Electrical Circuit Diagrams
<table>
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<td>U</td>
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<td>BLAU</td>
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</tr>
</tbody>
</table>
## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1 POWER DISTRIBUTION</strong></td>
<td>6</td>
</tr>
<tr>
<td>300 Tdi</td>
<td>6</td>
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<tr>
<td>Td5</td>
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</tr>
<tr>
<td><strong>2 EARTH DISTRIBUTION</strong></td>
<td>12</td>
</tr>
<tr>
<td><strong>3 ANTI-THEFT ALARM AND CENTRAL DOOR LOCKING</strong></td>
<td>20</td>
</tr>
<tr>
<td><strong>4 ENGINE IMMOBILISATION</strong></td>
<td>24</td>
</tr>
<tr>
<td><strong>5 WINDOWS</strong></td>
<td>26</td>
</tr>
<tr>
<td>Heated</td>
<td>28</td>
</tr>
<tr>
<td><strong>6 SEATS</strong></td>
<td>28</td>
</tr>
<tr>
<td>Heated</td>
<td>28</td>
</tr>
<tr>
<td><strong>10 DIAGNOSTIC SOCKET</strong></td>
<td>30</td>
</tr>
<tr>
<td><strong>15 FUEL PUMP</strong></td>
<td>32</td>
</tr>
<tr>
<td>Td5</td>
<td>32</td>
</tr>
<tr>
<td><strong>15 CHARGING AND STARTING</strong></td>
<td>34</td>
</tr>
<tr>
<td>Td5</td>
<td>34</td>
</tr>
<tr>
<td>300 Tdi</td>
<td>35</td>
</tr>
<tr>
<td><strong>20 ENGINE MANAGEMENT SYSTEM</strong></td>
<td>36</td>
</tr>
<tr>
<td>Td5</td>
<td>36</td>
</tr>
<tr>
<td><strong>35 ANTI-LOCK BRAKING SYSTEM (ABS)</strong></td>
<td>40</td>
</tr>
<tr>
<td><strong>38 AIR CONDITIONING</strong></td>
<td>42</td>
</tr>
<tr>
<td>Td5</td>
<td>42</td>
</tr>
<tr>
<td>300 Tdi</td>
<td>44</td>
</tr>
<tr>
<td><strong>39 HEATER</strong></td>
<td>46</td>
</tr>
<tr>
<td><strong>40 HEATED FRONT SCREEN</strong></td>
<td>48</td>
</tr>
<tr>
<td><strong>40 HEATED REAR SCREEN</strong></td>
<td>50</td>
</tr>
<tr>
<td><strong>42 WIPERS AND WASHERS</strong></td>
<td>52</td>
</tr>
<tr>
<td>Front</td>
<td>52</td>
</tr>
<tr>
<td>Rear</td>
<td>53</td>
</tr>
<tr>
<td><strong>43 EXTERIOR LAMPS</strong></td>
<td>54</td>
</tr>
<tr>
<td>Brake and reverse lamps</td>
<td>54</td>
</tr>
<tr>
<td>Head, side, tail and number plate lamps - 300 Tdi</td>
<td>58</td>
</tr>
<tr>
<td>Head, side, tail and number plate lamps - Td5</td>
<td>62</td>
</tr>
<tr>
<td>Fog lamps - Rear</td>
<td>66</td>
</tr>
<tr>
<td>Headlamp levelling</td>
<td>68</td>
</tr>
<tr>
<td>Direction indicator lamps/hazard warning</td>
<td>69</td>
</tr>
<tr>
<td><strong>44 INTERIOR LAMPS</strong></td>
<td>72</td>
</tr>
<tr>
<td>Anti-theft Alarm</td>
<td>72</td>
</tr>
<tr>
<td><strong>46 INTERIOR ILLUMINATION</strong></td>
<td>76</td>
</tr>
<tr>
<td><strong>47 INSTRUMENTS</strong></td>
<td>78</td>
</tr>
<tr>
<td><strong>48 CLOCK</strong></td>
<td>82</td>
</tr>
<tr>
<td><strong>48 HORN (S)</strong></td>
<td>84</td>
</tr>
<tr>
<td><strong>49 ACCESSORY SOCKET</strong></td>
<td>86</td>
</tr>
<tr>
<td><strong>49 CIGAR LIGHTER</strong></td>
<td>88</td>
</tr>
<tr>
<td><strong>50 AUDIO SYSTEMS</strong></td>
<td>90</td>
</tr>
<tr>
<td><strong>60 HEADER JOINTS</strong></td>
<td>92</td>
</tr>
<tr>
<td><strong>65 SPLICES AND CENTRE TAPS</strong></td>
<td>98</td>
</tr>
<tr>
<td><strong>68 TRAILER SOCKET</strong></td>
<td>106</td>
</tr>
</tbody>
</table>
HOW TO USE THE CIRCUIT DIAGRAMS

