

VOLVO XC90

## **WIRING DIAGRAM 2010**

TP 39151201

## Vehicles with SRS (Airbag)/SIPS bag/IC (Inflatable Curtain)

#### Warning!

Extra caution must be exercised when working on vehicles equipped with SRS/SIPS bag/IC in order to avoid:

- 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 workshop.

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 seat belt 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 VIDA.
- Certain components of the aforementioned systems must be grounded while working. Read the appropriate sections in VIDA.
- 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 and including January 2009

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.

#### Ordering:

Electronic Wiring Diagram (EWD) can be ordered from Technical Information Shop (TIS) on www.volvocarstechinfo.ford.com/vss

We reserve the right to make modifications.

### **Table of Contents 1:3**

Vehicles with SRS (Airbag)/SIPS bag/IC		31/93 - 31/98	38
(Inflatable Curtain)	2	31/100 - 31/121	39
Explanations	6		
Abbreviations	6	Control modules	
How to use the wiring diagrams 1:2	7	Overview locations	40
Electrical distribution 1:2	9	Overview designations	
		Central Electronic Module (CEM) 1:2	
Fuses		Rear Electronic Module (REM) 1:2	
Engine compartment 11A/1-5	11	Data communication High speed CAN	
Engine compartment 11B/1-11		Data communication Low speed CAN	
Engine compartment 11B/12-14		Data communication LIN 1:2	
Engine compartment 11B/15		Data communication MOST	
Engine compartment 11B/16-21		Data communication woor	00
Passenger compartment 11C/1-4		One on 02 Final avertons	
Passenger compartment 11C/5-7		Group 23 Fuel system	
Passenger compartment 11C/8-10		Engine management system, Diesel 1:3	
Passenger compartment 11C/11-14		Engine management system, 5-Cyl. Turbo 1:2	
Passenger compartment 110/1-2		Engine management system, 6-Cyl. 1:2	
Cargo compartment 11E/1-7		Engine management system, 8-Cyl. 1:2	
Cargo compartment 11L/1		Emission control 5-Cyl. Turbo	
Cargo compartment 110/6-12		Emission control 6-Cyl.	
Central electronic module (CEM) F1-F11		Emission control 8-Cyl.	62
Central electronic module (CEM) F15-F34			
Rear electronic module (REM) F1-F7		Group 26 Cooling system	
Rear electronic module (REM) F8-F28		Cooling fan 5-Cyl.	
Rear electronic module (REM) F29-F38		Cooling fan, Diesel, 6-Cyl. & 8-Cyl	64
Relays		Group 27 Engine controls	
Ignition switch and relays	20	Cruise control 5-Cyl.	65
Engine compartment FMA1 - FST3		Cruise control, Diesel, 6-Cyl. & 8-Cyl	
Cargo compartment			
Other relays		Group 32 Alternator and voltage regula	ator
Circl relays	02	Power supply	
Ground connections			
Overview		Group 33 Starting system	
31/1 - 31/46		Starting system 5-Cyl	68
31/47 - 31/72		Starting system, Diesel, 6-Cyl. & 8-Cyl	
31/73 - 31/84		3 , , , , , , , , , , , , , , , , , , ,	
31/84 - 31/93	37		

### **Table of Contents 2:3**

Group 35 Lighting	Group 38 Instruments	
Full and dipped beam/(Dual-Xenon) & Daytime Running	Seat belt reminder	98
_ights		
Active headlights (ABL) 7		
Fog lights		101
Brake lights		
Reversing light		
Follow-me-home lighting 7		
Running/parking light, tail lights & license plate	Audio with external amplifier	102
ighting 7	Audio with external amplifier	
nterior lighting 7	7 Navigation system, portable	
Beam length adjustment	o Navigation system, portable	
Auxiliary lights 7	Road Traffic Information (RTI)	
	Satellite radio	
Group 36 Additional electrical equipment	Rear seat entertainment, accessory	
Rain sensor		
Direction indicator and hazard warning flashers 8		
Niper/Washer Windshield 8		
•		
High pressure washer Headlight		
Horn 8		
mmobilizer 8		113
Anti-theft alarm		116
Parking assistance		110
Alcohol lock		117
Accessory Electronic Module (AEM) 1:2		117
Accessory Electronic Module (ALM) 1.2	LHD	110
	Bluetooth handsfree with AEM, external amplifier,	110
Group 37 Wiring and fuses	PUD	110
Diagnostics system 9	2	119
Outlet 12V 9	A 10 T 1	
Cable harness towbar/tow hitch 4/7 pin 9		
Cable harness towbar/tow hitch 7 pin9		120
Cable harness towbar/tow hitch 13 pin 9		121
Accessory USB unit (AUU)		
	6-Cyl. & Diesel	122
	Geartronic AW51 AWD	
	Shift lock AW51 AWD & Manual	124

