | 4/38_B1:4                     | Central Electronic Module CEM                    | BL-P  | 4/26_1:F3             | Engine management system | BL-P  |
| 17  | 43/418                        | Junction point                                   | R-SB  | 3/10:2                | Reversing light contact  | R-SB  |
| 18  | 4/9_1:11                      | Climate Control Module (CCM)                     | BN-P  | -                     |                          | -     |
| 19  | 15/7:E6                       | Distribution rail                                | BL    | -                     |                          | -     |
| 20  | 5/1_B:13<br>43/415            | Combined instrument panel<br>Junction point, ECC | W     | 6/7:1                 | Generator                | W     |
| 21  | 5/1_B:5                       | Combined instrument panel                        | BN-GR | 4/26_1:E3             | Engine management system | BN-GR |
| 22  | 4/9_2:13                      | Climate Control Module (CCM)                     | OR-SB | 4/26_1:G4             | Engine management system | OR-SB |

**44/1 22-pin**

| No. | Passenger compartment harness |                                                                    |       | Engine harness, Bifuel |                           |       |
|-----|-------------------------------|--------------------------------------------------------------------|-------|------------------------|---------------------------|-------|
| 1   | 5/1_B:23                      | Combined instrument panel                                          | BL-Y  | 4/26:34                | Engine management system  | BL-Y  |
| 2   | 5/1_B:7                       | Combined instrument panel                                          | P     | 43/379                 | Junction point            | P     |
| 3   | 7/85:1                        | Heated oxygen sensor LPG                                           | R-SB  | 43/315                 | Junction point            | R-SB  |
|     | 5/1_B:22                      | Combined instrument panel                                          | GR    |                        |                           |       |
|     | 43/410                        | Junction point                                                     | Y-R   |                        |                           |       |
| 4   | 11/2_I:2                      | Fuse box in passenger compartment                                  | BL-SB | 3/10:1                 | Reversing light contact   | BL-SB |
| 5   | 11/2_I:14                     | Fuse box in passenger compartment                                  | GN    | 4/26:29                | Engine management system  | GN    |
| 6   | 4/18:4                        | Control module, electronic immobilizer                             | P-W   | 4/26:56                | Engine management system  | P-W   |
| 7   | 2/7:2                         | Starter motor relay                                                | R     | 44/1:8                 | Connector                 | R     |
| 8   | 4/18:2                        | Control module, electronic immobilizer                             | GN-R  | 44/1:7                 | Connector                 | R     |
| 9   | 3/11:9                        | Wiper switch, windshield/rear window                               | GR-R  | 6/1:2                  | Windshield wiper motor    | GR-R  |
| 10  | 3/11:10                       | Wiper switch, windshield/rear window                               | BL-R  | 6/1:1                  | Windshield wiper motor    | BL-R  |
| 11  | 4/38_B2:12<br>43/405          | Central Electronic Module CEM<br>Junction point, ECC               | VO-W  | 6/1:4                  | Windshield wiper motor    | VO-W  |
| 12  | 11/2_G:8                      | Fuse box in passenger compartment                                  | BL-GN | 6/1:3                  | Windshield wiper motor    | BL-GN |
| 13  | 5/1_B:20                      | Combined instrument panel                                          | Y-W   | 7/7                    | Oil pressure sensor       | Y-W   |
| 14  | 11/2_I:9                      | Fuse box in passenger compartment                                  | Y     | 7/9:1                  | Brake fluid level sensor  | Y     |
| 15  | 5/1_B:10                      | Combined instrument panel                                          | GN-Y  | 43/380                 | Junction point            | GN-Y  |
| 16  | 7/85:2                        | Heated oxygen sensor LPG                                           | SB    | 43/305                 | Junction point            | SB    |
|     | 4/38_B1:4                     | Central Electronic Module CEM                                      | BL    |                        |                           |       |
| 17  | 43/418                        | Junction point                                                     | R-SB  | 3/10:2                 | Reversing light contact   | R-SB  |
| 18  | 7/85:3<br>7/14:1              | Heated oxygen sensor LPG<br>Catalytic converter temperature sensor | W-SB  | 43/385                 | Junction point            | W-SB  |
|     | 4/9_1:11                      | Climate Control Module (CCM)                                       | BN-P  |                        |                           |       |
| 19  | 7/85:4                        | Heated oxygen sensor LPG                                           | R-W   | 4/75_J2:27             | Control module LPG        | R-W   |
|     | 15/7:E6                       | Distribution rail                                                  | BL    |                        |                           |       |
| 20  | 5/1_B:13                      | Combined instrument panel                                          | W     | 7/6:1                  | Engine temperature sensor | W     |
| 21  | 5/1_B:5                       | Combined instrument panel                                          | BN-GR | 4/26:40                | Engine management system  | BN-GR |
| 22  | 4/9_2:13                      | Climate Control Module (CCM)                                       | OR-SB | 4/26:88                | Engine management system  | OR-SB |

## Connector 44/2 Melco 2

### 44/2 16-pin

| No. | Passenger compartment harness |                                     |       | Engine harness Melco 2 |                                    |       |
|-----|-------------------------------|-------------------------------------|-------|------------------------|------------------------------------|-------|
| 1   | 7/72:1                        | Accelerator pedal sensor            | R-SB  | 43/377                 | Junction point                     | R-SB  |
| 2   | 7/72:2                        | Accelerator pedal sensor            | BN-GR | 43/378                 | Junction point                     | BN-GR |
| 3   | 7/72:3                        | Accelerator pedal sensor            | Y-BN  | 4/50:20                | Control module, fuel throttle body | Y-BN  |
| 4   | 7/72:4                        | Accelerator pedal sensor            | GN-SB | 43/320                 | Junction point                     | GN-SB |
| 5   | 7/72:5                        | Accelerator pedal sensor            | GN-W  | 4/26_C:9               | Engine management system           | GN-W  |
| 6   | 7/72:6                        | Accelerator pedal sensor            | Y     | 4/26_C:24              | Engine management system           | Y     |
| 7   | 7/72:7                        | Accelerator pedal sensor            | Y-R   | 4/26_B:2               | Engine management system           | Y-R   |
| 8   | 7/72:8                        | Accelerator pedal sensor            | GR    | 4/26_B:9               | Engine management system           | GR    |
| 9   | 11/2_G:3                      | Fuse box in passenger compartment   | GN-BN | 4/26_B:20              | Engine management system           | GN-BN |
| 10  | -                             |                                     | -     | -                      |                                    | -     |
| 11  | 43/411                        | Junction point                      | BL-R  | 4/26_C:27              | Engine management system           | BL-R  |
| 12  | 3/4:5                         | Control, cruise control             | GN-R  | 4/26_C:12              | Engine management system           | GN-R  |
| 13  | 3/4:3                         | Control, cruise control             | W-SB  | 4/26_C:23              | Engine management system           | W-SB  |
| 14  | 3/4:4                         | Control, cruise control             | Y-SB  | 4/26_C:11              | Engine management system           | Y-SB  |
| 15  | 3/14:2                        | Brake pedal contact, cruise control | VO    | 4/26_B:8               | Engine management system           | VO    |
| 16  | -                             |                                     | -     | -                      |                                    | -     |

**44/3 16-pin**

| No. | Passenger compartment harness |                                     |      | Engine harness Diesel |                          |      |
|-----|-------------------------------|-------------------------------------|------|-----------------------|--------------------------|------|
| 1   | 7/72:1                        | Accelerator pedal sensor            | GR-R | 4/26_1:A3             | Engine management system | GR-R |
| 2   | 7/72:2                        | Accelerator pedal sensor            | R-W  | 4/26_1:B3             | Engine management system | R-W  |
| 3   | 7/72:3                        | Accelerator pedal sensor            | BN   | 4/26_1:C1             | Engine management system | BN   |
| 4   | 7/72:4                        | Accelerator pedal sensor            | Y-GR | 4/26_1:E1             | Engine management system | Y-GR |
| 5   | 7/72:5                        | Accelerator pedal sensor            | GN-W | 4/26_1:H2             | Engine management system | GN-W |
| 6   | 7/72:6                        | Accelerator pedal sensor            | VO-W | 4/26_1:F1             | Engine management system | VO-W |
| 7   | 3/14:2                        | Brake pedal contact, cruise control | VO   | 4/26_1:H1             | Engine management system | VO   |
| 8   | 5/1_B:22                      | Combined instrument panel           | GR   | 4/26_1:G1             | Engine management system | GR   |
| 9   | -                             |                                     | -    | -                     |                          | -    |
| 10  | 5/1_B:12                      | Combined instrument panel           | BL-W | 4/26_1:H4             | Engine management system | BL-W |
| 11  | 43/411                        | Junction point                      | BL-R | 4/26_1:D2             | Engine management system | BL-R |
| 12  | 3/4:5                         | Control, cruise control             | GN-R | 4/26_1:F2             | Engine management system | GN-R |
| 13  | 3/4:3                         | Control, cruise control             | W-SB | 4/26_1:B1             | Engine management system | W-SB |
| 14  | 3/4:4                         | Control, cruise control             | Y-SB | 4/26_1:C2             | Engine management system | Y-SB |
| 15  | 17/1:15                       | Data link connector                 | BN-P | 4/26_1:D3             | Engine management system | BN-P |
| 16  | 17/1:11                       | Data link connector                 | Y-BN | 4/26_1:C3             | Engine management system | Y-BN |

**44/4 6-pin**

| No. | Passenger compartment harness |                                               |       | Engine harness EMS 2000 Auto |                             |       |
|-----|-------------------------------|-----------------------------------------------|-------|------------------------------|-----------------------------|-------|
| 1   | 44/13:13                      | Connector, LHD                                | GR-R  | -                            |                             | -     |
| 2   | 44/13:14                      | Connector, LHD                                | GN-W  | -                            |                             | -     |
| 3   | 5/1_B:6                       | Combined instrument panel                     | BL-OR | 4/27:25<br>TCM               | Transmission Control Module | BL-OR |
| 4   | 15/1:A5                       | Distribution rail                             | BN    | 43/303                       | Junction point              | BN    |
| 5   | 4/5:2                         | Control module, cruise control, Gasoline      | R     | 43/309                       | Junction point              | R     |
| 6   | 3/51:3                        | Contact, brake lights/unlocking gear selector | W     | 2/23:1                       | Relay, shift lock           | W     |

# Connectors

## 44/5

### 44/5 22-pin

| No. | Passenger compartment harness |                                          |       | Engine compartment harness |                                                    |       |
|-----|-------------------------------|------------------------------------------|-------|----------------------------|----------------------------------------------------|-------|
| 1   | 18/4:6                        | Contact reel                             | GN-SB | 2/35:2                     | Horn relay                                         | GN-SB |
| 2   | -                             |                                          | -     | 11A/6:1                    | Fuses in the engine compartment                    | BL-Y  |
| 3   | -                             |                                          | -     | 11A/7:1                    | Fuses in the engine compartment                    | Y-VO  |
| 4   | 15/3:B8                       | Distribution rail                        | GN-R  | 11A/9:1                    | Fuses in the engine compartment                    | GN-R  |
| 5   | 11/2_I:13                     | Fuse box in passenger compartment        | VO    | 2/14:1                     | Engine management system main relay                | VO    |
|     |                               |                                          |       | 43/364                     | Junction point, Melco 2                            |       |
| 6   | 4/5:9                         | Control module, cruise control           | BN-W  | 6/12:2                     | Vacuum pump, cruise control                        | BN-W  |
| 7   | 4/5:12                        | Control module, cruise control           | W     | 6/12:1                     | Vacuum pump, cruise control                        | W     |
| 8   | 4/5:1                         | Control module, cruise control           | GR-SB | 6/12:3                     | Vacuum pump, cruise control                        | GR-SB |
| 9   | -                             |                                          | -     | 43/386                     | Junction point, Bifuel                             | GN    |
|     | 44/13:15                      | Connector                                | GR    | 43/346                     | Junction point                                     | GR    |
| 10  | 15/7:E9                       | Distribution rail                        | BL    | 4/28:11                    | ABS control module                                 | BL    |
| 11  | 44/13:15                      | Connector, LHD                           | R-SB  | 43/348                     | Junction point, LHD                                | R-SB  |
| 12  | 44/13:14                      | Connector                                | P     | 43/343                     | Junction point                                     | P     |
| 13  | 16/1_A:1                      | Radio                                    | R     | 11A/10:1                   | Fuses in the engine compartment                    | R     |
| 14  | 4/39_A:3                      | Control module for locks and alarm, VGLA | Y-SB  | 3/50:1                     | Hood alarm contact, Alarm                          | Y-SB  |
| 15  | 43/404                        | Junction point, Alarm                    | BL-R  | 8/35:3                     | Alarm siren                                        | BL-R  |
| 16  | 43/402                        | Junction point, Alarm                    | R-W   | 8/35:5                     | Alarm siren                                        | R-W   |
| 17  | 44/13:13                      | Connector                                | BL-SB | 43/337                     | Junction point                                     | BL-SB |
| 18  | 44/18:3                       | Connector                                | BL    | 11A/17:1                   | Fuses in the engine compartment                    | BL    |
|     |                               |                                          |       | 2/31:5                     | Fuel pump relay, Melco 2, Bifuel                   |       |
| 19  | 4/39_B:14                     | Control module for locks and alarm, VGLA | W-SB  | 8/35:2                     | Alarm siren                                        | W-SB  |
| 20  | 4/18:6                        | Control module, electronic immobilizer   | Y-R   | 43/365                     | Junction point                                     | Y-R   |
| 21  | 17/1:1                        | Data link connector                      | R-W   | 43/622                     | Junction point                                     | R-W   |
| 22  | 44/13:20                      | Connector                                | Y     | 11A/27:2                   | Fuses in the engine compartment, Accessories, rear | Y     |

**44/6 3-pin**

| No. | Passenger compartment harness |                      |      | Engine compartment harness |                                 |      |
|-----|-------------------------------|----------------------|------|----------------------------|---------------------------------|------|
| 1   | 2/18:3                        | Relay, power windows | BL-Y | 11A/12:2                   | Fuses in the engine compartment | BL-Y |
| 2   | 43/414                        | Junction point       | W    | 11A/14:2                   | Fuses in the engine compartment | W    |
| 3   | 2/7:5                         | Starter motor relay  | Y-SB | 44/36:1<br>44/21:4         | Connector<br>Connector, Melco 2 | Y-SB |

**44/7 13-pin**

| No. | Passenger compartment harness |                           |       | Engine compartment harness |                                            |       |
|-----|-------------------------------|---------------------------|-------|----------------------------|--------------------------------------------|-------|
| 1   | -                             |                           | -     | -                          |                                            | -     |
| 2   | 44/18:7                       | Connector                 | BL-GR | 4/28:3                     | ABS control module                         | BL-GR |
| 3   | 44/18:8                       | Connector                 | BL-GN | 4/28:1                     | ABS control module                         | BL-GN |
| 4   | -                             |                           | -     | -                          |                                            | -     |
| 5   | -                             |                           | -     | -                          |                                            | -     |
| 6   | -                             |                           | -     | -                          |                                            | -     |
| 7   | 44/41:1                       | Connector                 | R     | 11A/20:2                   | Fuses in the engine compartment, Amplifier | R     |
| 8   | -                             |                           | -     | -                          |                                            | -     |
| 9   | -                             |                           | -     | -                          |                                            | -     |
| 10  | -                             |                           | -     | -                          |                                            | -     |
| 11  | 44/18:5                       | Connector                 | GR-R  | 4/28:9                     | ABS control module                         | GR-R  |
| 12  | 44/18:1                       | Connector                 | GR    | 4/28:8                     | ABS control module                         | GR    |
| 13  | 5/1_B:16                      | Combined instrument panel | BL-R  | 4/28:26<br>43/345          | ABS control module<br>Junction point, DSA  | BL-R  |

## Connectors

### 44/8 - 44/9:1-6

#### 44/8 14-pin

| No. | Passenger compartment harness |                                          |       | Dashboard harness |                                                       |       |
|-----|-------------------------------|------------------------------------------|-------|-------------------|-------------------------------------------------------|-------|
| 1   | 43/411                        | Junction point                           | BL-R  | 5/1_A:18          | Combined instrument panel                             | BL-R  |
| 2   | -                             |                                          | -     | -                 |                                                       | -     |
| 3   | 43/408                        | Junction point                           | BN    | 16/4:1            | Dashboard speaker, driver's side                      | BN    |
| 4   | 43/409                        | Junction point                           | W     | 16/4:2            | Dashboard speaker, driver's side                      | W     |
| 5   | 43/406                        | Junction point                           | GN-Y  | 16/5:1 side       | Dashboard speaker, passenger                          | GN-Y  |
| 6   | 43/407                        | Junction point                           | GR    | 16/5:2            | Dashboard speaker, passenger side                     | GR    |
| 7   | 3/11:5                        | Wiper switch, windshield/rear window     | R     | 4/38_I:3          | Central Electronic Module CEM                         | R     |
| 8   | -                             |                                          | -     | -                 |                                                       | -     |
| 9   | -                             |                                          | -     | -                 |                                                       | -     |
| 10  | -                             |                                          | -     | -                 |                                                       | -     |
| 11  | 4/39_B:4                      | Control module for locks and alarm, VGLA | BL-W  | 10/80:2           | Alarm indication, solar sensor/electronic immobilizer | BL-W  |
| 12  | -                             |                                          | -     | -                 |                                                       | -     |
| 13  | 4/9_2:7                       | Climate Control Module (CCM)             | VO    | 10/80:5           | Alarm indication, solar sensor/electronic immobilizer | VO    |
| 14  | 4/9_2:8                       | Climate Control Module (CCM)             | BL-SB | 10/80:1           | Alarm indication, solar sensor/electronic immobilizer | BL-SB |

