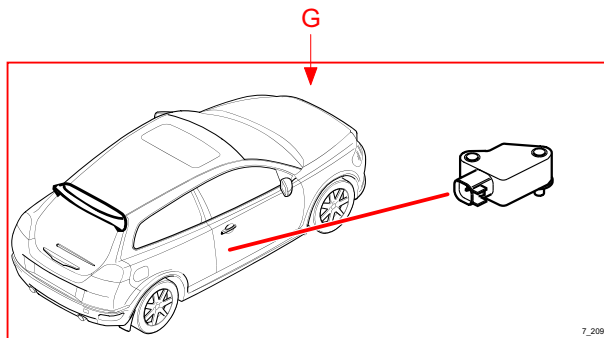
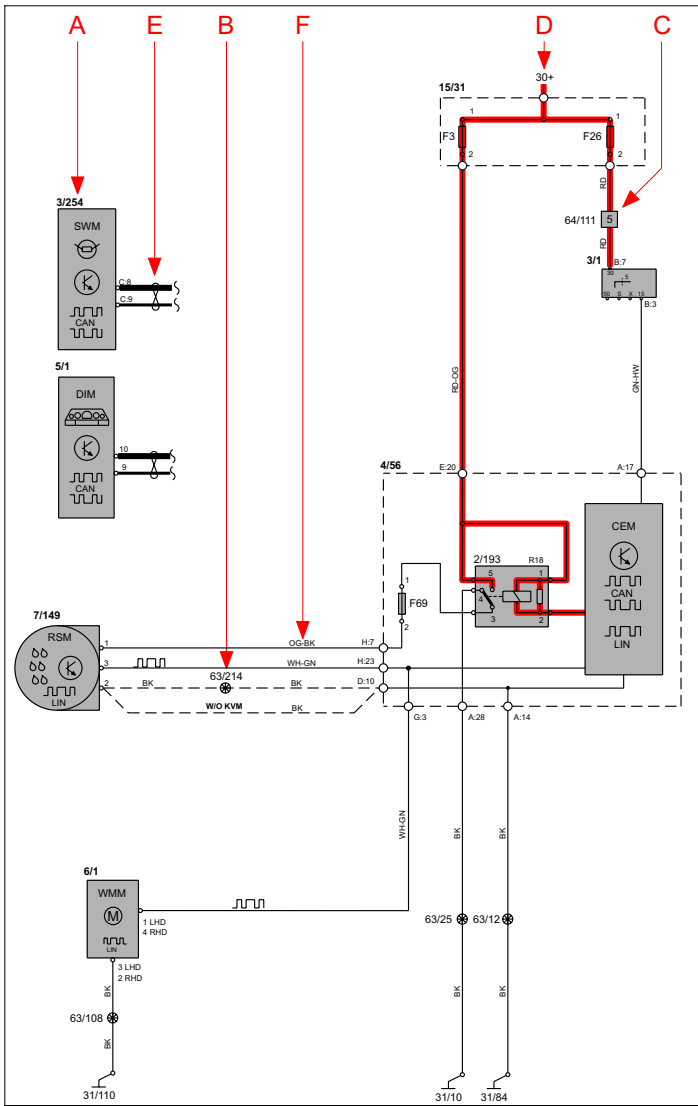



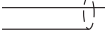









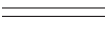


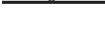







# How to use the wiring diagrams 2:2

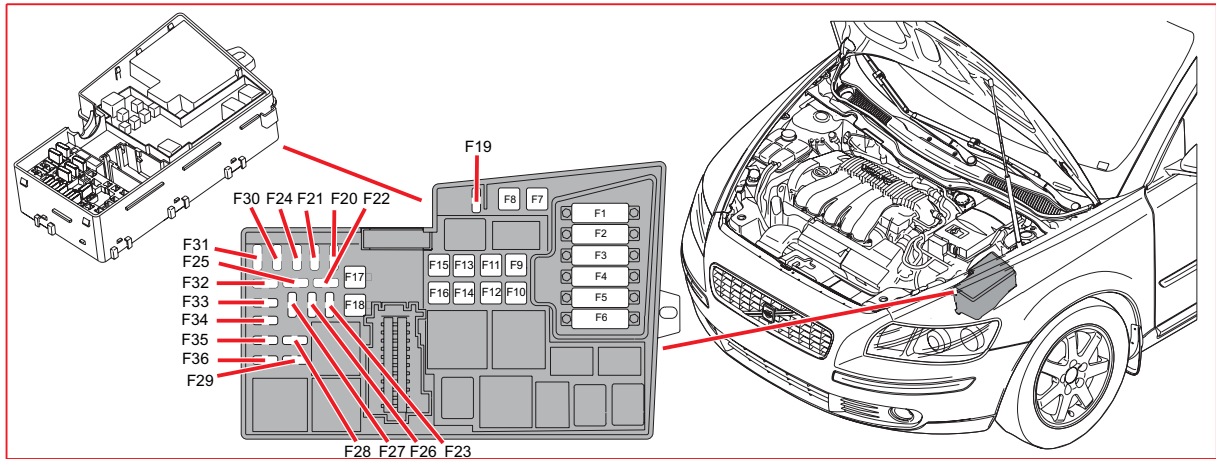


## Explanation of symbols

-  = System voltage
-  = Ground connection via wiring
-  = Ground connection in 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)
-  = LIN communication
-  = LIN communication
-  = DIN cable, coaxial cable, etc.
-  = Data communication
-  = CAN communication
-  = MOST communication
-  = MOST communication
-  = Connection with distribution box
-  = Further connection to...
-  = Connector between cable harnesses
-  = Connector connected in component