Differential Electronic Module (DEM)...... 125

### **Table of Contents 3:3**

<b>Group 59 Brake system</b>	Heated seats137
Brake control system	Massage seats with ventilation
Elako sarkiai ajatan	Heated seats second row of seats
Group 64 Steering	
Electronic power steering	Group 87 Climate control system
Ziodicino powor diccinig	Climate control system, 5-Cyl. 1:2
Crown 92 Deere and enemines	Climate control system, Diesel, 6-Cyl. & 8-Cyl. 1:2 142
Group 83 Doors and openings	Climate control system, rear
Central locking	
Power windows	Parking heater remote start 146
Power sunroof	Relay, electric engine heater
Group 84 Exterior decorative elements, e	etc. Group 88 Internal equipment
Power door mirrors	404
Blind spot information system	Remote Control garage opening
Heated door mirrors	
Heated rear window	134
	Index 1:2150
<b>Group 85 Interior equipment</b>	
Power driver's seat	135 List of components 1:6152
Power passenger seat	

# **Explanations Abbreviations**

Group 23 = Fuel system	Groups		Other	
Group 27         = Cooling system         ACC         = Accessories           Group 32         = Alternator and voltage regulator         Ag         = Silver plated           Group 33         = Starting system         AUDIO         Audio system           Group 35         = Lighting         AUTO         Audio system           Group 36         = Additional electrical equipment         BLIS         = Blind spot information system           Group 37         = Wiring and fuses         CEM         = Central Electronic Module           Group 38         = Instruments         DIESEL         = D3244 T4/T5/T6/T7           Group 39         = Other         DRL         = Daytime Running Lights           Group 39         = Transmission         DSTC         = Dynamic Stability Traction Control           Group 43         = Steering         ECC         = Dynamic Stability Traction Control           Group 59         = Brake system         DuX         = Dual Xenon           Group 76         = Shock absorbers         ECPS         = Electronic power steering           Group 81         = Exterior decorative elements, etc.         EXT. D         = Exterior decorative elements, etc.           Group 85         = Interior equipment         HISPEED         + High speed data bus	-	- Fuel eveters		- Active Dual Vener headlights
Group 27         = Engine controls         Ag         = Silver plated           Group 32         = Alternator and voltage regulator         Au         = Gold plated           Group 35         = Lighting         AUTO         = Automatic transmission           Group 36         = Additional electrical equipment         BLIS         = Blind spot information system           Group 37         = Wiring and fuses         CEM         = Central Electronic Module           Group 38         = Instruments         DIESEL         = D5244 TH/T6/16/T7           Group 38         = Instruments         DIESEL         = D5244 TH/T6/16/T7           Group 38         = Transmission         DSTC         = Dynamic Stability           Group 43         = Transmission         DSTC         = Dynamic Stability           Group 43         = Steering         ECC         = Electronic climate control           Group 48         = Steering         ECC         = Electronic power steering           Group 84         = Exterior decorative elements, etc.         EXT         = Extended electrical distribution           Group 85         = Interior equipment         HISPEED         = High speed data bus           Group 84         = Interior expuipment         HIMP         = Left-hand drive           Group	•	•		
Group 32         = Alternator and voltage regulator         Au         = Gold plated           Group 35         = Starting system         AUTO         = Audio system           Group 36         = Additional electrical equipment         BLIS         = Blind spot information system           Group 37         = Wiring and fuses         CEM         = Central Electronic Module           Group 38         = Instruments         DIESEL         = D5244 T4/T5/T6/T7           Group 39         = Other         DRL         = Daytime Running Lights           Group 39         = Transmission         DSTC         = Dynamic Stability Traction Control           Group 39         = Steering         ECC         = Dual Xenon           Group 69         = Brake system         Du-X         = Dual Xenon           Group 80         = Steering         ECC         = Electronic control system           Group 81         = Shock absorbers         ECPS         = Electronic power steering           Group 82         = Shock absorbers         ECPS         = Electronic power steering           Group 84         = Exterior decorative elements, etc.         EXT. D         = Extended electrical distribution           Group 85         = Interior equipment         HISPEED         HISPEED         High speed data bus	•	<u> </u>		
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Group 35         = Lightning Group 36         Additional electrical equipment         BLIS         = Blind spot information system           Group 37         = Wiring and fuses         CEM         = Central Electronic Module           Group 38         = Instruments         DIESEL         = D5244 T4/T5/T6/T7           Group 39         = Other         DRL         = Daytime Running Lights           Group 39         = Transmission         DSTC         = Dynamic Stability Traction Control           Group 4         = Steering         ECC         = Electronic climate control system           Group 59         = Brake system         Du-X         = Dual Xenon           Group 6         = Shock absorbers         ECC         = Electronic climate control system           Group 81         = Exterior decorative elements, etc.         EXT         = Exterior decorative elements, etc.           Group 85         = Interior equipment         HISPEED         = High speed data bus           Group 87         = Climate control system         LH         = Left-hand side           Group 88         = Internal equipment         LH         = Left-hand drive           Group 87         = Climate control system         LH         = Left-hand drive           Group 88         = Internal equipment         LH	•			
