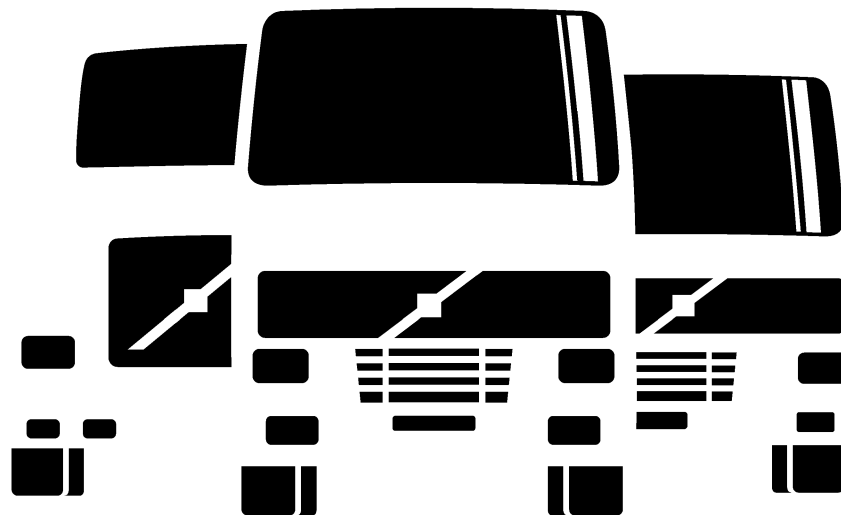


Service Manual Trucks

Group **37**
Release **01**

Wiring diagram
FM9, FM12, FH12, FH16, NH12 VERSION2
FM, FH CHID A610059–
FM, FH CHID B411901–



Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to September 05.

The products are under continuous development. Vehicles and components produced after the above date may therefore have different specifications and repair methods. When this is judged to have a significant bearing on this manual, supplementary service bulletins will be issued to cover the changes.

The new edition of this manual will update the changes.

In service procedures where the title incorporates an operation number, this is a reference to V.S.T. (Volvo Standard Times).

Service procedures which do not include an operation number in the title are for general information and no reference is made to V.S.T.

The following levels of observations, cautions and warnings are used in this Service Documentation:

Note: Indicates a procedure, practice, or condition that must be followed in order to have the vehicle or component function in the manner intended.

Caution: Indicates an unsafe practice where damage to the product could occur.

Warning: Indicates an unsafe practice where personal injury or severe damage to the product could occur.

Danger: Indicates an unsafe practice where serious personal injury or death could occur.

Volvo Truck Corporation

Göteborg, Sweden

Order number: 20037631

© 05 Volvo Truck Corporation, Göteborg, Sweden

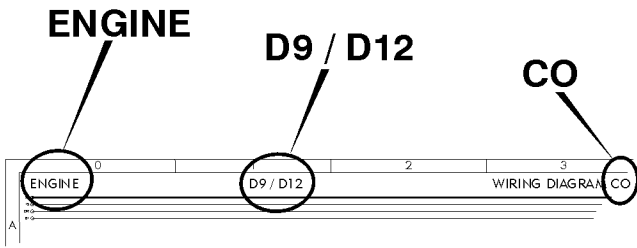
All rights reserved. No part of this publication may be reproduced, stored in retrieval system, or transmitted in any forms by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of Volvo Truck Corporation.

ENG18353

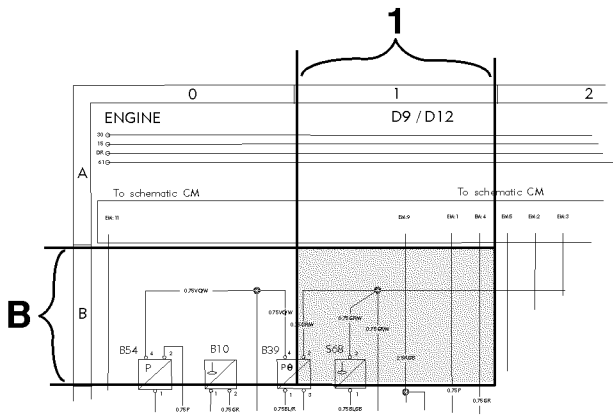
Contents

Example of wiring diagram	2
Component wiring diagram index	5
Component wiring diagrams	8
Illustrations index	90
Illustrations	91
Fuses	171
Relays	173
Wiring harness illustration index	175
Earth connections	178
List of earth connections	180
List of connectors	181
List of components	189
Abbreviations	195
Cable colour code	197
Feedback	