# Fuses

## Engine compartment distribution box F1-F10

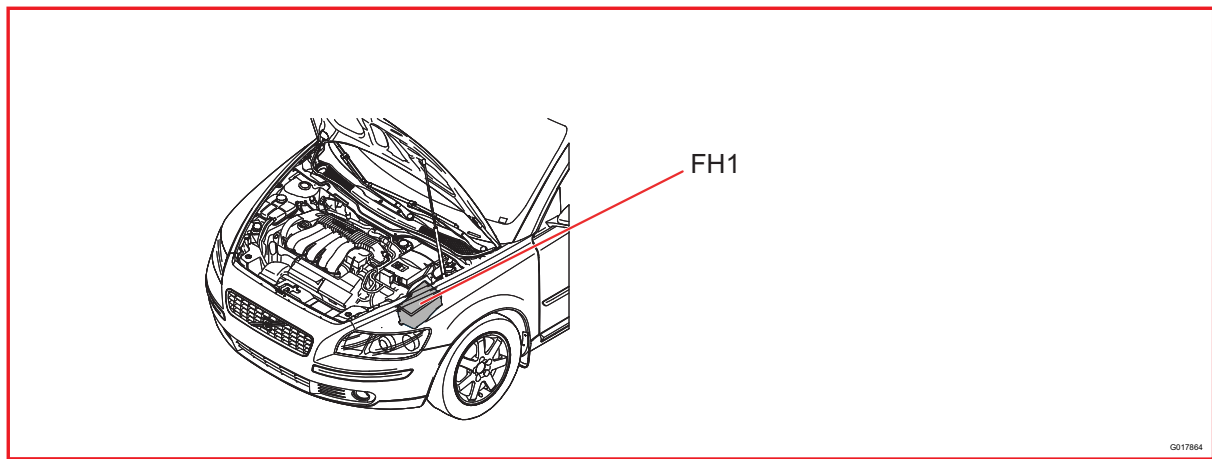


### 15/31 Engine compartment distribution box

No.	Fuse function	via	A
F1	4/71 Cooling fan control module	-	50
F2	6/71 Electrical Power Steering Module (EPS)	-	80
F3	2/193 Relay, comfort functions	-	60
	F45 Fuse in the Central Electronic Module (CEM)	2/193	
	F48-F49 Fuses in the Central Electronic Module (CEM)	2/193	
	F60-F61 Fuses in the Central Electronic Module (CEM)	2/193	
	F62-F63 Fuses in the Central Electronic Module (CEM)	-	
	F68-F69 Fuses in the Central Electronic Module (CEM)	2/193	
	F84-F85 Fuses in the Central Electronic Module (CEM)	-	
F4	2/63 Relay, high beam	-	60
	4/56 Central Electronic Module (CEM)	-	
	F55 Fuses in the Central Electronic Module (CEM)	-	
	F58-F59 Fuses in the Central Electronic Module (CEM)	2/63	
	F74 Fuses in the Central Electronic Module (CEM)	-	
	F77 Fuses in the Central Electronic Module (CEM)	-	
F5	9/41 PTC-element	-	80
F6	4/109 Glow plug control module, 4-cyl. Diesel	-	60
	4/109 Glow plug control module, 5-cyl. Diesel	-	70
F7	4/16 Brake Control Module (BCM), pump	-	30
F8	4/16 Brake Control Module (BCM), valves	-	20
F9	2/32 Main relay, engine management system	-	30
	F32-F36 Fuses in the engine compartment distribution box	2/32	
F10	4/31 Fan control module	-	40
continues			

## Fuses

### Distribution box in engine compartment FH1

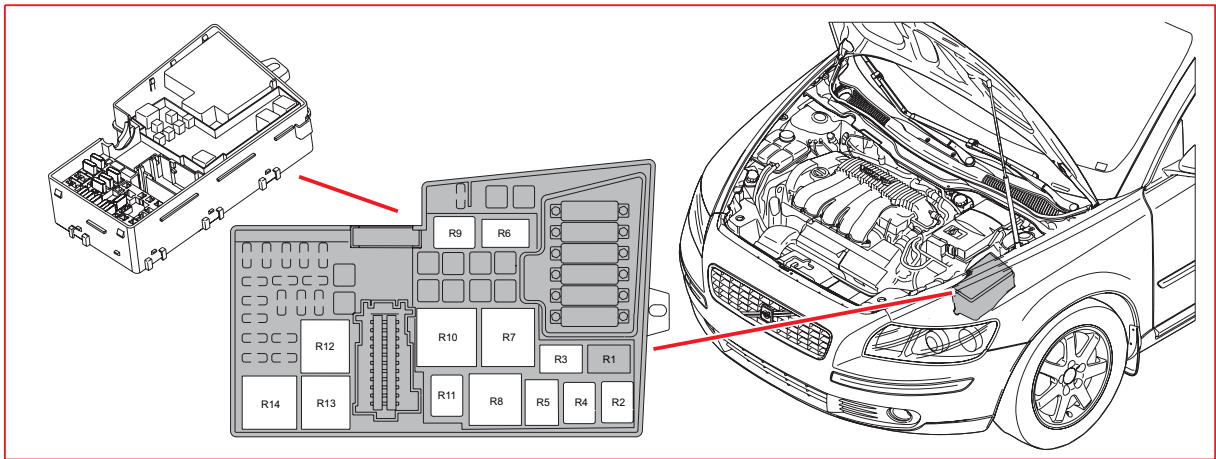


### FH1 Fuse in holder

No.	Fuse function	via	A
FH1	10/65 Auxiliary lights, front right	2/64	20
	10/69 Auxiliary lights, front left	2/64	

