ELECTRICAL CIRCUIT DIAGRAM MANUAL

Electrical Circuit Diagram Manual

3200
RXT
DuraStar® - 4100, 4300, 4400
TranStar® Natural Gas (NG)
TranStar® - 8500, 8600
WorkStar® - 7300, 7400, 7500, 7600, 7700

Navistar, Inc.
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2.1. ABBREVIATIONS, P. 1

Figure 1 Abbreviations
## 2.2. ACRONYMS, P. 2

### Figure 2  Acronyms

<table>
<thead>
<tr>
<th>Description</th>
<th>Acronym</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heavy Duty Diesel</td>
<td>HDD</td>
</tr>
<tr>
<td>High Performance Truck</td>
<td>HPT</td>
</tr>
<tr>
<td>Heating, Ventilation, and Air Conditioning</td>
<td>HVAC</td>
</tr>
<tr>
<td>Injector Drive Module</td>
<td>IDB</td>
</tr>
<tr>
<td>Integrated Mobile Communication Terminal</td>
<td>IMCT</td>
</tr>
<tr>
<td>Instrument Panel</td>
<td>I/P</td>
</tr>
<tr>
<td>Independent Power Take-Off</td>
<td>IPTO</td>
</tr>
<tr>
<td>International Big Bore Engine</td>
<td>IBBE</td>
</tr>
<tr>
<td>Light Commercial Transmission</td>
<td>LCT</td>
</tr>
<tr>
<td>Low Pressure Module</td>
<td>LPM</td>
</tr>
<tr>
<td>Medium Duty</td>
<td>MD</td>
</tr>
<tr>
<td>Malfunction Indication Lamp</td>
<td>MIL</td>
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<tr>
<td>Multiplex Switch Module</td>
<td>MSW</td>
</tr>
<tr>
<td>Pyrometer Ammeter Module</td>
<td>PMH</td>
</tr>
<tr>
<td>Power Distribution Center</td>
<td>PDC</td>
</tr>
<tr>
<td>Programmable Logic Controller</td>
<td>PLC</td>
</tr>
<tr>
<td>Power Take-Off</td>
<td>PTU</td>
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<tr>
<td>Power Transfer</td>
<td>PTO</td>
</tr>
<tr>
<td>Pulse Width Modulation</td>
<td>PWM</td>
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<tr>
<td>Rear Axle</td>
<td>RA</td>
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<tr>
<td>Radio Frequency</td>
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<td>Roll Stability Program</td>
<td>RSP</td>
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<td>Severe Service</td>
<td>SS</td>
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<td>TCM</td>
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<tr>
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<td>TCU</td>
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<td>Terrestrial Mobile Communication Terminal</td>
<td>TMCT</td>
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<tr>
<td>Thermal Overload Protection</td>
<td>TOP</td>
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<tr>
<td>Throttle Position Sensor</td>
<td>TPS</td>
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<tr>
<td>World Transmission</td>
<td>WTC</td>
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<tr>
<td>Vehicle Speed Output</td>
<td>VSO</td>
</tr>
<tr>
<td>Vehicle Speed Sensor</td>
<td>VSS</td>
</tr>
<tr>
<td>Zero Volt Reference</td>
<td>ZVR</td>
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<tr>
<td>Vehicle Speed Output</td>
<td>VSO</td>
</tr>
<tr>
<td>Vehicle Speed Sensor</td>
<td>VSS</td>
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<td>Zero Volt Reference</td>
<td>ZVR</td>
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**Table:**

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</tr>
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<td>D341</td>
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<td>INITIAL RELEASE</td>
<td>8128003</td>
<td>INITIAL RELEASE</td>
<td>A</td>
</tr>
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</table>
2.3. CIRCUIT DIAGRAM INSTRUCTIONS, P. 3

A - SWITCH AND RELAY POSITIONS AS SHOWN ON CIRCUIT DIAGRAMS INDICATE NORMAL POSITION WITH IGNITION OFF UNLESS OTHERWISE NOTED.

B - MULTIPLE CONNECTIONS ARE DISPLAYED ON SCHEMATIC AS SHOWN WITH R/D NUMBER & CAVITY NUMBER. REFER CONNECTOR COMPOSITE FOR MORE INFORMATION.

C - PHANTOM LINES INDICATE PRINTED CIRCUITS OR BUSSED CIRCUITS. THESE CIRCUITS EXIST IN THE INSTRUMENT CLUSTER AND FUSE / CIRCUIT BREAKER CONNECTORS.

D - MULTIPLE CIRCUIT NUMBERS ON A LINE INDICATE ONE CIRCUIT DISTRIBUTING CURRENT TO TWO CIRCUITS.

E - SWITCHES, RELAYS AND COMPONENTS INDICATE EXTERNAL WIRE CONNECTIONS AND / OR INTERNAL CONNECTIONS OR CONTACTS.

F - CIRCUIT "11" DENOTES ANY COMMON GROUND (MORE THAN ONE CIRCUIT). ANY INDIVIDUAL GROUND CIRCUIT IS IDENTIFIED WITH THAT PARTICULAR CIRCUIT NUMBER. E.G. CIRCUIT 12 (BODY CONTROL IS IDENTIFIED AS PER EXAMPLE):
# 2.4. CIRCUIT NUMBER IDENTIFICATION AND COLOR, P. 4

## Table of Circuit Numbers and Colors

<table>
<thead>
<tr>
<th>Circuit Number</th>
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<th>Description</th>
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<tr>
<td>1</td>
<td>LTBL</td>
<td>Alternator-Field</td>
</tr>
<tr>
<td>2</td>
<td>RD</td>
<td>Alternator-Charge</td>
</tr>
<tr>
<td>3</td>
<td>DKBL</td>
<td>Serial / Data Communication J1587 / J1708 (+)</td>
</tr>
<tr>
<td>4</td>
<td>GY</td>
<td>Serial / Data Communication J1587 / J1708 (-)</td>
</tr>
<tr>
<td>5</td>
<td>DKBL</td>
<td>Serial / Data Communication J1922 (+)</td>
</tr>
<tr>
<td>6</td>
<td>GY</td>
<td>Serial / Data Communication J1922 (-)</td>
</tr>
<tr>
<td>7</td>
<td>YL</td>
<td>Serial / Data Communication J1939/11 / J1939/15 (+)</td>
</tr>
<tr>
<td>8</td>
<td>GN</td>
<td>Serial / Data Communication J1939/11 / J1939/15 (-)</td>
</tr>
<tr>
<td>9</td>
<td>GY</td>
<td>Low Voltage Electronic Feed (Less than 9 Volts)</td>
</tr>
<tr>
<td>10</td>
<td>RD</td>
<td>Alternator-Resistance</td>
</tr>
<tr>
<td>11</td>
<td>GY</td>
<td>Lead Volt Reference (Y49)</td>
</tr>
<tr>
<td>12</td>
<td>LTBL</td>
<td>Chassis / Engine Ground</td>
</tr>
<tr>
<td>13</td>
<td>PK</td>
<td>Cab / Sleeper Ground</td>
</tr>
<tr>
<td>14</td>
<td>LTBL</td>
<td>Accessory Feed</td>
</tr>
<tr>
<td>15</td>
<td>BK</td>
<td>Ignition Feed</td>
</tr>
<tr>
<td>16</td>
<td>RD</td>
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<td>17</td>
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<td>Battery Feed</td>
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<td>18</td>
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<td>Day Switch Feed</td>
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<td>19</td>
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<td>LTGN</td>
<td>Glow Plug / Preheater</td>
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<td>21</td>
<td>TN</td>
<td>Electric Choke</td>
</tr>
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<td>TN</td>
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</tr>
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<td>TN</td>
<td>Engine Fan / Shutter</td>
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<td>Instrument &amp; Gauges</td>
</tr>
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<td>30</td>
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<td>Water Temperature</td>
</tr>
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<td>Oil Temperature</td>
</tr>
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<td>32</td>
<td>TN</td>
<td>Transmission Oil Temperature</td>
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<td>33</td>
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<td>Axle Oil Temperature</td>
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<td>Engine Oil Level</td>
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<td>36</td>
<td>TN</td>
<td>Engine Oil Pressure</td>
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<td>Fuel Level</td>
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<td>38</td>
<td>TN</td>
<td>Fuel Pump</td>
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<tr>
<td>39</td>
<td>GY</td>
<td>Oil Level</td>
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<tr>
<td>40</td>
<td>GY</td>
<td>Oil Pressure Warning</td>
</tr>
</tbody>
</table>

![Figure 4](image_url)  
**Figure 4**  
Circuit Number Identification and Color
### Circuit Number Identification and Color (Cont.)