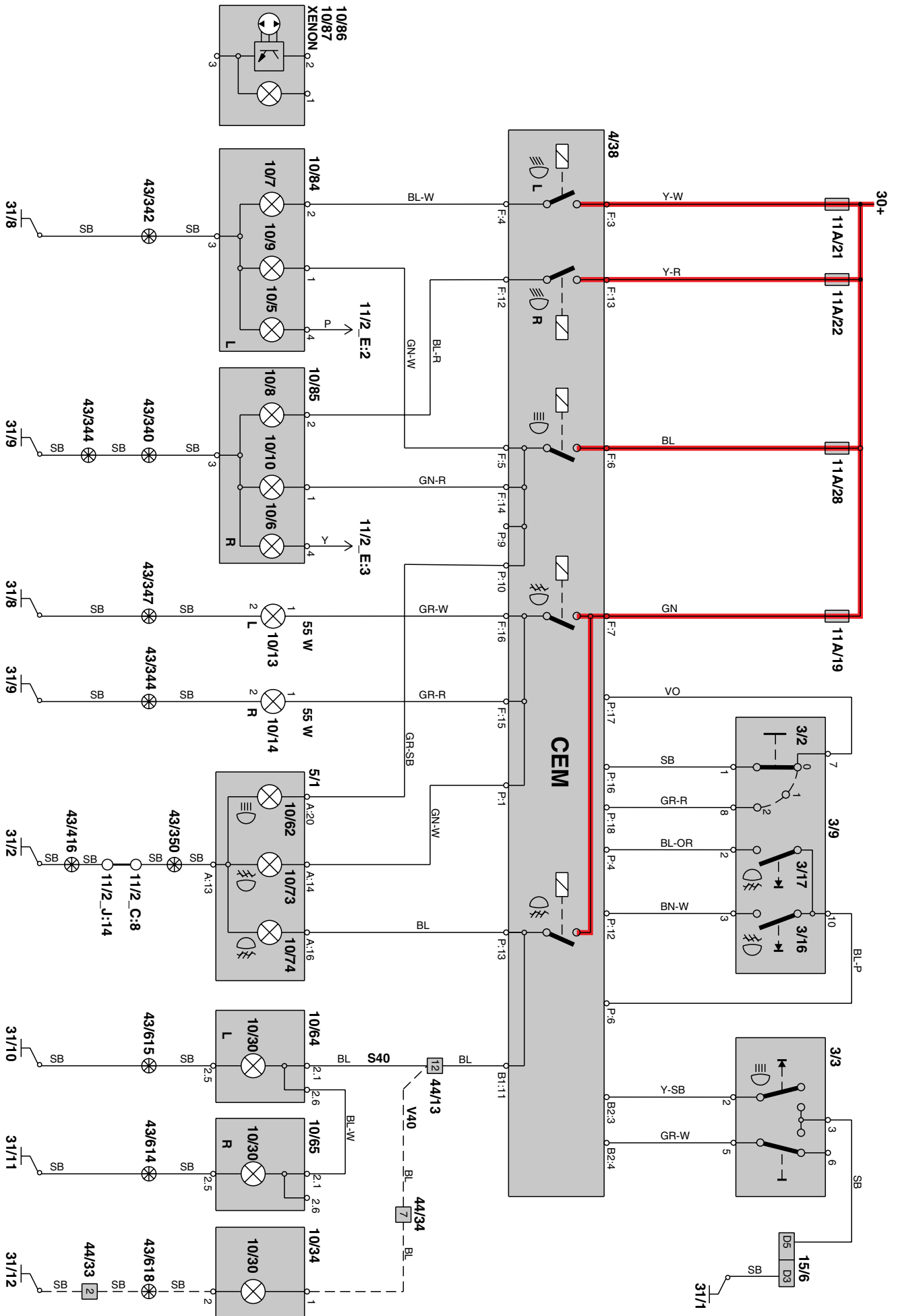
#### 44/9 26-pin

| No.       | Passenger compartment harness |                                          |       | Driver's door harness |                                                                                  |       |
|-----------|-------------------------------|------------------------------------------|-------|-----------------------|----------------------------------------------------------------------------------|-------|
| 1         | 43/419                        | Junction point                           | BL    | 3/33_1:8              | Control module, power windows/door mirrors, driver's door                        | BL    |
| 2         | 11/2_J:18                     | Fuse box in passenger compartment        | R-SB  | 9/7:4                 | Heated door mirror, driver's door                                                | R-SB  |
| 3         | 15/4:C5                       | Distribution rail                        | GR-W  | 6/28:2<br>6/36:1      | Central locking, driver's door<br>Central locking with deadlock on driver's door | GR-W  |
| 4         | -                             |                                          | -     | 6/49:8                | Retractable driver's door mirror                                                 | GN-R  |
| 5         | 4/39_A:16                     | Control module for locks and alarm, VGLA | BN-GR | 3/54:1                | Switch, driver's door lock                                                       | BN-GR |
| 6         | 4/39_A:18                     | Control module for locks and alarm, VGLA | Y-GR  | 3/54:3                | Switch, driver's door lock                                                       | Y-GR  |
| continues |                               |                                          |       |                       |                                                                                  |       |

**44/9 26-pin**

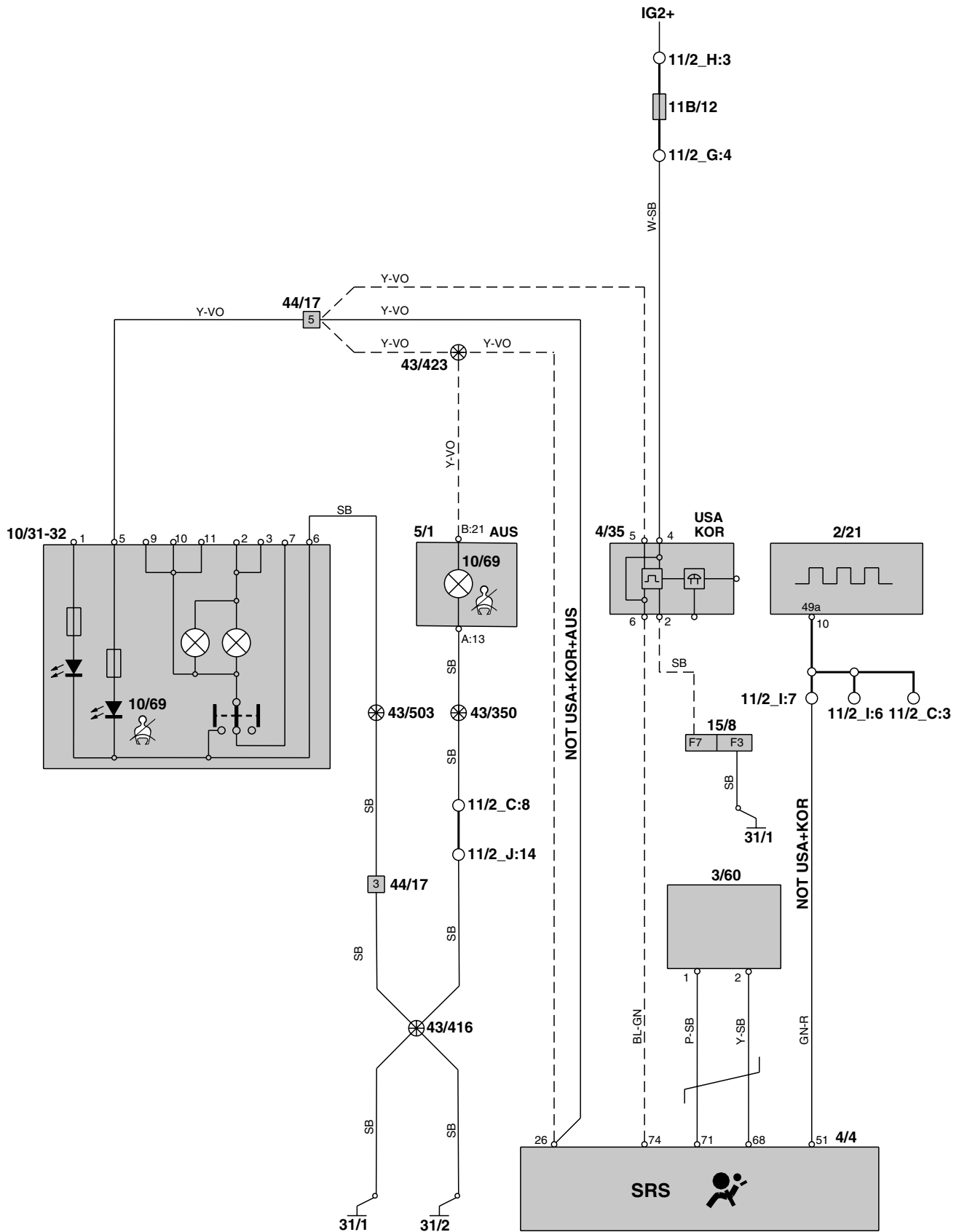
| No. | Passenger compartment harness |                                          |       | Driver's door harness |                                                                                  |       |
|-----|-------------------------------|------------------------------------------|-------|-----------------------|----------------------------------------------------------------------------------|-------|
| 7   | 31/2:4                        | Ground connection                        | SB    | 3/33_1:7              | Control module, power windows/door mirrors, driver's door                        | SB    |
| 8   | -                             |                                          | -     | -                     |                                                                                  | -     |
| 9   | 44/10:9                       | Connector                                | BL-Y  | 3/33_1:3              | Control module, power windows/door mirrors, driver's door                        | BL-Y  |
| 10  | 44/10:10                      | Connector                                | GN    | 3/33_1:4              | Control module, power windows/door mirrors, driver's door                        | GN    |
| 11  | 44/10:11                      | Connector                                | Y-R   | 3/33_2:3              | Control module, power windows/door mirrors, driver's door                        | Y-R   |
| 12  | 44/10:12                      | Connector                                | VO    | 3/33_2:4              | Control module, power windows/door mirrors, driver's door                        | VO    |
| 13  | 44/10:13                      | Connector                                | P     | 3/33_2:2              | Control module, power windows/door mirrors, driver's door                        | P     |
| 14  | 44/15:17                      | Connector                                | W     | 16/2:2                | Speaker, front left door                                                         | W     |
| 15  | 44/15:18                      | Connector                                | BN    | 16/2:1                | Speaker, front left door                                                         | BN    |
| 16  | 15/2:B6<br>43/430             | Distribution rail<br>Junction point, USA | GN-GR | 6/28:1<br>6/36:2      | Central locking, driver's door<br>Central locking with deadlock on driver's door | GN-GR |
| 17  | 43/420                        | Junction point                           | Y     | 6/36:3                | Central locking with deadlock on driver's door                                   | Y     |
| 18  | 4/39_A:4                      | Control module for locks and alarm, VGLA | BN    | 3/33_1:10             | Control module, power windows/door mirrors, driver's door                        | GR    |
| 19  | 4/39_A:6                      | Control module for locks and alarm, VGLA | Y-SB  | 3/33_1:9              | Control module, power windows/door mirrors, driver's door                        | GN-Y  |
| 20  | -                             |                                          | -     | 6/49:7                | Retractable driver's door mirror                                                 | BL-SB |
| 21  | 44/12:2<br>44/11:2            | Connector, RHD<br>Connector, LHD         | GR-R  | 3/33_1:11             | Control module, power windows/door mirrors, driver's door                        | GR-R  |
| 22  | 44/12:6<br>44/11:6            | Connector, RHD<br>Connector, LHD         | Y-W   | 3/33_1:12             | Control module, power windows/door mirrors, driver's door                        | Y-W   |
| 23  | 43/429                        | Junction point                           | GN-OR | 3/33_1:14             | Control module, power windows/door mirrors, driver's door                        | GN-OR |
| 24  | 44/11:2<br>44/12:2            | Connector, RHD<br>Connector, LHD         | R     | 3/33_1:15             | Control module, power windows/door mirrors, driver's door                        | R     |
| 25  | 44/11:6<br>44/12:6            | Connector, RHD<br>Connector, LHD         | BN-W  | 3/33_1:16             | Control module, power windows/door mirrors, driver's door                        | BN-W  |
| 26  | -                             |                                          | -     | -                     |                                                                                  | -     |

