

Service Manual Trucks

Group **37**

Version **02**

Wiring diagram

FM7, FM10, FM12 LHD

To be inserted into the binders for FM, FH.

Foreword

The descriptions and service procedures contained in this manual are based on designs and methods studies carried out up to December 1998.

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 situation, handling or circumstance which should be observed.

Important: Indicates a situation, handling or circumstance which should be emphasized so as not to lead to personal injury or damage to property.

Caution: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or damage to property.

Warning: Indicates a potentially hazardous situation which, if not avoided, could result in death, serious injury or major damage to property.

Danger: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

Volvo Truck Corporation

Göteborg, Sweden

The following information will be superseded by this manual:

SM Group 37 TSP 21847

Order number: TSP127085

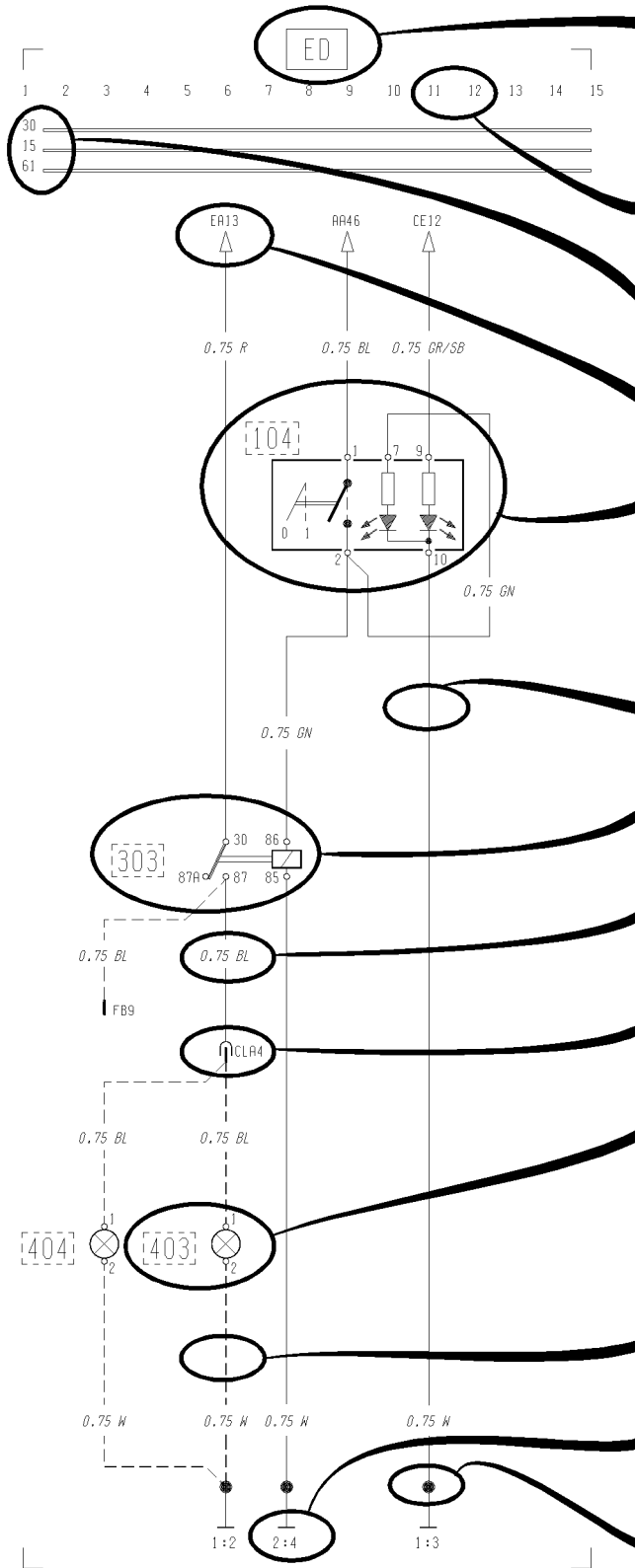
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Example of wiring diagram



Refer to the list of contents for the designation of the circuit diagram. If the circuit diagram designation is boxed in with broken lines this means that the circuit diagram is not standard on all market or vehicle models.

Seek column.

30 Voltage battery, kl.30.
 15 Voltage with starting key in drive position, kl.15.
 61 Voltage when alternator charges, kl.61.

Reference arrow (for circuit diagram EA, seek column 13).

Switch, comp. no. (104).

Single lines, cables.

Relay, comp. no. (303).

Cable area and colour (0.75 mm² blue).

Connector (CLA terminal 4).