<table>
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<th>Circuit Number</th>
<th>Color</th>
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<td>41</td>
<td>TN</td>
<td>Air Temperature</td>
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<td>42</td>
<td>GY</td>
<td>Front Brake Pedal</td>
</tr>
<tr>
<td>43</td>
<td>GY</td>
<td>Rear Brake Warning</td>
</tr>
<tr>
<td>44</td>
<td>LTGN</td>
<td>Anti-Theft Warning</td>
</tr>
<tr>
<td>45</td>
<td>GY</td>
<td>Power Divider Lock (PDL) Warning</td>
</tr>
<tr>
<td>46</td>
<td>GY</td>
<td>Park Brake Warning</td>
</tr>
<tr>
<td>47</td>
<td>GY</td>
<td>Power Takeoff Warning</td>
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<td>48</td>
<td>GY</td>
<td>Speedometer</td>
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<tr>
<td>49</td>
<td>GY</td>
<td>Tachometer</td>
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<tr>
<td>50</td>
<td>YL</td>
<td>Differential Lock Warning</td>
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<td>YL</td>
<td>Antitheft Warning</td>
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<td>Headlight Hi - Beam</td>
</tr>
<tr>
<td>53</td>
<td>YL</td>
<td>Headlight Lo - Beam</td>
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<td>54</td>
<td>YL</td>
<td>Turn Signal Lights - Left</td>
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<tr>
<td>55</td>
<td>OR</td>
<td>Dimmer Switch Feed</td>
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<tr>
<td>56</td>
<td>OR</td>
<td>Left Side Warning Lights</td>
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<tr>
<td>57</td>
<td>OR</td>
<td>Right Side Warning Lights</td>
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<tr>
<td>58</td>
<td>BN</td>
<td>Clearance / Identification Lights</td>
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<td>59</td>
<td>OR</td>
<td>Stop Lights (Body Builder Connection)</td>
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<td>Side Warning Lights</td>
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<td>62</td>
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<td>63</td>
<td>OR</td>
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<td>66</td>
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<td>Back-Up Lights (Body Builder Connection)</td>
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<td>68</td>
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<td>69</td>
<td>OR</td>
<td>License Plate Light</td>
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<td>70</td>
<td>OR</td>
<td>Rear Turn Signal Lights (Body Builder Connection)</td>
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<td>71</td>
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<td>Rear Turn Signal Lights (Body Builder Connection)</td>
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<td>72</td>
<td>OR</td>
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</tr>
<tr>
<td>73</td>
<td>OR</td>
<td>Hand Controls - Feed</td>
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<tr>
<td>74</td>
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<td>Hand Controls - Feed</td>
</tr>
<tr>
<td>75</td>
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<td>Hand Controls - Feed</td>
</tr>
<tr>
<td>76</td>
<td>OR</td>
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<tr>
<td>77</td>
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<tr>
<td>78</td>
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<td>79</td>
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<tr>
<td>80</td>
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<td>Hand Controls - Feed</td>
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</table>

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Figure 5 Circuit Number Identification and Color (Cont.)
### 2.6. CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.), P. 6

#### INTERNATIONAL TRUCK AND ENGINE CORPORATION

**Chapter 2**

**Electrical Circuit Diagram**

**Circuit Number Identification and Color (Cont.)**

<table>
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<th>Circuit Number</th>
<th>Color Code</th>
<th>Description</th>
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<td>LTGN</td>
<td>Power Door Locks</td>
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<td>82</td>
<td>GY</td>
<td>Windshield Wiper</td>
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<td>83</td>
<td>LTGN</td>
<td>Power Windows</td>
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<td>LTGN</td>
<td>Side Lighter</td>
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<td>85</td>
<td>GY</td>
<td>Horn</td>
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<td>86</td>
<td>LTGN</td>
<td>Radio - Entertainment / Clock</td>
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<td>87</td>
<td>LTGN</td>
<td>Chime / Horn</td>
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<td>GY</td>
<td>Air Bag</td>
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<td>LTGN</td>
<td>Hydraulic Brake Pump</td>
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<tr>
<td>90</td>
<td>VT</td>
<td>Ignition / Reader</td>
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<td>TN</td>
<td>Transmission Controls - Electronic</td>
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<td>TN</td>
<td>Air Bag - Electronic Control Unit</td>
</tr>
<tr>
<td>110</td>
<td>TN</td>
<td>Air Bag - Electronic Control Unit</td>
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<tr>
<td>111</td>
<td>TN</td>
<td>Air Bag - Electronic Control Unit</td>
</tr>
<tr>
<td>112</td>
<td>TN</td>
<td>Air Bag - Electronic Control Unit</td>
</tr>
</tbody>
</table>

**Prefix Location**

- **A**: Cab - Instrument Panel Module
- **B**: Cab - Instrument Panel Module
- **C**: Cab - Instrument Panel Module
- **D**: Cab - Instrument Panel Module
- **E**: Cab - Instrument Panel Module
- **F**: Cab - Instrument Panel Module
- **G**: Cab - Instrument Panel Module
- **H**: Cab - Instrument Panel Module
- **I**: Cab - Instrument Panel Module
- **J**: Cab - Instrument Panel Module
- **K**: Cab - Instrument Panel Module
- **L**: Cab - Instrument Panel Module
- **M**: Cab - Instrument Panel Module
- **N**: Cab - Instrument Panel Module
- **O**: Cab - Instrument Panel Module
- **P**: Cab - Instrument Panel Module
- **Q**: Cab - Instrument Panel Module
- **R**: Cab - Instrument Panel Module
- **S**: Cab - Instrument Panel Module
- **T**: Cab - Instrument Panel Module
- **U**: Cab - Instrument Panel Module
- **V**: Cab - Instrument Panel Module
- **W**: Cab - Instrument Panel Module
- **X**: Cab - Instrument Panel Module
- **Y**: Cab - Instrument Panel Module
- **Z**: Cab - Instrument Panel Module

**Figure 6** Circuit Number Identification and Color (Cont.)

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**Drawn**

- Dated

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**Rev Chk**

- Change

---

**Date**

- Name

---

**Part No.**

- Release No.

---

**Sheet**

- Reference

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**Circuit Diagram, 42/43/44/85/8600 & 73/74/7500**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)**

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CHAPTER 2**

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**CIRCUIT NUMBER IDENTIFICATION AND COLOR (CONT.)"
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### INTERNATIONAL TRUCK AND ENGINE CORPORATION

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**ELECTRICAL CIRCUIT DIAGRAM**

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**LAMP BULB CHART**

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### Table: Lamp Bulb Chart

<table>
<thead>
<tr>
<th>BULB APPLICATION</th>
<th>CANDLEPOWER OR WATT</th>
<th>BULB TRADE NUMBER</th>
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<tbody>
<tr>
<td>BACK-UP LIGHTS</td>
<td>32 CP</td>
<td>GE1156</td>
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<tr>
<td>CANDY, LIPSTICK, BOTTLE</td>
<td>6 CP</td>
<td>GE1156</td>
</tr>
<tr>
<td>COURTESY LIGHT</td>
<td>21 CP</td>
<td>GE1156</td>
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<tr>
<td>CUBE LIGHTS</td>
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<td>CIGARETTE LIGHT</td>
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<tr>
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Figure 7  Lamp Bulb Chart
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Figure 8  Relay Function and Wiring Guide
2.9. SCHEMATIC SYMBOL CHART, P. 9

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**Figure 9**  Schematic Symbol Chart
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#### Table: Schematic Symbols

<table>
<thead>
<tr>
<th>Symbol</th>
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<tbody>
<tr>
<td><img src="image1" alt="Symbol" /></td>
<td>Fuse, Busbar</td>
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<tr>
<td><img src="image2" alt="Symbol" /></td>
<td>Fused Link</td>
</tr>
<tr>
<td><img src="image3" alt="Symbol" /></td>
<td>Ground, Busbar</td>
</tr>
<tr>
<td><img src="image4" alt="Symbol" /></td>
<td>Ground, Busbar</td>
</tr>
<tr>
<td><img src="image5" alt="Symbol" /></td>
<td>Heater</td>
</tr>
<tr>
<td><img src="image6" alt="Symbol" /></td>
<td>Holder, Fuse</td>
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<tr>
<td><img src="image7" alt="Symbol" /></td>
<td>Brace</td>
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</table>