# Group 35 High and low beams, Fog lights

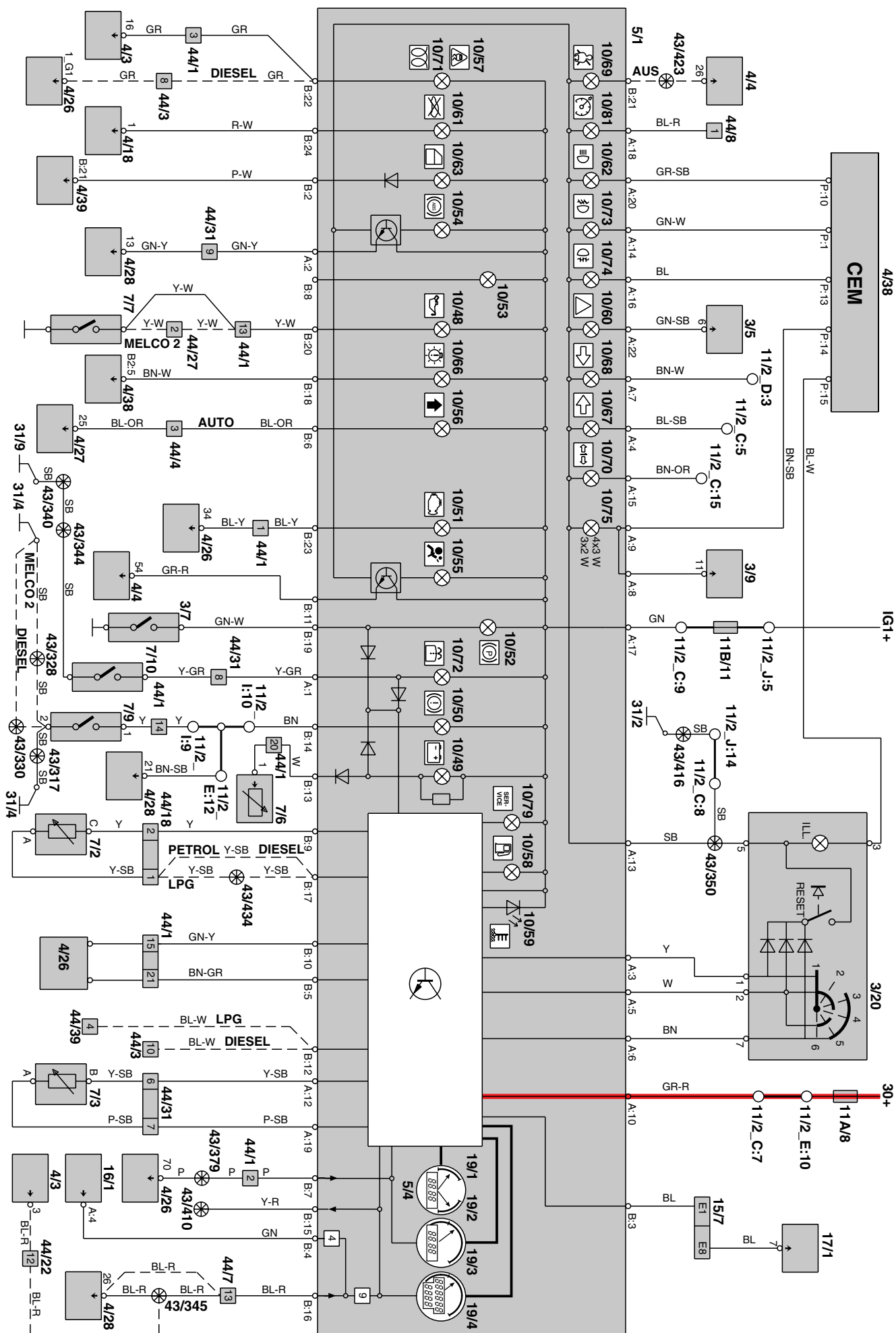


## Group 38

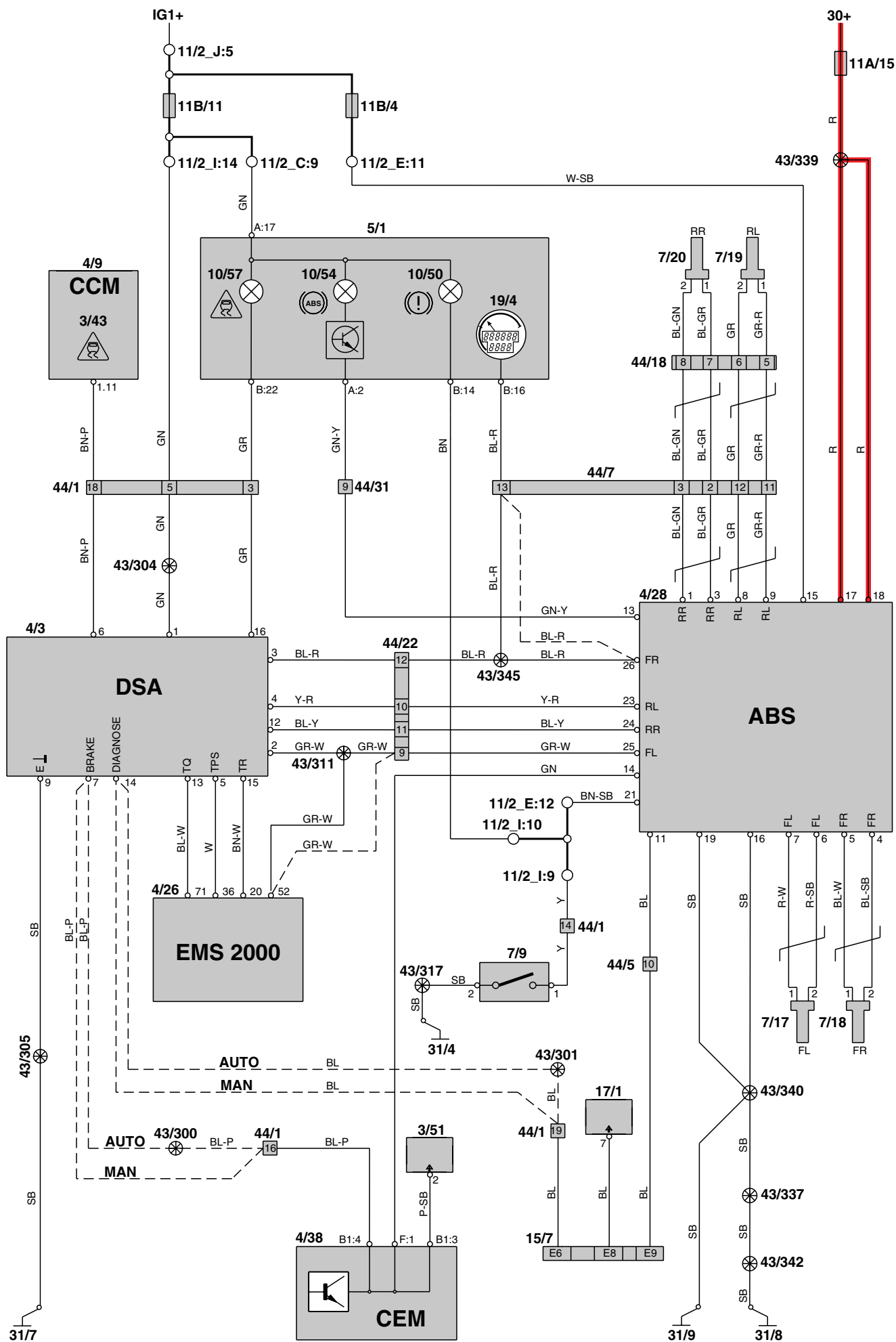
### Seat belt reminder



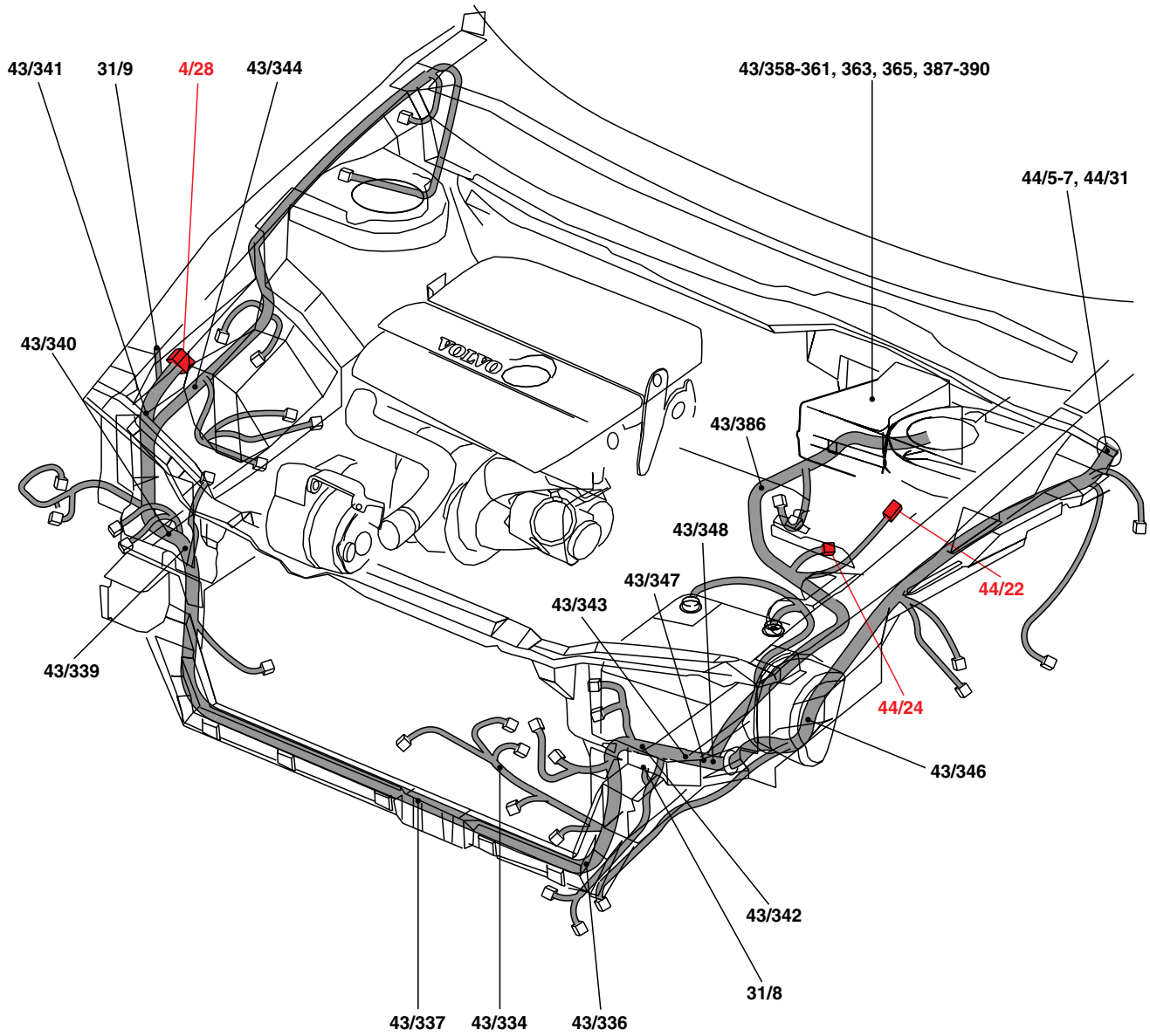
## Driver information module



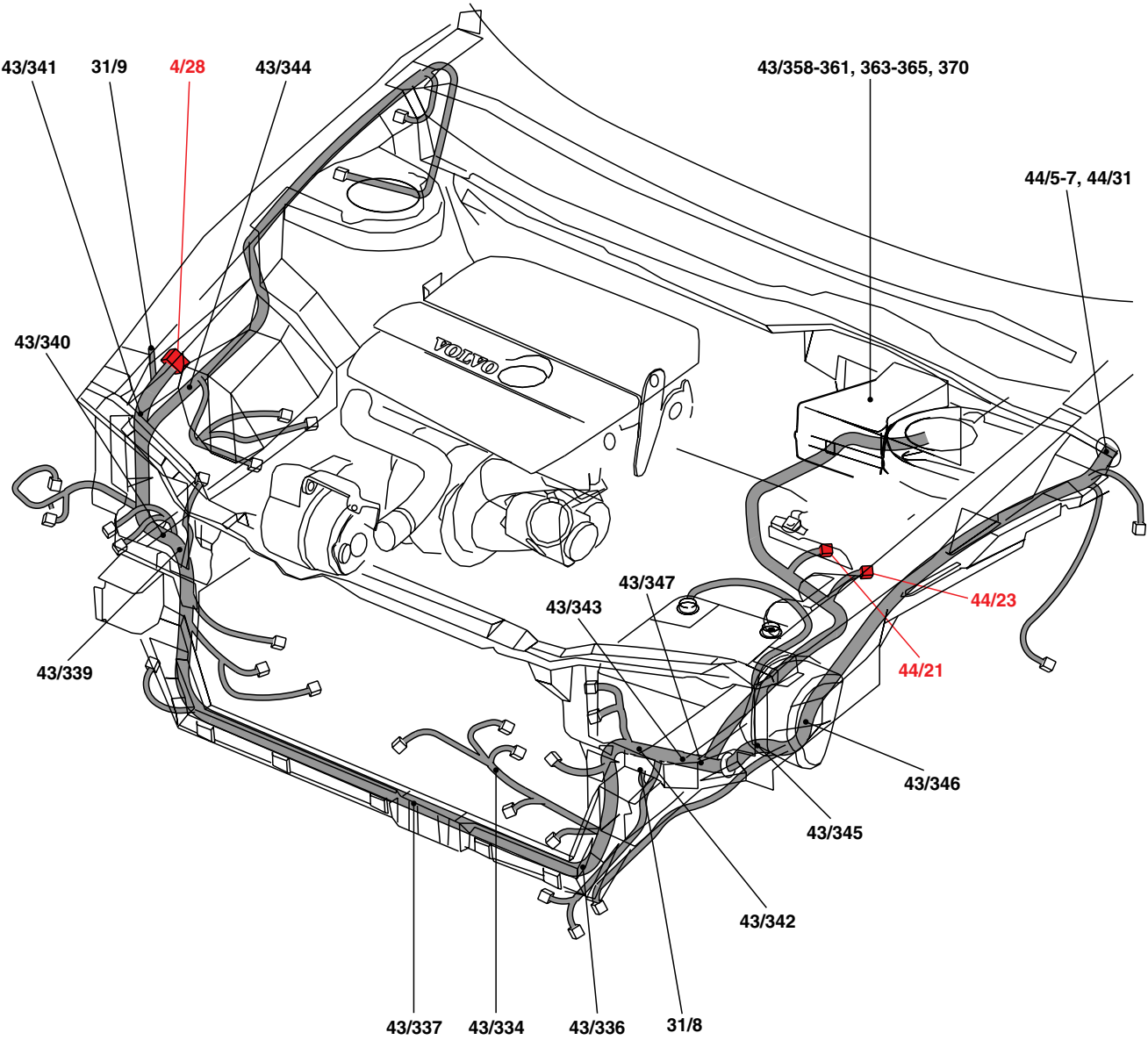
# Group 59 ABS, DSA



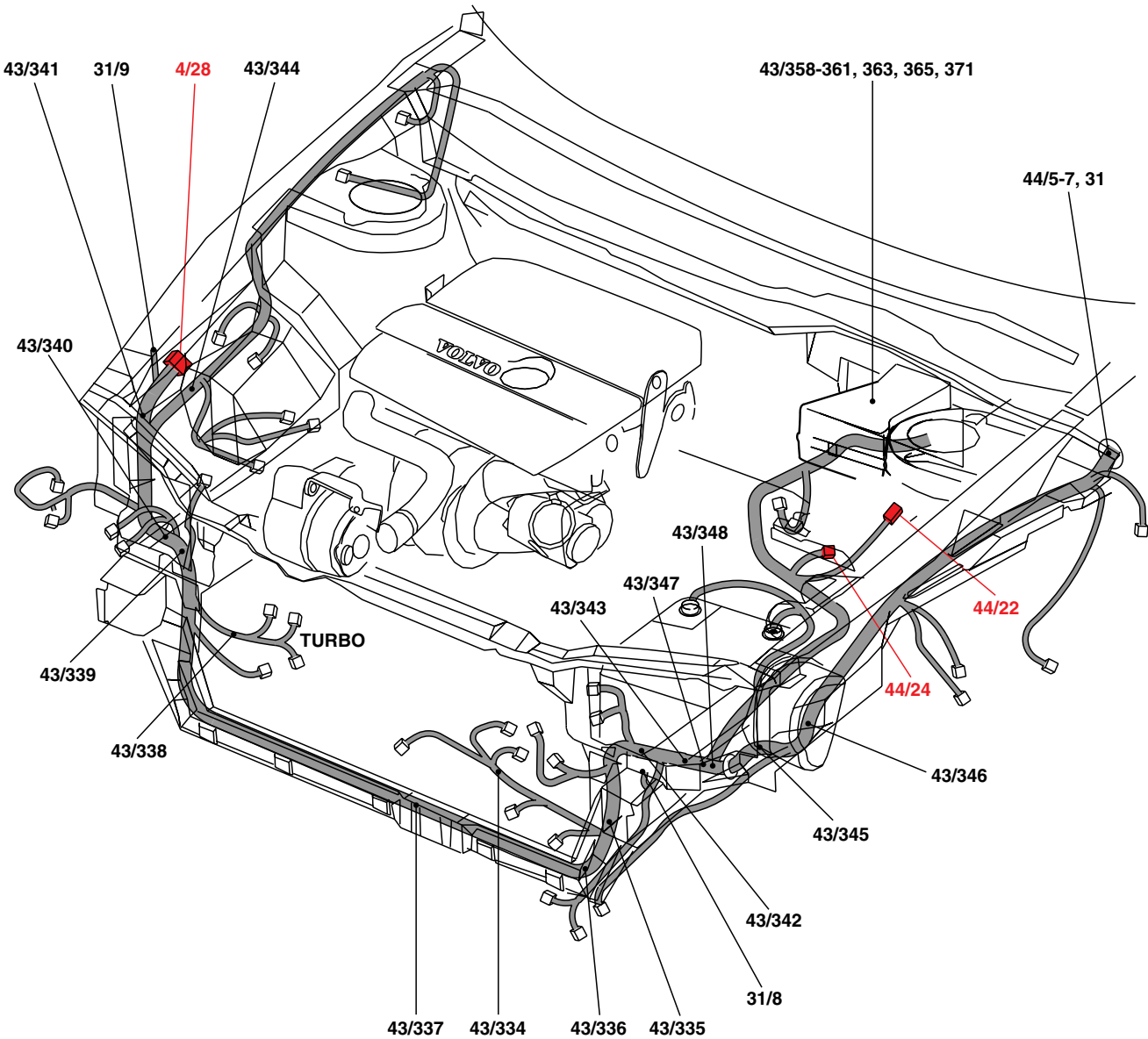
## Engine compartment harness Bifuel



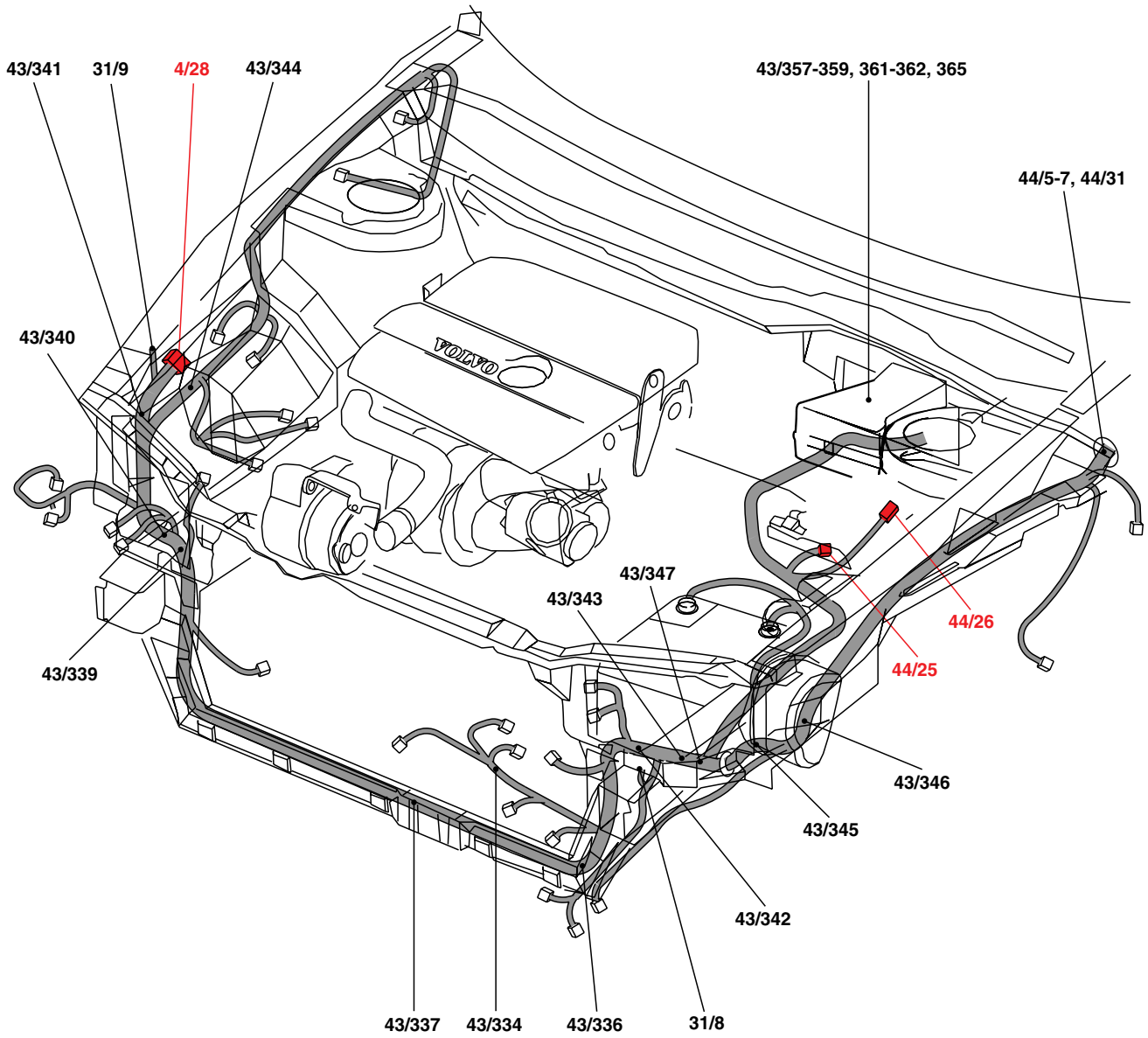
Engine compartment harness Diesel



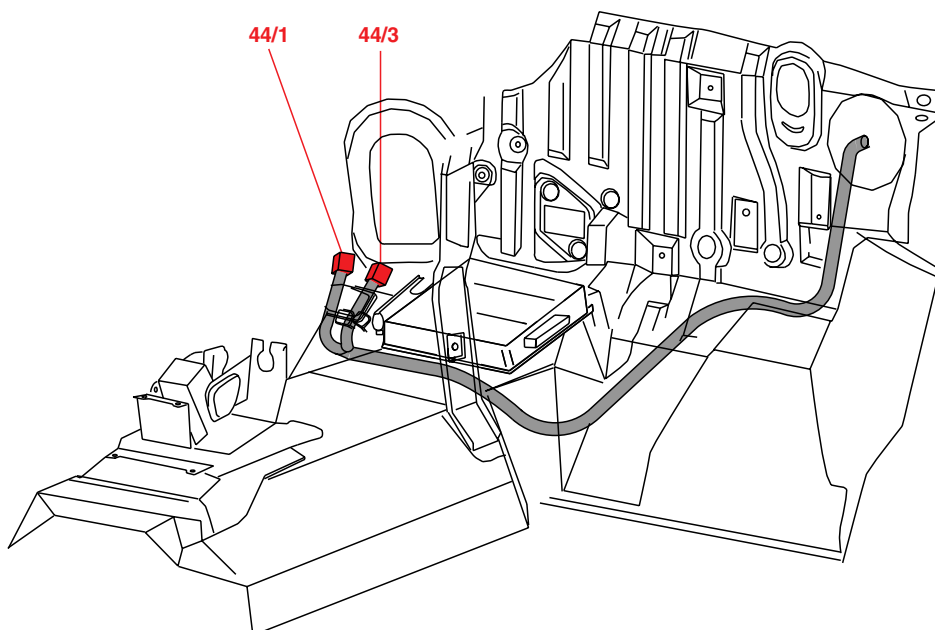
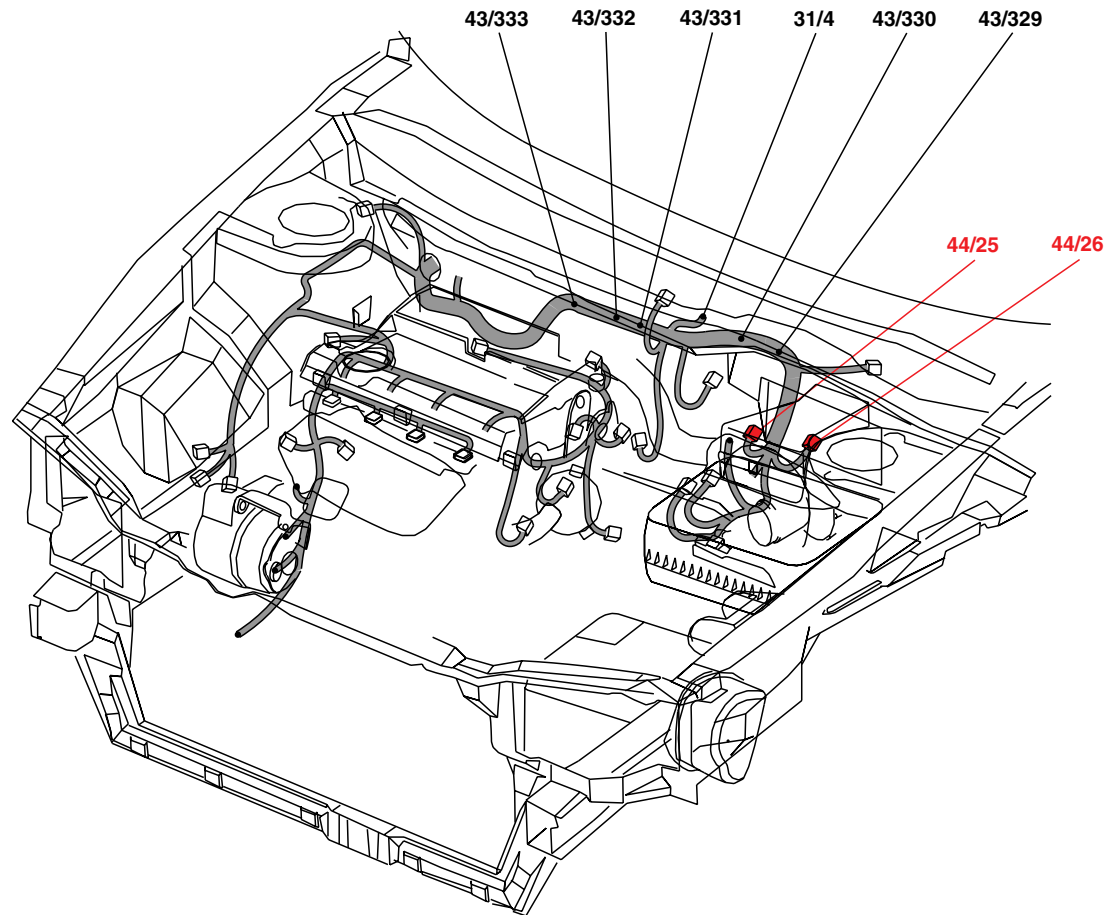
Engine compartment harness EMS 2000