All of the information in this folder is intended for use with the Electrical Reference Library booklet.

The circuit diagrams are presented with Power and Earth distribution first, followed by individual circuits for each electrical system on the car.

Power Distribution

The Power Distribution diagram shows the connections from the battery to the engine and passenger compartment fuseboxes. It also shows the internal circuitry of the fuseboxes.

Splices and centre taps

Header and splice tables present the joint(s) and wiring up to the first component. Splices are identified by a number with an alphabetical prefix and the wire colour.

The splice information shown on individual system circuits is not complete. Always refer to the splices circuit for complete information on each splice.

Wire attributes

Additional information (separated by a ',') is shown alongside the wire colour:

Wire gauge - the cross-sectional area of the wire in square millimetres. This is included to help you select the correct wire during harness repair.

Some wires do not have a gauge shown, these wires are of unique construction and will have a three or four letter code printed after the colour code, eg MAB. The code identifies the type of wire for manufacturing purposes. Usually, only the first two characters have significance in service, but in some instances the third character also becomes significant, see table.

Earth Distribution

The ground distribution section comprises a number of Headers and Splices tables. These are used in a similar manner to those in Power Distribution; to narrow the search area by checking for fault symptoms in associated circuits.

Wire type

The following table list the wire type codes together with an explanation of their meaning.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>D</td>
<td>Single core DIN wire</td>
</tr>
<tr>
<td>F</td>
<td>Single core flexible wire</td>
</tr>
<tr>
<td>H</td>
<td>Single core high temperature wire</td>
</tr>
<tr>
<td>SA*</td>
<td>Single core resistive wire (0.9 ohms/m)</td>
</tr>
<tr>
<td>SB*, SC*, SD*</td>
<td>Single core dual extruded wire</td>
</tr>
<tr>
<td>SE*, SF*</td>
<td>Single core fusible wire</td>
</tr>
<tr>
<td>MAC, MAD, MAE, MAF, MAG, MAH</td>
<td>Coaxial screened wire</td>
</tr>
<tr>
<td>MB*, MO*, MAK</td>
<td>Single core screened wire</td>
</tr>
<tr>
<td>MC*, MI*, MP*, MQ*, MAB, MAP</td>
<td>Twin core screened wire</td>
</tr>
<tr>
<td>MD*, MJ*, MAM</td>
<td>Twin core ABS sensor wire</td>
</tr>
<tr>
<td>ME*, TA*, TB*, MM*, MN*, MU*, MAI</td>
<td>Twisted pair of wires</td>
</tr>
<tr>
<td>MF*</td>
<td>Heated oxygen sensor (HO2S) screened wire</td>
</tr>
<tr>
<td>MG*</td>
<td>Twin core twisted, screened wire</td>
</tr>
<tr>
<td>MH</td>
<td>four core twisted, screened wire</td>
</tr>
<tr>
<td>MK*</td>
<td>Three core twisted, screened wire</td>
</tr>
<tr>
<td>ML*, MAA, MAR</td>
<td>Four core screened wire</td>
</tr>
<tr>
<td>MR*</td>
<td>Six core screened, flexible wire</td>
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<tr>
<td>MS*</td>
<td>Four core screened, flexible wire</td>
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<td>MT*</td>
<td>Single core screened, flexible wire</td>
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<td>MV*</td>
<td>Twin core flat wire</td>
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<tr>
<td>MW*</td>
<td>Three core round wire</td>
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<td>MX*, MY*</td>
<td>Seven core round wire</td>
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<td>MZ*</td>
<td>Three core screened, flexible wire</td>
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<td>MAJ</td>
<td>Twin core round cable</td>
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<tr>
<td>MQ, MAU</td>
<td>Three core screened wire</td>
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<tr>
<td>MAS</td>
<td>Single core, double sheath wire</td>
</tr>
<tr>
<td>MAT</td>
<td>Double core, double sheath wire</td>
</tr>
<tr>
<td>MAL</td>
<td>SRS wire</td>
</tr>
<tr>
<td>MAN</td>
<td>Twin core braided, screened wire</td>
</tr>
</tbody>
</table>
**How to Use the Circuit Diagrams**