# Relays

## Distribution box in engine compartment R2-R14



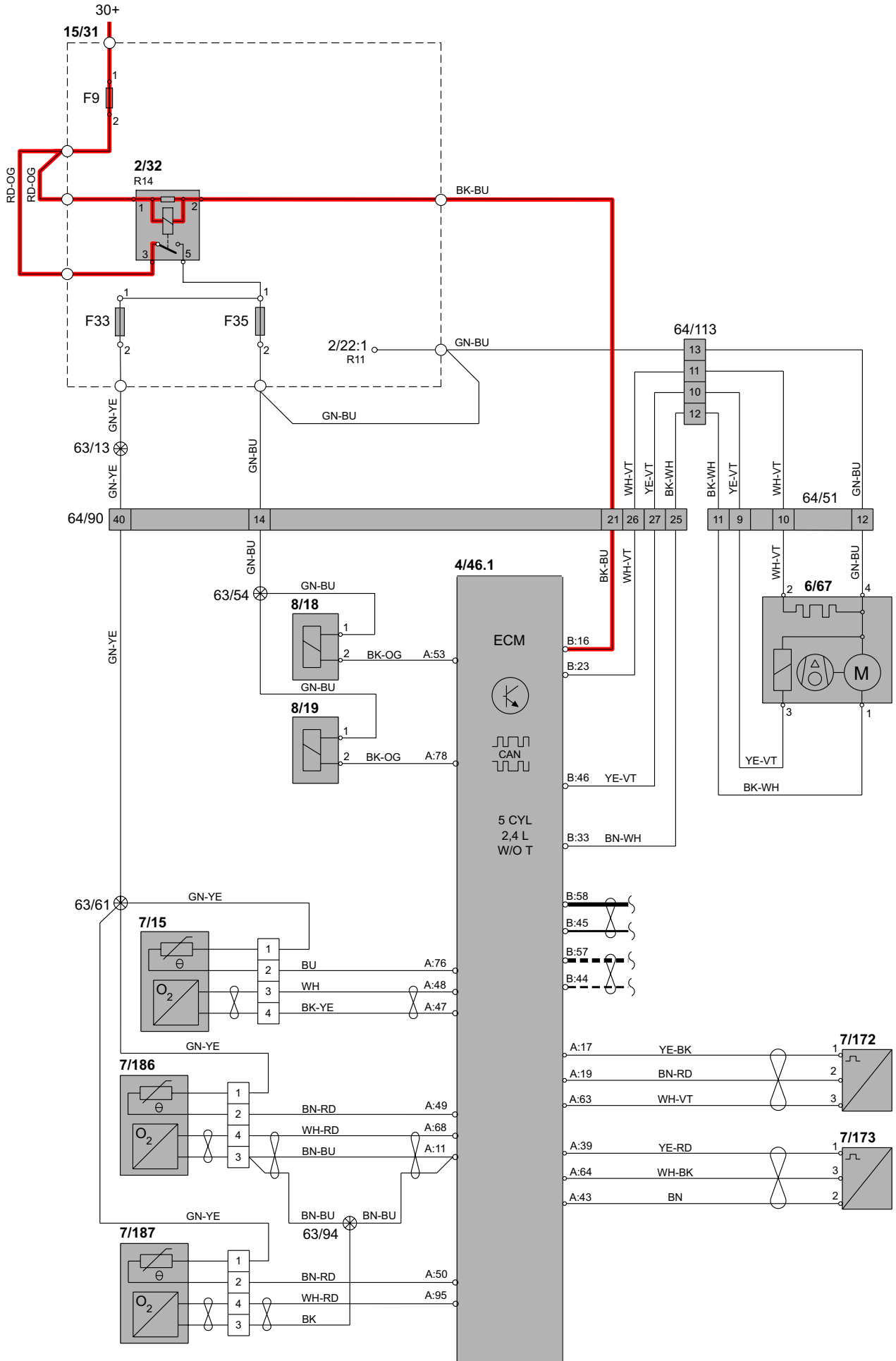
### 15/31 Engine compartment distribution box

Pos	Relay function
R2	2/17 Relay, horn
R4	2/34 Relay, front fog lights
R5	2/142 Fuel filter preheater relay
R9	2/182 Relay, headlight washer motor
R10	2/82 Relay, heated rear window
R11	2/22 Relay, climate control system
R13	2/35 Relay, starter motor
R14	2/32 Main relay, engine management system