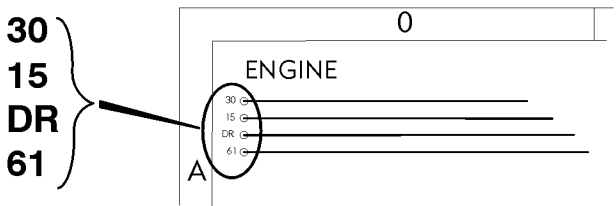
Example of wiring diagram



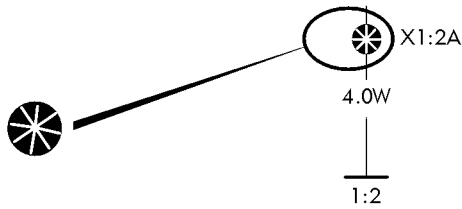
Component wiring diagram title, variant/subtitle and symbol.



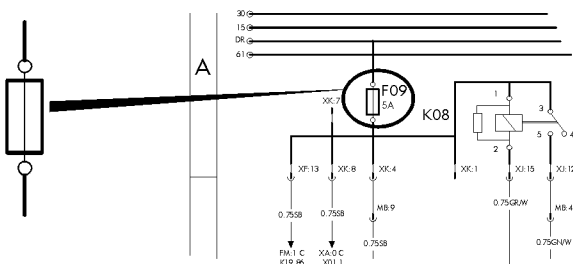
Coordinates (B 1).



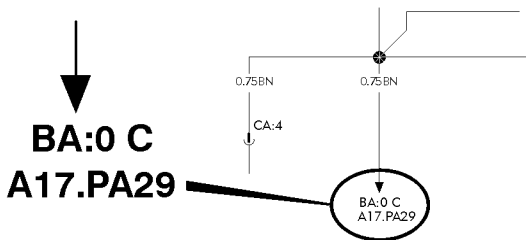
30 Voltage battery, kl.30.
15 Voltage with starter key in drive position, kl.15.
DR Voltage with starter key in drive position, preheat position and start position, kl.DR.
61 Voltage when alternator charges, kl.61.



Splice.

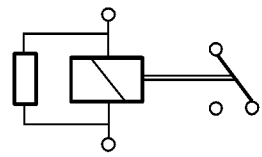
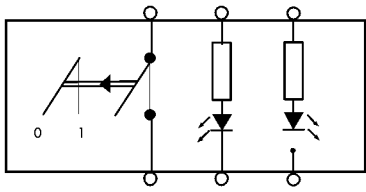
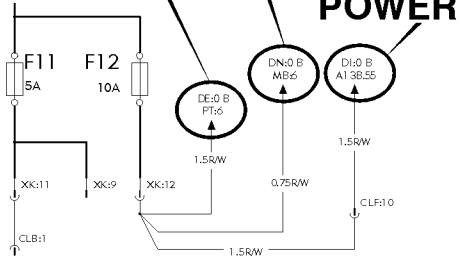


Fuse.



Reference arrow, for diagram BA, coordinates 0 C, component A17, connector PA pin 29.