Bulb, comp. no. (403)
 A broken line box round the component number shows that the component is not standard on all markets or vehicle models.

If the line is broken this means the cable is not standard on all markets or vehicle model.

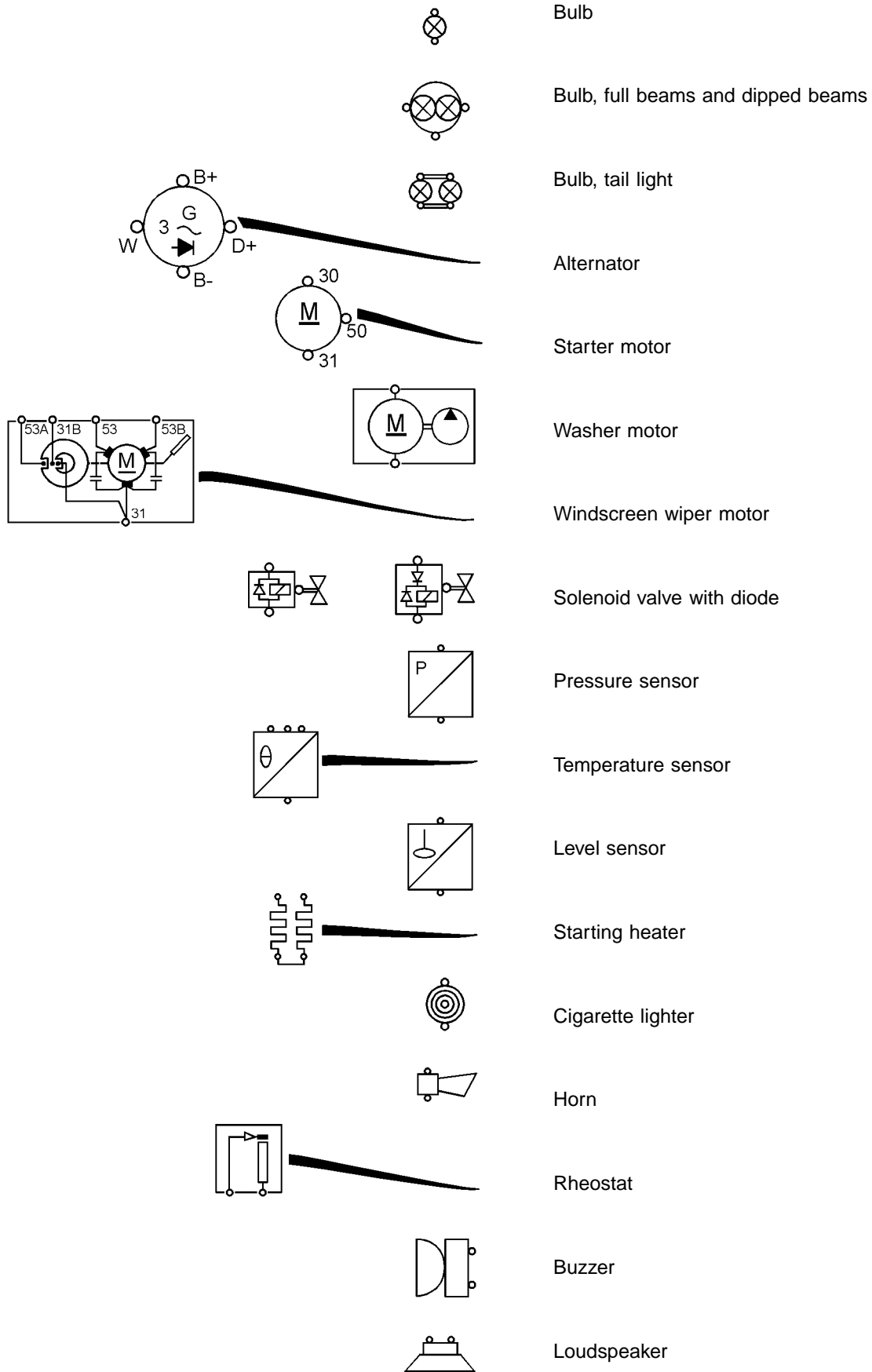
Earth connection point no: 2. and earth terminal no: 4. (see diagram Earth Connections).

Joint sleeve.