#### Diagram: Schematic Symbol Chart (Cont.)

- **Figure 10**: Schematic Symbol Chart (Cont.)
### 2.11. SCHEMATIC SYMBOL CHART (CONT.), P. 11

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<td>-&gt;</td>
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<tr>
<td>![Motor Symbol]</td>
<td>MOTOR</td>
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<td>![Pass Thru Connection Symbol]</td>
<td>PASS THRU CONNECTION</td>
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<td>![Pressure Switch Symbol]</td>
<td>PRESSURE SWITCH</td>
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<td>![Relay Five Terminal Symbol]</td>
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<td>![Relay Four Terminal Symbol]</td>
<td>RELAY, FOUR TERMINAL</td>
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<td>![Relay Latching Symbol]</td>
<td>RELAY, LATCHING</td>
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<td>![Resistor Symbol]</td>
<td>RESISTOR</td>
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<tr>
<td>![Fuel, Oil, Water Sensor Symbol]</td>
<td>SENSOR - FUEL, OIL, WATER</td>
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<td>![Sensor, Pressure Symbol]</td>
<td>SENSOR, PRESSURE. ABS 6</td>
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<td>![Sensor, Magnetic Symbol]</td>
<td>SENSOR, MAGNETIC</td>
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<td>![Sensor, Yaw Symbol]</td>
<td>SENSOR, YAW</td>
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<td>![Solenoid W/ Diode Symbol]</td>
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</table>

*Figure 11  Schematic Symbol Chart (Cont.)*
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Figure 12  Schematic Symbol Chart (Cont.)
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**IGNITION FEED – RELAY 3**

**NAVISTAR, INC**

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![Electrical Circuit Diagram]

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![Diagram of J1939 Data Link – V8 Engine](image-url)

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Figure 73  J1939 Data Link I6 Engine
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![Diagram of J1939 Data Link I6 Engine (Cont.)](image-url)

Figure 74  J1939 Data Link I6 Engine (Cont.)
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1. WARNING LIGHTS ARE PART OF THE GAUGES AND ARE LOCATED IN THE GAUGE.

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**INTERNATIONAL TRUCK AND ENGINE CORPORATION**

**DRAWN DATE**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 8**

**IP / GAUGES**

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<thead>
<tr>
<th>GAUGE</th>
<th>WARNING LIGHT</th>
<th>SIGNAL PATH</th>
<th>SENSOR LOCATION</th>
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<tr>
<td>RPM (TACH)</td>
<td>NO</td>
<td>ENGINE CTRLR / DRIVE TRAIN J1939 / CLUSTER</td>
<td>ENGINE</td>
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<td>MPH/SPD (GPI)</td>
<td>NO</td>
<td>ENGINE CTRLR / DRIVE TRAIN J1939 / CLUSTER</td>
<td>TRANSMISSION</td>
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<td>VOLT</td>
<td>NO</td>
<td>ENGINE CTRLR / DRIVE TRAIN J1939 / CLUSTER</td>
<td>FUEL TANK</td>
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<td>RPM 1 (TACH)</td>
<td>YES</td>
<td>SYSTEM CTRLR / DRIVE TRAIN J1939 / CLUSTER</td>
<td>INSIDE CAB-DASH</td>
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<td>RPM 2 (TACH)</td>
<td>YES</td>
<td>SYSTEM CTRLR / DRIVE TRAIN J1939 / CLUSTER</td>
<td>STEERING COL AREA</td>
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<td>WATER (TEMP)</td>
<td>YES</td>
<td>ENGINE CTRLR / DRIVE TRAIN J1939 / CLUSTER</td>
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<td>OIL (PRESS)</td>
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<td>YES</td>
<td>SYSTEM CTRLR / DRIVE TRAIN J1939 / CLUSTER</td>
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**Figure 264**  IP / Gauges

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INTERNATIONAL TRUCK AND ENGINE CORPORATION

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ELECTRICAL CIRCUIT DIAGRAM

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<th>Signal Path</th>
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<td>TRAILER ABS</td>
<td>TRAN ABS CTRL / DRIVE TRAINT J1939 / CLUSTER</td>
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<td>WASHER FILTER</td>
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The following warning lights are controlled by the engine, transmission, or ABS controller over the data bus and do not have independent circuits that can be or needs to be shown:

- Do not shift
- Engine (yellow lens)
- Engine (red lens)
- Traction Ctrl
- Check Tran
- Trailer ABS
- Check Electr Sys
- Are
- Wait to Start
- Retard Overheat
- Auto Neutral
- Optimized Idle

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ENGINE OIL PRESSURE GAUGE
ENGINE OIL TEMPERATURE GAUGE
SPEEDOMETER GAUGE
TACHOMETER GAUGE
WATER TEMPERATURE GAUGE

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** Figure 293  Dome Light, Map Light **

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** Chapter 9 **

** Dome Light, Map Light **

- W/ FRONT DOOR CIRCUITRY
  - * W/ CITIZEN BAND
  - # W/ DUAL CITIZEN BAND
  - $ W/ STANDARD CAR
  - ** W/ EXTENDED / TRAVEL CREW CAB
  - % W/ TRAVEL CREW CAB
  - ## W/ TRAVEL CREW CAB

- W/ PREMIUM TRIM
  - * W/ FRONT DOOR CIRCUITRY
  - # W/ DUAL CITIZEN BAND
  - $ W/ STANDARD CAB
  - ** W/ EXTENDED / TRAVEL CREW CAB
  - % W/ TRAVEL CREW CAB
  - ## W/ TRAVEL CREW CAB

- W/ STANDARD TRIM
  - * W/ FRONT DOOR CIRCUITRY
  - # W/ DUAL CITIZEN BAND
  - $ W/ STANDARD CAB
  - ** W/ EXTENDED / TRAVEL CREW CAB
  - % W/ TRAVEL CREW CAB
  - ## W/ TRAVEL CREW CAB
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INTENTIONALLY LEFT BLANK

Figure 487  Intentionally Left Blank
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#### NAVISTAR, INC

**CHAPTER 13**

**ELECTRICAL CIRCUIT DIAGRAMS**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

### SCR Sensor Table (LOCATED IN ENGINE)

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**CONNECTOR 3899995C1**

**BODY LOCK 3535460C1**

- W/ TRANSTAR AND W/ WORKSTAR
- **W/ WORKSTAR & DURASTAR**

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**CONNECTOR 3899995C1**

**BODY LOCK 3535460C1**

- W/ TRANSTAR AND W/ WORKSTAR
- **W/ WORKSTAR & DURASTAR**

### DEF Tank Harness Interconnect 2 (LOCATED IN ENGINE)

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**CONNECTOR 3539144C1**

**BODY LOCK 3755937C1**

- W/ DURASTAR

**DEF Doser (LOCATED IN ENGINE)**

**CONNECTOR 3899840C1**

**W/ DURASTAR**

### Figure 526  Connector Composites (671), (672), (673)
13.10. CONNECTOR COMPOSITES (674), P. 3F

**NAVISTAR, INC.**

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**CHAPTER 13**

**POWERTRAIN HARNESS INTERCONNECT**

(LOCATED IN ENGINE)

**CONNECTOR BODY COMPOSITES HAVING VIEW SHOWN**

**DEF HARNESS INTERCONNECT**

(LOCATED IN ENGINE)

**CONNECTOR 390223C1**

**CONNECTOR 3601923C1**

**CONNECTOR 3601925C1**

**CONNECTOR BODY LOCK 3601923C1**

**POWERTRAIN HARNESS INTERCONNECT**

(LOCATED IN ENGINE)

**PART NO.**

**527**

**Figure 527  Connector Composites (674)**
### 13.11. CONNECTOR COMPOSITES (674), (675), (676), (677), (678), P. 3G

#### NAVISTAR, INC

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**CHAPTER 13**

**CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500MJV0088**

**DATE**
29JUL13

**CHANGE**
REVISED AND REDRAWN.
C 92603H

---

**AFTERTREATMENT INTERCONNECT**

**PRESSURE HEATER LINE**

**BACKFLOW HEATER LINE**

**SUCTION HEATER LINE**

**TANK SENSOR TEMP/LEVEL**

---

**CAV**
CIRCUIT
GAUGE
COLOR
TERMINAL

**Figure 528** Connector Composites (674), (675), (676), (677), (678)
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**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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**Figure 531  CONNECTOR COMPOSITES (679)**
13.15. CONNECTOR COMPOSITES (680), (681), (685), P. 3K

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**Figure 532** Connector Composites (680), (681), (685)
13.16. CONNECTOR COMPOSITES (685), P. 3L

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

CAV CIRCUIT NAME COLOR TERMINAL
11 PLUG 3743667C1
12 NLG 20 TH 3743667C1
13 BLK 20 TH 3743667C1
14 BLK 20 TH 3743667C1
15 PLUG 3743667C1
16 PLUG 3743667C1
17 PLUG 3743667C1
18 PLUG 3743667C1
19 PLUG 3743667C1
20 PLUG 3743667C1
21 PLUG 3743667C1
22 PLUG 3743667C1
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24 PLUG 3743667C1
25 PLUG 3743667C1
26 PLUG 3743667C1
27 PLUG 3743667C1
28 PLUG 3743667C1
29 PLUG 3743667C1
30 PLUG 3743667C1

Figure 533  Connector Composites (685)
**13.17. CONNECTOR COMPOSITES (686), P. 3M**

![Connector Composites Diagram](image)

**Table: Connector Composites**

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**Notes:**
- *Mutually Exclusive*
- THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF NAVISTAR, INC.