## Engine compartment harness Melco 2

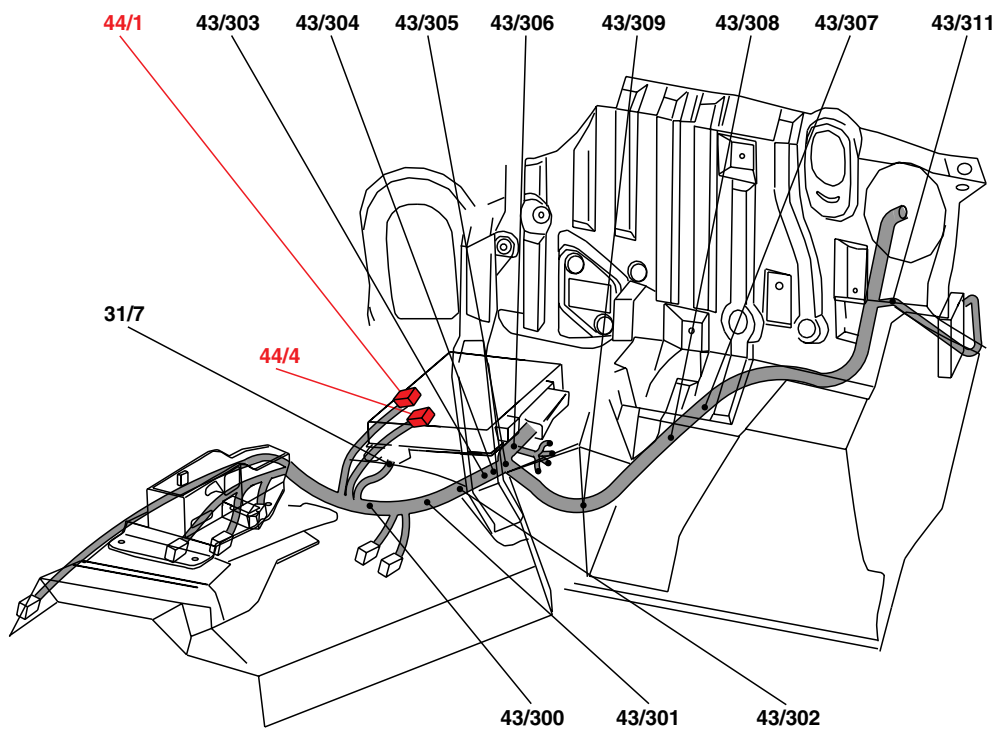
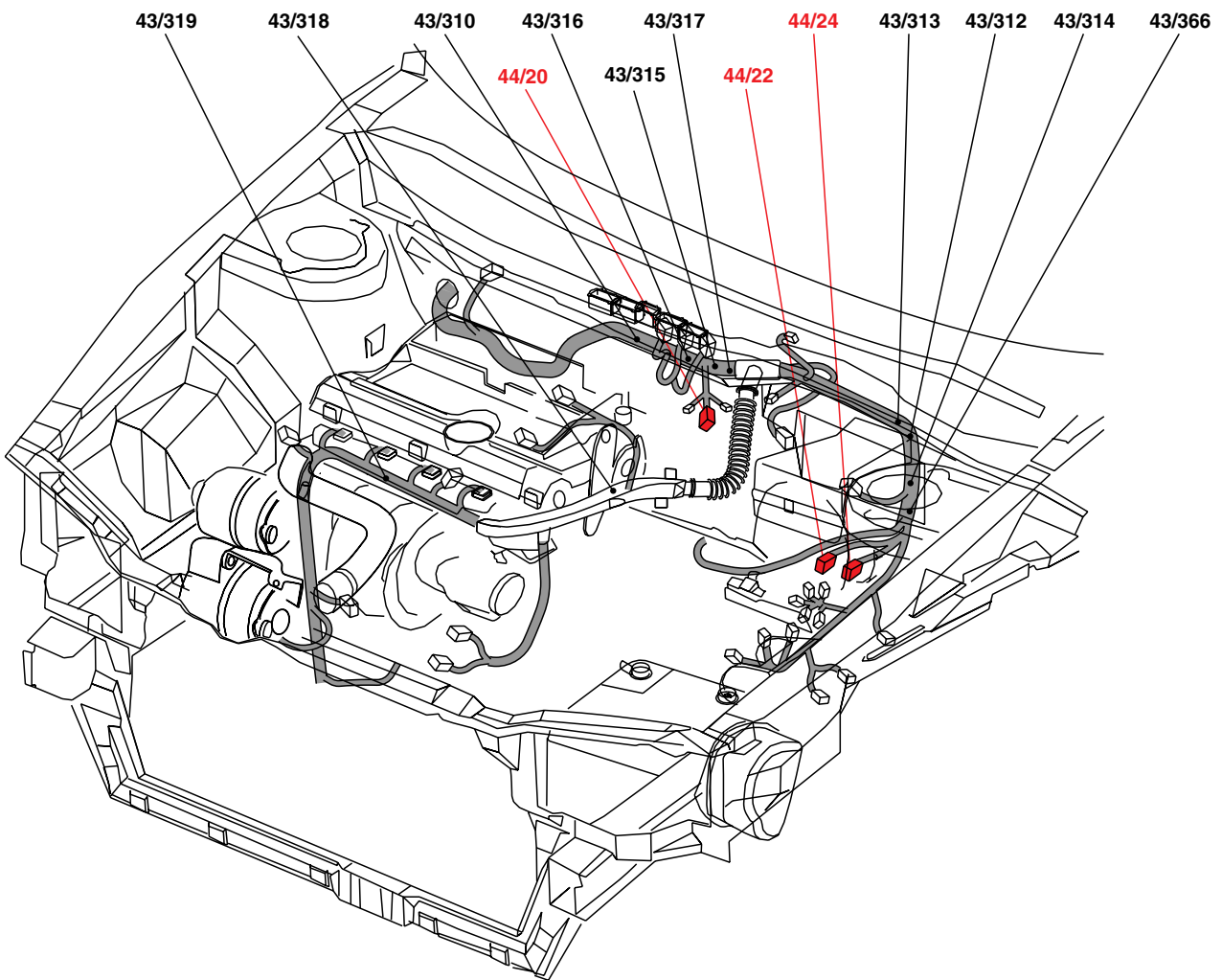


# Engine harness Diesel Passenger compartment harness

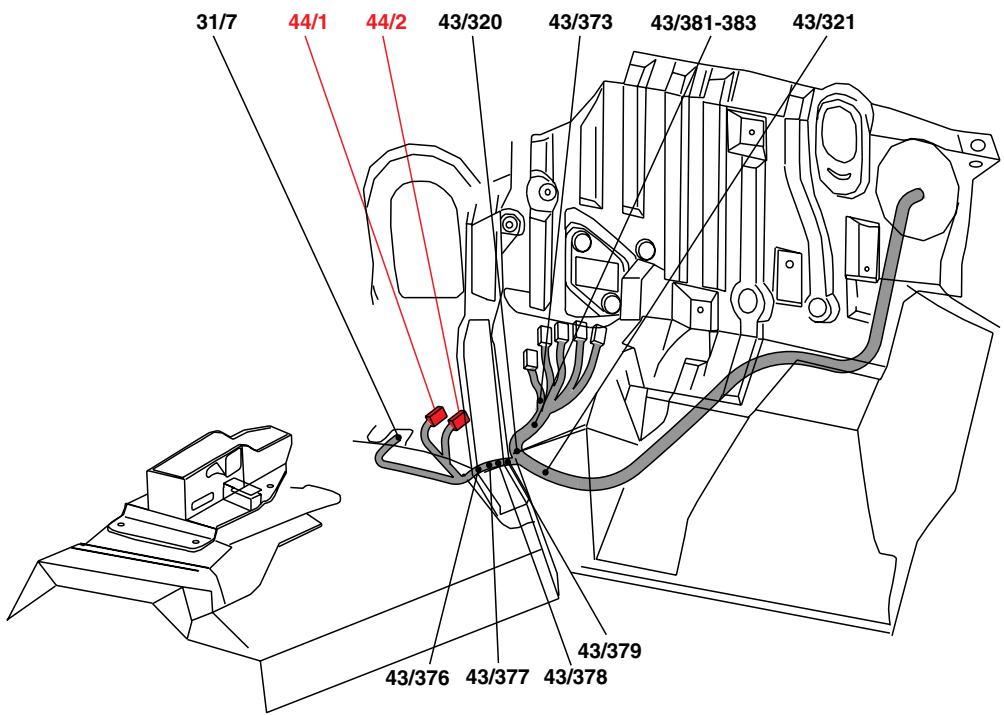
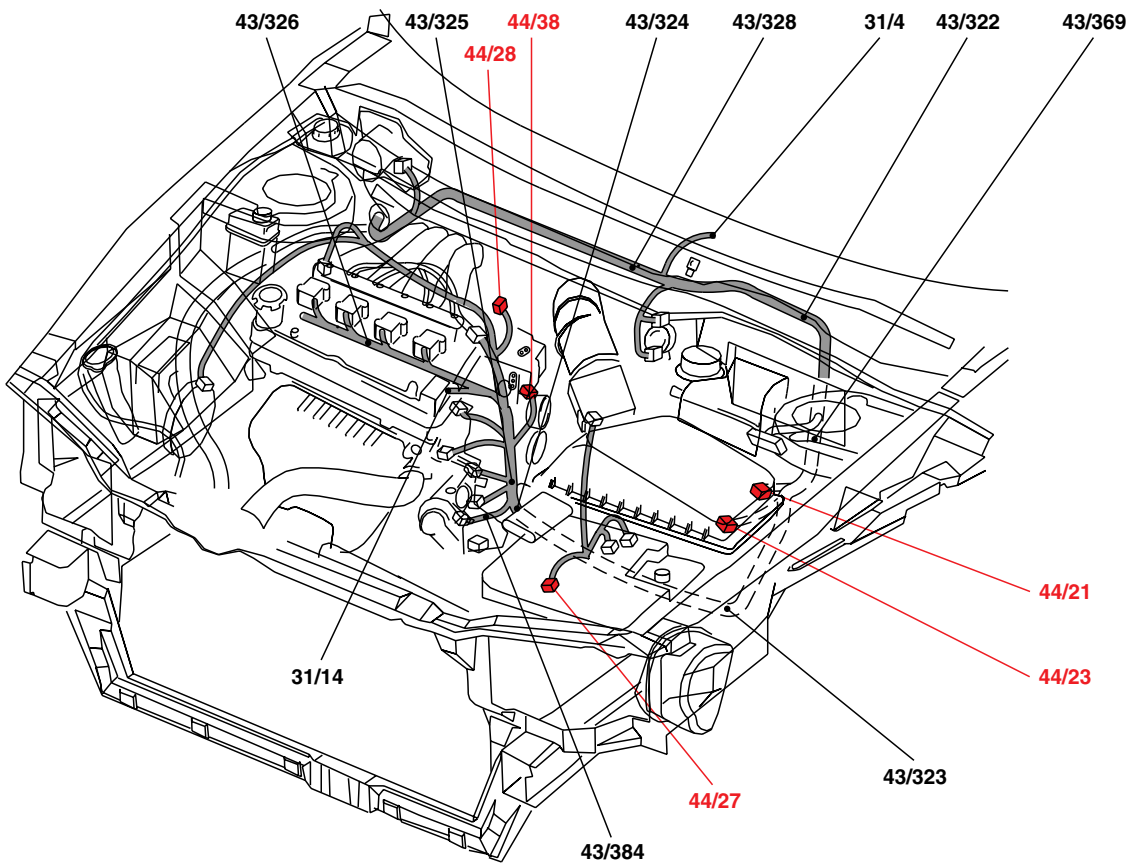


# Engine harness EMS 2000

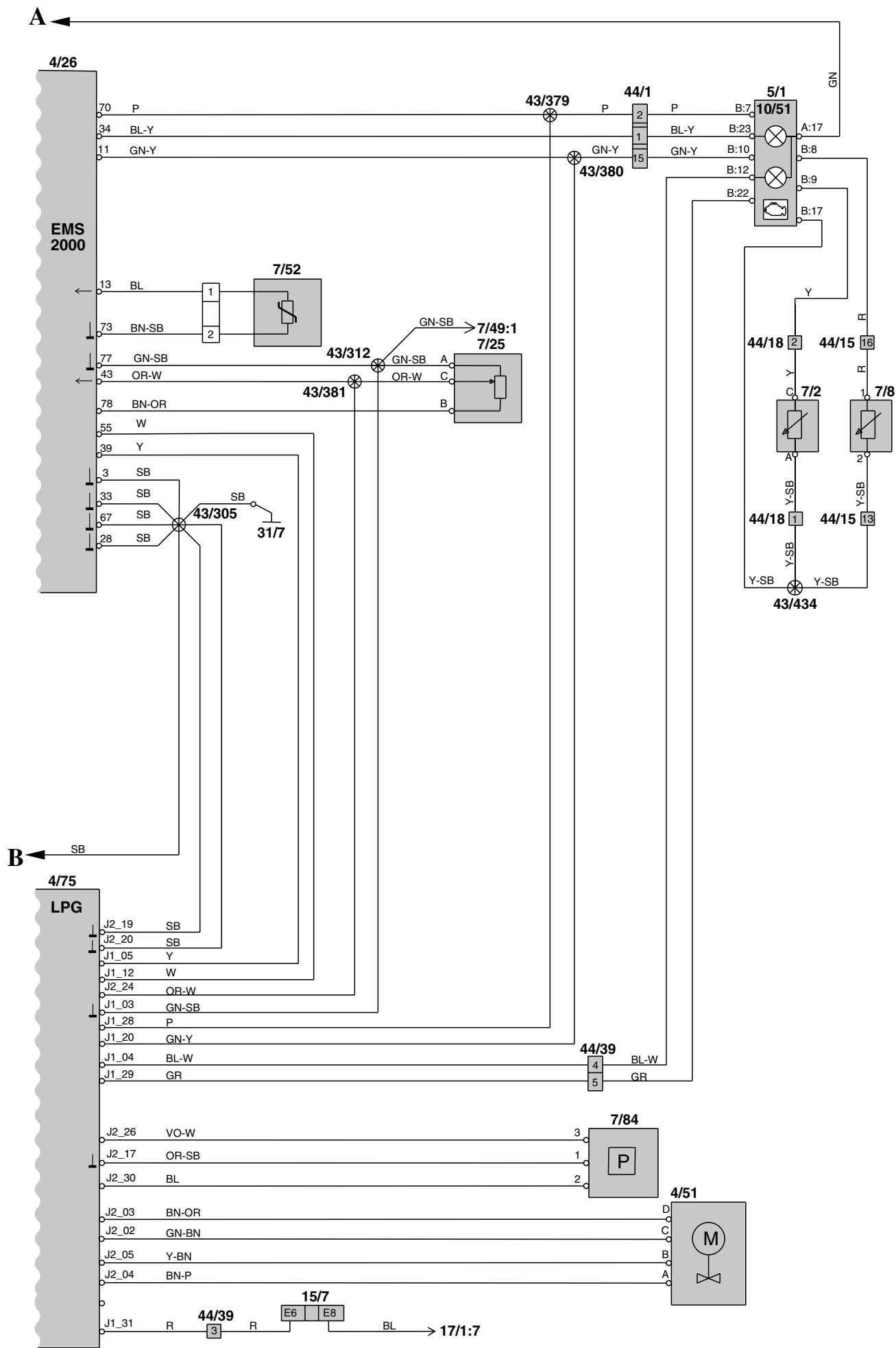
## Passenger compartment harness



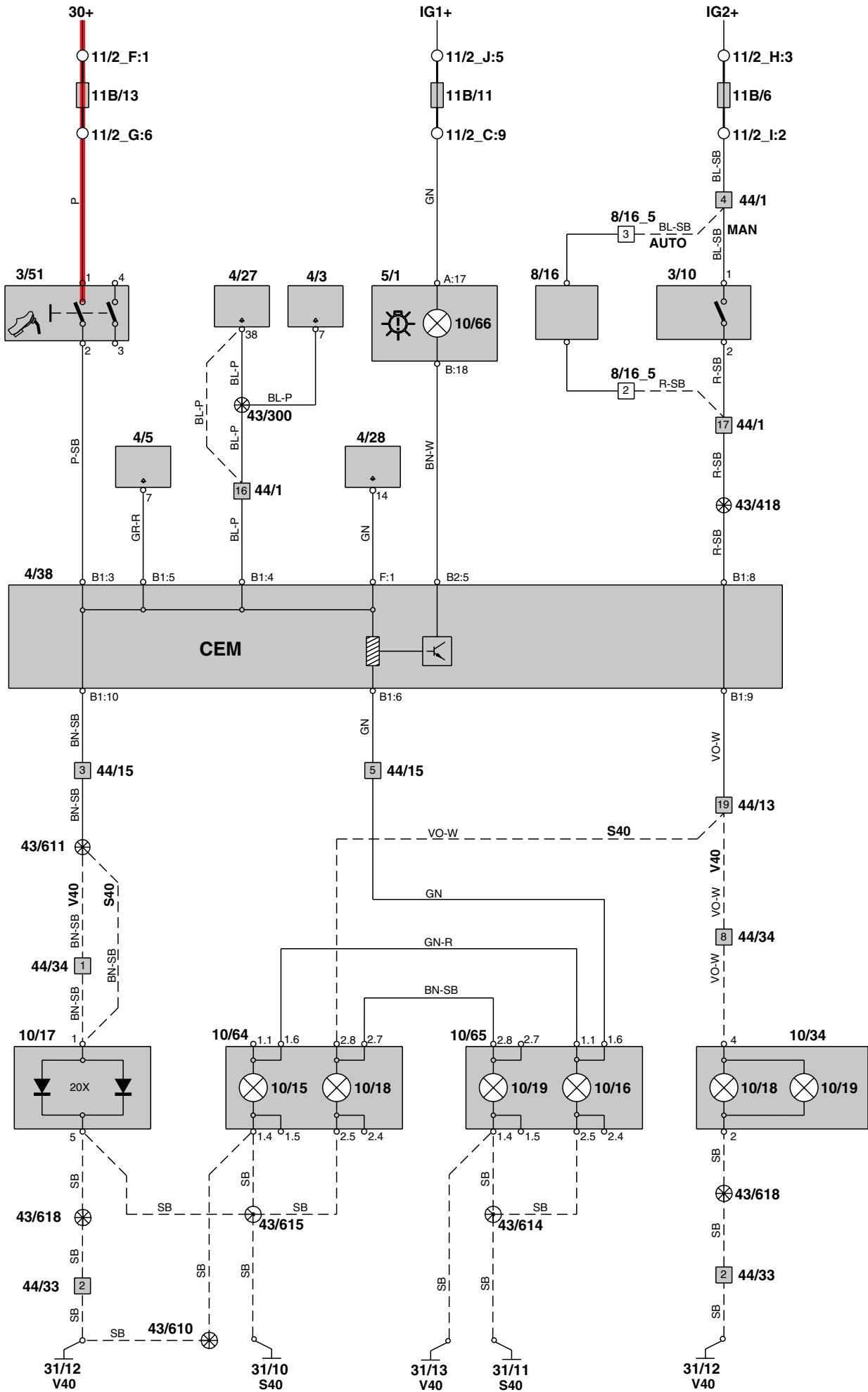
Engine harness Melco 2  
Passenger compartment harness