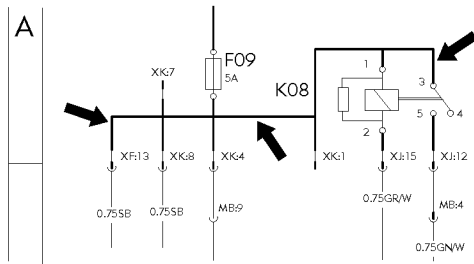
GEARTRONIC
I-SHIFT
POWERTRONIC



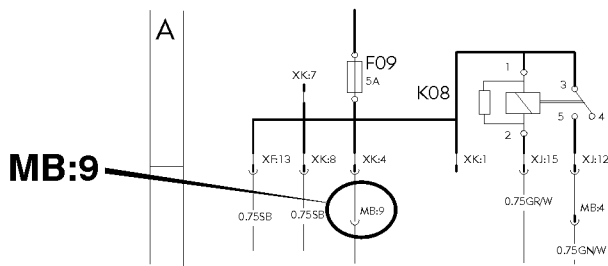
The maximum of variants are drawn, think about that all wires and components are not standard for all markets or vehicle models.

Switch.

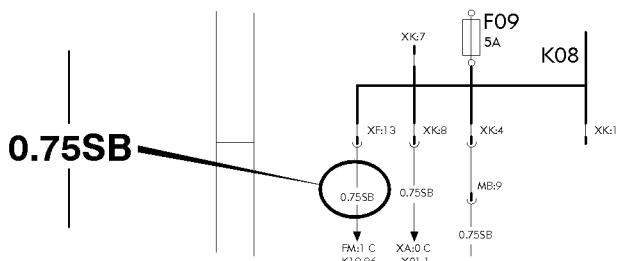
Relay.



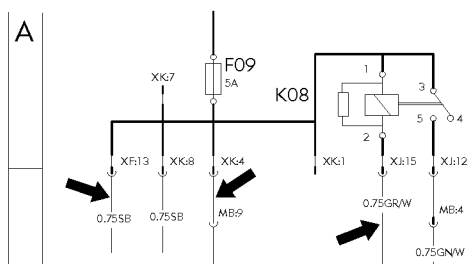
Conductor on circuit card.



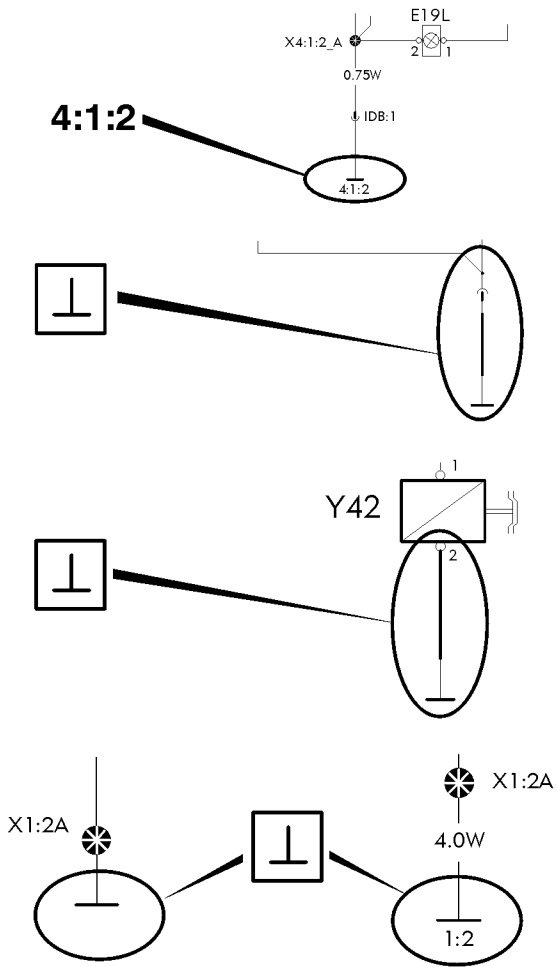
Connector MB terminal 9.



Wire area and colour.



Thin lines, wires.



Earth connection point 4, earth connection 1 and wire 2.

Earth connection to circuit card.

Earth connection without wire.