---

**Figure 534**  Connector Composites (686)

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534
13.18. CONNECTOR COMPOSITES (687), P. 3N

Figure 535  Connector Composites (687)
13.19. CONNECTOR COMPOSITES (687), (687A), (689), P. 3P

Figure 536  Connector Composites (687), (687A), (689)
13.20. CONNECTOR COMPOSITES (690), P. 3Q

**DEF HARNESS INTERCONNECT #2**

(LOCATED IN ENGINE)

**DEF HARNESS INTERCONNECT #2**

(LOCATED IN ENGINE)

**CONNECTOR 375931C1**

BODY LOCK 1885601C1

**CONNECTOR 360193C1**

BODY LOCK 360193C1

* MUTUALLY EXCLUSIVE

---

**Figure 537  Connector Composites (690)**
13.21. CONNECTOR COMPOSITES (690), (691), (828), P. 3R

**Figure 538 Connector Composites (690), (691), (828)**
13.22. CONNECTOR COMPOSITES (827), (830M), P. 4

Figure 539  Connector Composites (827), (830M)
13.23. INTENTIONALLY LEFT BLANK, P. 5

INTENTIONALLY LEFT BLANK

Figure 540  Intentionally Left Blank
13.24. CONNECTOR COMPOSITES (1004), (1007M), (1008FA), (1009F), P. 6

Figure 541  Connector Composites (1004), (1007M), (1008FA), (1009F)
13.25. CONNECTOR COMPOSITES (1010), P. 7

NAVISTAR, INC

ELECTRICAL CIRCUIT DIAGRAM

CHAPTER 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

Figure 542  Connector Composites (1010)
13.26. CONNECTOR COMPOSITES (1010), P. 7A

Figure 543  Connector Composites (1010)
13.27. CONNECTOR COMPOSITES (1011), P. 8

Figure 544  Connector Composites (1011)
Figure 545  Connector Composites (1012)
13.29. CONNECTOR COMPOSITES (1013), P. 10

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

CHAPTER 13

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CONNECTOR 3534572C1
BODY LOCK 3536085C1
BODY LOCK 3599541C1

FIGURE 546  CONNECTOR COMPOSITES (1013)
13.30. CONNECTOR COMPOSITES (1013), P. 10A

**FUSE BLOCK #4**

(LOCATED IN INSTRUMENT PANEL RIGHT SIDE)

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<th>DESCRIPTION</th>
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<tr>
<td>F4-A</td>
<td>G1, H1</td>
<td>3534213C1, 3536182C1</td>
<td>POWER WINDOW / DOOR-DRIVER</td>
</tr>
<tr>
<td>F4-B</td>
<td>G2, H2</td>
<td>3534209C1, 3536178C1</td>
<td>POWER MIRRORS</td>
</tr>
<tr>
<td>F4-C</td>
<td>G3, H3</td>
<td>3534209C1, 3536178C1</td>
<td>TRANSMISSION CONTROL UNIT</td>
</tr>
<tr>
<td>F4-D</td>
<td>G4, H4</td>
<td>3534209C1, 3536178C1</td>
<td>ENGINE CONTROL UNIT</td>
</tr>
<tr>
<td>F4-E</td>
<td>C1, D1</td>
<td>3534213C1, 3536182C1</td>
<td>POWER WINDOW / DOOR-PASSENGER</td>
</tr>
<tr>
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<td>C2, D2</td>
<td>3534213C1, 3536182C1</td>
<td>POWER MIRRORS</td>
</tr>
<tr>
<td>F4-G</td>
<td>C3, D3</td>
<td>3534224C1</td>
<td>OPTIONAL WARNING LIGHTS</td>
</tr>
<tr>
<td>F4-H</td>
<td>C4, D4</td>
<td>3534224C1</td>
<td>WINDSHIELD WIPER / WASH</td>
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<td>F4-J</td>
<td>A1, B1</td>
<td>3534208C1</td>
<td>BODY CONTROLLER</td>
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<td>F4-K</td>
<td>A2, B2</td>
<td>3534209C1, 3536178C1</td>
<td>SWITCH PACK</td>
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<td>F4-L</td>
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<td>CLUSTER / CAB HVAC CONTROLLER</td>
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<td>A4, B4</td>
<td>3534209C1, 3536178C1</td>
<td>BODY CONTROLLER / CAB HVAC LPM</td>
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**RELAY LOCATION**

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<th>DESCRIPTION</th>
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<tr>
<td>J1, J2</td>
<td>3600329C1</td>
<td>ACCESSORY RELAY # 1  @</td>
</tr>
<tr>
<td>J3, J4</td>
<td>3600329C1</td>
<td>IGNITION RELAY # 1  @</td>
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</table>

@ ALSO SEE CONNECTOR 1011

**Figure 547**  Connector Composites (1013)
13.31. CONNECTOR COMPOSITES (1014), P. 11

Figure 548  Connector Composites (1014)
13.32. CONNECTOR COMPOSITES (1014), P. 11A

CONNECTOR 3534572C1
BODY LOCK 3534085C1
BODY LOCK 3599541C1

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<td>F5-A</td>
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<td>3534209C1</td>
<td>3536178C1</td>
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<tr>
<td>F5-B</td>
<td>C1, C2</td>
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<td>3534209C1</td>
<td>3536178C1</td>
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<td>3536178C1</td>
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<tr>
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<td>3536178C1</td>
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<td>F5-L</td>
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<td>3534209C1</td>
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<td>3600329C1</td>
<td>IGNITION RELAY # 2 D</td>
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<tr>
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<td></td>
<td>3600329C1</td>
<td>IGNITION RELAY # 5 G</td>
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<td>2 ALSO SEE CONNECTOR 1012</td>
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Figure 549  Connector Composites (1014)
Figure 550  Connector Composites (1015)
13.34. CONNECTOR COMPOSITES (1016), P. 13

CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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REFERENCE
RELEASE NO.
SHEET
CHK
DRAWN
NAME
PART NO.
DATE
CHANGE
REV

CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500

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CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

Figure 551  Connector Composites (1016)
13.35. CONNECTOR COMPOSITES (1016), P. 13A

CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

CHART CONTINUE FROM SHEET 013

FUSE BLOCK #7
(LOCATED IN INSTRUMENT PANEL RIGHT SIDE)

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**Figure 552** Connector Composites (1016)
**13.36. CONNECTOR COMPOSITES (1017), P. 14**

**Figure 553  Connector Composites (1017)**
Figure 554 Connector Composites (1017)
CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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Figure 555  Connector Composites (1018)
13.39. CONNECTOR COMPOSITES (1018), P. 15A

**Chapter 13**

**Connector Body Composites Matting View Shown**

**Fuse Block #3**

*(located in Instrument Panel Right Side)*

---

**Fuses Location**

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<th>Cavity</th>
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<th>Description</th>
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<tr>
<td>E2-A</td>
<td>G1, F1</td>
<td>3534208C1</td>
<td>2-Way Radio</td>
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<td>E2-B</td>
<td>G2, F2</td>
<td>3534208C1</td>
<td>Body Lock/R Mule Charge Kit</td>
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**Relays Location - Cavity**

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<td>F1-A</td>
<td>3518350C1</td>
<td>Right Low Beam Switch Relay</td>
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<tr>
<td>F2-A</td>
<td>3518350C1</td>
<td>Left Low Beam or Remote S Relay</td>
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<tr>
<td>F3-A</td>
<td>3518350C1</td>
<td>Left High Beam or Remote S Relay</td>
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<tr>
<td>F4-A</td>
<td>3518350C1</td>
<td>Fuel Heater Relay</td>
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---

*Mutually Exclusive

& Utility Body w/Remote Start/Stop

---

**Figure 556** Connector Composites (1018)
13.40. CONNECTOR COMPOSITES (1019), P. 16

Navistar, Inc.