**Wire Length (Power & Earth Distribution only)**
The length of the wire in millimetres. This can be used to locate internal harness splices; look for the shortest wire between the joint and connector. For example, it can be seen that C574-4 is 150mm from joint A82.

**Connectors**

- **Header Joints**
  - Identified by their corresponding connector number with a numbered suffix to indicate the pin-out detail of the wire, i.e. C289-1 identifies connector 289, pin number 1. Wire insulation colour is identified in the normal way. Where wires have a predominant colour with a secondary colour stripe, the main colour is identified first, i.e. LGS - Light Green with a Slate stripe.

- **Line Types**
  - The cup and ball symbol indicates the male and female halves of connector.
    - A. Plug on lead (Flylead) wired directly to the component.
    - B. Connector plugs directly into component.

- **Components**
  - The name or description of the component is shown. A dotted outline indicates that the component is not shown in its entirety.

- **Earth Points**
  - Identified with an eyelet symbol and a connector number, except where components are grounded through their fixings, when only the eyelet is shown.

**Fuses and Diodes**

- Fusible links (A) and current rated fuses (B) are identified as shown. The direction of the arrow in a Diode symbol (C) indicates the direction of current flow. The Zener diode (D) - prevents current flow until a precise voltage is reached.
ANTI-THEFT ALARM AND CENTRAL DOOR LOCKING

Defender (RHD)
3 ANTI-THEFT ALARM AND CENTRAL DOOR LOCKING
AIR CONDITIONING (A/C) (D149)
CLUTCH-COMPRESSOR-AIR CONDITIONING (A/C) (D149)
FAN-CONDENSER (M137)
ENGINE CONTROL MODULE (ECU) (D131)
RELAY MAIN (R100)
RESISTOR-BLOWER MOTOR (G105)
SWITCH-BLOWER MOTOR (S184)
HEADER EARTH (DSO) (K108)
HEADER 0287 (K109)
HEADER 0294 (K109)
HEADER 0287 (K109)
HEADER 0294 (K109)
AIR CONDITIONING

RESISTOR-BLOWER MOTOR (G105)

SWITCH-BLOWER MOTOR (S184)

FAN-CONDENSER (M117)

SWITCH-FAN-AIR CONDITIONING (A/C) (S229)

CLUTCH-COMPRESSOR-AIR CONDITIONING (A/C) (D149)

SWITCH-CLUTCH-AIR CONDITIONING (A/C) (S207)

RESISTOR-BLOWER MOTOR (G105)

SWITCH-BLOWER MOTOR (S184)

FAN-CONDENSER (M117)

SWITCH-FAN-AIR CONDITIONING (A/C) (S229)

CLUTCH-COMPRESSOR-AIR CONDITIONING (A/C) (D149)

SWITCH-CLUTCH-AIR CONDITIONING (A/C) (S207)

RESISTOR-BLOWER MOTOR (G105)

SWITCH-BLOWER MOTOR (S184)

FAN-CONDENSER (M117)

SWITCH-FAN-AIR CONDITIONING (A/C) (S229)

CLUTCH-COMPRESSOR-AIR CONDITIONING (A/C) (D149)

SWITCH-CLUTCH-AIR CONDITIONING (A/C) (S207)
HEATED FRONT SCREEN

BATTERY (P100)
- CD046-1
- B.4S.0
- EARTH (E107)