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Group 43 = Transmission	•			
Group 59	•			
Group 64	•			
Group 76	•	•		
Group 83	•			
Group 84	•			
Group 85	•	·		
Group 87	•			
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Designations ignition switch       LOSPEED       = Low speed data bus         X       = Accessories (audio position)       MCC       = Manual transmission         S       = Powered upon insertion of key       PCL       = Power Child Lock         15       = Contact remains connected during start       REM       = Rear Electronic Module         151       = Contact is broken while starting       RH       = Right-hand drive         30       = Constant power from the battery       RHD       = Right-hand drive         50       = Start       RTI       = Road Traffic Information         SRS       = Alirbag         Countries/Markets       T       = Turbocharged engine         A       = Austria       5CYL       = 5-cylinder engine         AUS       = Australia       6CYL       = 6-cylinder engine         B       = Belgium       6CYL       = 6-cylinder engine         CDN       = Canada       COlors       E         D       = Germany       BL       = Blue         DK       = Denmark       BL       = Blue         E       = Spain       BN       = Brown         EU/OS       = Markets outside USA and Canada       GR       = Gray         GB	•			
Designations ignition switchMAN= Manual transmissionX= Accessories (audio position)MCC= Manual Climate ControlS= Powered upon insertion of keyPCL= Power Child Lock15= Contact remains connected during startPETROL= Gasoline15I= Contact is broken while startingRH= Right-hand side30= Constant power from the batteryRHD= Right-hand drive50= StartRTI= Road Traffic Information50= StartT= Turbocharged engineCountries/MarketsT= Turbocharged engineA= Austria5CYL= 5-cylinder engineAUS= Australia6CYL= 5-cylinder engineB= Belgium6CYL= 6-cylinder engineCDN= CanadaCOIOTSCH= SwitzerlandE= SyainD= GermanyBL= BlueDK= DenmarkBL= BlueE= SpainBN= BrownEU/OS= Markets outside USA and CanadaGR= GreenFIN= FinlandGR= GreayGB= Great BritainNL= NaturalISR= IsraelLBL= Light BlueJ= JapanLGN= Light GreenKOR= KoreaOR= OrangeN= NorwayP= PinkNL= NetherlandsR= RedS= SwedenSB= BlackUSA= United States o	Group 88	= Internal equipment		
X = Accessories (audio position) S = Powered upon insertion of key 15 = Contact remains connected during start				•
S = Powered upon insertion of key 15 = Contact remains connected during start 15	Designatio	ns ignition switch		
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30 = Constant power from the battery 50 = Start		start		
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Countries/MarketsT= Turbocharged engineA= AustriaW/O= WithoutAUS= Australia5CYL= 5-cylinder engineB= Belgium6CYL= 6-cylinder engineCDN= Canada8CYL= 8-cylinder engineCH= SwitzerlandColorsD= GermanyBL= BlueE= SpainBN= BrownEU/OS= Markets outside USA and CanadaGN= GreenFIN= FinlandGR= GrayGB= Great BritainNL= NaturalISR= IsraelLBL= Light BlueJ= JapanLGN= Light GreenKOR= KoreaOR= OrangeN= NorwayP= PinkNL= NetherlandsR= RedS= SwedenSB= BlackUSA= United States of AmericaVO= VioletWEU= Western EuropeW= White	50	= Start		
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AUS = Australia B = Belgium CDN = Canada CH = Switzerland D = Germany DK = Denmark E = Spain EU/OS = Markets outside USA and Canada GB = Great Britain ISR = Israel J = Japan KOR = Korea N = Norway NL = Netherlands S = Sweden USA = United States of America WEU = Western Europe  5CYL = 5-cylinder engine 6CYL = 6-cylinder engine	Countries/Markets			
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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  Colors  Colors  BL = Blue BN = Brown GR = Green GR = Gray NL = Natural LBL = Light Blue LGN = Light Green OR = Orange P = Pink NL = Red S = Sweden VO = Violet WEU = Western Europe				
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  VO = Wastern Europe  Colors  BL = Blue  BN = Brown  GR = Grear  BN = Brown  BN = Brown  EU/OS = Markets outside USA and Canada  GN = Green  FIN = Blue  LEBL = Light Blue  LGN = Light Green  OR = Orange  P = Pink  R = Red  S = Sweden  VO = Violet  WEU = Western Europe				
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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  BL = Blue BR = Blue GR = Green GR = Gray GR = Gray LBL = Light Blue LGN = Light Green OR = Orange P = Pink R = Red S = Sweden VO = Violet WEU = Western Europe				
DK = Denmark			Colors	
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GB = Great Britain			GR	= Gray
ISR = Israel J = Japan LGN = Light Green  KOR = Korea OR = Orange  N = Norway NL = Netherlands S = Sweden USA = United States of America WEU = Western Europe  LBL = Light Blue LGN = Vialet States VO = Violet WEU = Western Europe			NL	= Natural
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KOR = Korea OR = Orange  N = Norway P = Pink  NL = Netherlands R = Red  S = Sweden SB = Black  USA = United States of America VO = Violet  WEU = Western Europe W = White			LGN	= Light Green
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S = Sweden SB = Black USA = United States of America VO = Violet WEU = Western Europe W = White			R	= Red
USA = United States of America VO = Violet WEU = Western Europe W = White			SB	= Black
WEU = Western Europe W = White			VO	= Violet
Y = Yellow			W	= White
			Υ	= Yellow