Electrical Circuit Diagram

Chapter 13

Connector Body Composites

Mating View Shown

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Figure 557  Connector Composites (1019)
### Chapter 13

**Connector Body Composites**

**CHART CONTINUE FROM SHEET 016**

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**Fuse Location - Cavity Rating - Part Number - Description**

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<td>3533420C1</td>
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<td>PART SOLENOID / IBRE / HCI</td>
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**Relay Location - Cavity Rating - Part Number - Description**

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**Note:**
- Trip Headlight Input Relay, Lift Axle Reverse Relay

---

**Figure 558  Connector Composites (1019)**
Figure 559  Connector Composites (1020)
## 13.43. CONNECTOR COMPOSITES (1023A), (1023B), P. 18

**LIFT AXLE UP / DOWN SWITCH #1 (1023A)**

(LOCATED IN INSTRUMENT PANEL CENTER)

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<td>GY</td>
<td>561224C1</td>
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**LIFT AXLE UP / DOWN SWITCH #2 (1023B)**

(LOCATED IN INSTRUMENT PANEL CENTER)

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**CONNECTOR 3520850C1**

---

*Figure 560  Connector Composites (1023A), (1023B)*
13.44. CONNECTOR COMPOSITES (1023C), (1023D), P. 19

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

Figure 561  Connector Composites (1023C), (1023D)
13.45. CONNECTOR COMPOSITES (1026), P. 19A

Figure 562  Connector Composites (1026)
13.46. CONNECTOR COMPOSITES (1026), (1029), P. 20

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**NAViSTAR, INC**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**CONNECTOR 3651838C1**

**CONNECTOR 3601839C1**

**CONNECTOR 3652839C1**

**CONNECTOR 3520850C1**

**CAV CIRCUIT GAUGE**

**COLOR**

**TERMINAL**

**A**

**A5C(-)**

**18**

**GN**

**B**

**A5C(-)**

**20**

**LT GN**

**C**

**A5CC(-)**

**18**

**GN**

**D**

**A5CV(-)**

**18**

**GN**

**E**

**A5CA(-)**

**18**

**GN**

**F**

**A5LI(-)**

**18**

**GN**

**G**

**A5RF(+)**

**18**

**YL**

**H**

**A5CA(+)**

**18**

**YL**

**I**

**A5CC(+)**

**18**

**YL**

**J**

**A5CD(+)**

**18**

**YL**

**K**

**A5CG(+)**

**18**

**YL**

**L**

**A5J(+)**

**18**

**YL**

**M**

**A5L(+)**

**18**

**YL**

**N**

**A5RE(+)**

**18**

**YL**

**O**

**A5RP(+)**

**18**

**YL**

**P**

**A5RE(+)**

**18**

**YL**

**Q**

**A5RP(+)**

**18**

**YL**

**R**

**A5RE(+)**

**18**

**YL**

**S**

**A5RP(+)**

**18**

**YL**

**T**

**A5RE(+)**

**18**

**YL**

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**A5RP(+)**

**18**

**YL**

**V**

**A5RE(+)**

**18**

**YL**

**W**

**A5RP(+)**

**18**

**YL**

**X**

**A5RE(+)**

**18**

**YL**

**Y**

**A5RP(+)**

**18**

**YL**

**Z**

**A5RE(+)**

**18**

**YL**

**CAV CIRCUIT GAUGE**

**COLOR**

**TERMINAL**

**A**

**A5C(-)**

**18**

**GN**

**B**

**A5R(-)**

**18**

**GN**

**C**

**A5RD(-)**

**18**

**GN**

**D**

**A5RN(-)**

**18**

**GN**

**E**

**A5CA(-)**

**18**

**GN**

**F**

**A5CC(-)**

**18**

**GN**

**G**

**A5CD(-)**

**18**

**GN**

**H**

**A5CG(-)**

**18**

**GN**

**I**

**A5J(-)**

**18**

**GN**

**J**

**A5L(-)**

**18**

**GN**

**K**

**A5CA(-)**

**18**

**GN**

**L**

**A5CC(-)**

**18**

**GN**

**M**

**A5CD(-)**

**18**

**GN**

**N**

**A5CG(-)**

**18**

**GN**

**O**

**A5J(-)**

**18**

**GN**

**P**

**A5L(-)**

**18**

**GN**

**Q**

**A5RE(-)**

**18**

**LT GN**

**R**

**A5RP(-)**

**18**

**LT GN**

**S**

**A5RE(-)**

**18**

**LT GN**

**T**

**A5RP(-)**

**18**

**LT GN**

**U**

**A5RE(-)**

**18**

**LT GN**

**V**

**A5RP(-)**

**18**

**LT GN**

**W**

**A5RE(-)**

**18**

**LT GN**

**X**

**A5RP(-)**

**18**

**LT GN**

**Y**

**A5RE(-)**

**18**

**LT GN**

**Z**

**A5RP(-)**

**18**

**LT GN**

* MUTUALLY EXCLUSIVE

% J1939 PMTRN W/AIR ARS, ARH & OPT W/WINGMAN.

**Figure 563**  Connector Composites (1026), (1029)
13.47. CONNECTOR COMPOSITES (1100), (1100MA), (1101), (1101A), P. 21

Figure 564  Connector Composites (1100), (1100MA), (1101), (1101A)
13.48. CONNECTOR COMPOSITES (1105), (1105A), (1106), P. 22

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

CHAPTER 13

CONNECTOR 3520850C1

ROCKER START SWITCH
(1105)
(LOCATED IN INSTRUMENT PANEL CENTER)

CONNECTOR 3520850C1

CAR DISCONNECT SWITCH

CONNECTOR 3530407C1

IF AUX ROOF LOAD SWITCH
(1105)
(LOCATED IN INSTRUMENT PANEL CENTER)

CONNECTOR 3520850C1

Figure 565  Connector Composites (1105), (1105A), (1106)
13.49. CONNECTOR COMPOSITES (1107), (1108), P. 22A

**Figure 566**  Connector Composites (1107), (1108)
13.50. CONNECTOR COMPOSITES (1109), (1109A), (1110), P. 23

Figure 567  Connector Composites (1109), (1109A), (1110)
13.51. CONNECTOR COMPOSITES (1112), (1113), (1115), P. 23A

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### DRIVER SEAT BELT ALARM (1112)
(LOCATED NEAR DRIVER SEAT)

**Connector:** 0587570C91

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* Mutually exclusive

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### PASS SEAT BELT ALARM (1113)
(LOCATED NEAR PASSENGER SEAT)

**Connector:** 0587570C91

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### ENGINE BRAKE (1115)
(LOCATED BEHIND DASH PANEL)

**Connector:** 3520850C1

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**Figure 568** Connector Composites (1112), (1113), (1115)
13.52. CONNECTOR COMPOSITES (1116), (1120), (1200), P. 23B

**Diagram:** Electrical Circuit Diagram - Connector Composites Matting View Shown

**Figure 569**  Connector Composites (1116), (1120), (1200)
13.53. CONNECTOR COMPOSITES (1210), (1220), (1227), P. 24

**Figure 570**  Connector Composites (1210), (1220), (1227)
13.54. CONNECTOR COMPOSITES (1234), P. 24A

Figure 571  Connector Composites (1234)
13.55. CONNECTOR COMPOSITES (1235), (1236), P. 24B

Figure 572  Connector Composites (1235), (1236)
### Chapter 13

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF NAVISTAR, INC.**

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**Figure 573**  Connector Composites (1237)

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**Connectors 2018589C1**

**CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500MJ**

**TRANS CONTROL MODULE 3**

**LOCATED ON TRANSMISSION**

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**W/ALLISON XMSN**

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**W/1939 S00K CAN RUN**
13.57. CONNECTOR COMPOSITES (1240F), (1241F), P. 25

**Figure 574**  Connector Composites (1240F), (1241F)
**Figure 575  Connector Composites (1242), (1243), (1300), (1300A)**
13.59. CONNECTOR COMPOSITES (1301), (1302), P. 26A

Figure 576  Connector Composites (1301), (1302)
13.60. CONNECTOR COMPOSITES (1303), (1338M), (1378), P. 26B

Figure 577  Connector Composites (1303), (1338M), (1378)
13.61. CONNECTOR COMPOSITES (1400), (1401), P. 27

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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**REFERENCE**

RELEASE NO.

