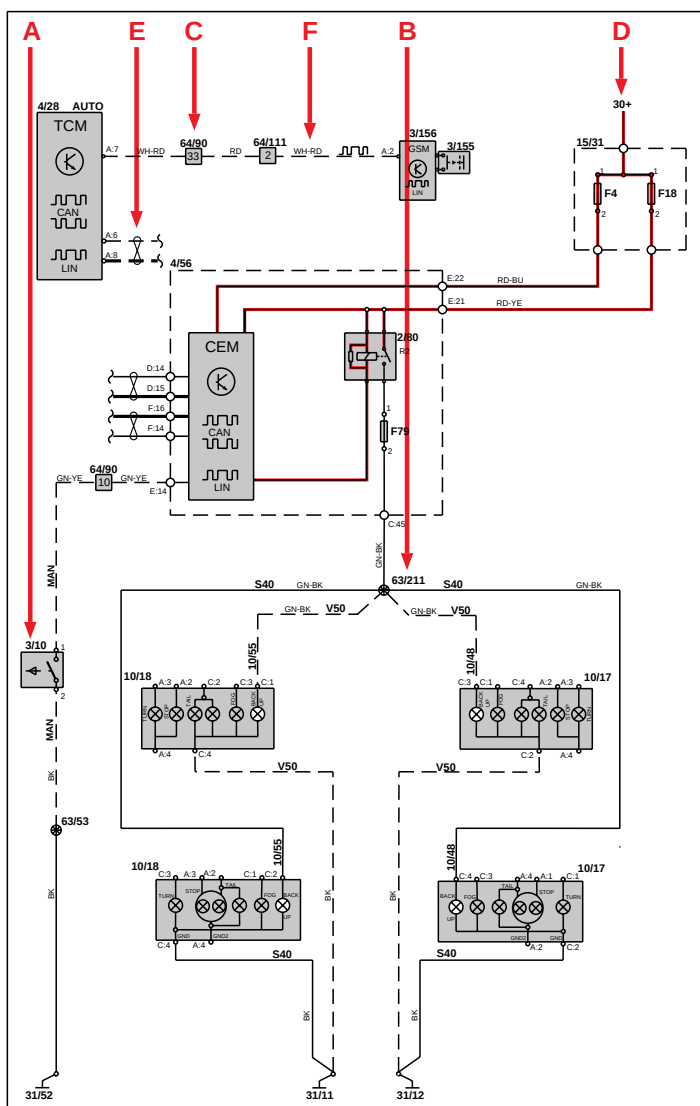
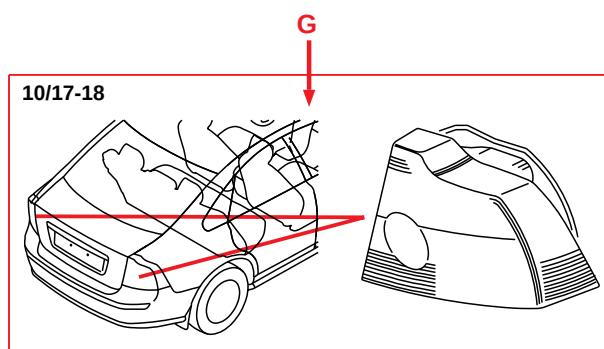


