SERVICE DIVISION

Frontliners Audiovisual
Service Technical Information

1978-79 M.G. MIDGET
ELECTRICAL CIRCUIT DIAGNOSIS
The purpose of this program and workbook is to take you through a step by step troubleshooting procedure for every electrical circuit in the car. This will be done by relating the components and circuits shown on the wiring diagram to the actual components and circuits in the car. Also included is the location of the components and circuits. Each circuit is color coded in the filmstrip for easy identification. To find a particular circuit, load the projector and advance the film in fast forward until you reach the desired section as indicated by the color of the circuit.
Canada and USA except California Specification
Several of the components listed in this key may not be included in the specification of all models.

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>1</td>
<td>R.H. front side-marker lamp</td>
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<tr>
<td>2</td>
<td>Reverse lamp switch</td>
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<tr>
<td>3</td>
<td>Stop lamp switch</td>
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<tr>
<td>4</td>
<td>R.H. front flasher lamp</td>
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<tr>
<td>5</td>
<td>Horn-push</td>
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<td>Horn</td>
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<td>7</td>
<td>Oil pressure switch</td>
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<td>8</td>
<td>Diode for brake warning</td>
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<tr>
<td>9</td>
<td>R.H. rear side-marker lamp</td>
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<td>10</td>
<td>R.H. rear flasher lamp</td>
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<tr>
<td>11</td>
<td>R.H. tail lamp</td>
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<tr>
<td>12</td>
<td>Stop lamp</td>
</tr>
<tr>
<td>13</td>
<td>R.H. parking lamp</td>
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<tr>
<td>14</td>
<td>Headlamp main beam</td>
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<tr>
<td>15</td>
<td>Headlamp dip beam</td>
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<tr>
<td>16</td>
<td>Direction indicator switch</td>
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<tr>
<td>17</td>
<td>Headlamp dip switch</td>
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<tr>
<td>18</td>
<td>Headlamp flasher switch</td>
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<td>19</td>
<td>Windshield washer pump</td>
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<tr>
<td>20</td>
<td>Coolant temperature transmitter</td>
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<tr>
<td>21</td>
<td>Flasher unit</td>
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<td>22</td>
<td>Brake pressure failure switch</td>
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<td>23</td>
<td>Time delay buzzer</td>
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<td>24</td>
<td>Fuel gauge tank unit</td>
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<tr>
<td>25</td>
<td>Reverse lamp</td>
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<tr>
<td>26</td>
<td>Combined windshield washer and wiper switch</td>
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<tr>
<td>27</td>
<td>Instrument voltage stabilizer</td>
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<td>28</td>
<td>Hazard warning switch</td>
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<td>29</td>
<td>Hand brake switch</td>
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<td>30</td>
<td>Interior courtesy lamp door switch</td>
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<tr>
<td>31</td>
<td>Number-plate illumination lamp</td>
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<td>Windshield wiper motor</td>
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<tr>
<td>33</td>
<td>Fuse unit</td>
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<td>34</td>
<td>Direction indicator warning lamp</td>
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<td>35</td>
<td>Hand brake warning lamp</td>
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<td>36</td>
<td>Ignition starter switch</td>
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<td>37</td>
<td>Switch illumination lamp</td>
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<td>38</td>
<td>Driver's seat belt buckle switch</td>
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<td>39</td>
<td>Interior courtesy lamp</td>
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<tr>
<td>40</td>
<td>Distributor</td>
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<td>41</td>
<td>Alternator</td>
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<td>42</td>
<td>Resistor — distributor</td>
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<td>44</td>
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<td>45</td>
<td>'FASTEN BELTS' warning lamp</td>
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<td>46</td>
<td>Luggage compartment lamp</td>
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<td>47</td>
<td>Ignition coil</td>
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<tr>
<td>48</td>
<td>Panel lamp</td>
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<td>49</td>
<td>Fuel gauge</td>
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<td>Lighting switch</td>
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<td>Luggage compartment lamp switch</td>
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<td>52</td>
<td>L.H. parking lamp</td>
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<td>53</td>
<td>L.H. front flasher lamp</td>
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<tr>
<td>54</td>
<td>Starter solenoid</td>
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<tr>
<td>55</td>
<td>Headlamp main beam warning lamp</td>
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<tr>
<td>56</td>
<td>Coolant temperature gauge</td>
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<td>57</td>
<td>Hazard warning flasher unit</td>
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<td>58</td>
<td>Ignition key audible warning door switch</td>
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<tr>
<td>59</td>
<td>Cigar lighter</td>
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<tr>
<td>60</td>
<td>Cigar lighter illumination lamp</td>
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<td>61</td>
<td>L.H. front side-marker lamp</td>
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<td>63</td>
<td>Starter motor</td>
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<td>65</td>
<td>Heater motor switch</td>
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<td>66</td>
<td>Tachometer</td>
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<td>67</td>
<td>Heater control illumination lamp</td>
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<td>68</td>
<td>Panel lamp switch</td>
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<td>69</td>
<td>Line fuse for hazard warning</td>
</tr>
<tr>
<td>70</td>
<td>Line fuse for radio*</td>
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<tr>
<td>71</td>
<td>Radio*</td>
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<td>72</td>
<td>L.H. rear flasher lamp</td>
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<tr>
<td>73</td>
<td>L.H. tail lamp</td>
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<tr>
<td>74</td>
<td>L.H. rear side-marker lamp</td>
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</table>