SHEET

CHK

DRAWN

NAME

PART NO.

DATE

CHANGE

REV

**CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500**

310615 09JUN09 61229V AE08058187 027

0488 09SEP15 ADDED CIRC AT CAV D 93248U

**ABS#1**

(LOCATED ON RIGHT SIDE KICK PANEL ABS MODULE)

CONNECTOR 3596929C1

BODY LOCK 3562309C1

**ABS#2**

(LOCATED ON RIGHT SIDE KICK PANEL ABS MODULE)

CONNECTOR 3596926C1

**Figure 578** Connector Composites (1400), (1401)
### Figure 579  Connector Composites (1402)

![Diagram of Connector Composites (1402)](image)

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* MUTUALLY EXCLUSIVE

% W/AIR BRAKE W/HSA

& ABS W/ESP & ESP & R-HBV-RH-HDD
13.63. CONNECTOR COMPOSITES (1403), (1410), P. 28

**ABS 36**
(LOCATED AT RIGHT SIDE KICK PANEL ABS MODULE)

**ABS ESP / ESP ADAPTER**
(LOCATED IN INSTRUMENT PANEL CENTER)

* MUTUALLY EXCLUSIVE

**Figure 580  Connector Composites (1403), (1410)**
13.64. CONNECTOR COMPOSITES (1420), (1421), P. 29

**Figure 581**  Connector Composites (1420), (1421)
13.65. CONNECTOR COMPOSITES (1422), (1423), (1500), P. 29A

Figure 582  Connector Composites (1422), (1423), (1500)
CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

TRANSMISSION MODULE 2
(Located on Transmission)

1

9 17

CONNECTOR 1661601C1

TRANSMISSION MODULE 2
(Located at Left Side of Transmission)

1

9 17

CONNECTOR 1661601C1

* 2000 KM/SW location inside cab
W/ RSH UC BATT BOX
** WTEC NG, STANDALONE W/GEN4 IN CAB W/MID/HIGH CAR

NAVISTAR, INC

ELECTRICAL CIRCUIT DIAGRAM MANUAl

13.67. CONNECTOR COMPOSITES (1502), P. 30A

Figure 584  Connector Composites (1502)
**TRANSMISSION MODULE 3**  
(1503)  
(LOCATED AT LEFT SIDE OF TRANSMISSION)  

**OPTIONAL WARNING LIGHTS**  
(LOCATED IN INSTRUMENT PANEL RIGHT REAR OF CLUSTER)  

**CHASSIS**  
BODY LOCK 2005835C1  

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**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**  
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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**NAVISTAR, INC**

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**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

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**13.68. CONNECTOR COMPOSITES (1503), (1510), P. 30B**

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**CHAPTER 13**  
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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**Figure 585**  
Connector Composites (1503), (1510)
13.69. CONNECTOR COMPOSITES (1511), (1512), (1559), P. 30C

Figure 586  Connector Composites (1511), (1512), (1559)
**13.70. CONNECTOR COMPOSITES (1600), P. 31**

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**CHAPTER 13**

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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**Figure 587  Connector Composites (1600)**
### 13.71. CONNECTOR COMPOSITES (1601), P. 32

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**BODY CONTROLLER #4 (1601)**

*LOADED ON LEFT SIDE KICK PANEL - BODY CONTROLLER*

**CONNECTOR** 389777C1

**BODY LOCK1** 1618846C1

**BODY LOCK2** 1618847C1

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* * MUTUALLY EXCLUSIVE

**& W/ NEXT GEN HYDRAULIC BRAKES**

**BODY CONTROLLER #J4 (1601)**

*LOADED ON LEFT SIDE KICK PANEL - BODY CONTROLLER*

**CONNECTOR** 389777C1

**BODY LOCK1** 1618846C1

**BODY LOCK2** 1618847C1

---

**NOTE:**

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**Figure 588**  Connector Composites (1601)
13.72. CONNECTOR COMPOSITES (1602), P. 33

Figure 589  Connector Composites (1602)
13.73. CONNECTOR COMPOSITES (1603), (1604), (1606), P. 34

Figure 590  Connector Composites (1603), (1604), (1606)
13.74. CONNECTOR COMPOSITES (1607), (1625), (1626), P. 35

**Figure 591**  Connector Composites (1607), (1625), (1626)
13.75. CONNECTOR COMPOSITES (1650), (1657), (1657M), P. 35A

NAVISTAR, INC

ELECTRICAL CIRCUIT DIAGRAM

CHAPTER 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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NAVISTAR, INC.

- MUTUALLY EXCLUSIVE
- W/ ISB ENGINE

**Figure 592 Connector Composites (1650), (1657), (1657M)**
13.76. CONNECTOR COMPOSITES (1658), (1658M), (1660), (1661), P. 36

**Diagram 1: Diagnostic Connector**

*(Located in Instrument Panel Center)*

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**Diagram 2: J1708 Public (+) (1660)**

*(Located in Instrument Panel Left Side)*

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**Diagram 3: J1708 Public (1-1) (1661)**

*(Located in Instrument Panel Left Side)*

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**Figure 593** Connector Composites (1658), (1658M), (1660), (1661)
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* MUTUALLY EXCLUSIVE

CHAPTER 13 CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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**Figure 594** Connector Composites (1700)
### Connector Composites (1700)

**Figure 595**  
Connector Composites (1700)
Figure 596  Connector Composites (1700)
**13.81. CONNECTOR COMPOSITES (1700), P. 39**

**NAVISTAR, INC**

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---

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

---

**FORWARD CHASSIS**

(1700)

*(LOCATED ON FRONT LEFT DASH PANEL (UPPER))*

---

**Figure 598  Connector Composites (1700)**
13.82. CONNECTOR COMPOSITES (1700), P. 40

**NAVISTAR, INC.**

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**CONNECTOR 3595625C1**

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**REVISED AND REDRAWN**

**Figure 599** Connector Composites (1700)
13.83. CONNECTOR COMPOSITES (1701), P. 41

Figure 600  Connector Composites (1701)
13.84. CONNECTOR COMPOSITES (1701), P. 42

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CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

CONNECTOR 3854525C1

CAV CIRCUIT NAME COLOR TERMINAL
33 A59P 12 YL 3574287C1
34 A59Q 18 YL 3574288C1
35 A59R 18 YL 3574289C1
36 A59S 12 YL 3574287C1
37 A59T 18 YL 3574288C1
38 A59U 18 YL 3574289C1
39 A59V 18 YL 3574286C1
40 A59W 18 YL 3574285C1
41 A59X 18 YL 3574286C1
42 A59Y 18 YL 3574285C1
43 A59Z 18 YL 3574284C1
44 A110B 12 YL 3574287C1
45 A110C 18 YL 3574288C1
46 A110D 18 YL 3574289C1
47 A110E 18 YL 3574282C1
48 A110F 18 YL 3574283C1
49 A110G 18 YL 3574284C1
50 A110H 18 YL 3574285C1
51 A110I 18 YL 3574286C1
52 A110J 18 YL 3574287C1
53 A110K 18 YL 3574288C1
54 A110L 18 YL 3574289C1
55 A110M 18 YL 3574282C1
56 A110N 18 YL 3574283C1
57 A110O 18 YL 3574284C1
58 A110P 18 YL 3574285C1
59 A110Q 18 YL 3574286C1
60 A110R 18 YL 3574287C1
61 A110S 18 YL 3574288C1
62 A110T 18 YL 3574289C1
63 A110U 18 YL 3574282C1
64 A110V 18 YL 3574283C1
65 A110W 18 YL 3574284C1
66 A110X 18 YL 3574285C1
67 A110Y 18 YL 3574286C1
68 A110Z 18 YL 3574287C1

* MUTUALLY EXCLUSIVE

CHART CONTINUED ON SHEET 42A

Figure 601 Connector Composites (1701)
13.85. CONNECTOR COMPOSITES (1701), P. 42A

Figure 602 Connector Composites (1701)
13.86. CONNECTOR COMPOSITES (1701F), P. 43