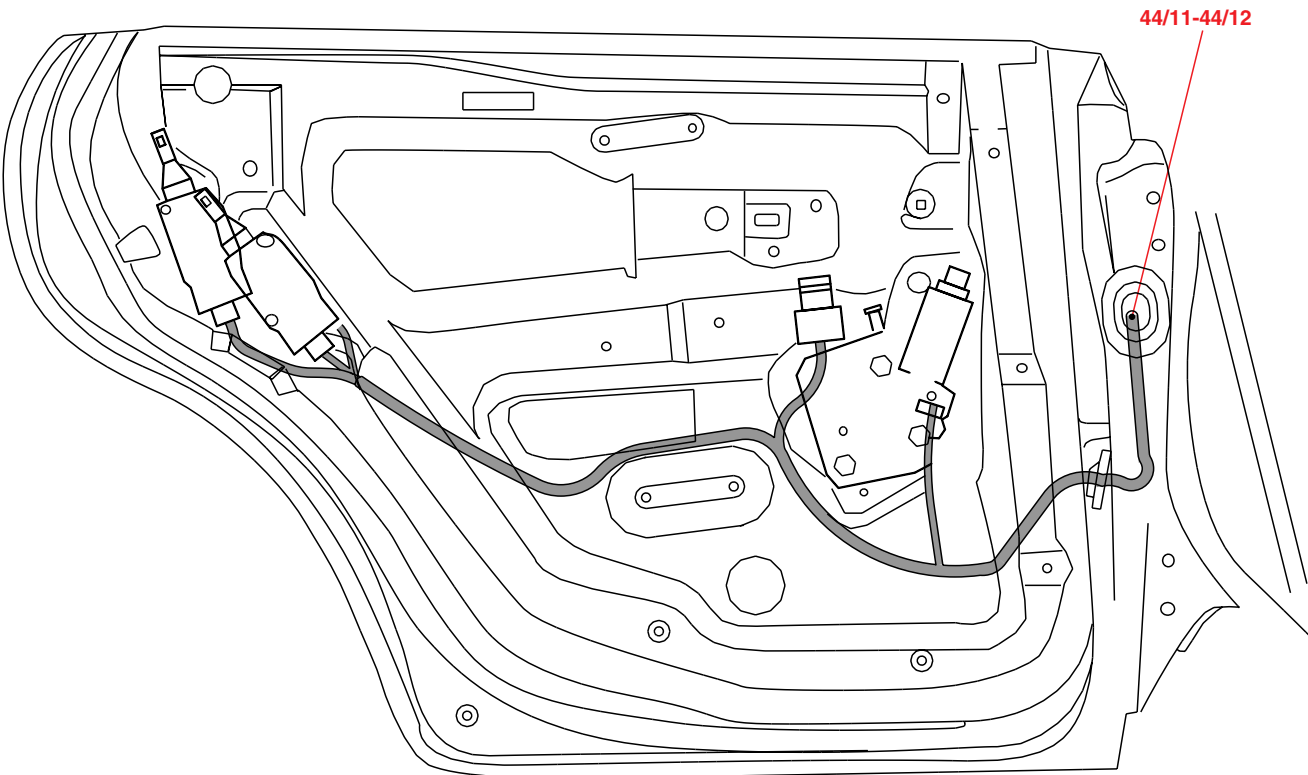
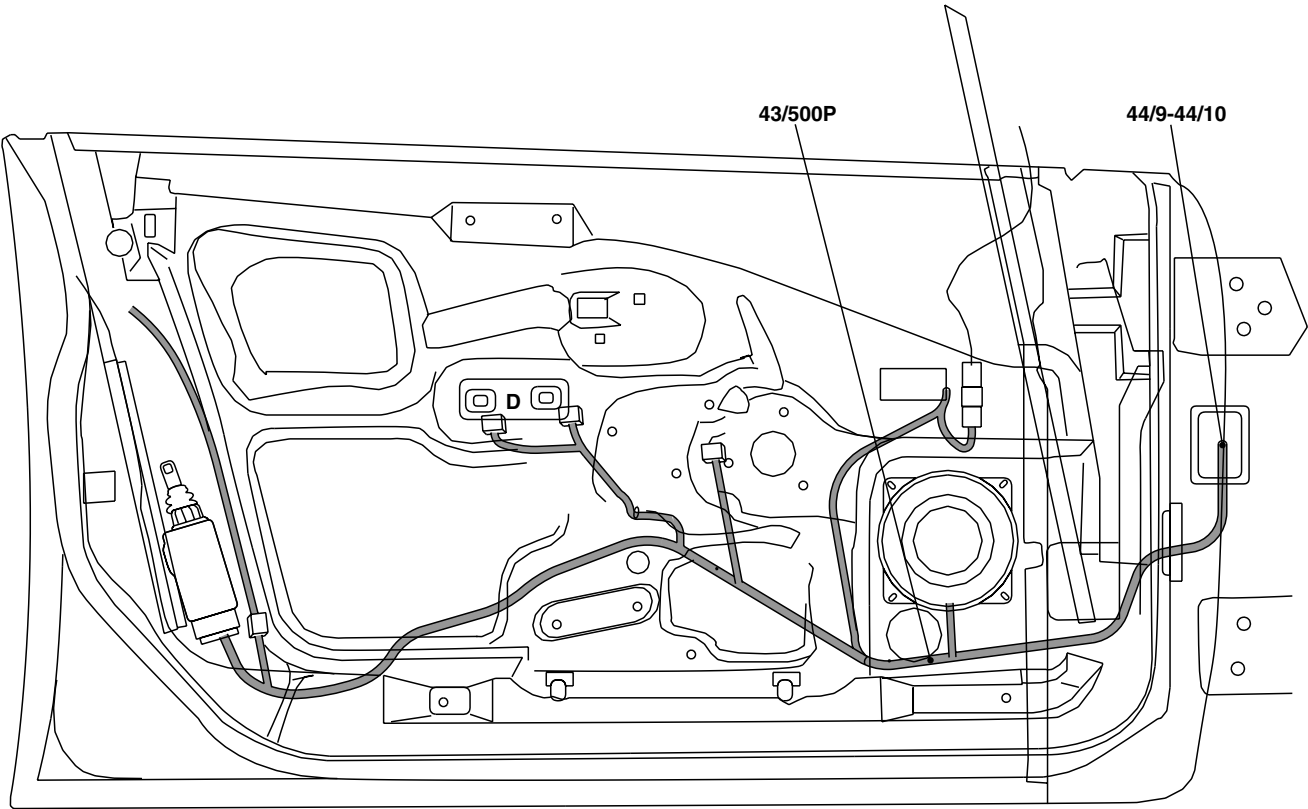
Engine management system, Bifuel



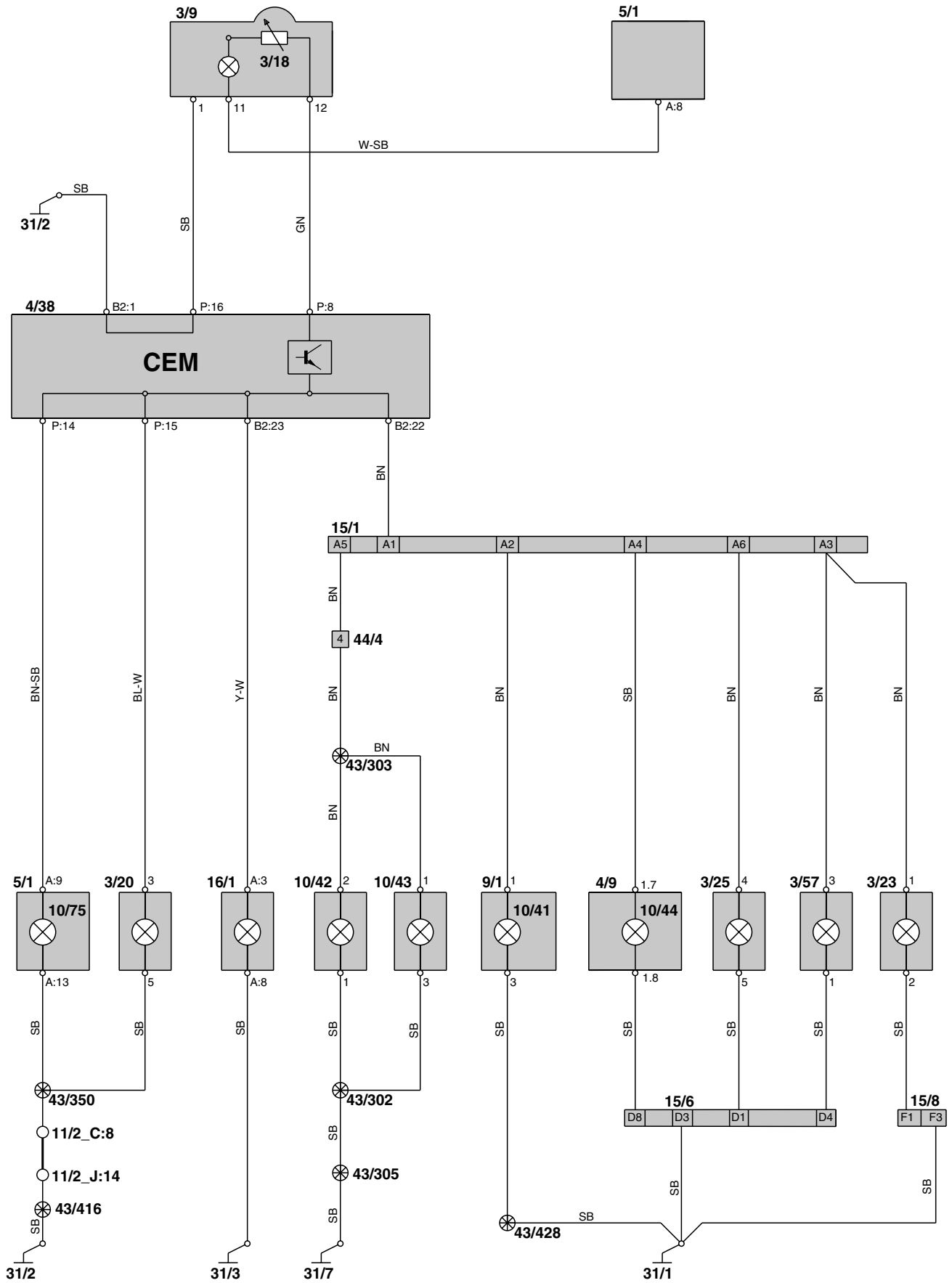
## Reversing and brake lights, filament monitor



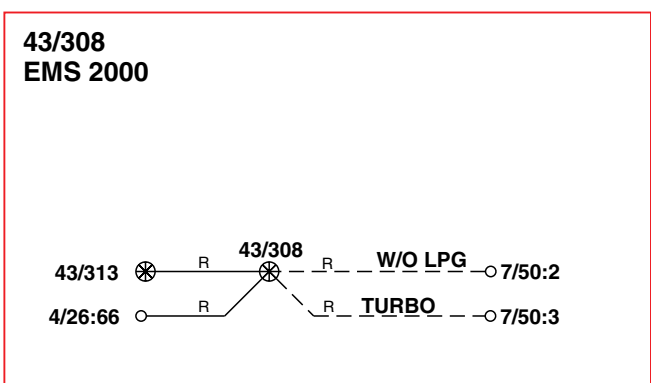
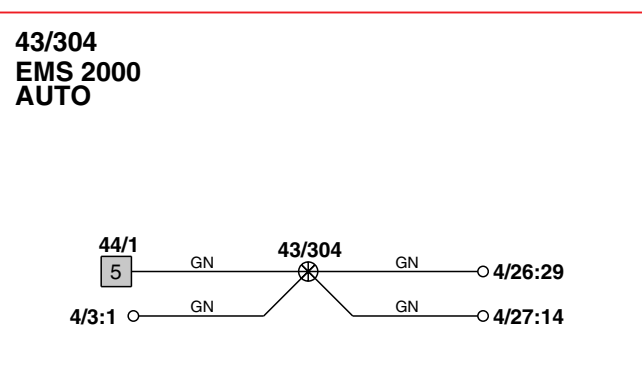
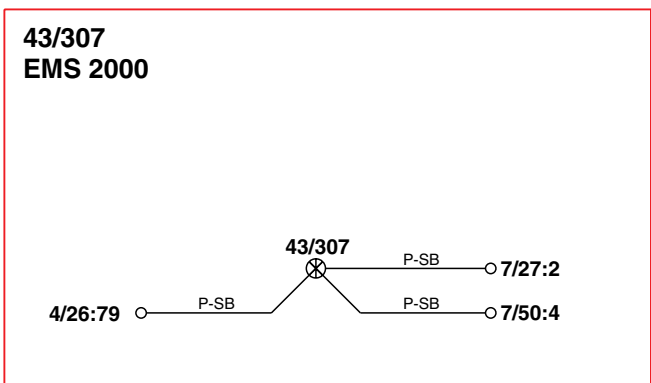
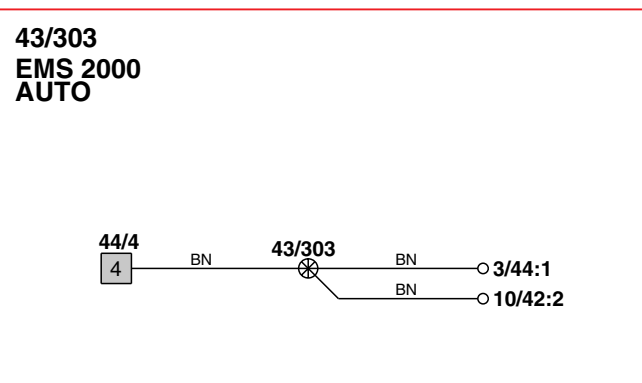
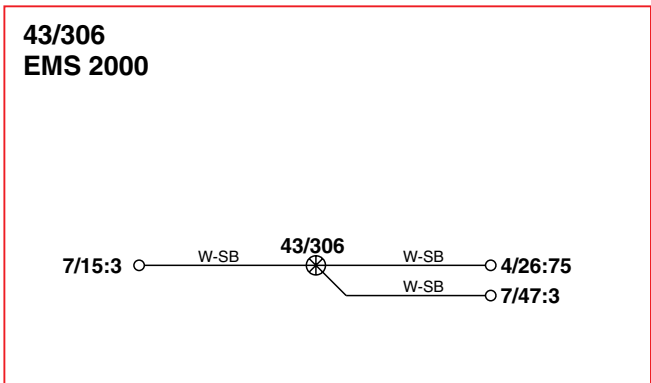
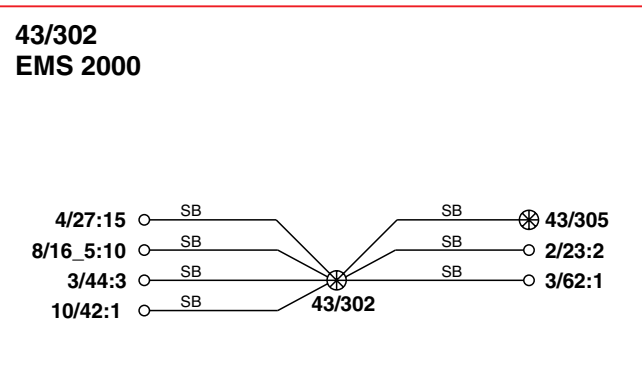
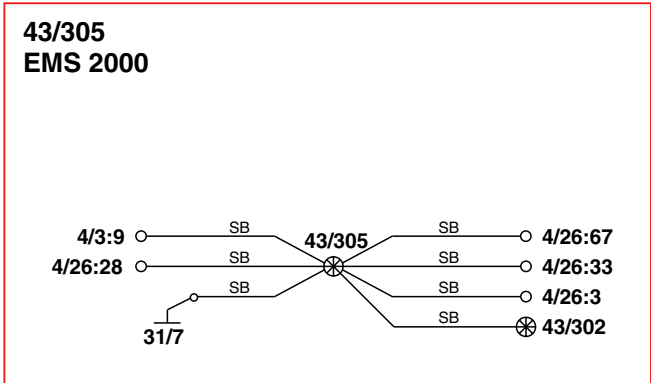
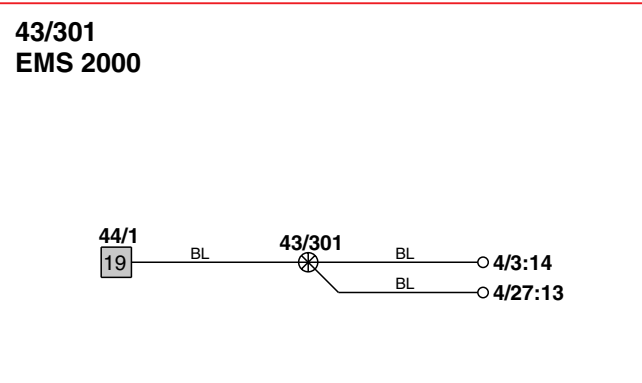
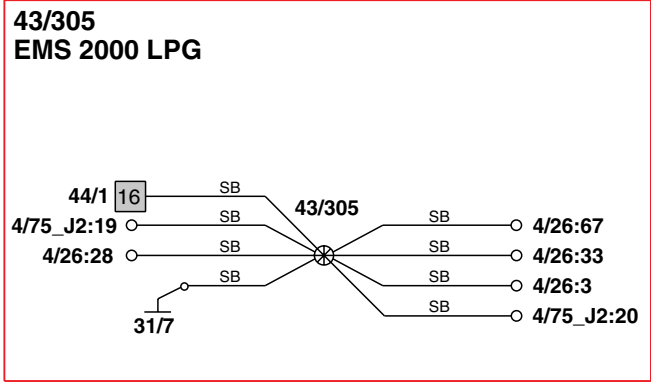
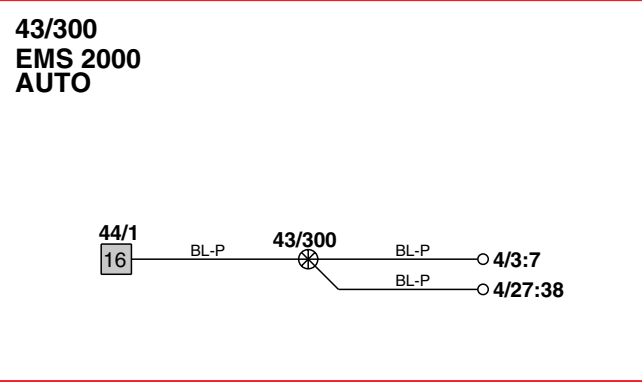
Front door harness  
Rear door harness



## Instrument and control lighting

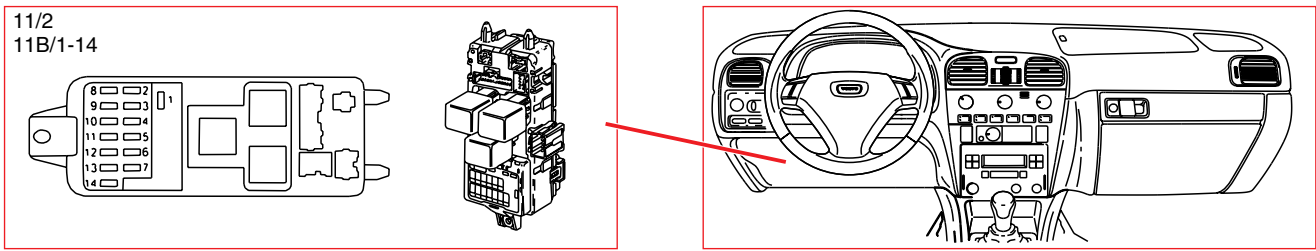


Junction points  
43/300 - 43/308



## Fuses

### Passenger compartment 11B/1-6

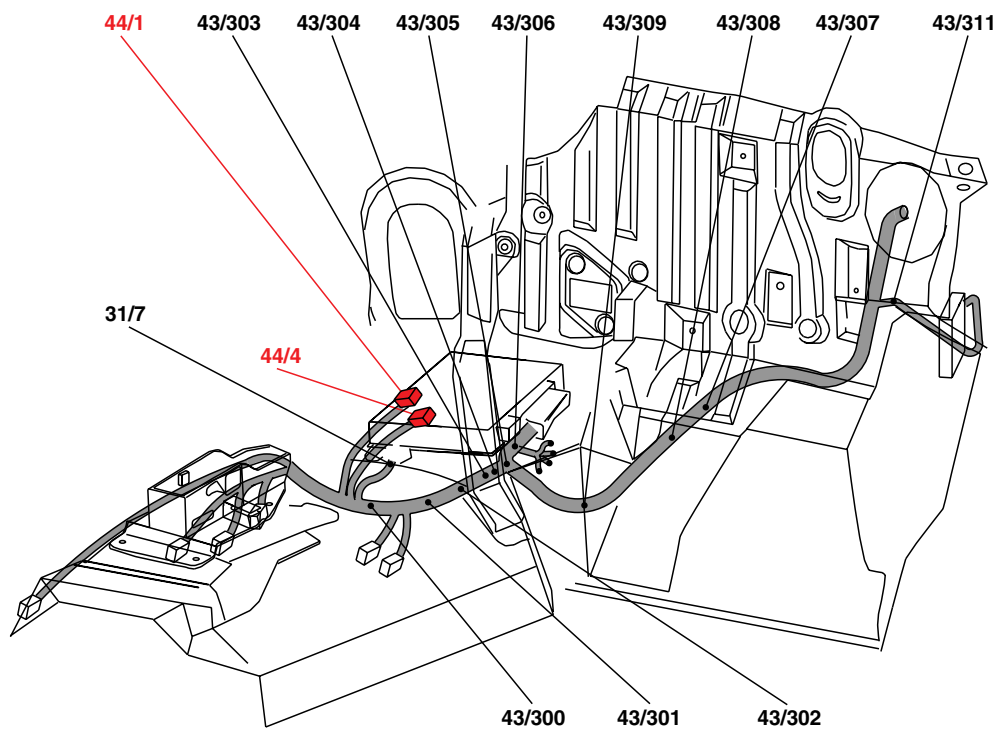
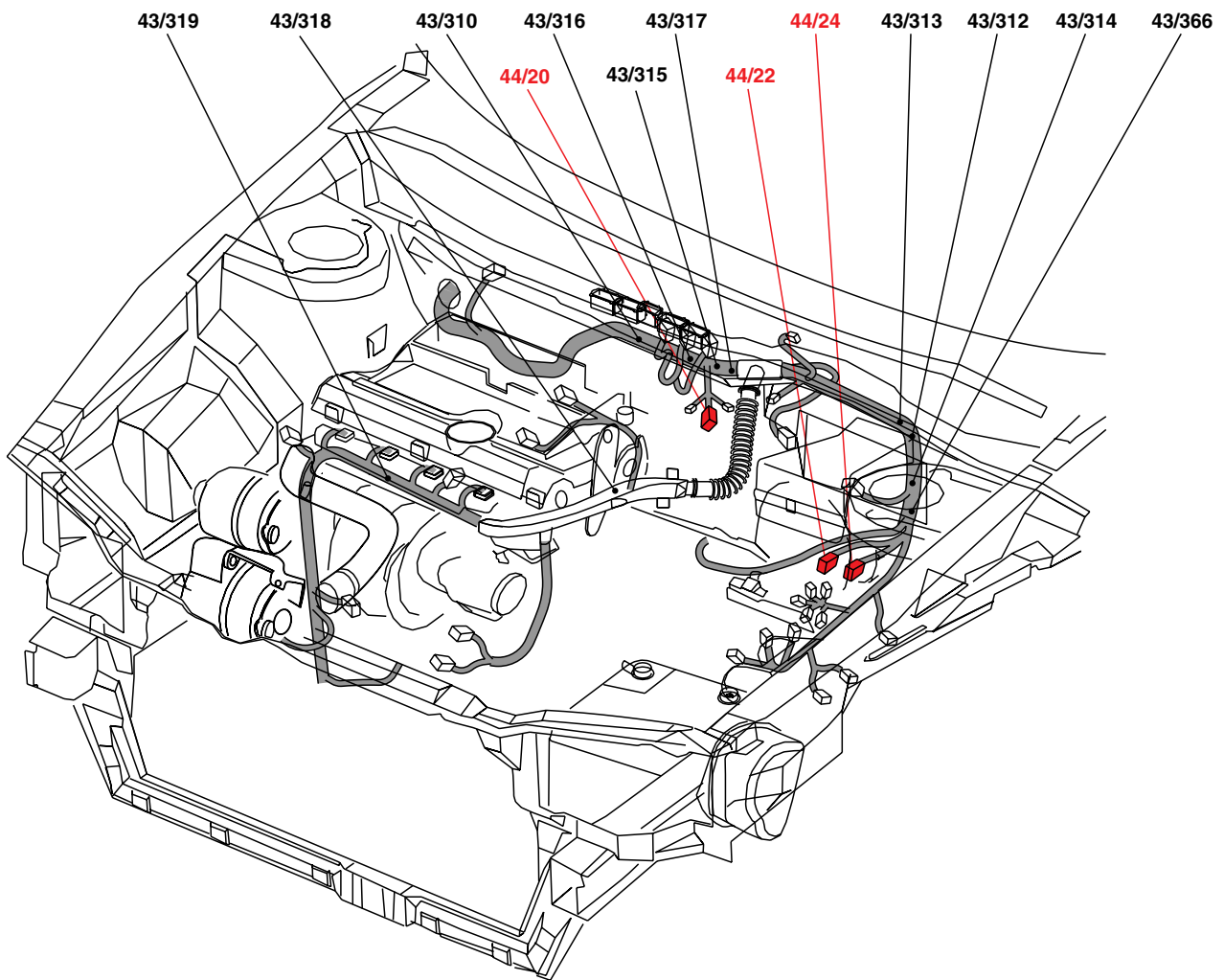