How to use the wiring diagrams 2:2

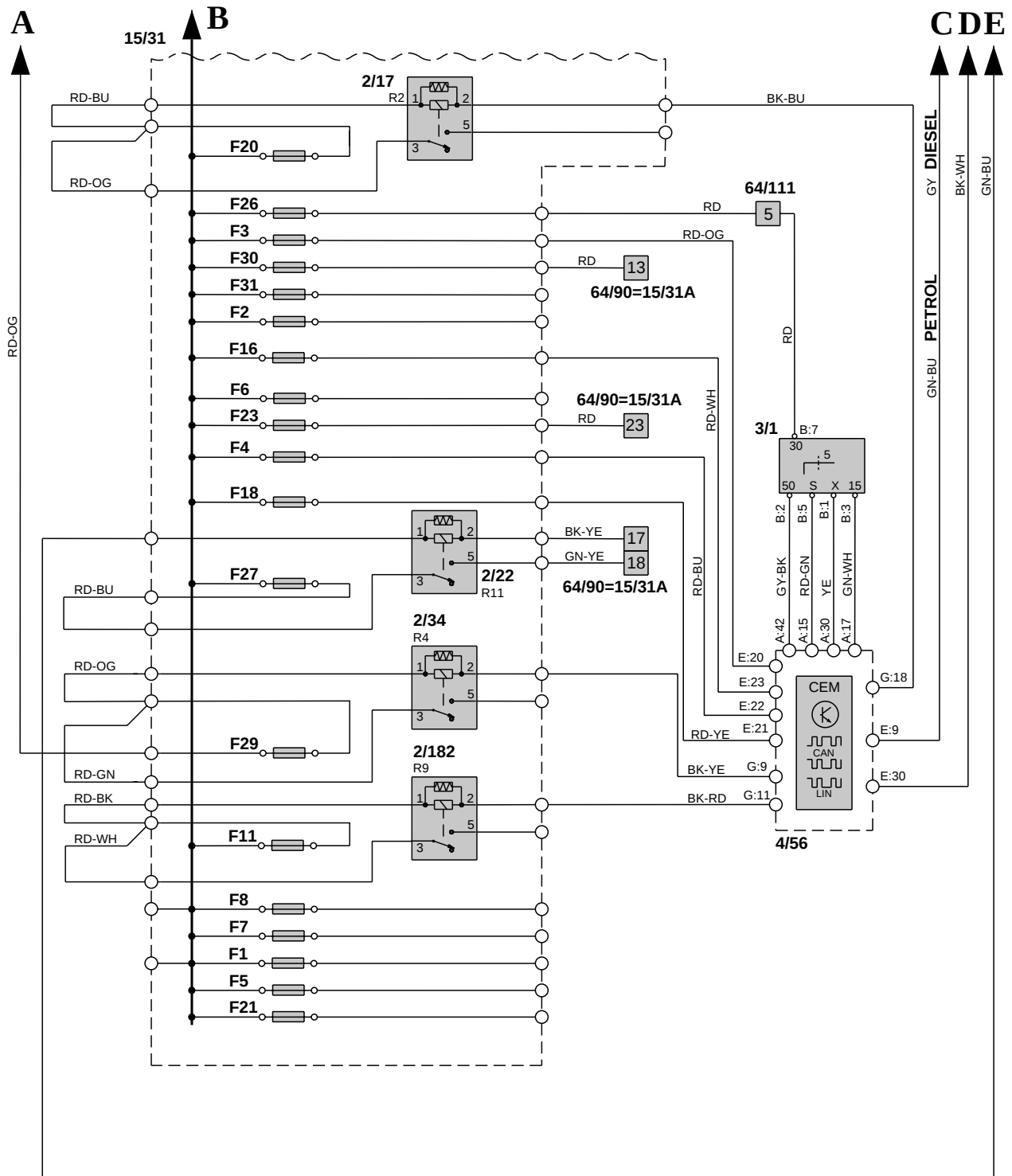


List of symbols

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

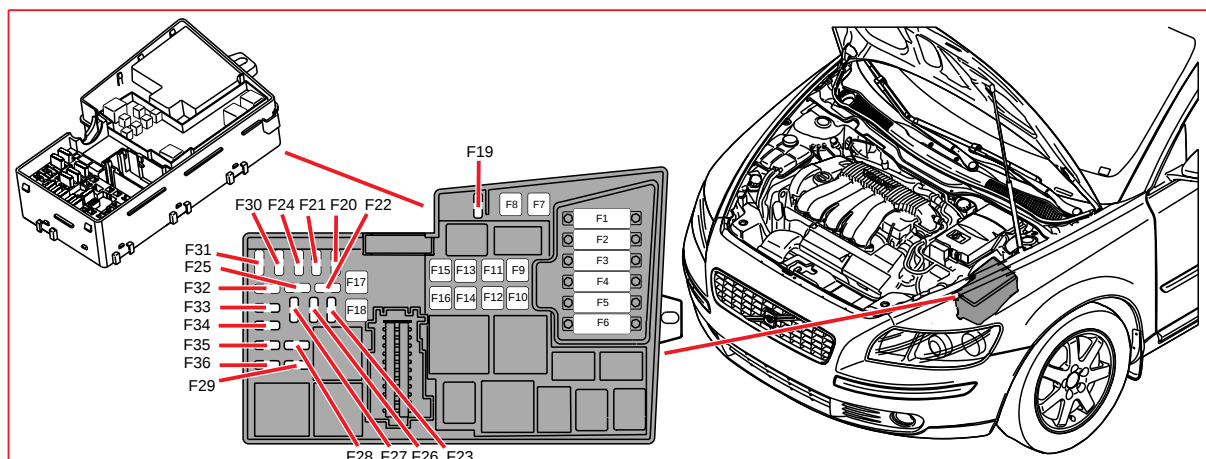


Electrical distribution 2:2 Overview



Fuses

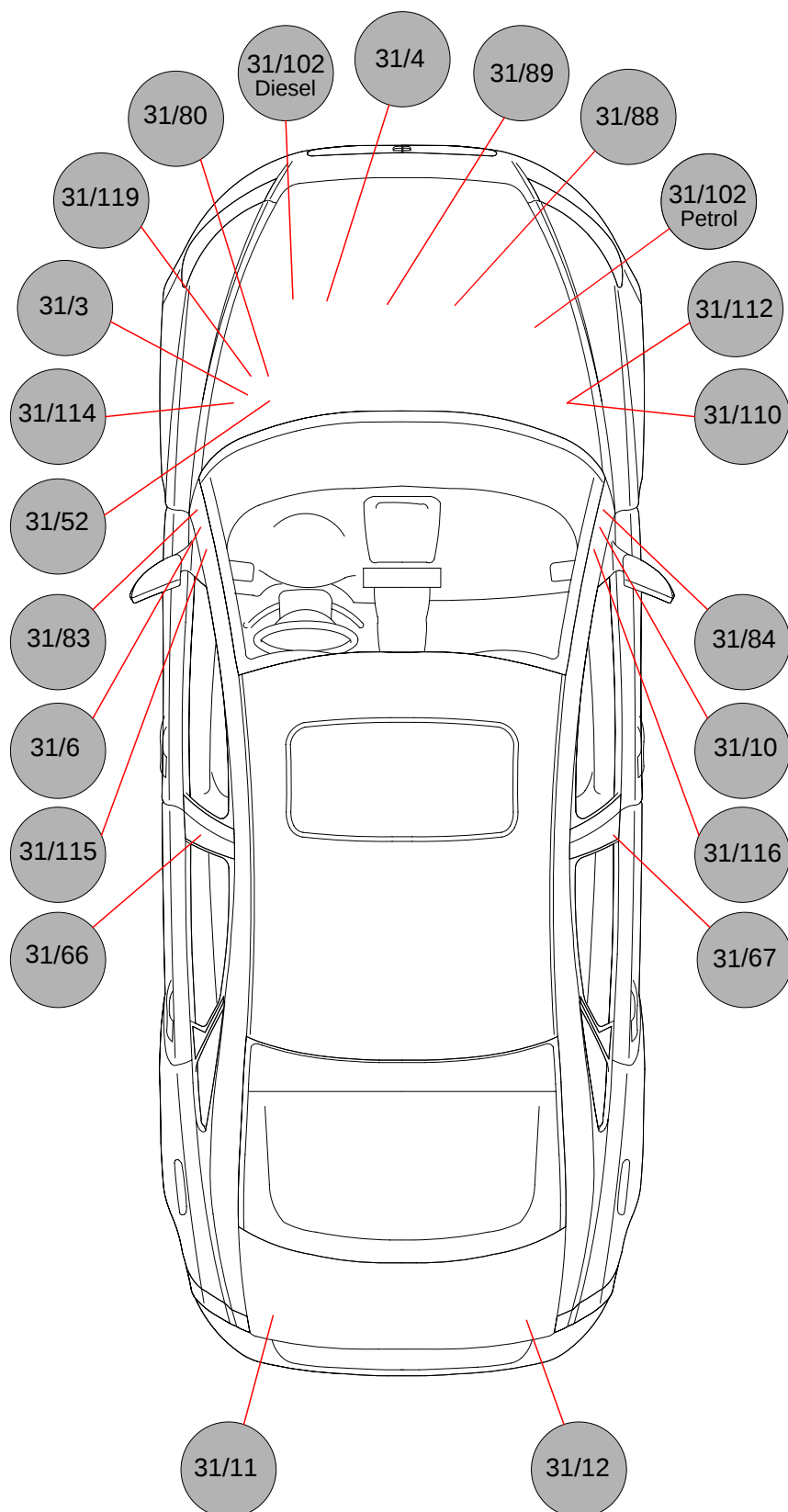
Engine compartment distribution box F33-FH1



15/31 Engine compartment distribution box

No.	Fuse function	via	A
F33	2/142 Relay, pre-heater, fuel filter, Diesel	-	20
	6/114 Vacuum pump	8/84	
	7/15 Heated oxygen sensor, front	-	
	7/82 Heated oxygen sensor, rear	-	
F34	4/46 Engine Control Module (ECM)	8/119	10
	8/77 Control valve, fuel volume, Diesel	-	
	8/133 Control valve, fuel pressure, Diesel	-	
	20/3 -20/7 Spark plug and ignition coil	-	
F35	2/22 Relay, climate control system	-	10 E.E 15 L.E
	6/67 Pump, fuel leakage control	-	
	7/17 Mass airflow sensor (MAF)	-	
	8/18 EVAP valve	-	
	8/19 Solenoid, variable valve timing, intake	-	
	8/28 Turbocharger control valve	-	
	8/81 Solenoid, variable valve timing outlet	-	
	8/68 Bypass valve, Diesel	-	
	8/82 Solenoid, variable turbo geometry, Diesel	-	
	8/131 Cut-off valve, expansion tank, Diesel	-	
	8/132 Control valve, intake, Diesel	-	
	9/32 PTC resistor, oil trap	-	
F36	4/46 Engine Control Module (ECM)	-	10
	7/51 Accelerator pedal sensor	-	
FH1	10/65 Auxiliary light, front right	2/64	20
	10/69 Auxiliary light, front left		