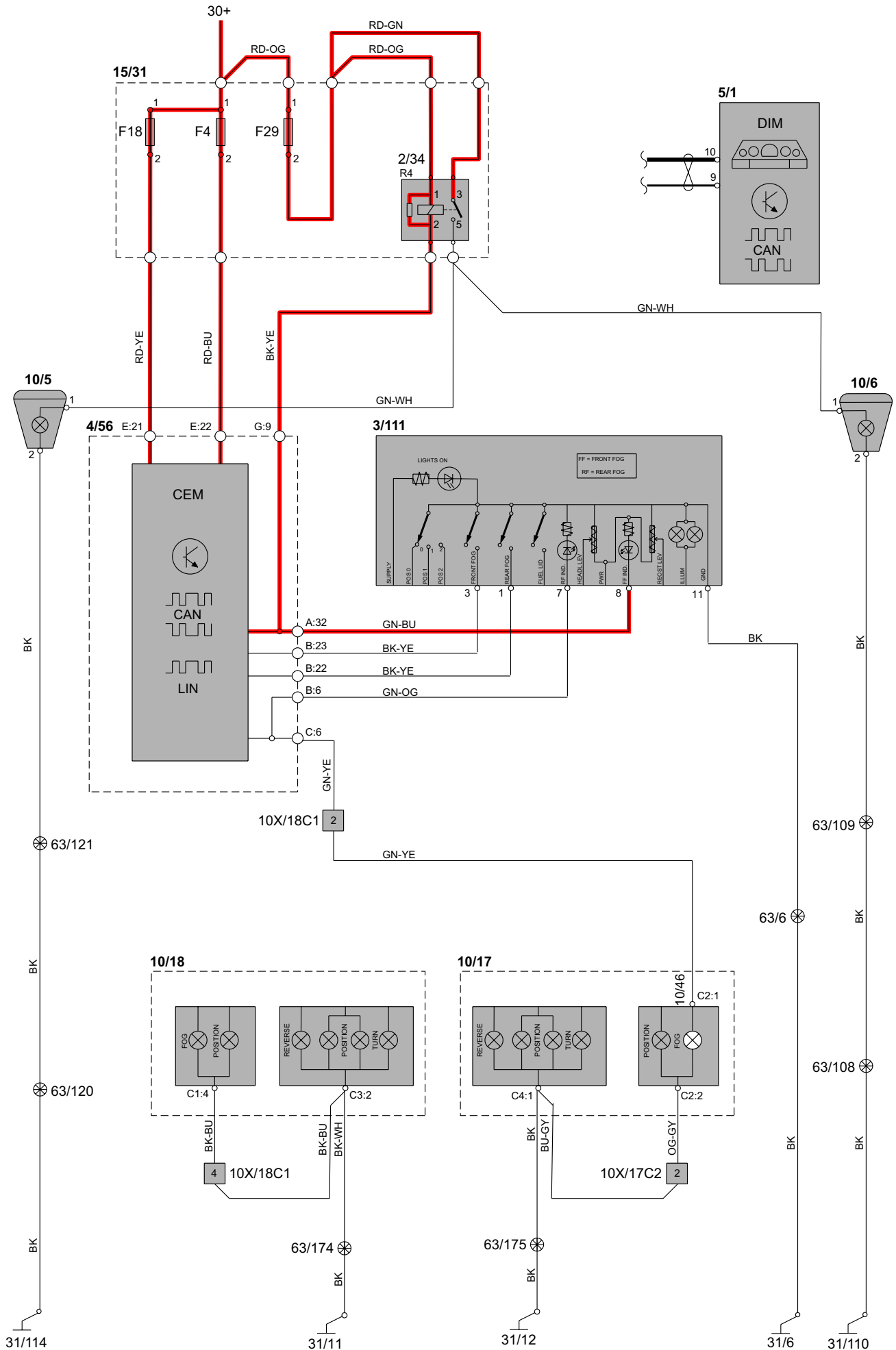
# Group 23 Fuel system

## Emission control, 5-cyl.



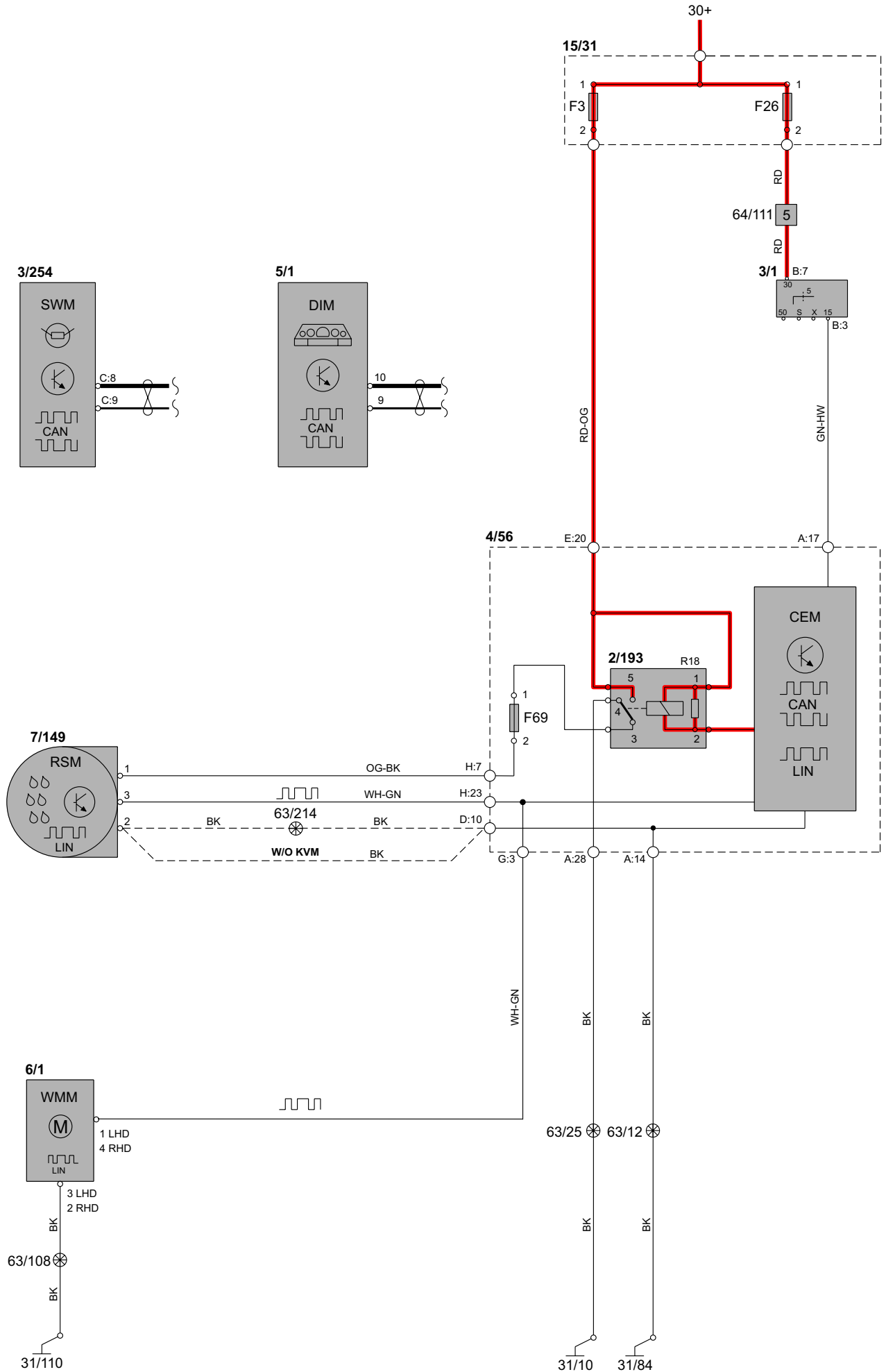