#### 11B Fuses in passenger compartment

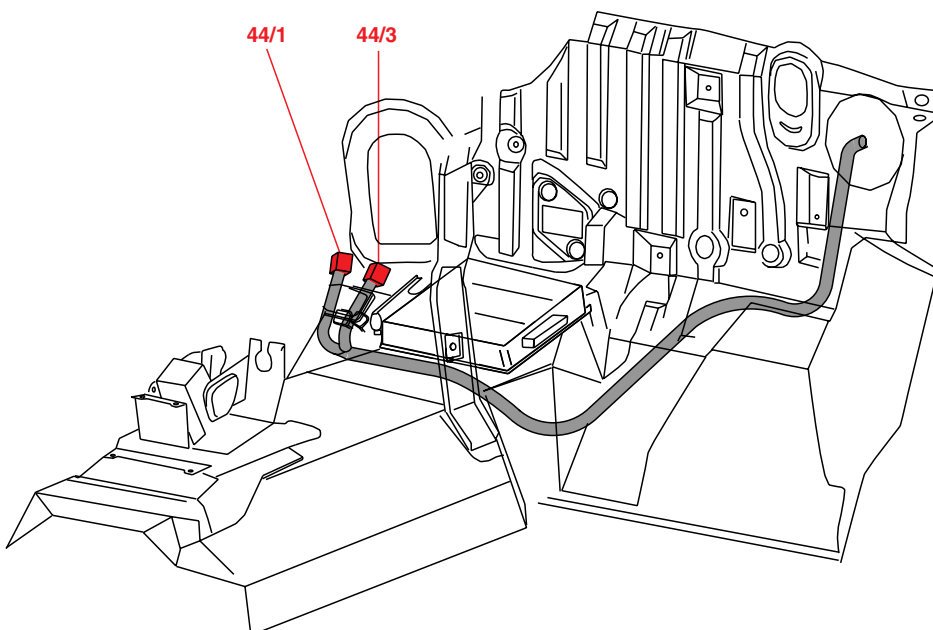
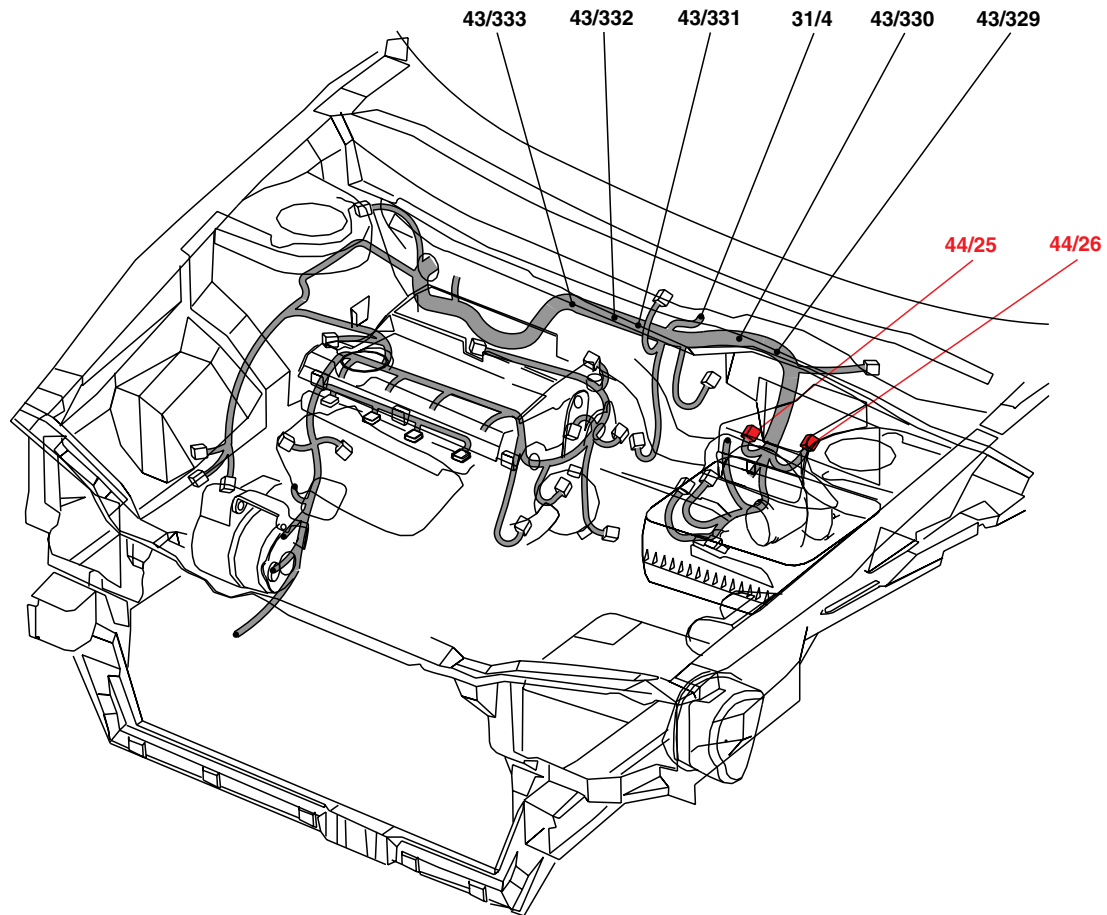
| No. | Fuse function                                                                                                                                                                                  | via                 | A  |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----|
| 1   | 6/8 Motor, passenger compartment fan<br>2/19 Relay, passenger compartment fan max. speed<br>4/9 Climate Control Module (CCM)                                                                   | 2/8<br>2/8<br>2/8   | 25 |
| 2   | 9/1 Cigarette lighter, USA, CDN, AUS<br>9/1 Cigarette lighter                                                                                                                                  | 2/41                | 20 |
| 3   | 4/39:B10 Control module for locks and alarm, VGLA<br>2/18 Relay, power windows<br>6/49 Retractable driver's door mirror<br>6/50 Retractable passenger door mirror<br>8/26 Power passenger seat |                     | 10 |
| 4   | 4/38 Central Electronic Module CEM<br>4/28:15 ABS control module                                                                                                                               |                     | 10 |
| 5   | 7/12 Driver's seat temperature sensor<br>7/13 Passenger seat temperature sensor<br>9/3-6 Heating element, heated seats                                                                         |                     | 20 |
| 6   | 8/16 Automatic transmission<br>10/18 Left-hand reversing light<br>2/21 Relay, direction indicators<br>10/19 Right-hand reversing light                                                         | 4/38<br>3/5<br>4/38 | 15 |
|     | continues                                                                                                                                                                                      |                     |    |

# Engine harness EMS 2000

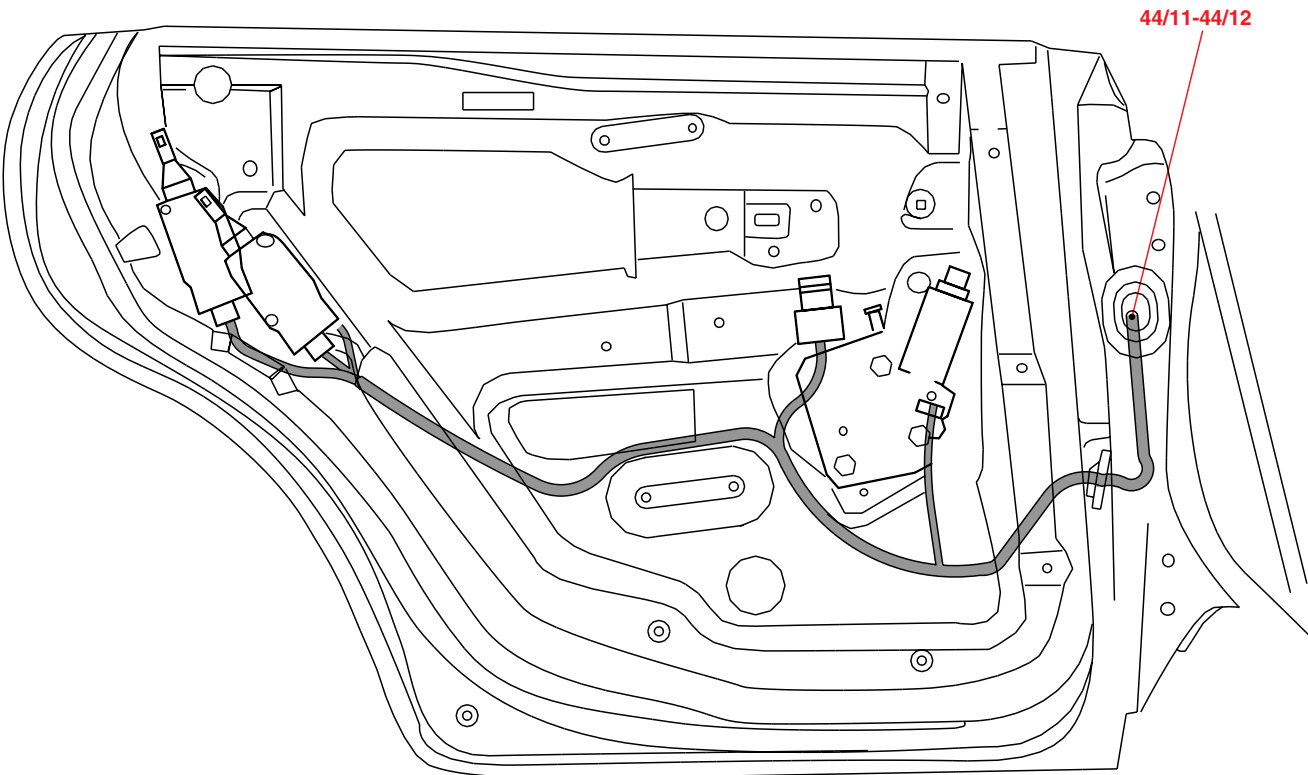
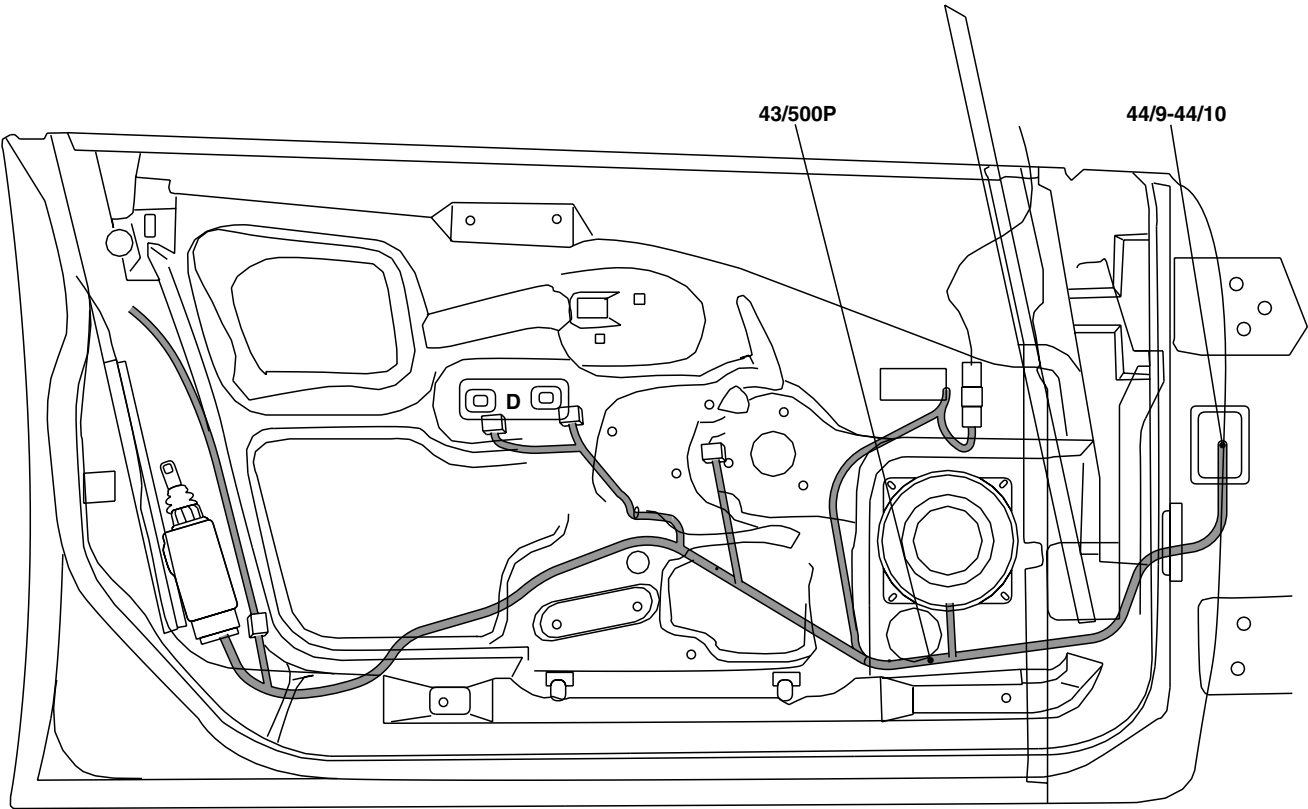
## Passenger compartment harness