Figure 603  Connector Composites (1701F)
CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

Figure 604  Connector Composites (1701F)
CHAPTER 13
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**Figure 605** Connector Composites (1702)
13.89. CONNECTOR COMPOSITES (1702), P. 46

NAVISTAR, INC

ENGINE / IP INTERCONNECT
(LOCATED ON FRONT CENTER DASH PANEL)

CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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Figure 606  Connector Composites (1702)
Figure 607  Connector Composites (1702)
13.91. CONNECTOR COMPOSITES (1702), P. 46B
13.92. CONNECTOR COMPOSITES (1702), P. 47

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**ELECTRICAL CIRCUIT DIAGRAM**

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**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**ENGINE / IP INTERCONNECT (1702)**

(located on front center dash panel)

**CONNECTOR 3599632C1**

**BODY LOCK 3599631C1**

**ELECTRICAL CIRCUIT DIAGRAM**

**CONNECTOR BODY COMPOSITES**

**CIRCUIT DIAGRAM, 42/43/44/85/8600 & 73/74/7500310615**

**PART NO.**

**MANUAL**

**REV**

**609**

**CHART CONTINUE ON SHEET 47A**

**REFERENCE**

**609**

**Connector**

**47**

**Figure 609  Connector Composites (1702)**
13.93. CONNECTOR COMPOSITES (1702), (1702B), P. 47A

Figure 610  Connector Composites (1702), (1702B)
13.94. CONNECTOR COMPOSITES (1702B), P. 47B

ELECTRICAL CIRCUIT DIAGRAM MANUAL

Figure 611  Connector Composites (1702B)
Figure 612  Connector Composites (1800)
13.96. CONNECTOR COMPOSITES (1800F), P. 48A

Figure 613  Connector Composites (1800F)
13.97. CONNECTOR COMPOSITES (1804), (1807), (1809), (1810), P. 49

DUAL ANALOG ACCELERATOR (1804)
(LOCATED ABOVE ACCELERATOR PEDAL)

CONNECTOR 1687590C1
BODY LOCK 3540758C1

CLUTCH SWITCH (1807)
(LOCATED ON CLUTCH PEDAL)

CONNECTOR 3540757C1
BODY LOCK 3540758C1

CLOCK SPRING (1809)
(LOCATED IN STEERING COLUMN)

CONNECTOR 3547870C1
BODY LOCK 3515764C1

TURN SIGNAL SWITCH (1810)
(LOCATED ON STEERING COLUMN)

CONNECTOR 3539212C1

Figure 614  Connector Composites (1804), (1807), (1809), (1810)
13.98. CONNECTOR COMPOSITES (1811), (1812), (1813), P. 50

Figure 615  Connector Composites (1811), (1812), (1813)
13.99. CONNECTOR COMPOSITES (1815), P. 50A

Figure 616  Connector Composites (1815)
13.100. CONNECTOR COMPOSITES (1820F), (1820M), (1822), P. 51

Figure 617  Connector Composites (1820F), (1820M), (1822)
13.101. CONNECTOR COMPOSITES (1823), (1824), (1825), P. 52

STOP LIGHT # 1 (1823)
(LOCATED AT BASE OF STEERING COLUMN)

CONNECTOR 1661777C1
BODY LOCK 1661873C1

STOP LIGHT # 2 (1824)
(LOCATED AT BASE OF STEERING COLUMN)

CONNECTOR 1661777C1
BODY LOCK 1661873C1

BRAKE PRESSURE SWITCH (1825)
(LOCATED AT BASE OF STEERING COLUMN)

CONNECTOR 1661777C1
BODY LOCK 1661873C1

Figure 618  Connector Composites (1823), (1824), (1825)
13.102. CONNECTOR COMPOSITES (1828), (1829), (1852), (1852A), P. 53

**Figure 619  Connector Composites (1828), (1829), (1852), (1852A)**
Figure 620  Connector Composites (1861), (1872), (1873)
13.104. CONNECTOR COMPOSITES (1873B), (1873C), (1873D), P. 54A

AUX-POWER RELAY

LOCATED AT INSTRUMENT PANEL CENTER

OPTIONAL RELAY

LOCATED AT INSTRUMENT PANEL CENTER

PTO R RELAY

LOCATED AT INSTRUMENT PANEL CENTER

Figure 621  Connector Composites (1873B), (1873C), (1873D)
13.105. CONNECTOR COMPOSITES (1873E), (1873F), (1873G), P. 54B

Figure 622  Connector Composites (1873E), (1873F), (1873G)
13.106. CONNECTOR COMPOSITES (1873H), (1873J), P. 54C

Figure 623  Connector Composites (1873H), (1873J)
13.107. CONNECTOR COMPOSITES (1873W), P. 54D

Figure 624  Connector Composites (1873W)
13.108. CONNECTOR COMPOSITES (1873X), (1873Y), (1873Z), P. 54E

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

---

**HIGH/Low REVERSING MOTOR M2 (+) (1873X)**

((LOCATED AT INSTRUMENT PANEL CENTER))

- Reference Sheet: CHK
- Drawing: DRAWN
- Date: DATE
- Change: CHANGE
- Rev: REV

**CONNECTOR 0593385C1**
**BODY LOCK 0593387C1**

---

**FRONT AXLE REVERSING M1 (-) RELAY (1873Y)**

((LOCATED AT INSTRUMENT PANEL CENTER))

- Reference Sheet: CHK
- Drawing: DRAWN
- Date: DATE
- Change: CHANGE
- Rev: REV

**CONNECTOR 0593385C1**
**BODY LOCK 0593387C1**

---

**FRONT AXLE REVERSING M1 (+) RELAY (1873Z)**

((LOCATED AT INSTRUMENT PANEL CENTER))

- Reference Sheet: CHK
- Drawing: DRAWN
- Date: DATE
- Change: CHANGE
- Rev: REV

**CONNECTOR 0593385C1**
**BODY LOCK 0593387C1**

---

**Figure 625** Connector Composites (1873X), (1873Y), (1873Z)
13.109. CONNECTOR COMPOSITES (1874), (1874A), (1874B), P. 54F

**WATER IN FUEL SENSOR (W.I.F.)**
(LOCATED AT INSTRUMENT PANEL CENTER)

**WIF SENSOR**
(LOCATED AT INSTRUMENT PANEL CENTER)

**AIR COMPRESSOR RELAY**
(LOCATED AT INSTRUMENT PANEL CENTER)

**WORKSTAR WIF SENSOR**
(LOCATED AT INSTRUMENT PANEL CENTER)

---

**Figure 626**  Connector Composites (1874), (1874A), (1874B)
13.110. CONNECTOR COMPOSITES (1900), (1901), (1902), (1903), (1910), (1910A), P. 55

Figure 627  Connector Composites (1900), (1901), (1902), (1903), (1910), (1910A)
13.111. CONNECTOR COMPOSITES (1911), (1917), (1918), (1918A), P. 55A

**Qualcomm Omnivision Remote Ctrl**
(Located at Instrument Panel)

- Connector: 1661199C1
- Body Lock: 1661263C1

**Driver Seat Power**
(Located Behind Driver Seat on Floor)

- Connector: 0587567C91

**Qualcomm Omnivision Power**
(Located Behind Driver Seat on Floor)

- Connector: 1661199C1

---

Figure 628  Connector Composites (1911), (1917), (1918), (1918A)
13.112. CONNECTOR COMPOSITES (1919A), (1920), (1927), (1929), P. 56

Figure 629  Connector Composites (1919A), (1920), (1927), (1929)
13.113. CONNECTOR COMPOSITES (1935), (1936M), (1937N), (1938M), (1939), P. 57

**HEATED SEAT PASSENGER**  
(1935)  
(LOCATED BEHIND PASSENGER SEAT ON FLOOR)  

**OMNIVISION PTO**  
(1936M)  
(LOCATED IN RIGHT SIDE IN INSTRUMENT PANEL)  

**QUALCOMM OMNI ACCESSORY**  
(1937N)  
(LOCATED BEHIND DRIVER SEAT ON FLOOR)  

**PEOPLENET COMMUNICATIONS**  
(1939)  
(LOCATED IN INSTRUMENT PANEL)  

---

**Figure 630**  
Connector Composites (1935), (1936M), (1937N), (1938M), (1939)
13.14. CONNECTOR COMPOSITES (1939M), (1941), (1942F), P. 57A