Same splice can be drawn on several diagrams. The wire from the splice to the earth connection point will only be drawn and coded on one diagram. On the other diagrams will only the earth connection point be written besides the splice.

Component wiring diagram index

AA	Power supply, starting system	page 8
AB	Remote main switch	page 9
AC	Power distribution	page 10
AE	ADR, main switch	page 11
BA	Vehicle ECU	page 12
BE	ACC Adaptive cruise control	page 13
BI	Instrument cluster	page 14
BM	Tachograph in dash	page 15
BN	Tachograph in shelf	page 16
BU	Dynafleet	page 17
BX	FMS Gateway	page 18
BY	Volvo link (VERS-SAM)	page 19
CM	Engine interface	page 20
CO	Engine D9	page 21
	Engine D12	page 22
	Engine D16	page 23
CP	ISX functions, 12V trailer ABS converter (AUS only)	page 24
CS	Engine ISX (AUS only)	page 25
DB	Gear selector ECU (GEARTRONIC)	page 26
DC	Gear selector ECU (I-SHIFT/POWERTRONIC)	page 27
DE	Geartronic automatic gearshift	page 28
DI	Powertronic	page 29
DM	Retarder manual gearshift	page 30
DN	I-shift	page 31
DQ	Power take off	page 32
DU	Diff-lock	page 33
EE	ABS basic, D-version	page 34
EI	ABS/ASR D-version	page 35
EO	EBS ECU	page 36
EP	EBS modulators	page 37
FA	Air-suspension	page 38
FG	Load indikator	page 39
FI	Bogie lift A-ride	page 40
FK	Bogie lift A-ride with axle load limiter	page 41
FM	Axle lock, self steered axle	page 42
FO	Electronic steered axle	page 43
FP	Hydraulic steered axle	page 44

FQ	Air dryer	page 45
FU	Central lubrication system	page 46
GA	LCM head lights	page 47
GB	LCM trailer	page 48
GC	LCM rear lights	page 49
GD	HID lamps	page 50
GE	Rear lights overhang	page 51
GF	Rear lights, India/Korea	page 52
GG	Trailer connections, RIGID	page 53
GH	Trailer connections, TRACTOR	page 54
GI	LCM head lights (VERS-SAM TYPE-N)	page 55
GK	Trailer connections (AUS only)	page 56
GM	Wiper, washer	page 57
GQ	Horn	page 58
GU	Headlights adjust	page 59
HG	Climate unit, CU,-BAS,-MCC,-ECC	page 60
HI	Air heater	page 61
HM	Water heater	page 62
HP	Short stop cab heater	page 63
HY	Climat unit, CU,-HEAT,-ACMAN,-ACAUT.	page 64
HZ	Air cooler, Brazil	page 65
IA	El. heated/adj. seat	page 66
IE	El. heat/adj. mirrors, El. window winders	page 67
IF	Foldable mirror bracket	page 68
IH	Interior light	page 69
IM	Central locking, immobiliser	page 70
IQ	El. sunroof, cig. lighter, refrigerator	page 71
IR	12V power supply	page 72
IS	SWM, SRS. Air-bag	page 73
IU	Radio	page 74
IX	Integrated telephone	page 75
IZ	Backup camera	page 76
KA	Cab tilt	page 77
KE	Load light, 5:th wheel lamp	page 78
KI	Light sign	page 79
KM	Beacon warning light	page 80
ME	Extra fuse block, key switch relay	page 81
NA	Body builder (BB), auxsw-6 and swapbody	page 82

NC	Body builder (BB), ELCE-CK, BBM, PTO2	page 83
NI	Extra spotlamps front/roof, max 4x70W	page 84
NK	Burglar alarm	page 85
NU	Body builder (BB), DUAL-SPEED	page 86
OA	Tyre pressure monitoring (TPM)	page 87
XA	Bus J1708/J1587	page 88
XB	Bus J1939	page 89

Please Click Here To Download The Complete Manual
Download Other Manuals
If Having Any Questions Feel Free To Contact us

admin@servicemanualbit.com