Ground connections Overview



Ground connections

31/3 - 31/10

31/3	Left MacPherson strut tower
1/1	Battery

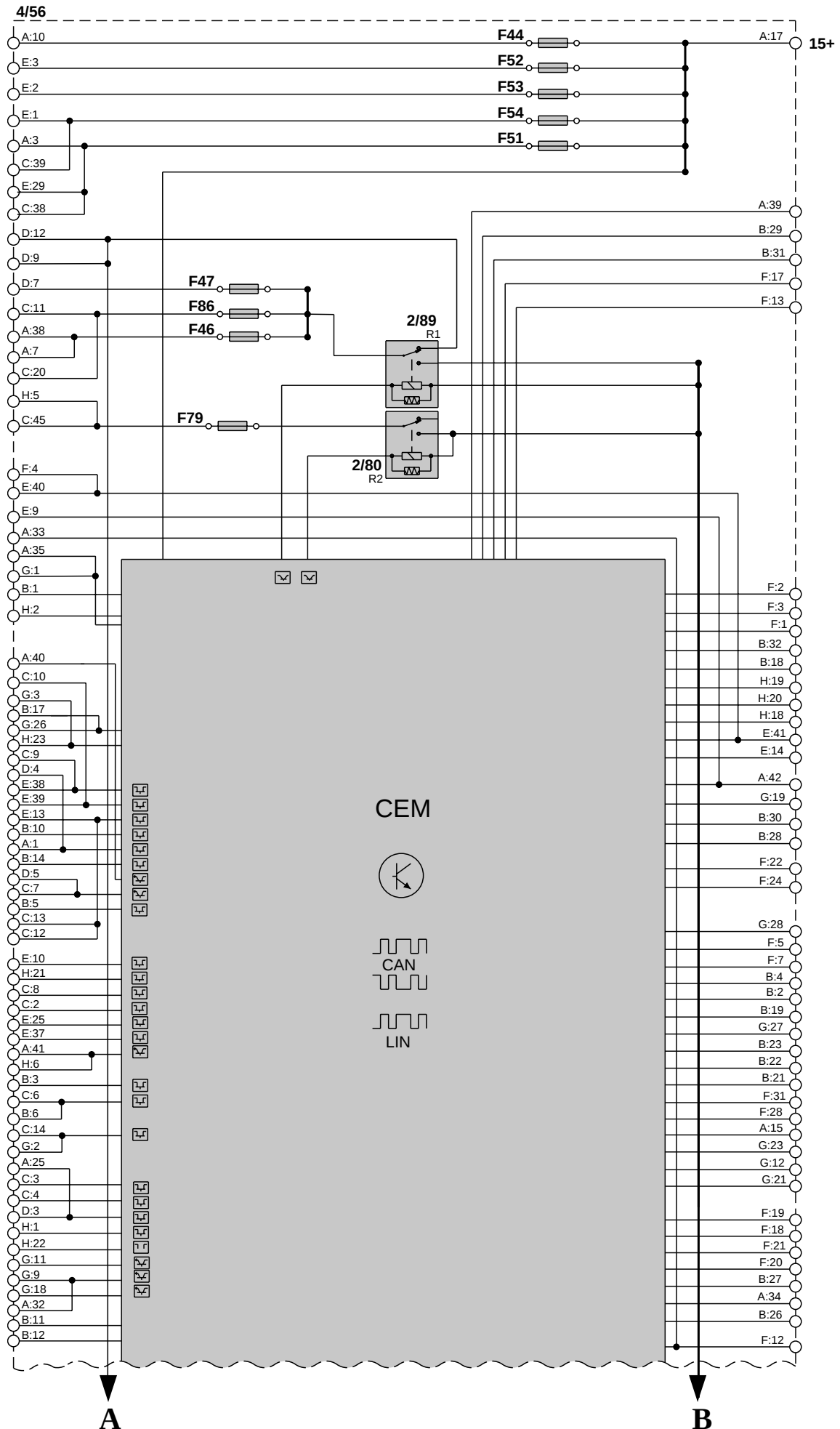
31/4	Engine
1/1	Battery

31/6	A-post, driver's side
3/111	Switch unit, lights
4/102	Steering Column Lock Module (SCL)
6/28	Motor, passenger compartment fan
10/1	Lamp housing, front left
10/2	Lamp housing, front right
17/13	Data link connector

31/10	A-post, passenger side
2/16	Relay, rear window wiper
2/92	Relay, windshield washer motor
2/93	Relay, rear window washer motor
2/193	Relay, comfort functions
3/95	Spin control switch
3/112	Climate Control Module (CCM)
3/117	Switch unit, ceiling light
3/156	Gear Selector Module (GSM)
3/173	Switch, trunk lid/tailgate private lock
4/33	Sunroof control module
4/56	Central Electronic Module (CEM)
6/2	Washer pump
6/48	Damper motor, recirculation
6/95	Damper motor, temperature, left-hand side
6/96	Damper motor, temperature, right-hand side
6/102	Damper motor, defroster
6/103	Damper motor, floor/ventilation
6/117	Interior temperature sensor
7/159	Air quality sensor
8/48	Auto-dimming rearview mirror
8/134	Solenoid, reverse interlock, manual
9/1	Front 12V outlet
9/25	Rear 12V outlet
10/29	Glove compartment lighting
10/114	Vanity mirror lighting, left
10/115	Vanity mirror lighting, right
10/150	Rear reading light