#### How to use the wiring diagrams 1:2

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, e.g. x/2.

Together, this constitutes a component designation, e.g. 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 Driver information module
- 6 Electric motor
- 7 Sensor
- 8 Actuator
- 9 Heating element
- 10 Light
- 11 Fuse
- 15 Electrical distribution rail/box
- 16 Audio
- 17 Service/diagnostics
- 18 Contact reel
- 19 Meter
- 20 Ignition component/shunt
- 26 Converter
- 27 Optics
- 31 Ground connection
- 53 Branching point
- 54 Connector

#### **B.** Branching points

The wiring diagrams contain numbered junction points, e.g. 53/352.

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

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

#### C. Connectors

Connectors provide a bridge between two cable 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 CAN, LIN & MOST networks that transmit information. Connections to these networks are not shown in their entirety on the respective wiring diagram. Complete information on Data communication can be found in the section entitled "Control modules".

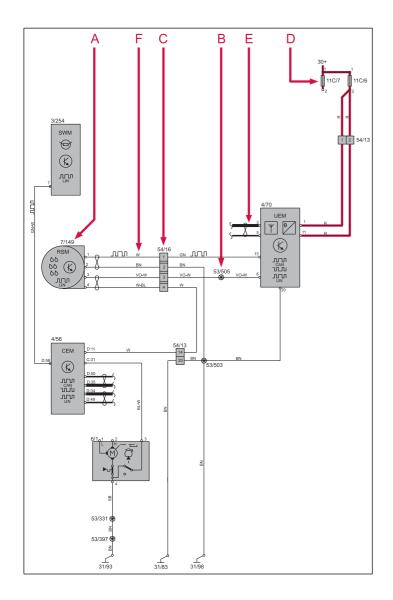
#### F. Abbreviations

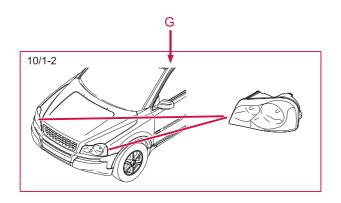
A number of different abbreviations are used in the manual. These are explained in the section "Abbreviations".

#### **G.** Component location

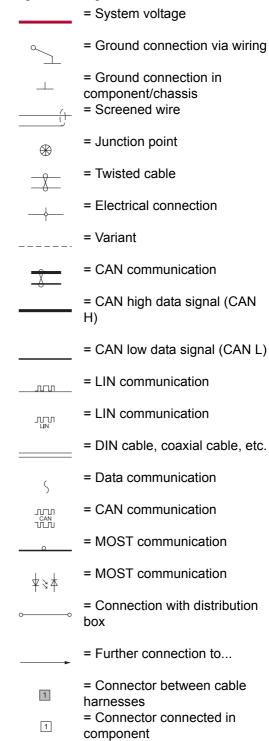
There is a section at the end of the manual in which the appearance and location of components is described in numerical order.