"Optional fitment circuits shown dotted"

**CABLE COLOR CODE**

<table>
<thead>
<tr>
<th>R.</th>
<th>Red</th>
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<tbody>
<tr>
<td>B.</td>
<td>Black</td>
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<tr>
<td>N.</td>
<td>Brown</td>
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<tr>
<td>P.</td>
<td>Purple</td>
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<tr>
<td>G.</td>
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<tr>
<td>W.</td>
<td>White</td>
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<tr>
<td>Y.</td>
<td>Yellow</td>
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<tr>
<td>K.</td>
<td>Pink</td>
</tr>
<tr>
<td>O.</td>
<td>Orange</td>
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<tr>
<td>LG.</td>
<td>Light Green</td>
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<tr>
<td>S.</td>
<td>Slate</td>
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</table>

When a cable has two color code letters the first denotes the main color and the second denotes the tracer color.

**KEY**
33  Fuse unit
36  Ignition starter switch
54  Starter solenoid
62  Battery

IGNITION FEED CIRCUIT
14 Headlamp main beam  
15 Headlamp dip beam  
16 Direction indicator switch  
33 Fuse unit  
50 Lighting switch  
54 Starter solenoid  
55 Headlamp main beam warning lamp  
62 Battery  

HEADLIGHT CIRCUITS
14 Headlamp main beam
15 Headlamp dip beam
16 Direction indicator switch
33 Fuse unit
50 Lighting switch

54 Starter solenoid
62 Battery

HEADLIGHTS
14 Headlamp main beam
16 Direction indicator switch
33 Fuse unit
54 Starter solenoid
62 Battery

HIGH BEAM FLASHER
16 Direction indicator switch
50 Lighting switch
54 Starter solenoid
55 Headlamp main beam warning lamp
62 Battery

HIGH BEAM WARNING LIGHT
RUNNING LIGHT
CIRCUITS

1  R.H. front side-marker lamp
9  R.H. rear side-marker lamp
11  R.H. tail lamp
13  R.H. parking lamp
31  Number-plate illumination lamp
33  Fuse unit
50  Lighting switch
52  L.H. parking lamp
54  Starter solenoid
61  L.H. front side-marker lamp
62  Battery
67  Heater control lamp
68  Panel lamp switch
1  R.H. front side-marker lamp  33  Fuse unit  
9  R.H. rear side-marker lamp  50  Lighting switch  
11  R.H. tail lamp  54  Starter solenoid  
13  R.H. parking lamp  62  Battery  
31  Number-plate illumination lamp  

RIGHT PARKING, TAIL & MARKER LIGHTS
37 Switch illumination lamp  60 Cigar-lighter illumination lamp
48 Panel lamp           62 Battery
50 Lighting switch      67 Heater control illumination lamp
54 Starter solenoid     68 Panel lamp switch

PANEL LIGHTS
1. R.H. Front Flasher lamp
2. R.H. rear flasher lamp
3. Direction indicator switch
4. Flasher unit
5. Direction indicator warning lamp
6. Ignition starter switch
7. Hazard warning switch
8. L.H. front flasher lamp
9. Starter solenoid
10. L.H. rear flasher lamp
4 R.H. front flasher lamp
10 R.H. rear flasher lamp
34 Direction indicator warning lamp
28 Hazard warning switch
53 L.H. front flasher lamp