# Group 35 Lighting

## Fog lights LHD Japan



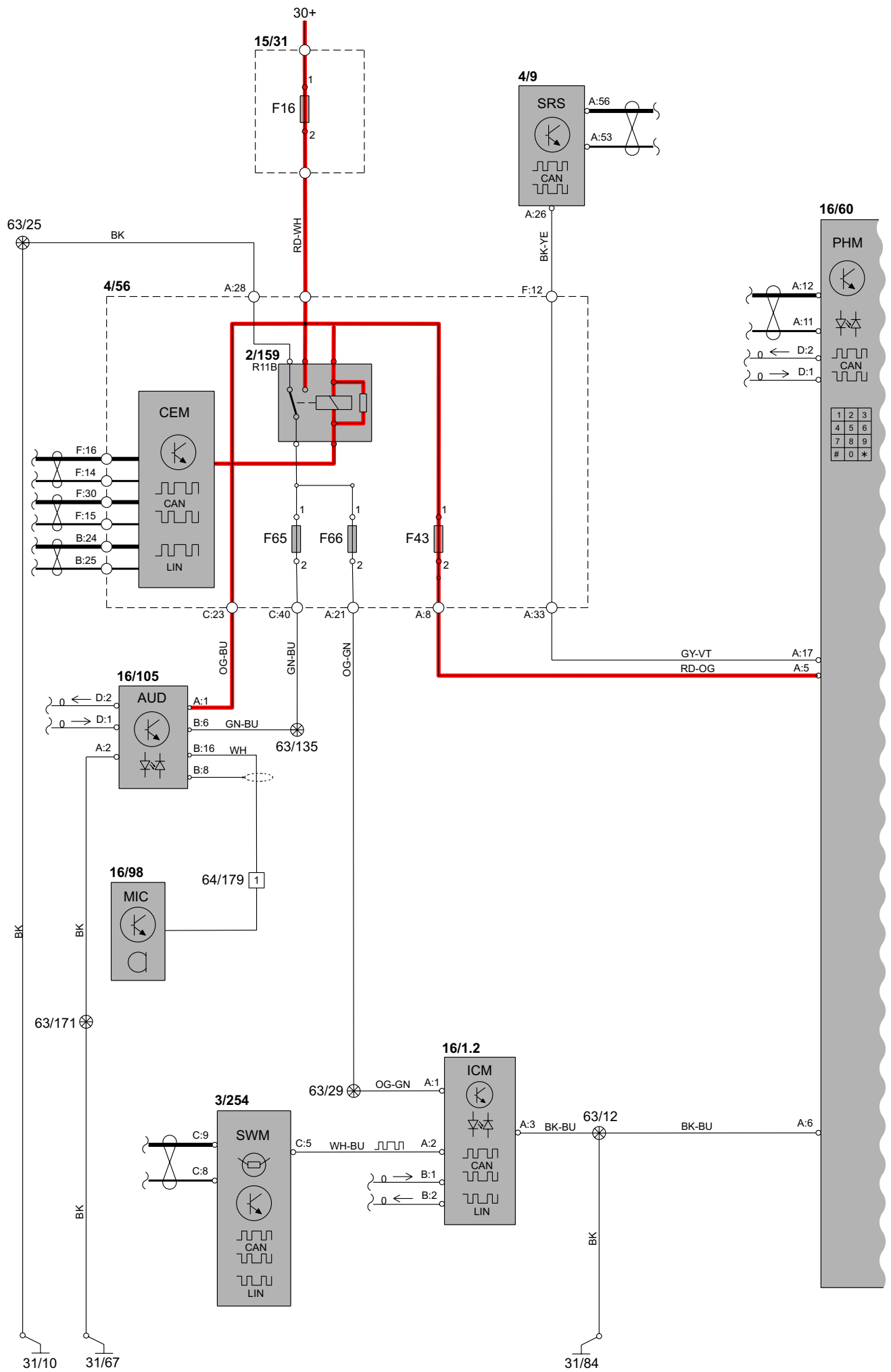
# Group 36 Additional electrical equipment