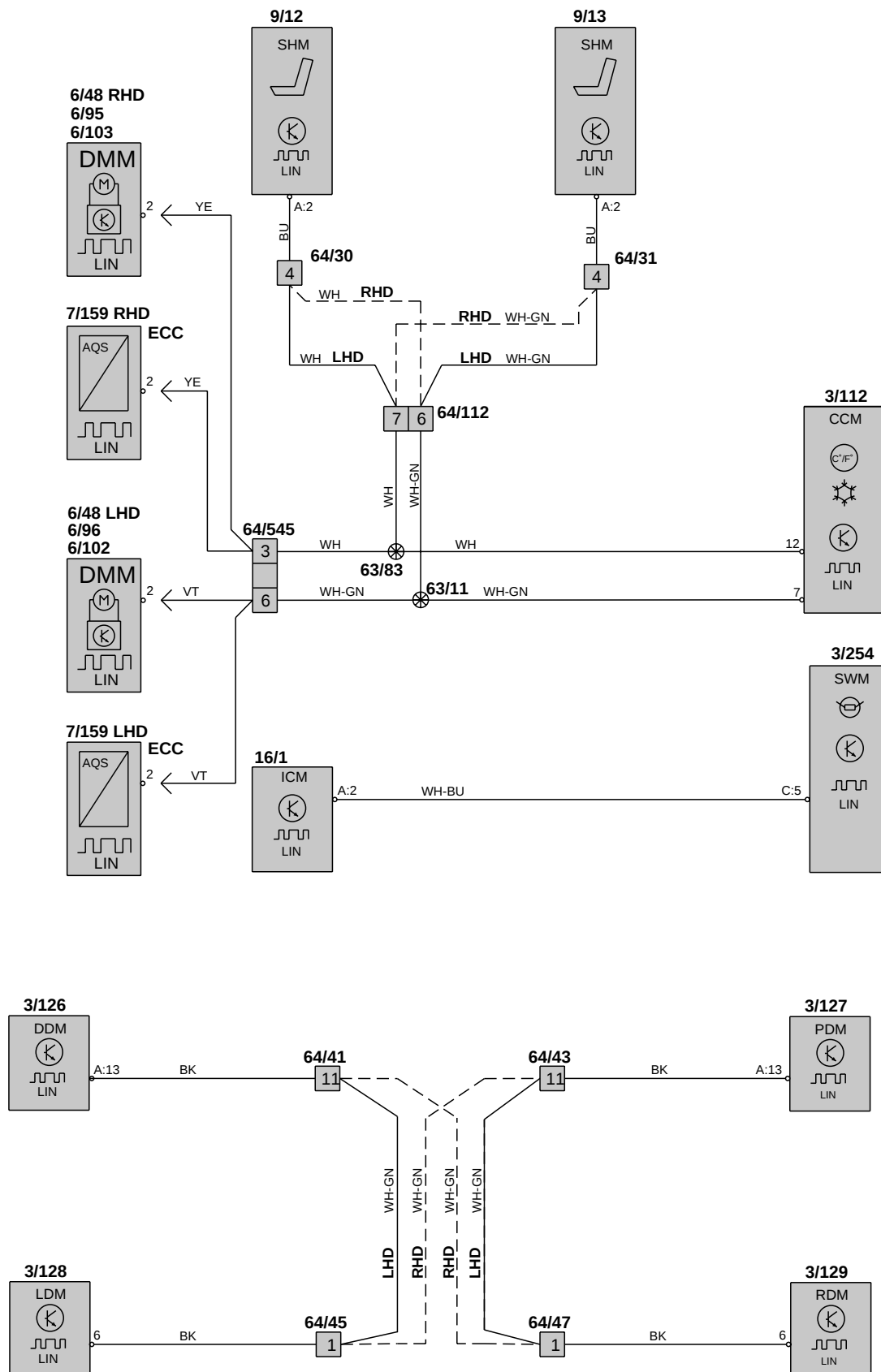
Control modules

Central Electronic Module (CEM) 1:2



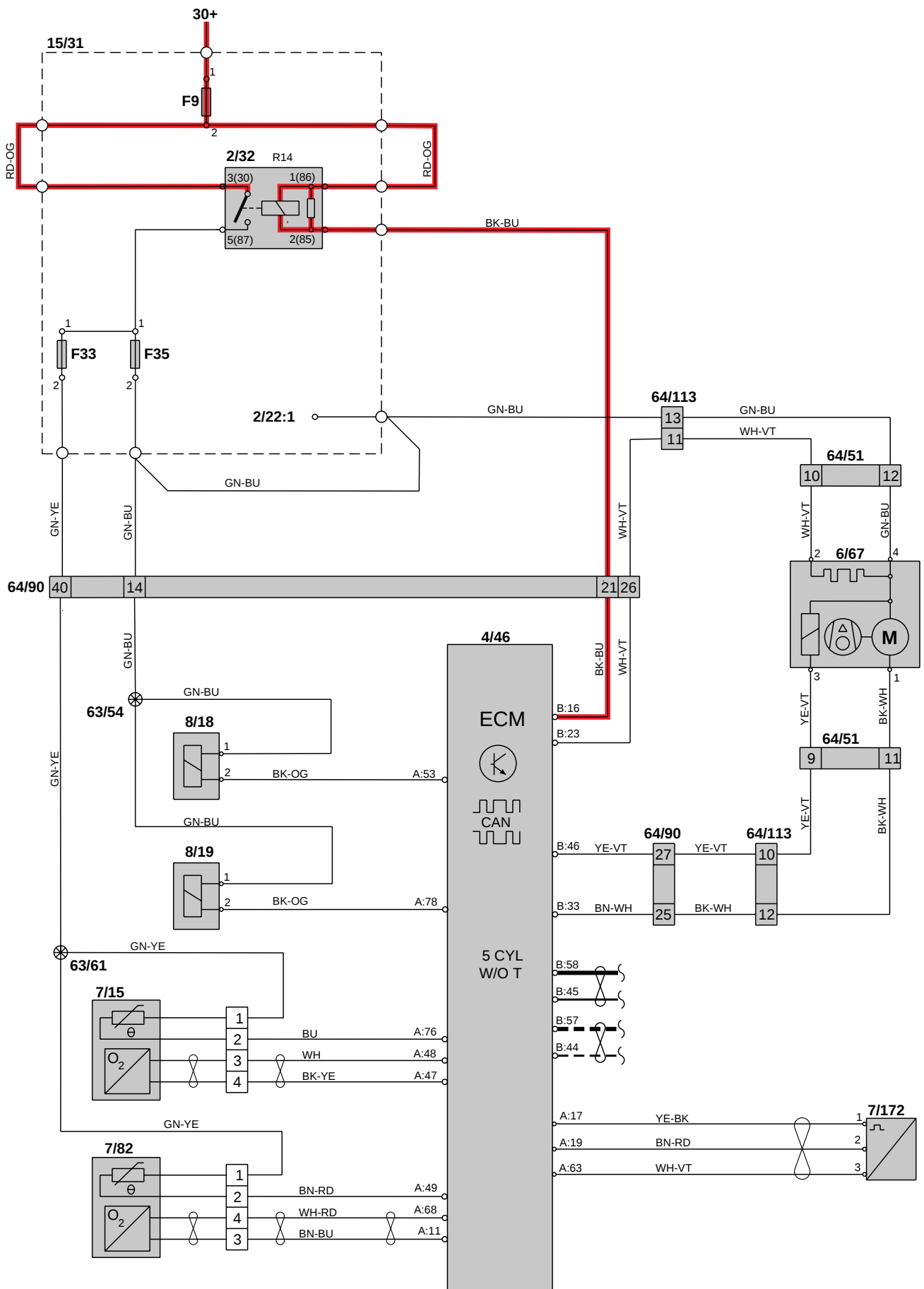
Control modules

LIN data communication 2:2

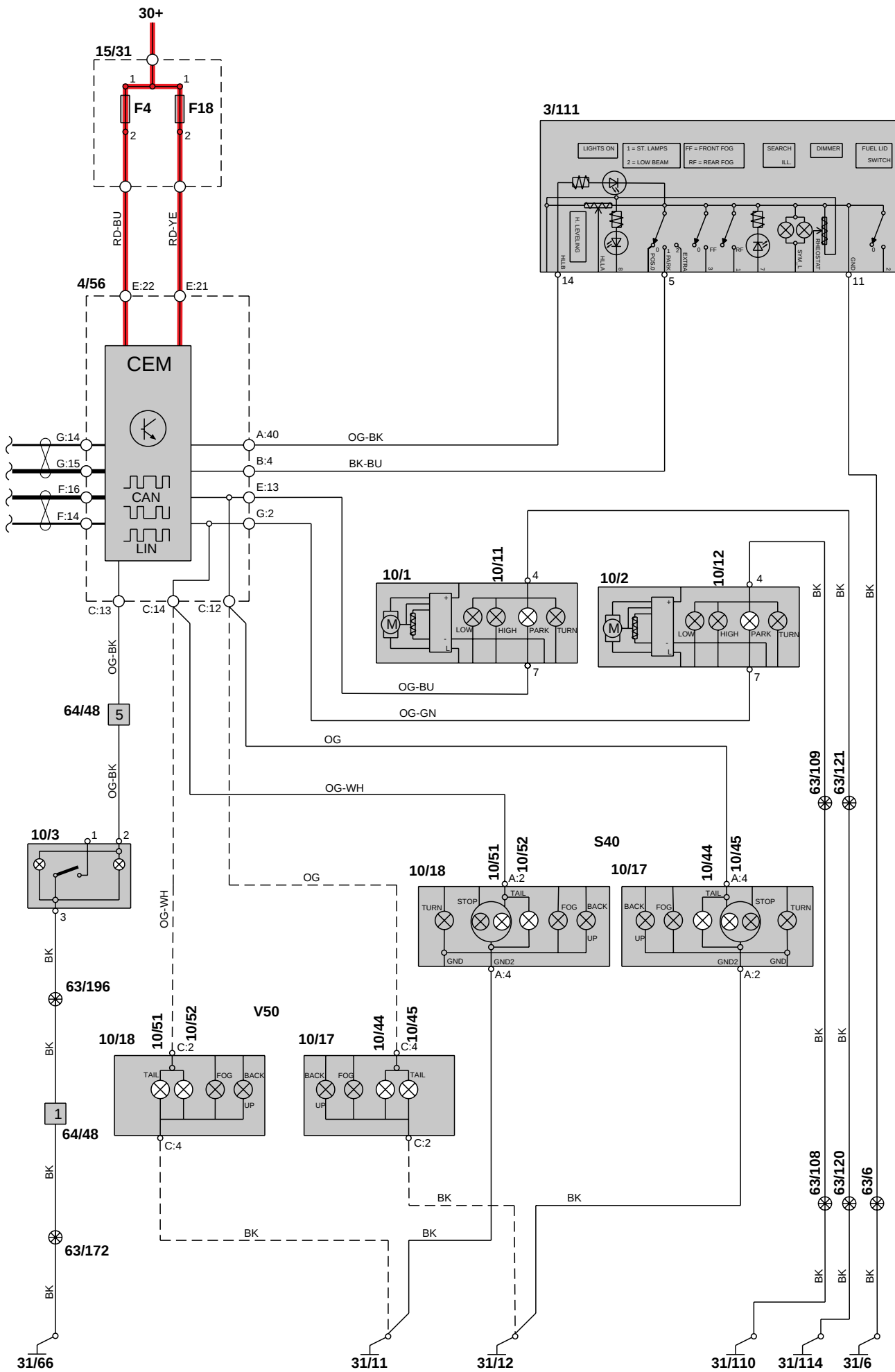


Group 23 Fuel system

Emission control, 5-cyl

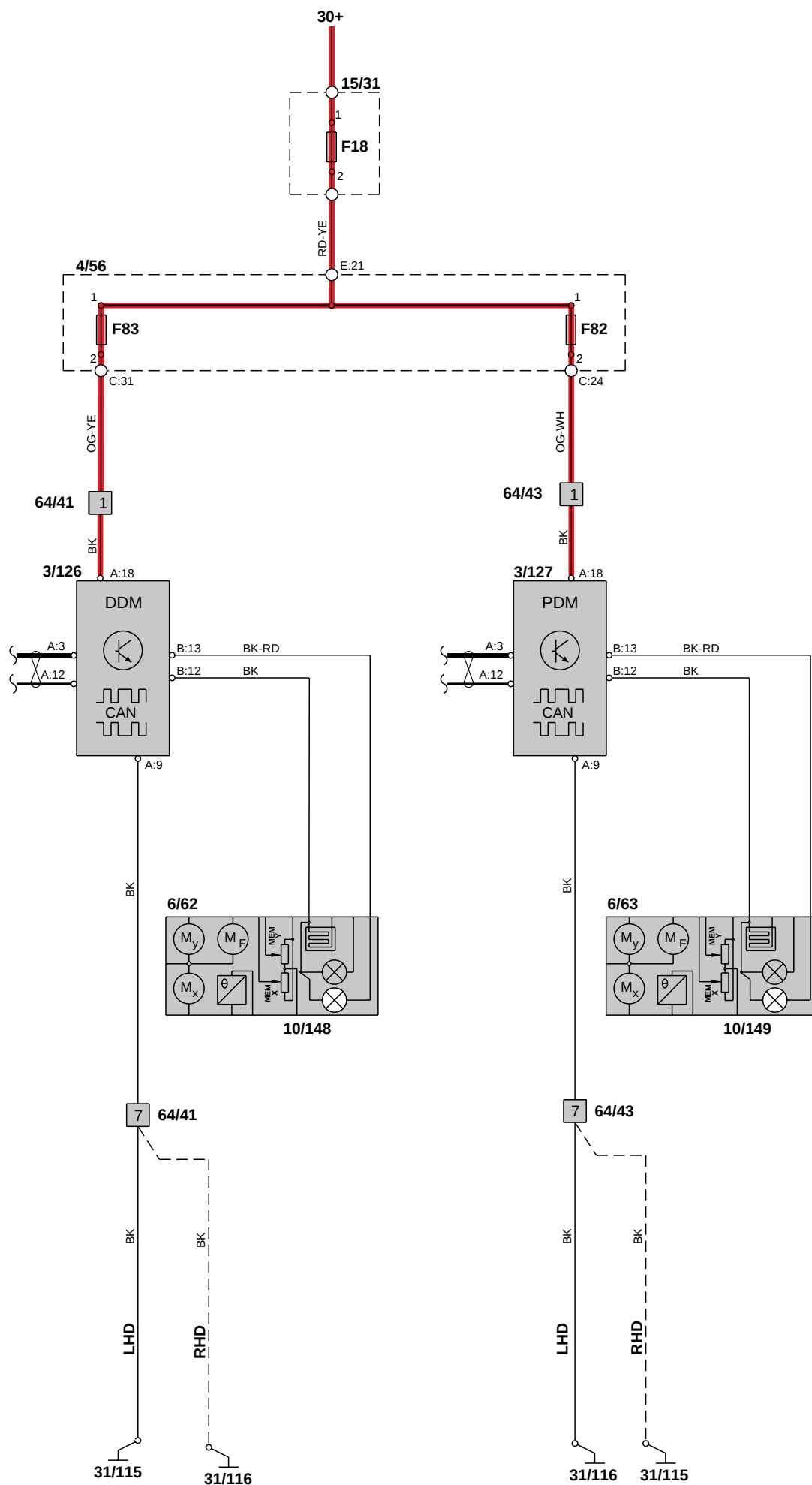


Position/parking lights, Tail lights

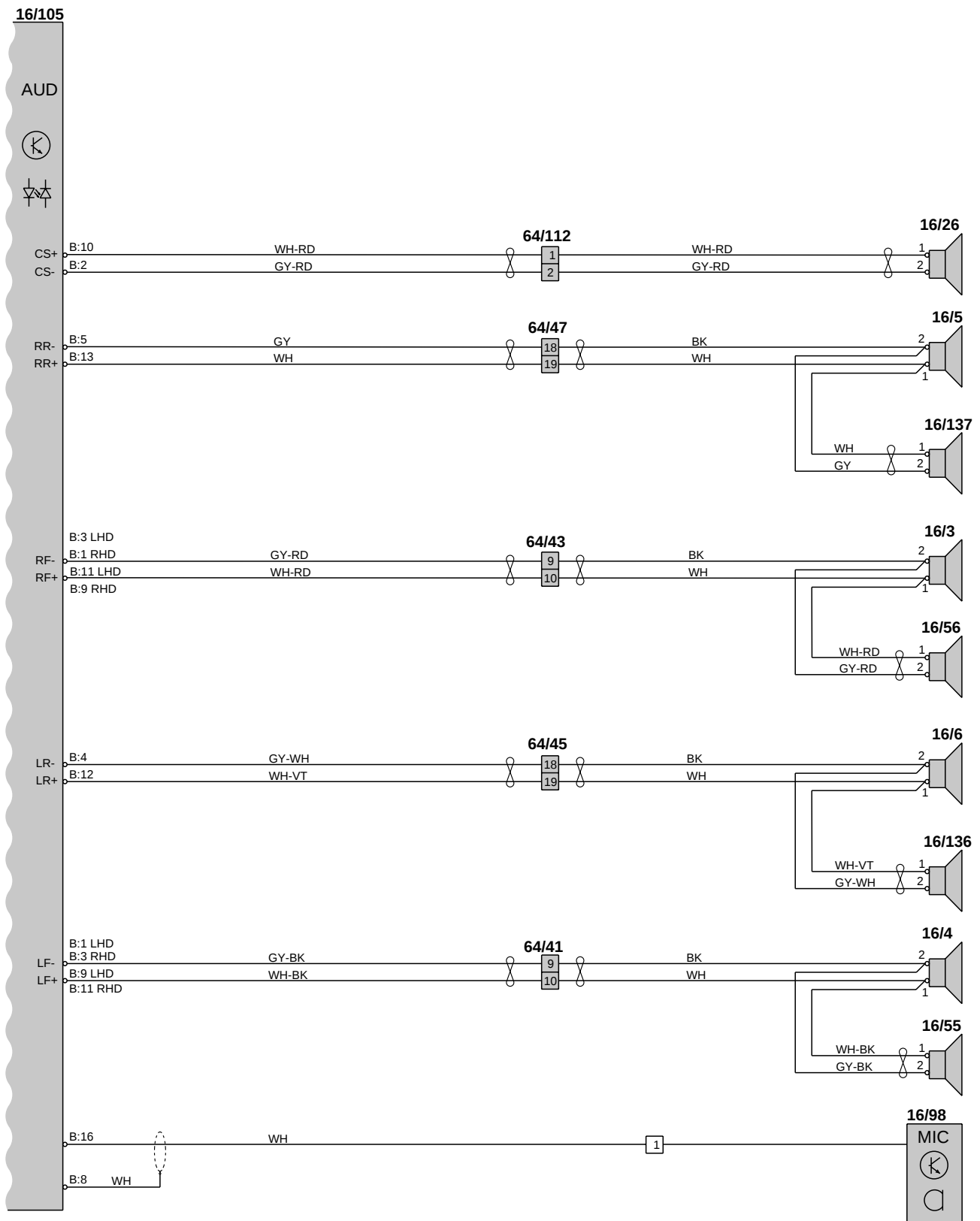


Group 35 Lighting

Follow-me-home lighting

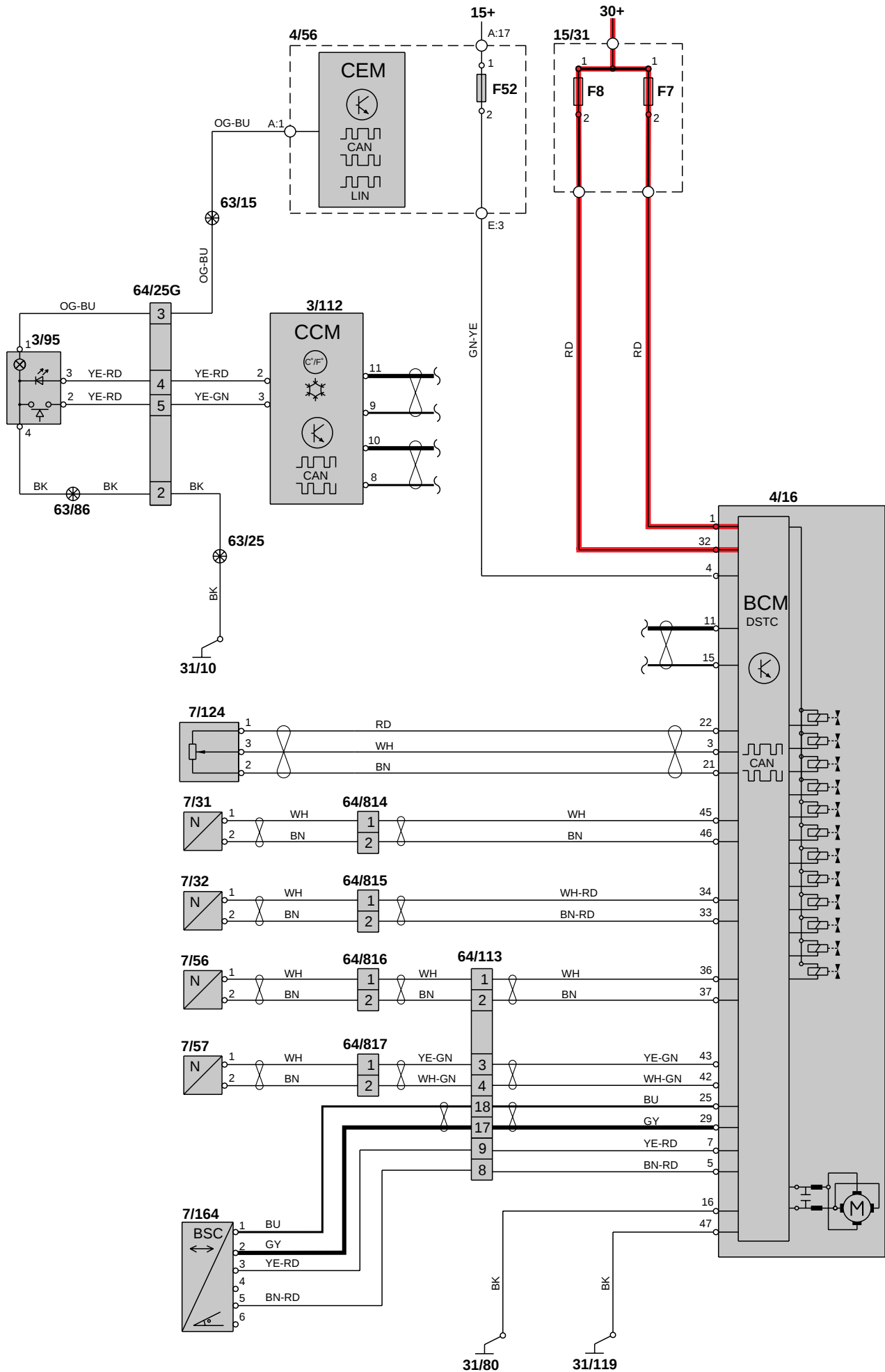


Group 39 Other Audio 2:2



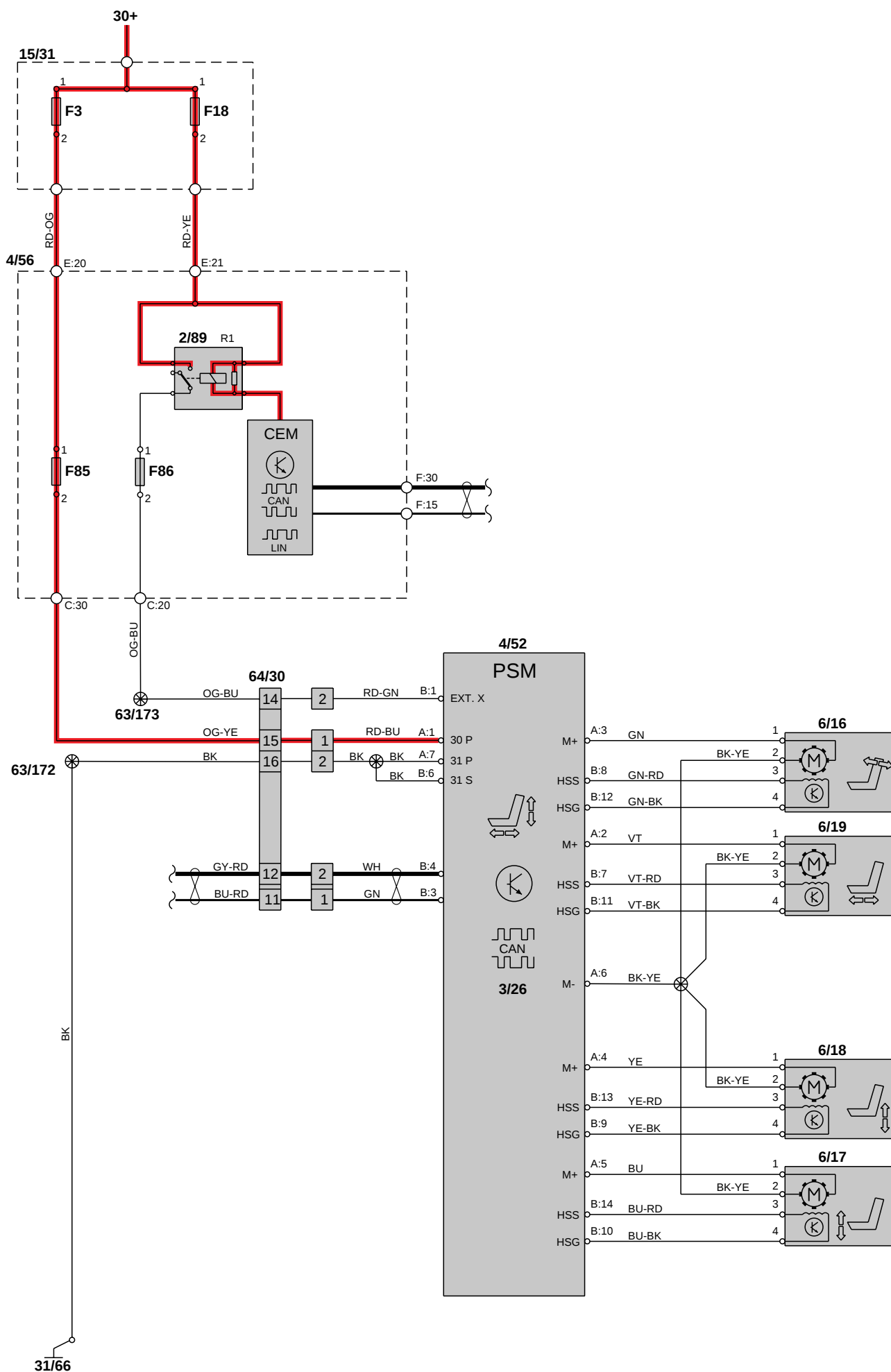