54 Starter solenoid
57 Hazard warning flasher unit
57 Battery
69 Line fuse for hazard warning
72 L.H. rear flasher lamp

HAZARD WARNING
BRAKE, BRAKE WARNING & REVERSE LIGHTS

2 Reverse lamp switch
3 Stop lamp switch
8 Diode for brake warning
12 Stop lamp
19 Windscreen washer pump
22 Brake pressure failure switch
23 Time delay buzzer
25 Reverse lamp
27 Instrument voltage stabilizer
29 Hand brake switch
35 Hand brake warning lamp
15

3 Stop lamp switch  54 Starter solenoid
12 Stop lamp  62 Battery
19 Windscreen washer pump
33 Fuse unit
36 Ignition starter switch

BRAKE LIGHTS
8 Diode for brake warning
33 Fuse unit
35 Hand brake warning lamp
36 Ignition starter switch
54 Starter solenoid
62 Battery

IGNITION TO START
27 Instrument voltage stabilizer
29 Hand brake switch
33 Fuse unit
35 Hand brake warning lamp
36 Ignition starter switch
54 Starter solenoid
62 Battery

HAND BRAKE
8  Diode for brake warning  54  Starter solenoid
22  Brake pressure failure switch  62  Battery
33  Fuse unit
35  Hand brake warning lamp
36  Ignition starter switch
2 Reverse lamp switch
23 Time delay buzzer
25 Reverse lamp
33 Fuse unit
36 Ignition starter switch

54 Starter solenoid
62 Battery

REVERSE LIGHTS
30  Interior courtesy lamp door switch  
33  Fuse unit  
39  Interior courtesy lamp  
46  Luggage compartment lamp  
51  Luggage compartment lamp switch  
54  Starter solenoid  
62  Battery  

TRUNK, INTERIOR LIGHT CIRCUITS
33 Fuse unit
46 Luggage compartment lamp
51 Luggage compartment lamp switch
54 Starter solenoid
62 Battery

TRUNK LIGHT
30 Interior courtesy lamp door switch
33 Fuse unit
39 Interior courtesy lamp
54 Starter solenoid
62 Battery
23  Time delay buzzer
33  Fuse unit
54  Starter solenoid
62  Battery

DIRECT TO BATTERY
8 Diode for brake warning
23 Time delay buzzer
33 Fuse unit
36 Ignition starter switch
54 Starter solenoid

MOMENTARY IGNITION FEED
SEAT BELT WARNING

23  Time delay buzzer
33  Fuse unit
36  Ignition starter switch
45  'FASTEN BELTS' warning lamp
54  Starter solenoid

62  Battery
23 Time delay buzzer

GROUND
23  Time delay buzzer
38  Driver's seat belt buckle switch

SEAT BELT BUCKLE
IGNITION KEY AUDIBLE WARNING

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
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<tbody>
<tr>
<td>23</td>
<td>Time delay buzzer</td>
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<tr>
<td>36</td>
<td>Ignition starter switch</td>
</tr>
<tr>
<td>58</td>
<td>Ignition key audible warning door switch</td>
</tr>
</tbody>
</table>
20 Coolant temperature transmitter
24 Fuel gauge tank unit
27 Instrument voltage stabilizer
33 Fuse unit
36 Ignition starter switch

47 Ignition coil
48 Panel lamp
49 Starter solenoid
54 Battery
62 Tachometer

INSTRUMENTATION CIRCUITS
HORN/, HEATER/DEFROSTER, WINDSHIELD WIPER/WASHER CIRCUITS

6 Horn
16 Direction indicator switch
19 Windshield washer pump
26 Combined windshield washer and wiper switch

32 Windshield wiper motor
36 Ignition starter switch
54 Starter solenoid
64 Heater motor
65 Heater motor switch
6 Horn
16 Direction indicator switch
33 Fuse unit
54 Starter solenoid
62 Battery
33 Fuse unit
36 Ignition starter switch
54 Starter solenoid
62 Battery
64 Heater motor
65 Heater motor switch
19 Windscreen washer pump
26 Combined windscreen washer and wiper switch
32 Windscreen wiper motor
33 Fuse unit
36 Ignition starter switch
54 Starter solenoid
62 Battery

WIPER WASHER