## Rain sensor



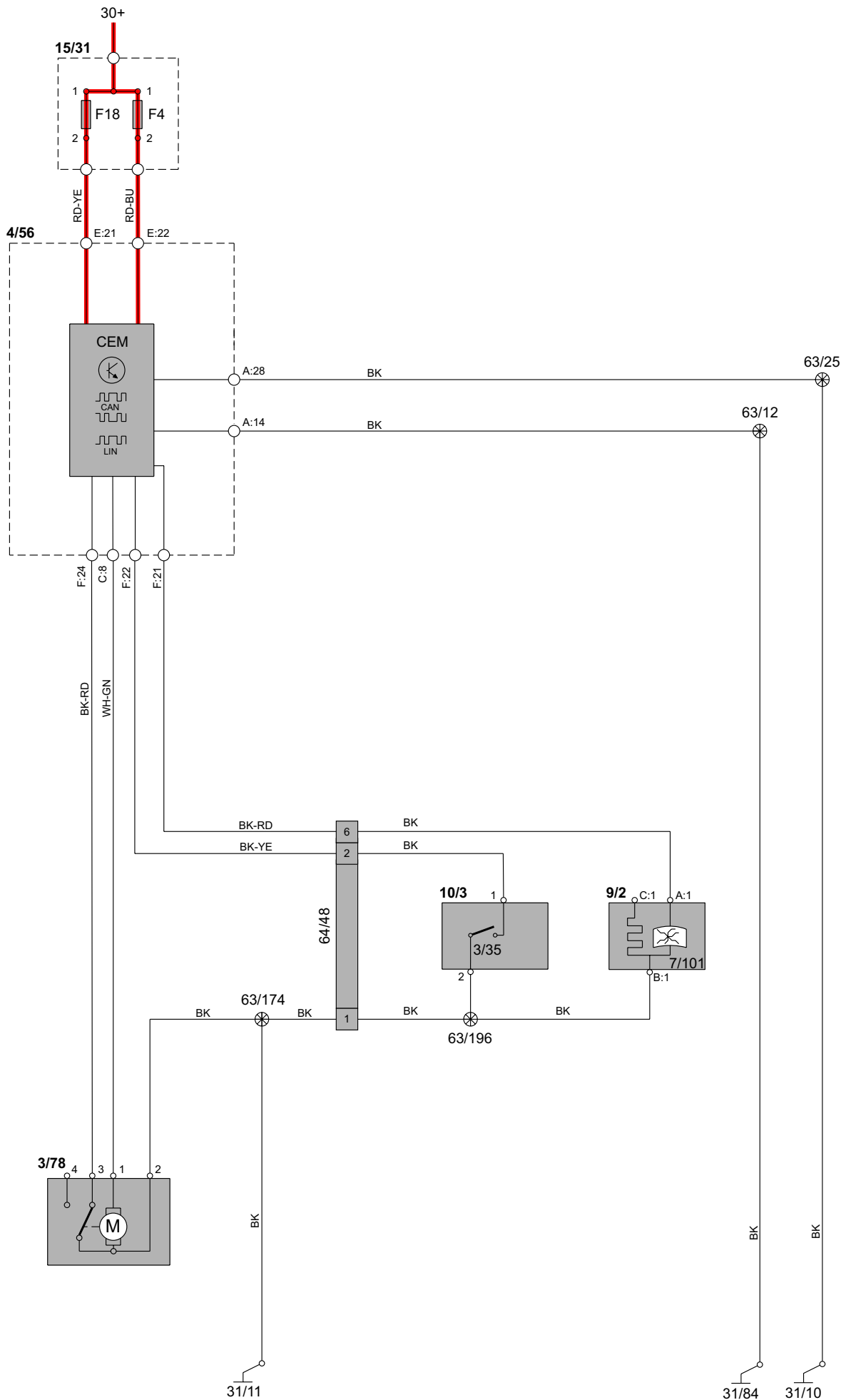


# Group 39 Other Cellular phone 1:2



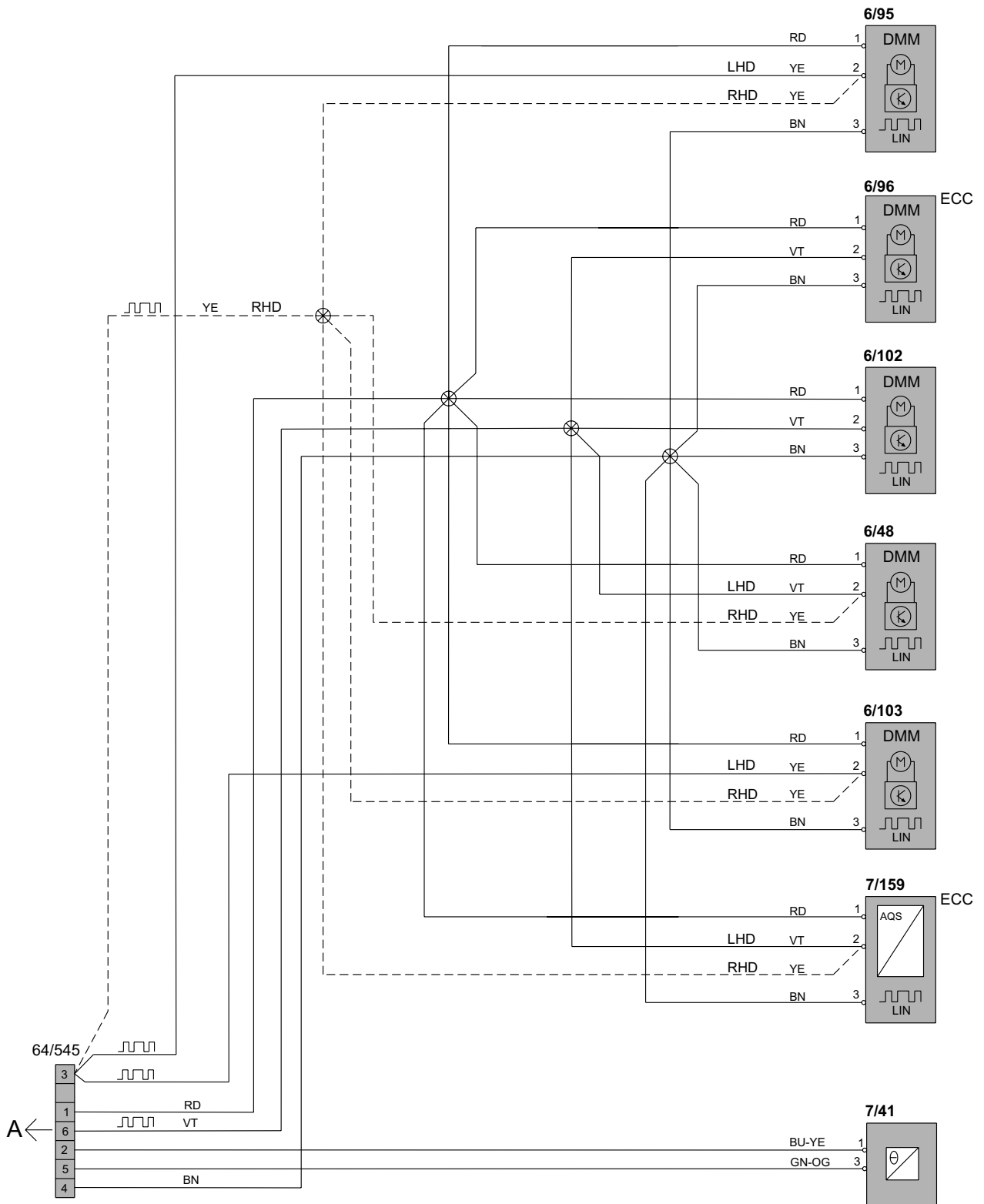
# Group 83 Doors and openings

## Central locking, trunk lid/tailgate

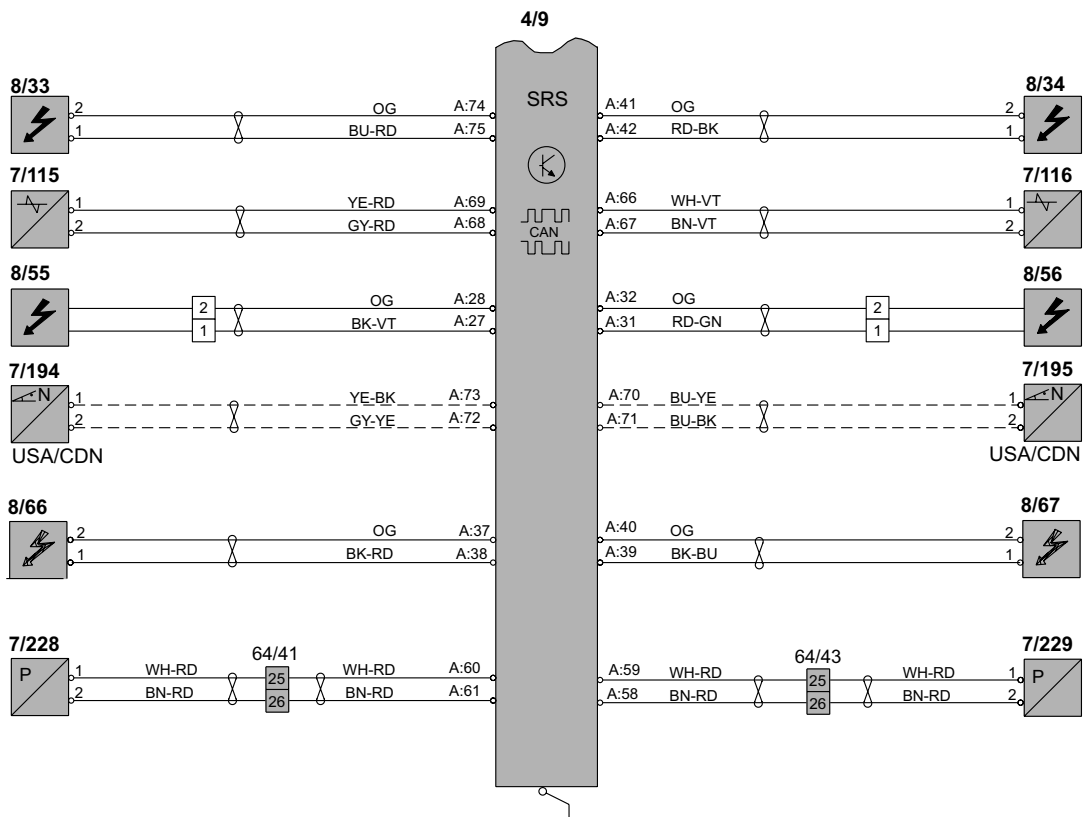


# Group 87 Climate control system

## Climate control system, 4-cyl. Gasoline 2:2



# Group 88 Internal equipment Supplemental Restraint System (SRS) 2:2



# Connectors

## 64/90:8-13

64/90

41-pin black

No.	Engine harness		Engine compartment harness			
8	4/46.1B:41 4/46.2B:30 4/46.4A:E4 4/46.5A:A2 4/46.6A:39 4/46.7A:40 4/46.3B:48	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T Engine control module (ECM), 4-cyl. 2.0l Diesel Engine control module (ECM), 4-cyl. 1.6l Diesel Engine Control Module (ECM), 4-cyl. 1.8l Engine Control Module (ECM), 4-cyl. 1.6l Engine control module (ECM), 5-cyl. 2.4l Diesel	GN-WH	4/56E:40	Central Electronic Module (CEM)	GN-WH
9	4/46.1B:17 4/46.2B:17 4/46.3B:33	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. Engine control module (ECM), 5-cyl. 2.4l Diesel	GN-BU	4/56 E:9	Central Electronic Module (CEM), 5-Cyl	GN-BU
10	3/10:2 3/10:3	Reversing light contact Reversing light contact	GN-YE GN-WH	4/56E:14	Central Electronic Module (CEM)	GN-BU
11	6/25A:1 64/120:1	Starter motor, 5-Cyl Connector	GY	2/35:5	Relay, starter motor	GY