Group 59 Brake system

Brake control system & DSTC



Group 85 Interior equipment

Power driver's seat with memory function, left



Connectors

64/425 - 64/545:1-3

64/425

6-pin yellow

No.	Dashboard harness			SRS harness, Passenger side		
1	4/9B:1	Supplemental Restraint System Module (SRS)	OG	8/31:1	Airbag igniter, passenger side	OG
2	4/9B:2	Supplemental Restraint System Module (SRS)	BK-WH	8/31:2	Airbag igniter, passenger side	BK-WH
3	-		-	-		-
4	63/12	Junction point	BK-GN	8/31 8/32	Airbag igniter, passenger side Igniter, airbag stage 2, passenger side	BK-GN
5	4/9B:11	Supplemental Restraint System Module (SRS)	OG	8/32:1	Igniter, airbag stage 2, passenger side	OG
6	4/9B:10	Supplemental Restraint System Module (SRS)	BK-YE	8/32:2	Igniter, airbag stage 2, passenger side	BK-YE

64/545

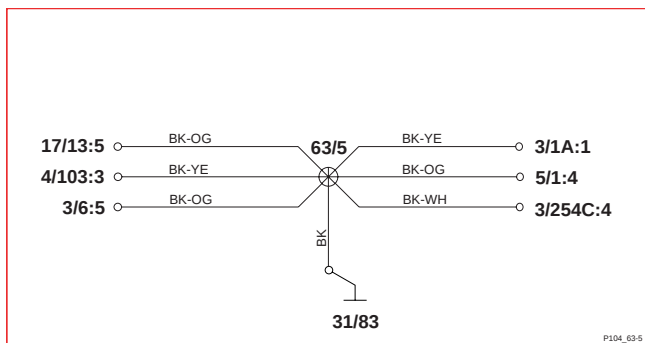
6-pin light gray

No.	Dashboard harness			Climate control system harness		
1	4/56A:44	Central Electronic Module (CEM)	YE	6/95:1 6/103:1 6/96:1 6/48:1 6/102:1 7/159:1	Damper Motor Module (DMM), left-hand side§ Damper Motor Module (DMM), floor/ventilation Damper Motor Module (DMM), right-hand side Damper Motor Module (DMM), recirculation Damper Motor Module (DMM), defroster Air Quality Sensor (AQS)	RD
2	3/112:5	Climate Control Module (CCM)	YE-GN	7/41:1	Evaporator temperature sensor	BU-YE
3	63/83	Junction point	WH	6/95:2 6/103:2 6/95:2 6/48:2 6/103:2 7/159:2	Damper Motor Module (DMM), left-hand side Damper Motor Module (DMM), floor/ventilation Damper Motor Module (DMM), left-hand side Damper Motor Module (DMM), recirculation, RHD Damper Motor Module (DMM), floor/ventilation, RHD Air Quality Sensor (AQS), RHD	YE