### How to use the wiring diagrams 2:2

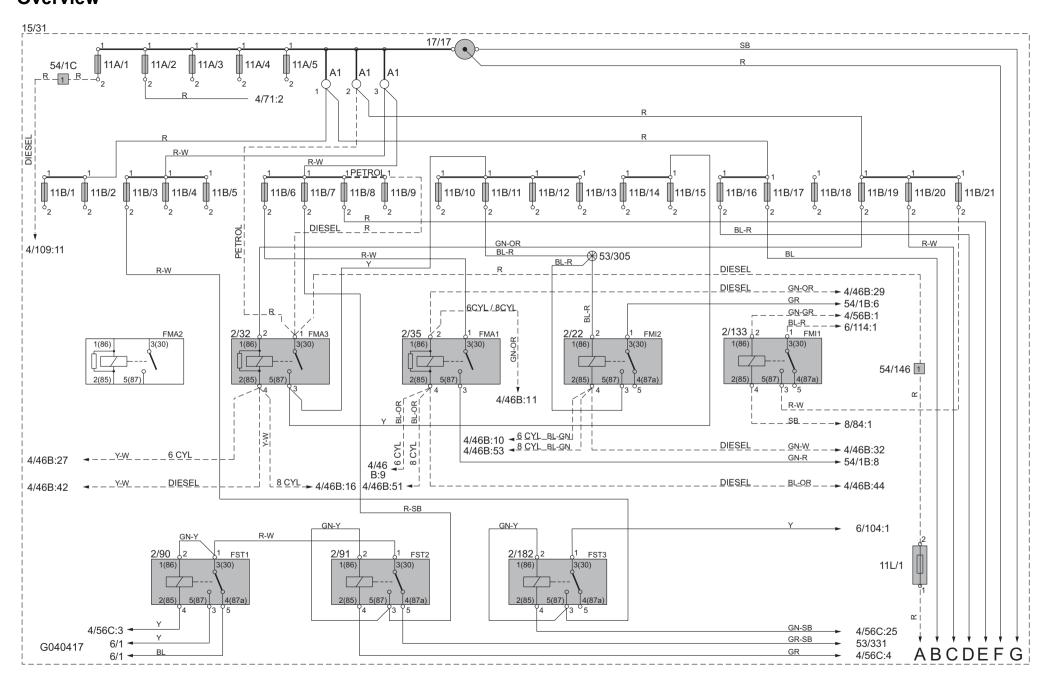




#### Symbol key

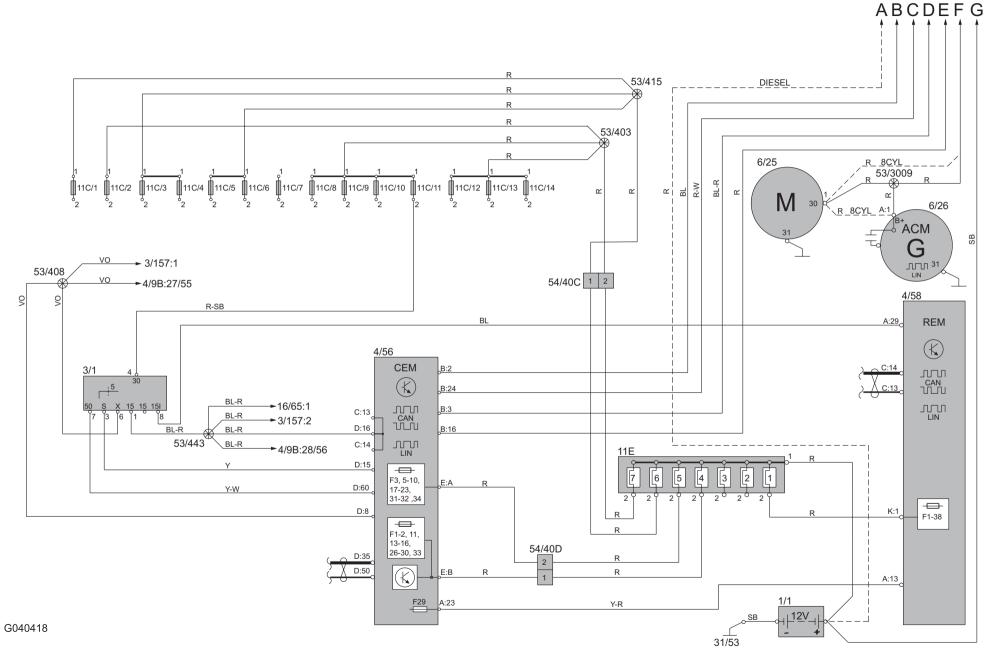


## Electrical distribution 1:2 Overview



TP 39151201 XC90 2010 9

## **Electrical distribution 2:2 Overview**



TP 39151201 XC90 2010 10