# Engine harness Diesel Passenger compartment harness

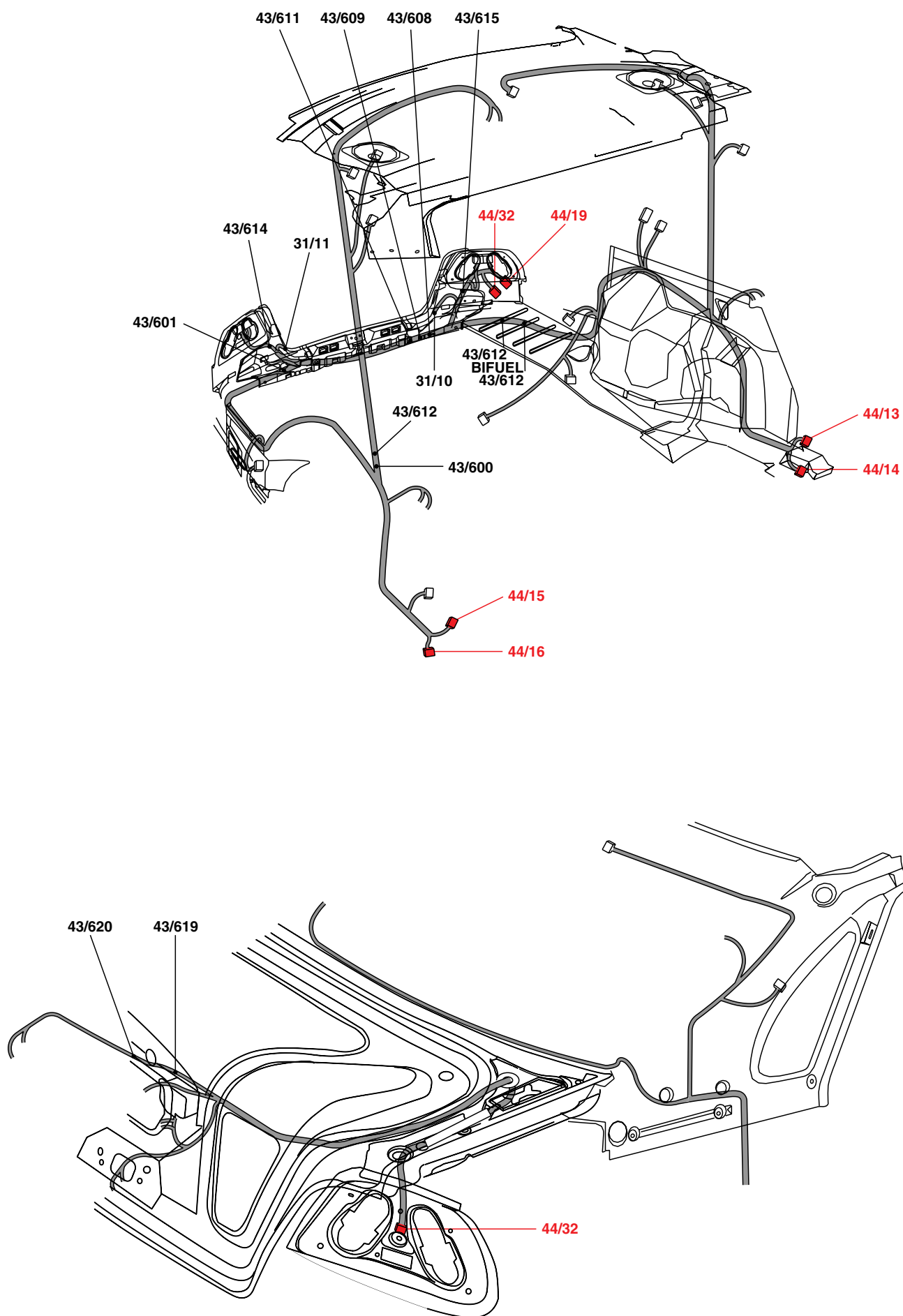


Front door harness  
Rear door harness

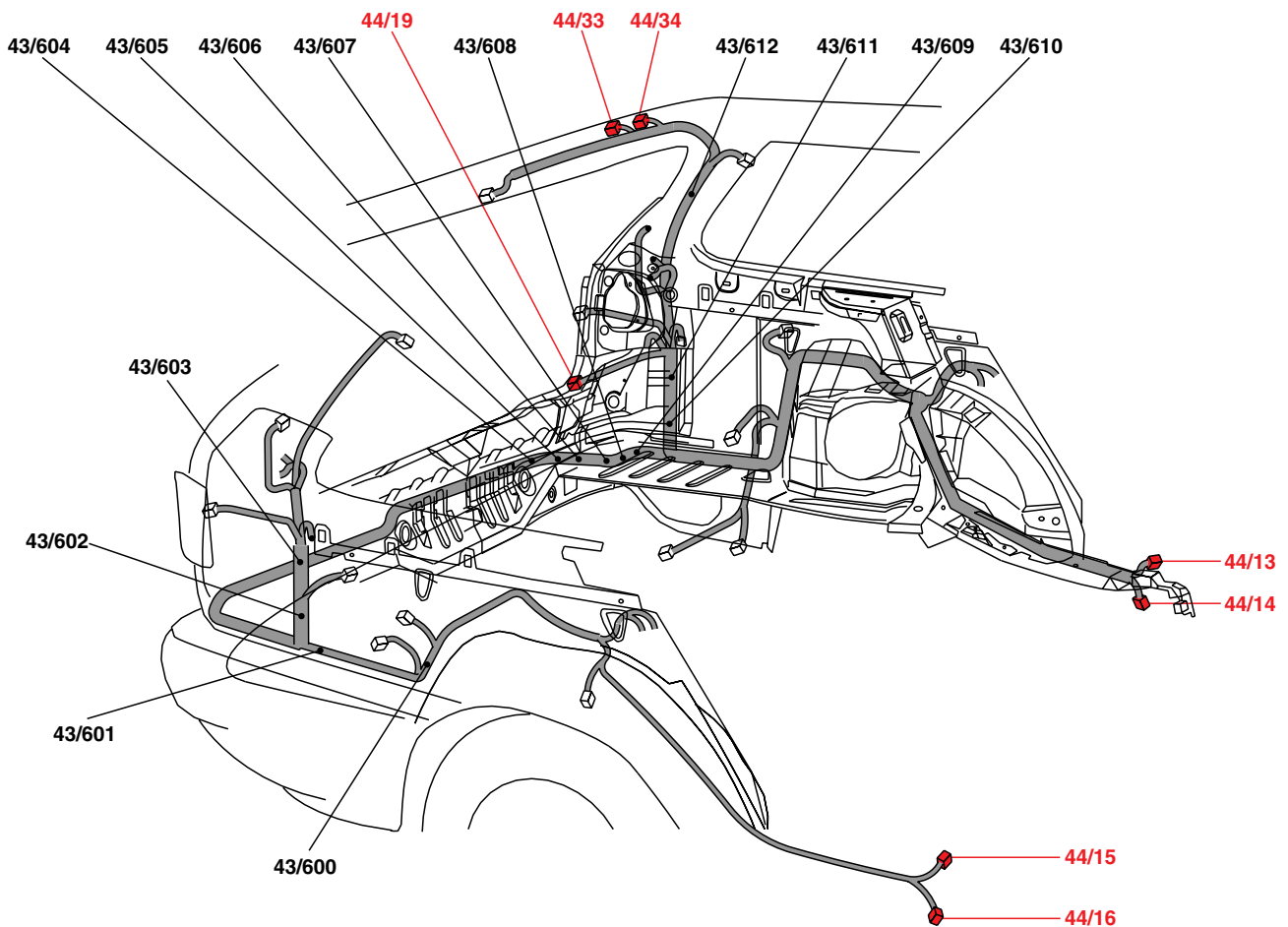
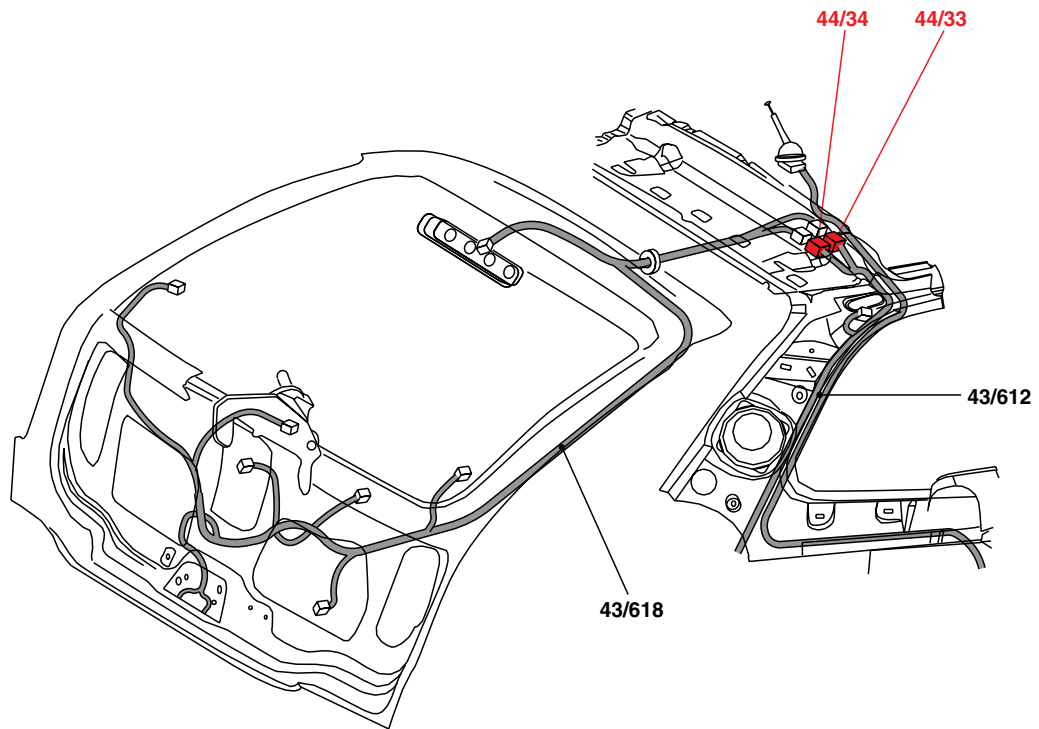


## Rear harness S40

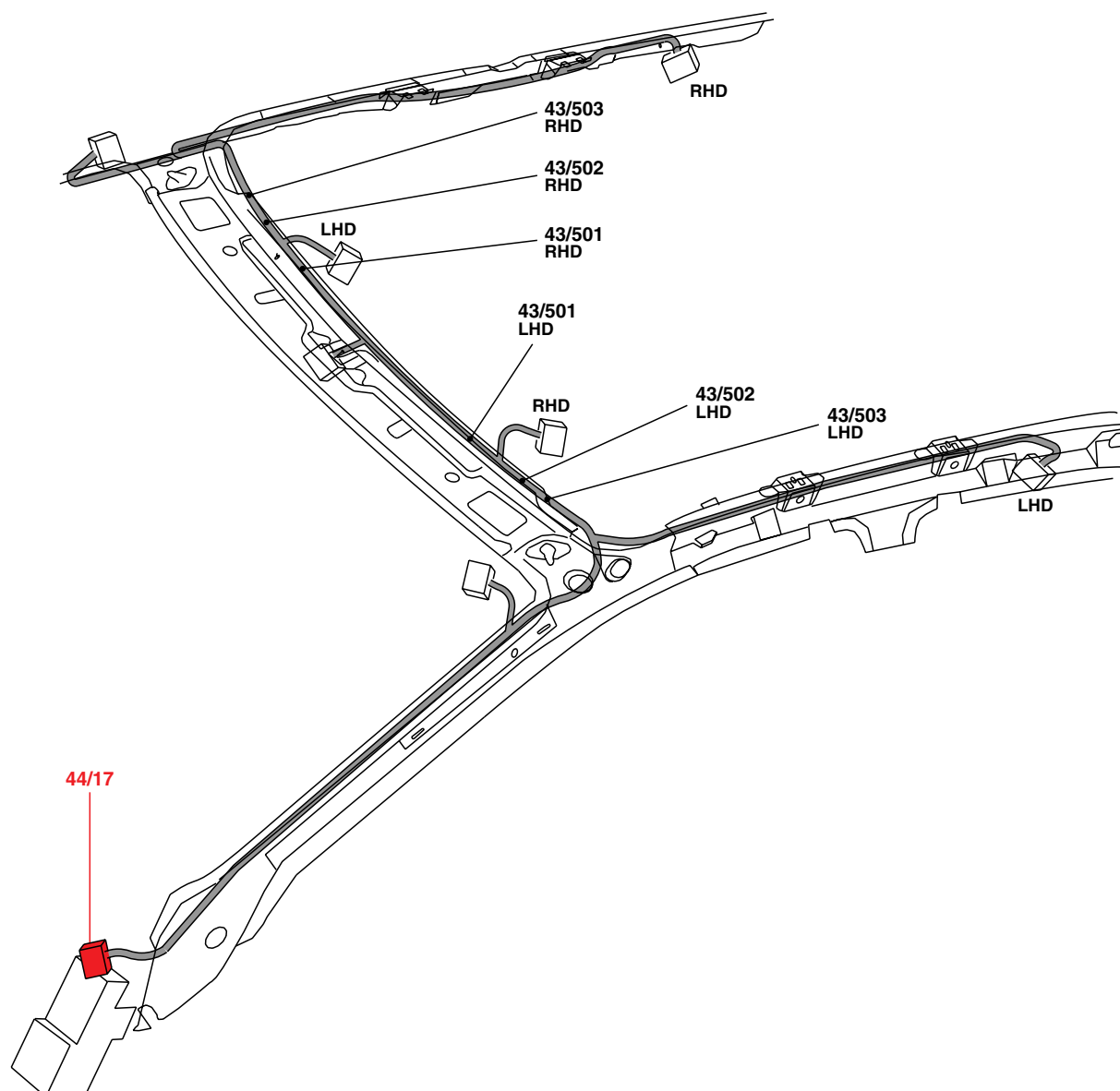
## Cargo compartment harness S40



# Tailgate harness V40 Rear harness V40



## Roof harness



## Cars with SRS (Airbag)/SIPS bag/IC (Inflatable curtain)

### **Warning!**

Vehicles equipped with SRS/SIPS bag/IC must be handled with extra care when making repairs. This avoids:

1. Personal injuries when performing repair work.
2. Damage or malfunction of the SRS/SIPS bag/IC system.

Work involving the SRS/SIPS bag/IC systems or other components in the vehicle that may affect the SRS/SIPS bag/IC systems must always be performed by an authorized Volvo work-shop.

In case of doubt, consult the SRS and SIPS bag/IC service manual.

### **Is the vehicle equipped with SRS/SIPS bag/IC ?**

Vehicles with SRS are most easily recognized by the letters SRS in the center of the steering wheel. If the vehicle also has a passenger side airbag, the letters SRS are stamped on the dashboard above the glove compartment. SRS vehicles from 1993 and onward also have explosive seatbelt tensioners. SIPS bags are only installed on SRS vehicles from 1995 and onward. SIPS bag decals are located on the windshield and seat compartment. Vehicles with IC can be recognized by the letters IC on the C/D panel (4 door) or the B panel (5 door).

### **General recommendations**

- Be especially careful when working on or around SRS, SIPS, and IC components.
- Make sure that no wires are pinched, frayed, or pierced.
- Never install accessories by the sensors.
- Where applicable, work on the steering wheel, steering shaft, or steering gear must be done in accordance with the methods in the SRS section of VADIS.
- Certain components of the aforementioned systems must be grounded while working. Read the appropriate sections in VADIS.
- Install no accessories in the areas between the A and B posts, the B and C posts, and the C and D posts.

### **Test terminal**

Data link connector in the passenger compartment.

### **Changes introduced up to June 2002**

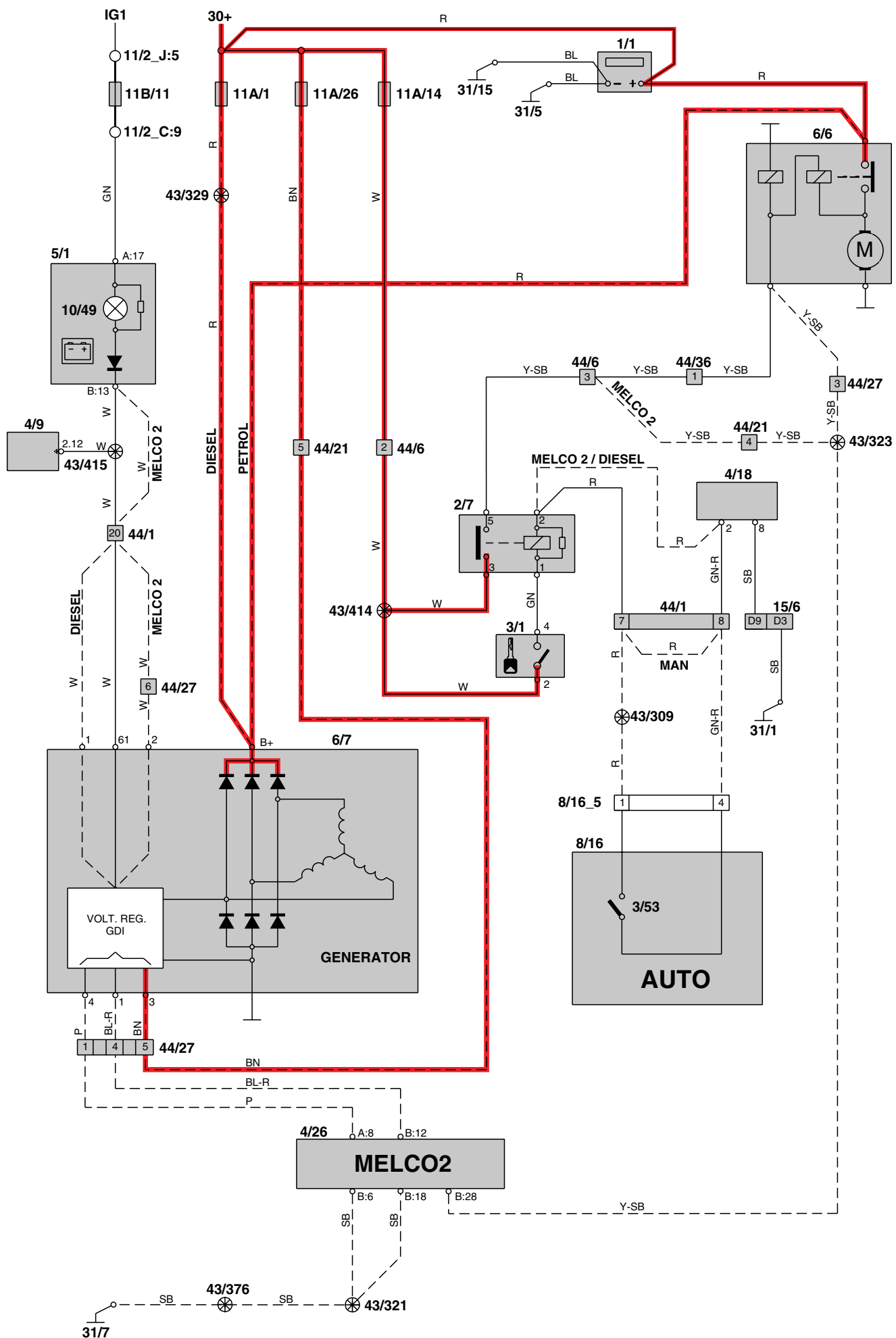
Any changes made to the vehicles after this date are not included in the manual. If necessary refer to service bulletins.

Volvo models are sold in versions adapted for different markets. These adaptations depend on factors such as legal requirements, taxation, and market demands.

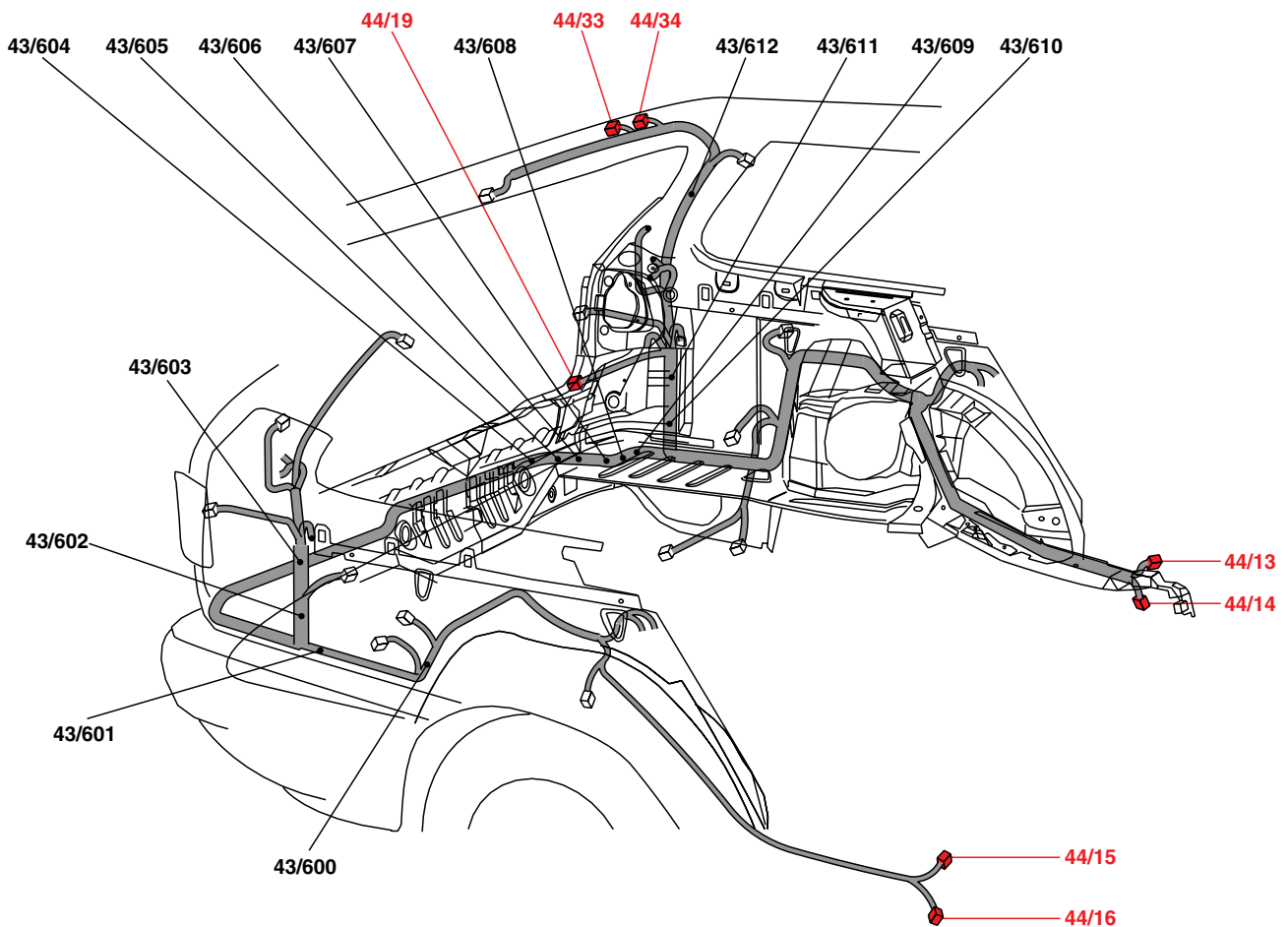
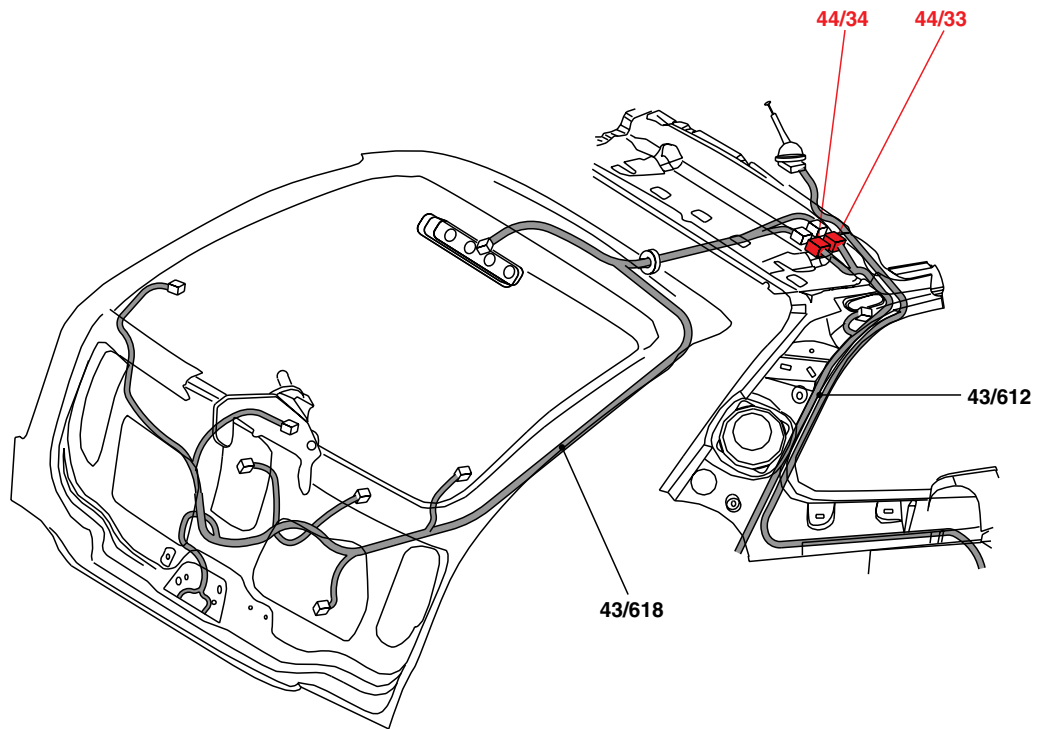
This manual may therefore include illustrations and text that do not apply to the vehicles in your country.