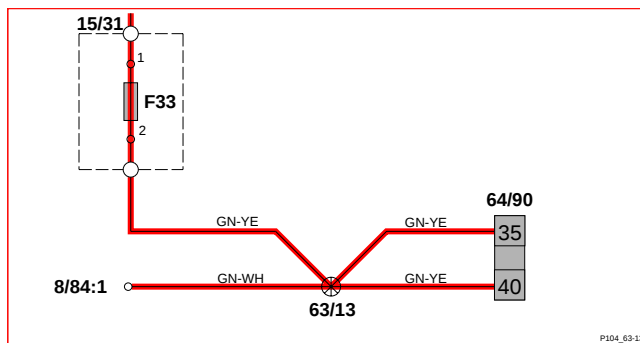
Junction points

63/5 - 63/25G

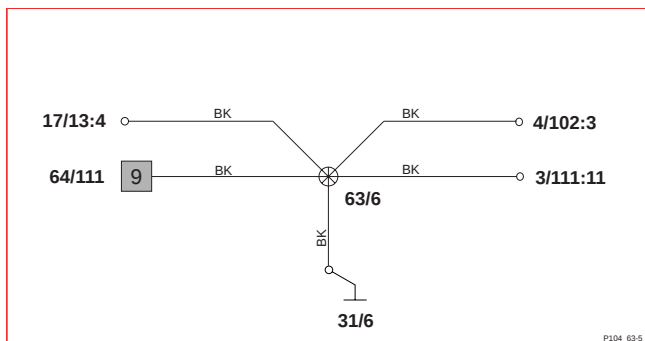
63/5



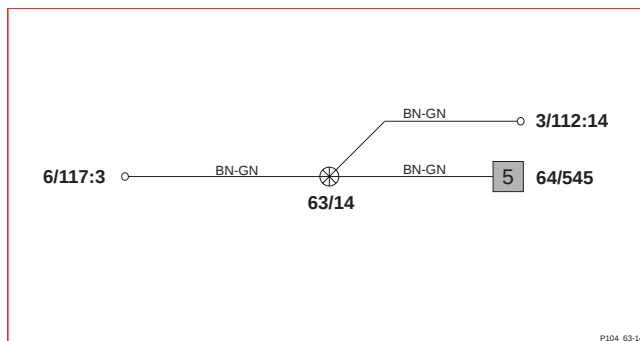
63/13



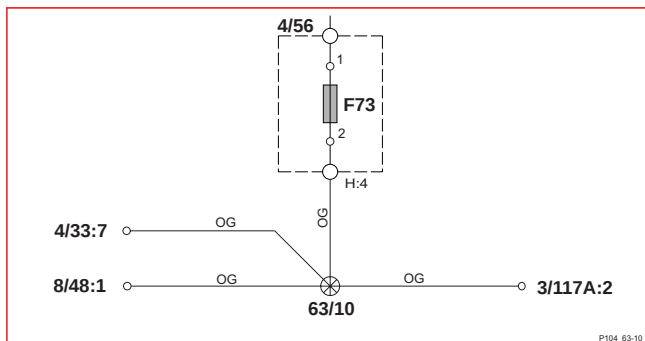
63/6



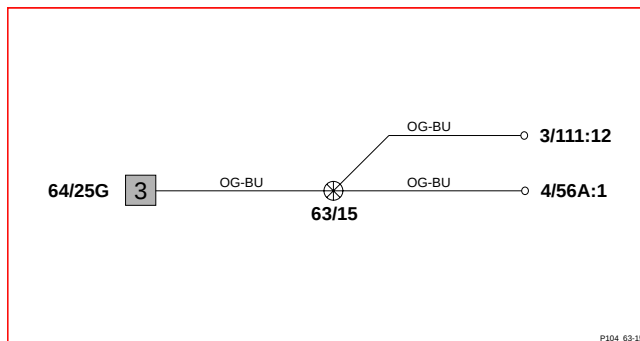
63/14



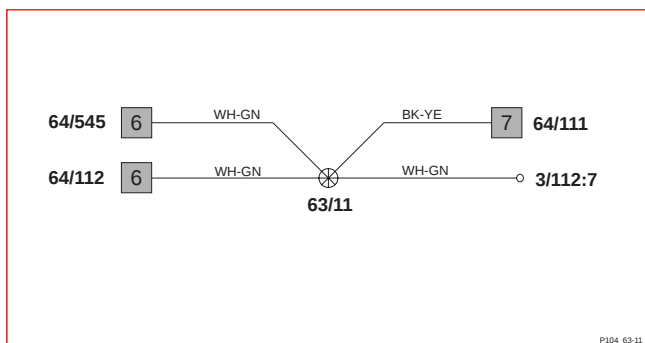
63/10



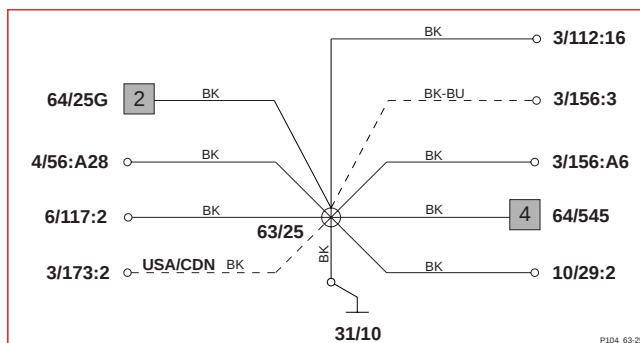
63/15



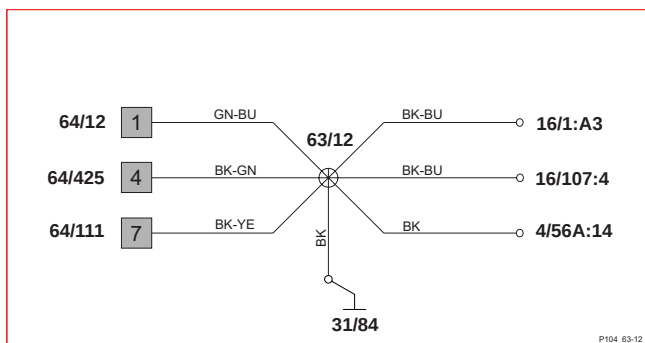
63/11



63/25



63/12



63/25G