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Examples of symbols on wiring diagram

| | |
|--------------------------------------------|---------------------------------------------|
| | <p>Battery</p> |
| | <p>Connector</p> |
| | <p>Junktion</p> |
| | <p>Fuse</p> |
| | <p>Joint sleeve</p> |
| | <p>Cable</p> |
| | <p>Twisted cables</p> |
| | <p>Conductor on circuit card</p> |
| | <p>Earth connection and cable</p> |
| | <p>Switch</p> |
| | <p>Switch, starting switch</p> |
| | <p>Closing kontakt</p> |
| | <p>Closing kontakt, pressure-regulated</p> |
| | <p>Break kontakt, temperature-regulated</p> |
| | <p>Closing kontakt, time-regulated</p> |
| | <p>Slip kontakt, horn</p> |
| <p>Relay</p> | |
| <p>Relay with internal circuit diagram</p> | |



T3009610

Component wiring diagram index

| | | |
|-----------|-----------------------------------------------------------|---------|
| AA | Power supply, starting system, immobiliser | page 7 |
| AC | Vehicle ECU | page 8 |
| BJ | Engine ECU, fuel injection system, preheating, FM7 | page 9 |
| BL | Engine ECU, fuel injection system, preheating, FM12 | page 10 |
| BM | Engine ECU, fuel injection system, preheating, FM10 | page 11 |
| CE | Head light, parking light, marker light, DRL | page 12 |
| CG | Fog light, rear fog light | page 13 |
| CH | Spot light (STD) DRIVL2 | page 14 |
| CI | Spot light (EU) DRIVL2EC | page 14 |
| CK | Brake light | page 15 |
| CL | Trailer controlled exhaust brake | page 15 |
| CN | Direction indicator, hazard warning light | page 16 |
| EA | Reversing light, reversing warning alarm | page 16 |
| ED | Loading light, fifth wheel light | page 17 |
| EJ | Roof sign light, L1H1/L2H1 | page 17 |
| EK | Roof sign light, L2H2 | page 17 |
| ER | Interior light, L1H1/ L2H1, alarm clock/timer | page 18 |
| ES | Interior light, L2H2, alarm clock/timer | page 19 |
| EV | Cigarette lighter | page 20 |
| EX | 12 V power supply | page 20 |
| FA | Horn | page 20 |
| GA | Wiper, washer | page 21 |
| HA | Climate unit | page 22 |
| HB | Cab heater, EBERSPÄCHER D1LCC, PH-CAB | page 23 |
| HC | Cab and engine heater, WEBASTO THERMO 90, PH-ENGCA | page 24 |
| HD | Short stop cabheater | page 24 |
| HE | Electrically heated and adjusted seat | page 25 |
| HG | Electrically heated mirrors | page 25 |
| HH | Electrically operated mirrors | page 26 |
| HK | Air dryer | page 26 |
| HM | Fuel filter heater | page 26 |
| HP | Electrically cab tilt | page 27 |
| JA | Radio | page 27 |
| KA | Electrically operated window winders | page 28 |

| | | |
|-----------|-------------------------------------------------------------|---------|
| KE | SRS, air-bag | page 28 |
| KH | Central door lock | page 29 |
| LD | Power take-off | page 29 |
| LE | Double power take-off | page 30 |
| LG | Differential lock | page 30 |
| LJ | Bogie lift, tag axle lock, RADT-LA | page 31 |
| LL | Tag axle lock, RADT-A6S | page 31 |
| LO | Geartronic, automatic gearshift | page 32 |
| LP | Powertronic | page 33 |
| LS | GLU, gear selector, Geartronic | page 34 |
| MA | Bogie lift hydraulic, RADT-AR | page 35 |
| MD | Bogie lift hydraulic, with axle load limiter, RADT-AR | page 36 |
| ME | Air suspension, 6x2/6x4/8x2/8x4, SUSPL-EC | page 37 |
| MF | Air suspension, 4x2, SUSPL-EC | page 38 |
| MG | Rear air suspension, 4x2, TRACTOR, SUSPL-EC | page 39 |
| NA | Instrument LHS module | page 40 |
| NB | Instrument central module with tachograph | page 41 |
| NC | Instrument RHS module | page 42 |
| NX | Dynafleet | page 43 |
| NZ | Instrument central module without tachograph | page 44 |
| OA | Basic ABS, D-version | page 45 |
| OB | ABS/ASR, D-version | page 46 |
| OG | Retarder, manual gearshift | page 47 |
| PA | Headlight level control | page 48 |
| PD | Dual speed limiter | page 48 |
| TA | Refrigerator | page 49 |
| TB | Central lubrication system | page 49 |
| XA | Extra fuses, key switch relay | page 50 |
| ZA | Earth connections | page 51 |
| ZB | Earth connections | page 52 |
| ZD | ADR battery main switch, current limiter | page 53 |
| ZE | Air heater EBERSPÄCHER D1LCC, TRS | page 54 |
| ZG | Water heater, WEBASTO THERMO 90, TRS | page 55 |

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