## Group 32, 33

### Charging circuit, Starting circuit



# Tailgate harness V40 Rear harness V40



# List of components

|      |                                                 |      |                                                           |
|------|-------------------------------------------------|------|-----------------------------------------------------------|
| 1/1  | Battery                                         | 3/28 | Passenger door contact                                    |
| 2/7  | Starter motor relay                             | 3/29 | Contact, rear left door                                   |
| 2/8  | Relay, passenger compartment fan                | 3/30 | Contact, rear right door                                  |
| 2/9  | Relay, heated rear window/door mirrors          | 3/31 | Switch, left-hand heated seat                             |
| 2/10 | Relay, AC compressor                            | 3/32 | Switch, right-hand heated seat                            |
| 2/11 | Relay, electric cooling fan, speed 1            | 3/33 | Control module, power windows/door mirrors, driver's door |
| 2/13 | Relay, AC condenser fan                         | 3/34 | Switch unit, passenger door power window                  |
| 2/14 | Engine management system main relay             | 3/35 | Switch unit, power window, rear left door                 |
| 2/18 | Relay, power windows                            | 3/36 | Switch unit, power window, rear right door                |
| 2/19 | Relay, passenger compartment fan max. speed     | 3/37 | Switch, central locking, passenger door                   |
| 2/21 | Relay, direction indicators                     | 3/43 | Switch, Dynamic Stability Assistance (DSA)                |
| 2/23 | Relay, shift lock                               | 3/44 | Automatic transmission program selector                   |
| 2/28 | Relay, electric cooling fan, speed 2            | 3/50 | Hood alarm contact                                        |
| 2/30 | Relay, fuel injection/ignition                  | 3/51 | Contact, brake lights/unlocking gear selector             |
| 2/31 | Fuel pump relay                                 | 3/53 | Shift lock contact                                        |
| 2/32 | Relay, fuel throttle body                       | 3/54 | Switch, driver's door lock                                |
| 2/34 | Relay, vacuum pump, automatic transmission      | 3/56 | Switch unit, power seats                                  |
| 2/35 | Horn relay                                      | 3/57 | Switch, retractable door mirrors                          |
| 2/36 | Relay, glow plug unit                           | 3/58 | Contact, key-inserted warning                             |
| 2/41 | Relay, cigarette lighter                        | 3/60 | Seat belt lock, driver's side                             |
| 2/50 | Relay, LPG                                      | 3/61 | Seat belt lock, passenger side                            |
| 2/51 | Relay, key-inserted warning                     | 3/62 | Kick-down contact                                         |
|      |                                                 | 3/63 | Switch, gas/gasoline drive                                |
| 3/1  | Ignition switch                                 |      |                                                           |
| 3/2  | Light switch                                    | 4/3  | Control module, Dynamic Stability Assistance (DSA)        |
| 3/3  | Switch, direction indicators/high and low beams | 4/4  | Control module, Supplemental Restraint System (SRS)       |
| 3/4  | Control, cruise control                         |      |                                                           |
| 3/5  | Hazard warning flasher switch                   | 4/5  | Control module, cruise control                            |
| 3/6  | Horn contact                                    | 4/6  | Control module, xenon lamps                               |
| 3/7  | Parking brake contact                           | 4/9  | Climate Control Module (CCM)                              |
| 3/8  | Switch, heated rear window                      | 4/11 | Control module, power sunroof                             |
| 3/9  | Switch unit, lights                             | 4/14 | Control module, passenger compartment fan speed control   |
| 3/10 | Reversing light contact                         |      |                                                           |
| 3/11 | Wiper switch, windshield/rear window            | 4/18 | Control module, electronic immobilizer                    |
| 3/12 | Switch, rear window washer/wiper                | 4/26 | Engine management system                                  |
| 3/13 | Power sunroof switch                            | 4/27 | Transmission Control Module TCM                           |
| 3/14 | Brake pedal contact, cruise control             | 4/28 | ABS control module                                        |
| 3/15 | Clutch pedal contact, cruise control            | 4/30 | Ignition coils                                            |
| 3/16 | Switch, front fog lights                        | 4/33 | Control module, fuel system Melco 2                       |
| 3/17 | Switch, rear fog light                          | 4/35 | Control module, key-inserted warning/seat belt reminder   |
| 3/18 | Dimmer                                          |      |                                                           |
| 3/19 | Control, beam adjustment                        | 4/38 | Central Electronic Module CEM                             |
| 3/20 | Switch, trip computer                           | 4/39 | Control module for locks and alarm, VGLA                  |
| 3/21 | Switch, windshield wiper                        | 4/40 | Receiver, VGLA                                            |
| 3/22 | Contact, lighting/alarm, cargo compartment      | 4/41 | Control module, ultrasonic glass breakage sensor          |
| 3/23 | Switch, reduced alarm                           | 4/50 | Control module, fuel throttle body                        |
| 3/24 | Switch, central locking, driver's door          | 4/51 | Fuel distributor, gas                                     |
| 3/25 | Switch, child safety lock                       | 4/75 | Control module LPG                                        |
| 3/27 | Driver's door contact                           |      |                                                           |

|      |                                                     |      |                                                       |
|------|-----------------------------------------------------|------|-------------------------------------------------------|
| 5/1  | Combined instrument panel                           | 7/3  | Sensor, outside temperature, trip computer            |
| 5/4  | Trip computer display                               | 7/6  | Engine temperature sensor                             |
|      |                                                     | 7/7  | Oil pressure sensor                                   |
| 6/1  | Windshield wiper motor                              | 7/8  | Sensor, LPG level                                     |
| 6/2  | Windshield washer pump                              | 7/9  | Brake fluid level sensor                              |
| 6/3  | Right-hand headlight wiper motor                    | 7/10 | Washer fluid level sensor                             |
| 6/4  | Left-hand headlight wiper motor                     | 7/12 | Driver's seat temperature sensor                      |
| 6/5  | Sunroof motor                                       | 7/13 | Passenger seat temperature sensor                     |
| 6/6  | Starter motor                                       | 7/14 | Catalytic converter temperature sensor                |
| 6/7  | Generator                                           | 7/15 | Heated oxygen sensor, front                           |
| 6/8  | Motor, passenger compartment fan                    | 7/17 | Speed sensor, front left wheel, ABS                   |
| 6/9  | Motor, electric cooling fan                         | 7/18 | Speed sensor, front right wheel, ABS                  |
| 6/10 | Washer pump, rear window                            | 7/19 | Speed sensor, rear left wheel, ABS                    |
| 6/11 | Rear window wiper motor                             | 7/20 | Speed sensor, rear right wheel, ABS                   |
| 6/12 | Vacuum pump, cruise control                         | 7/21 | Pulse transmitter, gasoline engine                    |
| 6/13 | Fuel pump                                           | 7/25 | Throttle position sensor                              |
| 6/14 | Power antenna                                       | 7/26 | Knock sensor                                          |
| 6/15 | Left-hand beam adjustment actuator                  | 7/27 | Camshaft position sensor                              |
| 6/16 | Right-hand beam adjustment actuator                 | 7/29 | Outside temperature sensor, AC                        |
| 6/17 | Motor, power window, driver's door                  | 7/30 | Coolant temperature sensor                            |
| 6/18 | Motor, power window, passenger door                 | 7/31 | Sensor, AC evaporator temperature                     |
| 6/19 | Motor, rear left power window                       | 7/38 | Antenna ring, electronic immobilizer                  |
| 6/20 | Motor, rear right power window                      | 7/40 | Vehicle inclination sensor                            |
| 6/21 | Power door mirror, driver's side                    | 7/47 | Heated oxygen sensor, rear                            |
| 6/22 | Power door mirror, passenger side                   | 7/49 | AC pressure sensor                                    |
| 6/23 | Temperature damper, climate control                 | 7/50 | Mass airflow sensor MAF                               |
| 6/24 | Damper motor, ventilation/floor/defroster           | 7/52 | Coolant temperature sensor                            |
| 6/25 | Damper motor, recirculation                         | 7/53 | Air temperature sensor                                |
| 6/26 | Motor, two-speed cooling fan                        | 7/54 | Glass breakage sensor                                 |
| 6/27 | AC condenser fan                                    | 7/55 | Ultrasonic sensor                                     |
| 6/28 | Central locking, driver's door                      | 7/56 | Crankshaft position sensor                            |
| 6/29 | Central locking, passenger door                     | 7/58 | Tank pressure sensor                                  |
| 6/30 | Central locking, rear driver's side door            | 7/60 | Sensor, air pressure/temperature/flow                 |
| 6/31 | Central locking, rear passenger side                | 7/61 | Sensor, automatic transmission oil temperature        |
| 6/32 | Central locking, trunk lid/tailgate                 | 7/63 | Sensor, brake vacuum                                  |
| 6/34 | Rear left child safety lock                         | 7/64 | IGF sensor                                            |
| 6/35 | Rear right child safety lock                        | 7/65 | Steering angle sensor                                 |
| 6/36 | Central locking with deadlock on driver's door      | 7/67 | Pressure monitor, vacuum pump, automatic transmission |
| 6/37 | Central locking with deadlock on passenger door     |      |                                                       |
| 6/38 | Central locking with deadlocks, rear driver's side  | 7/71 | Sensor, fuel temperature, injection pump              |
| 6/39 | Central locking with deadlocks, rear passenger side | 7/72 | Accelerator pedal sensor                              |
| 6/45 | Motor, backrest tilt, seats                         | 7/73 | Sensor, front left side airbag                        |
| 6/46 | Motor, seat cushion front up/down                   | 7/74 | Sensor, front right side airbag                       |
| 6/47 | Motor, seat cushion rear up/down                    | 7/75 | Sensor, rear left side airbag                         |
| 6/48 | Motor, seat forward-rearward                        | 7/76 | Sensor, rear right side airbag                        |
| 6/49 | Retractable driver's door mirror                    | 7/77 | Charge pressure sensor 2                              |
| 6/50 | Retractable passenger door mirror                   | 7/78 | Leakage Diagnostic Pump (LDP)                         |
| 6/51 | EGR stepper motor                                   | 7/79 | Charge pressure sensor 1                              |
| 6/54 | Vacuum pump, automatic transmission                 | 7/80 | Engine speed sensor                                   |
| 6/55 | Lock motor, fuel filler flap                        | 7/81 | Turbo pressure sensor                                 |
| 6/56 | Engine, fuel throttle body                          | 7/82 | Fuel line pressure sensor                             |
|      |                                                     | 7/84 | Pressure sensor, intake manifold                      |
| 7/2  | Fuel level sensor                                   | 7/85 | Heated oxygen sensor LPG                              |

|       |                                                     |       |                                                    |
|-------|-----------------------------------------------------|-------|----------------------------------------------------|
| 8/1   | Solenoid clutch, AC compressor                      | 10/13 | Front left fog light                               |
| 8/2   | Idling valve                                        | 10/14 | Front right fog light                              |
| 8/3   | Supplemental Restraint System (SRS), driver's unit  | 10/15 | Left-hand brake light                              |
| 8/4   | Supplemental Restraint System (SRS), passenger unit | 10/16 | Right-hand brake light                             |
| 8/5   | Fuel filter                                         | 10/17 | Auxiliary brake light                              |
| 8/6-9 | Injectors                                           | 10/18 | Left-hand reversing light                          |
| 8/10  | Seat belt tensioner, driver's side                  | 10/19 | Right-hand reversing light                         |
| 8/11  | Seat belt tensioner, passenger side                 | 10/20 | License plate lighting, left-hand                  |
| 8/13  | EGR valve                                           | 10/21 | License plate lighting, right-hand                 |
| 8/16  | Automatic transmission                              | 10/22 | RL direction indicator                             |
| 8/23  | Turbocharger control valve                          | 10/23 | RR direction indicator                             |
| 8/24  | EVAP valve                                          | 10/24 | Rear left parking light                            |
| 8/25  | Power driver's seat                                 | 10/25 | Rear right parking light                           |
| 8/26  | Power passenger seat                                | 10/26 | Left-hand tail light                               |
| 8/32  | CVVT valve                                          | 10/27 | Right-hand tail light                              |
| 8/33  | Side airbag, driver's side                          | 10/28 | Rear left side marker light                        |
| 8/34  | Side airbag, passenger side                         | 10/29 | Rear right side marker light                       |
| 8/35  | Alarm siren                                         | 10/30 | Rear fog light                                     |
| 8/36  | Engine stopping damper valve                        | 10/31 | Ceiling light for HL with reading lights           |
| 8/38  | Fuel line pressure regulator                        | 10/32 | Ceiling light for LL                               |
| 8/39  | Inflatable curtain, left-hand side                  | 10/33 | Reading lights, rear                               |
| 8/40  | Inflatable curtain, right-hand side                 | 10/34 | Lamp housing, trunk lid/tailgate                   |
| 8/41  | Fuel cut-off valve DFCO                             | 10/35 | Courtesy lighting                                  |
| 8/42  | Cut-off valve, engine                               | 10/36 | Lighting, vanity mirror, passenger side            |
| 8/43  | Cut-off valve, tank                                 | 10/37 | Glove compartment lighting                         |
|       |                                                     | 10/38 | Cargo compartment lighting                         |
| 9/1   | Cigarette lighter                                   | 10/41 | Lighting, cigarette lighter                        |
| 9/2   | Heated rear window                                  | 10/42 | Lighting, gear selector, automatic transmission    |
| 9/3   | Left-hand seat heating element                      | 10/43 | Lighting, automatic transmission program selector  |
| 9/4   | Left-hand seat backrest heating element             | 10/44 | Lighting, heater controls                          |
| 9/5   | Right-hand seat heating element                     | 10/45 | Lighting, switch unit, lights                      |
| 9/6   | Right-hand seat backrest heating element            | 10/47 | Lighting, vanity mirror, driver's side             |
| 9/7   | Heated door mirror, driver's door                   | 10/48 | Warning light, oil pressure                        |
| 9/8   | Heated door mirror, passenger door                  | 10/49 | Warning light, generator charging current          |
| 9/9   | Glow plug                                           | 10/50 | Warning light, brake fluid level                   |
| 9/10  | Fuel preheater                                      | 10/51 | Warning light, exhaust gases                       |
| 9/12  | Crankcase breather                                  | 10/52 | Warning light, parking brake                       |
|       |                                                     | 10/53 | Reserve light (not used)                           |
| 10/1  | FL direction indicator                              | 10/54 | Warning light, anti-lock brakes (ABS)              |
| 10/2  | FR direction indicator                              | 10/55 | Warning light, Supplemental Restraint System (SRS) |
| 10/3  | Direction indicator, FL fender                      | 10/56 | Warning light, automatic transmission (TCM)        |
| 10/4  | Direction indicator FR fender                       | 10/57 | Warning light, Dynamic Stability Assistance (DSA)  |
| 10/5  | Front left parking light                            | 10/58 | Warning light, fuel level                          |
| 10/6  | Front right parking light                           | 10/59 | Warning light, coolant temperature                 |
| 10/7  | Left-hand low beam                                  | 10/60 | Indicator light, hazard warning flashers           |
| 10/8  | Right-hand low beam                                 | 10/61 | Indicator light, electronic immobilizer            |
| 10/9  | Left-hand high beam                                 | 10/62 | Indicator light, high beam                         |
| 10/10 | Right-hand high beam                                | 10/63 | Indicator light, door open                         |
| 10/11 | Front left side marker light                        | 10/64 | Rear left lamp housing                             |
| 10/12 | Front right side marker light                       | 10/65 | Rear right lamp housing                            |

|          |                                                              |        |                                        |
|----------|--------------------------------------------------------------|--------|----------------------------------------|
| 10/66    | Bulb failure sensor indicator light                          | 16/2   | Speaker, FL door 25/50W                |
| 10/67    | Indicator light, left-hand direction indicator               | 16/3   | Speaker, FR door 25/50W                |
| 10/68    | Indicator light, right-hand direction indicator              | 16/4   | Left-hand speaker, dashboard           |
| 10/69    | Indicator light, seat belt reminder                          | 16/5   | Right-hand speaker, dashboard          |
| 10/70    | Trailer indicator light                                      | 16/6   | Left-hand rear shelf/D-pillar speaker  |
| 10/71    | Indicator light, preheater                                   | 16/7   | Right-hand rear shelf/D-pillar speaker |
| 10/72    | Indicator light, washer fluid                                | 16/9   | Horn 1                                 |
| 10/73    | Indicator light, front fog lights                            | 16/10  | Antenna amplifier                      |
| 10/74    | Indicator light, rear fog lights                             | 16/16  | Horn 2                                 |
| 10/75    | Instrument lighting                                          | 16/18  | Bass speaker passive/active            |
| 10/79    | Indicator light, service reminder                            | 16/20  | Audio amplifier                        |
| 10/80    | Alarm indication, solar sensor/electronic immobilizer        | 16/63  | GPS antenna                            |
| 10/81    | Indicator light, cruise control                              |        |                                        |
| 10/82    | Lamp housing, parking light/direction indicator, front left  | 17/1   | Data link connector                    |
| 10/83    | Lamp housing, parking light/direction indicator, front right | 18/4   | Contact reel                           |
| 10/84    | Left-hand headlight                                          | 19/1   | Fuel gauge                             |
| 10/85    | Right-hand headlight                                         | 19/2   | Temperature gauge                      |
| 10/86    | Left-hand headlight, Xenon                                   | 19/3   | Tachometer                             |
| 10/87    | Right-hand headlight, Xenon                                  | 19/4   | Speedometer                            |
| 11/1     | Fuse box in engine compartment                               | 20/16  | Capacitor                              |
| 11/2     | Fuse box in passenger compartment                            |        |                                        |
| 11/2:A-J | Terminal block                                               | 31/no. | Ground connection                      |
| 11A/no.  | Fuses in the engine compartment                              |        |                                        |
| 11B/no.  | Fuses in the passenger compartment                           | 43/no. | Junction point                         |
| 15/no.   | Distribution rail                                            | 44/no. | Connector                              |
| 16/1     | Radio                                                        |        |                                        |