12	8/77:1 8/120:3 8/133:1 63/103 63/52 63/95 8/111:2 8/113:1	Control valve, fuel volume EGR valve, 5-Cyl. Diesel Fuel pressure control valve, 4-cyl. 2.0l Diesel Branching point Branching point, 4-Cyl. 1.6l Branching point, 4-Cyl. 1.8l Fuel flow control valve, 4-cyl. 1.6l Diesel Bypass valve EGR cooling, 5-Cyl. Diesel	GN-BU GN-RD GN-YE GN-BK	F34:2	Fuse	GN-BU
13	4/46.1B:30 4/46.2B:15 4/46.4B:G4 4/46.7B:9 63/85	Engine Control Module (ECM), 5-cyl. 2.4l Engine Control Module (ECM), 5-cyl. 2.5l T Engine control module (ECM), 4-cyl. 2.0l Diesel Engine Control Module (ECM), 4-cyl. 1.6l Branching point	GN-YE RD	F54:2 2/142:5 F30:2	Fuse Relay, 5-Cyl. 2.4l Diesel Fuse	GN-YE RD
continues						

# Connectors

## 64/862 - 64/1300

### 64/862

#### 1-pin white

No.	PTC-element, climate control system harness			Engine compartment harness		
1	9/41A:1	PTC-element	-	31/112	Ground connection	BK

### 64/956

#### 5-pin black

No.	Fuel pump control module harness			-		
1	4/83:1	Control module fuel pump	WH-BK	64/51:14	Connector	WH-BK
2	4/83:2	Control module fuel pump	GN-WH	64/51:7	Connector	GN-WH
3	63/33	Branching point	BK-OG	64/51:8	Connector	BK-OG
4	4/83:4	Control module fuel pump	GN-OG	6/33:1	Fuel pump	GN-OG
5	4/83:5	Control module fuel pump	BK-RD	6/33:5	Fuel pump	BK-RD

### 64/978

#### 2-pin black

No.	Floor harness			MOST amplifier harness		
1	64/97:1	Connector	OG	16/105D:1	Audio Module (AUD)	OG
2	64/97:2	Connector	OG	16/105D:2	Audio Module (AUD)	OG
				16/139C:2	Global Positioning System Module (GPS)	