FUSE BOX UNDER SEAT (P140)
- LINK 5
  - 60 AMP
  - LINK 1
  - 100 AMP

SWITCH-IGNITION (S176)
- C009-1
  - W.6D
  - A29

FUSE BOX-PASSENGER COMPARTMENT (P101)
- FUSE 15
  - 5 AMP

FUSE BOX-SATELLITE (P109)
- FUSE 16
  - 90 AMP

RELAY-HEATED FRONT SCREEN (R098)
- C0894-30
- C0894-85

UNIT-TIMER-HEATED FRONT SCREEN (Q247)
- C1625-2
  - B.5D

HEADER 0285 (K109)
- C0285-10
  - W.6D
  - A637
  - W.6D

HEADER 0289 (K109)
- C0289-10
  - B.1D
  - C0289-11
  - B.1D

HEADER 0296 (K109)
- C0296-1
  - B.4D

HEADER-EARTH (G550) (K108)
- C0297-1
  - EARTH VIA FIXINGS (E110)

SWITCH-OIL PRESSURE (S216)

BATTERY (P100)
- N.13.0
- D0246-1

FUSE BOX-PASSENGER COMPARTMENT (P101)
- FUSE 15
  - 5 AMP

FUSE BOX-SATELLITE (P109)
- FUSE 16
  - 90 AMP

RELAY-HEATED FRONT SCREEN (R098)
- C0894-30
- C0894-85

UNIT-TIMER-HEATED FRONT SCREEN (Q247)
- C1625-2
  - B.5D

HEADER 0285 (K109)
- C0285-10
  - W.6D
  - A637
  - W.6D

HEADER 0289 (K109)
- C0289-10
  - B.1D
  - C0289-11
  - B.1D

HEADER 0296 (K109)
- C0296-1
  - B.4D

HEADER-EARTH (G550) (K108)
- C0297-1
  - EARTH VIA FIXINGS (E110)

SWITCH-OIL PRESSURE (S216)

BATTERY (P100)
- N.13.0
- D0246-1

FUSE BOX-PASSENGER COMPARTMENT (P101)
- FUSE 15
  - 5 AMP

FUSE BOX-SATELLITE (P109)
- FUSE 16
  - 90 AMP

RELAY-HEATED FRONT SCREEN (R098)
- C0894-30
- C0894-85

UNIT-TIMER-HEATED FRONT SCREEN (Q247)
- C1625-2
  - B.5D

HEADER 0285 (K109)
- C0285-10
  - W.6D
  - A637
  - W.6D

HEADER 0289 (K109)
- C0289-10
  - B.1D
  - C0289-11
  - B.1D

HEADER 0296 (K109)
- C0296-1
  - B.4D
INTERIOR LAMPS

BATTERY (P140)
- C010-1
- C066-1
- B,40 D
- EARTH (E107)

FUSE BOX-UNDER SEAT (P140)
- C062-1
- 10 AMP
- 80 AMP

FUSE BOX-SATELLITE (P109)
- C056-1
- FUSE 30
- 5 AMP

HEADER 0287 (K109)
- C0287-17
- C0287-11
- PN,1.0D

(FR INT LAMP)
- C0487-3
- C059-3

LAMP-INTERIOR-FRONT (B100)
- C055-1
- SWITCH-DOOR-RH (S127)
- A1
- LU1D

LAMP-INTERIOR-REAR (B104)
- C055-3
- SWITCH-DOOR-LH (S128)
- A3
- LU1D

SWITCH-DOOR-REAR-RH (S129)
- EARTH VIA FIXINGS (E110)

SWITCH-DOOR-REAR-LH (S130)
- EARTH VIA FIXINGS (E110)

BATTERY (P100)
- FUSE BOX-SATELLITE (P109)
- FUSE BOX-UNDER SEAT (P140)
- HEADER 0287 (K109)
- FUSE BOX-SATELLITE (P109)
- HEADER EARTH (E110)

PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
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- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
- PW,1.0D
ACCESSORY SOCKET

BATTERY (P100)

FUSE BOX UNDER SEAT (P140)

SWITCH-REVERSE LAMP (S103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

BATTERY (P100)

FUSE BOX UNDER SEAT (P140)

SWITCH-REVERSE LAMP (S103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

BATTERY (P100)

FUSE BOX UNDER SEAT (P140)

SWITCH-REVERSE LAMP (S103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)

SOCKET-ACCESSORY (V103)
CIGAR LIGHTER

BATTERY (P108)

FUSE BOX-UNDER SEAT (P140)

SWITCH-IGNITION (S176)

FUSE BOX-PASSENGER COMPARTMENT (P101)

CIGAR LIGHTER-FRONT (J112)

HEADER (K109)

HEADER-EARTH (K108)