### 64/1300

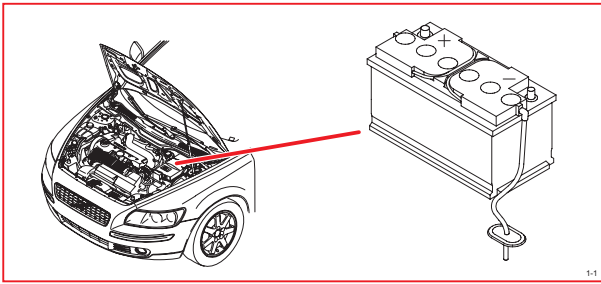
#### 6-pin

No.	Parking assistance harness, front			Engine compartment harness		
1	63/615	Branching point	BU	64/1400:1	Connector	BU
2	7/207:2	Front parking assistance sensor	GN	64/1400:2	Connector	GN
3	7/206:2	Front parking assistance sensor	VT	64/1400:3	Connector	VT
4	7/205:2	Front parking assistance sensor	YE	64/1400:4	Connector	YE
5	7/204:2	Front parking assistance sensor	WH	64/1400:5	Connector	WH
6	63/616	Branching point	BK	64/1400:6	Connector	BK

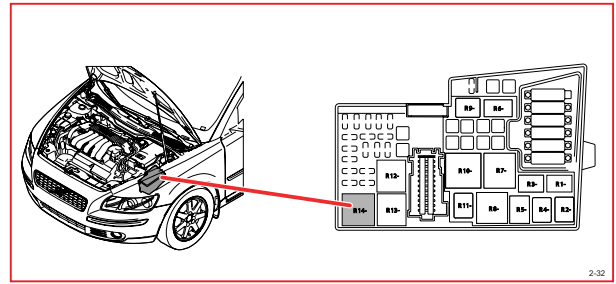
# Component images

1/1 - 2/64

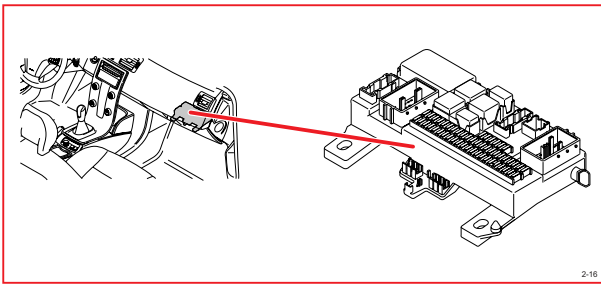
1/1 Battery



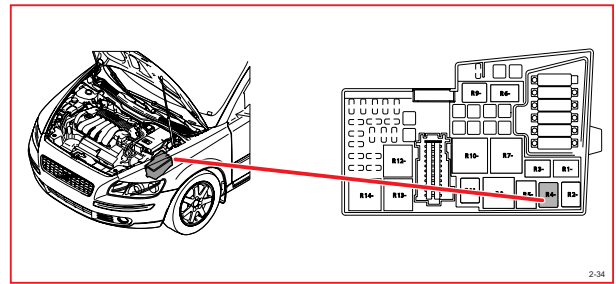
2/32 Main relay, engine management system



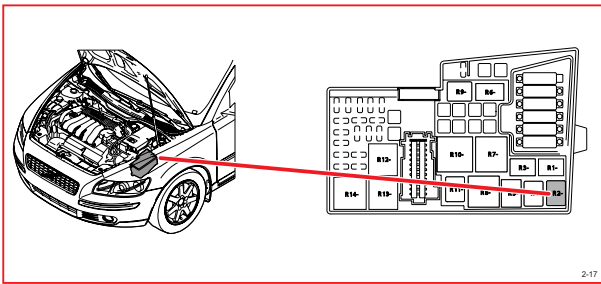
2/16 Relay, rear window wiper



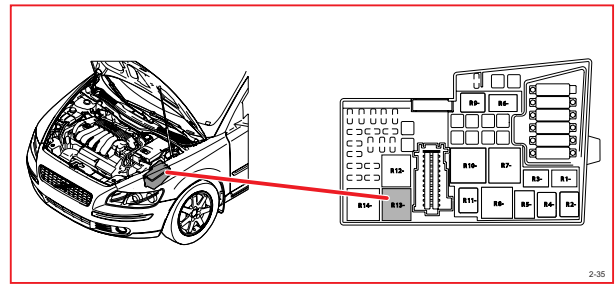
2/34 Relay, front fog lights



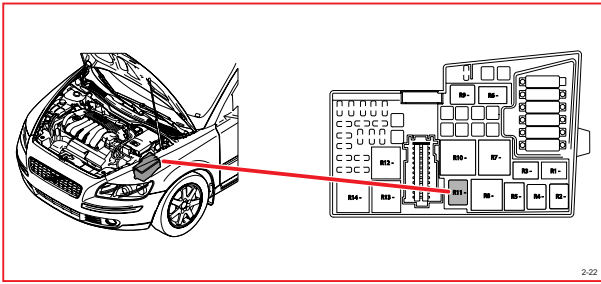
2/17 Relay, horn



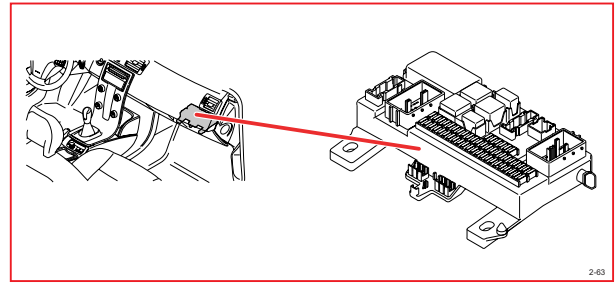
2/35 Relay, starter motor



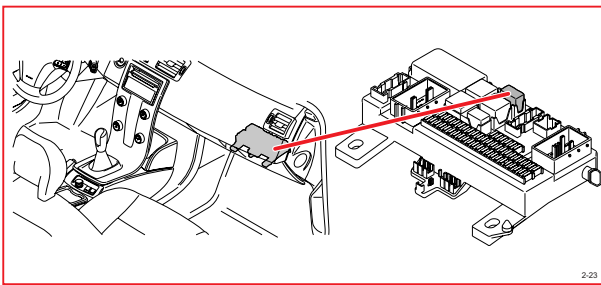
2/22 Relay, climate control system



2/63 Relay, high beam



2/23 Relay, fuel pump



2/64 Auxiliary light relay accessory