**Figure 631**  Connector Composites (1939M), (1941), (1942F)
13.115. CONNECTOR COMPOSITES (1943M), (1946), (1947), P. 57B

**Figure 632 Connector Composites (1943M), (1946), (1947)**

**Chapter 13: Connector Body Composites Matting View Shown**

**NAVISTAR, INC.**

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**13.115. CONNECTOR COMPOSITES (1943M), (1946), (1947), P. 57B**

**VS-450 DRIVER DISPLAY**

(LOCATED IN INSTRUMENT PANEL RIGHT SIDE)

**CONNECTOR 3673332C1**

* MUTUALLY EXCLUSIVE

**TSS CONN 1**

(1944)

(LOCATED BEHIND CENTRAL PANEL LEFT SIDE)

**CONNECTOR 1677951C1**

**BODY LOCK 1677914C1**

**TSS CONN 3**

(1947)

(LOCATED BEHIND CENTRAL PANEL LEFT SIDE)

**CONNECTOR 3515763C1**

**BODY LOCK 3515765C1**
13.116. CONNECTOR COMPOSITES (1948), (1949), (1956), (1957), P. 57C

Figure 633  Connector Composites (1948), (1949), (1956), (1957)
### 13.117. CONNECTOR COMPOSITES (1958), (1959), (1961), (1962), P. 57D

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

**ELECTRICAL CIRCUIT DIAGRAM NAME**

**NAVISTAR, INC**

**DRAWN**

**REV**

**REFERENCE**

**CHANGE**

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**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

### Connectors and Cables

**Connector 3520850C1**

**TSS 24V/12V (1958)**

- Located behind central panel TSS switch pack

**Connector 3520850C1**

**TSS Alarm (1959)**

- Located behind central panel TSS switch pack

**Connector 3586750C1**

**Body Lock 3553460C1**

**WIF Connector (1962)**

- Located in cab

**Connector 2036585C1**

**Data Link Translator (1961)**

- Located in cab

### CAV Circuit Gauge Color Terminal

- **1** A98M
  - Color: BK
  - Gauge: 18
  - Terminal: 3518963C1
- **2** PLUG
- **3** PLUG
- **4** PLUG
- **5** PLUG
- **6** PLUG
- **7** A3M
  - Color: LTBL
  - Gauge: 18
  - Terminal: 3518963C1
- **8** A3M
  - Color: GY
  - Gauge: 18
  - Terminal: 3518963C1
- **9** A98-GB
  - Color: WH
  - Gauge: 18
  - Terminal: 3518963C1
- **10** PLUG
- **11** PLUG
- **12** A98-GC
  - Color: WH
  - Gauge: 18
  - Terminal: 3518963C1

### Figure 634: Connector Composites (1958), (1959), (1961), (1962)
13.118. CONNECTOR COMPOSITES (1964), P. 57E

Figure 635  Connector Composites (1964)

---

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**DATECHK**

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**Figure 636** Connector Composites (1965), (1965F), (1971), (1981)
13.120. CONNECTOR COMPOSITES (2000), P. 57G

Figure 637  Connector Composites (2000)
13.121. CONNECTOR COMPOSITES (2021), (2200), (2201), (2202), (2203), (2223), P. 58

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**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITE - MATING VIEW SHOWN**

---

### AUX/IF Roof (2021)

(LOCATED IN INSTRUMENT PANEL LEFT SIDE)

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### Customer Supplied Work Light (2020)

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### Customer Supplied Work Light (2021)

(LOCATED IN CAB)

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### Customer Supplied Work Light (2022)

(LOCATED IN CAB)

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### Customer Supplied Work Light (2023)

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### RAND McNALLY GPS Display

(LOCATED IN INSTRUMENT PANEL-CENTER)

(2223)

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<td>A12-GB</td>
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**Figure 638  Connector Composites (2021), (2200), (2201), (2202), (2203), (2223)**
13.122. CONNECTOR COMPOSITES (2224), (2225), (2501), (2502), P. 58A

**Connectors and Circuit Diagrams**

**Power Display**
- Located in Instrument Panel Center
- Connector 3833917C1

**Connector Composites**
- (2224), (2225), (2501), (2502)

**Tachograph Conn 1**
- Located in Instrument Panel Left Side
- Connector 3719276C1

**Tachograph Conn 2**
- Located in Instrument Panel Left Side
- Connector 3719276C1

---

**Figure 639**  Connector Composites (2224), (2225), (2501), (2502)
13.123. CONNECTOR COMPOSITES (2503), (2505), (2600), (2701), (2702), P. 58B

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Figure 640 Connector Composites (2503), (2505), (2600), (2701), (2702)
13.124. CONNECTOR COMPOSITES (3000), (3001), (3002M), (3003), (3004), P. 59

CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

Figure 641  Connector Composites (3000), (3001), (3002M), (3003), (3004)
13.125. CONNECTOR COMPOSITES (3005), (3100M), (3200), (3200F), P. 59A

HEATED WINDSHIELD GROUND
(3005)
(LOCATED IN CAB)

CONNECTOR 389916781

WINDOW MOTOR
(3100M)
(LOCATED IN DRIVER DOOR AND PASSENGER DOOR)

CONNECTOR 3834424C1
BODY LOCK 3834425C1

DOOR / IP CONN
(3200)
(LOCATED IN INSTRUMENT PANEL
BY DRIVER DOOR)

CONNECTOR 1661200C1
* MUTUALLY EXCLUSIVE

DOOR / IP DOOR POD
(3200F)
(LOCATED IN DRIVER DOOR AND PASSENGER DOOR)

CONNECTOR 1661201C1
W/DURASTAR

DOOR / ROOF DOOR POD
(3200F)
(LOCATED IN DRIVER DOOR AND PASSENGER DOOR)

CONNECTOR 1661206C1
W/DURASTAR

CAV CIRCUIT GAUGE COLOR TERMINAL
A A78-G 12 BK 1660577C1
B A3D(+),18 DKBL 1661208C1
C A3D(-) 18 GY 1661208C1
D A81B 12 LTGN 3535486C1
E A81-GA 12 WH 3534167C1
F A81-GH 12 WH 3534167C1
G E63-GDW 18 WH 1661208C1
H E63DB 18 DKBL 1661208C1
I E63BB 18 DKBL 1661262C1
J E63-G 18 WH 1661212C1
K E63-B 18 WH 1661212C1
L E63BB 18 DKBL 1661212C1
M E83A 14 LTGN 3534167C1
N E83E 14 LTGN 3534167C1
O E81B 12 LTGN 3534167C1
P E81-GA 12 WH 3534167C1
Q E81-GH 12 WH 3534167C1
R E63-G 18 WH 1661212C1
S E63BB 18 DKBL 1661212C1

Figure 642  Connector Composites (3005), (3100M), (3200), (3200F)
13.126. CONNECTOR COMPOSITES (3201F), (3201M), (3202M), (3203M), (3204), P. 59B

Figure 643  Connector Composites (3201F), (3201M), (3202M), (3203M), (3204)
13.127. CONNECTOR COMPOSITES (3205), (3205M), (3206), (3208F), (3209M), (3210M), P. 59C

Figure 644  Connector Composites (3205), (3205M), (3206), (3208F), (3209M), (3210M)
13.128. CONNECTOR COMPOSITES (3211M), (3400), (4004), (4005), (4021), (4021A), (4021B), P. 60

Figure 645  Connector Composites (3211M), (3400), (4004), (4005), (4021), (4021A), (4021B)
13.129. CONNECTOR COMPOSITES (4022), (4022A), (4022B), (4031), (4032), P. 60A

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

---

**WASHER FLUID LEVEL SENSOR**

(4022)

(LOCATED ON OUTBOARD SIDE OF WASHER BOTTLE ON LEFT FRAME RAIL. 4X4 4300 ONLY LOCATED ON RIGHT SIDE FRAME RAIL)

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CONNECTOR 3554317C1

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**WASHER FLUID LEVEL SENSOR (4300 4X2)/ WASHER BOTTLE PUMP/FLUID LEVEL, RIGHT SIDE**

(4022A)

(LOCATED ON OUTBOARD SIDE OF WASHER BOTTLE ON LEFT FRAME RAIL. 4X4 4300 ONLY LOCATED ON RIGHT SIDE FRAME RAIL)

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CONNECTOR 3554317C1

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**FLOW SWITCH**

(4031)

(LOCATED ON HYDROMAX UNIT ON LEFT SIDE OF DASH)

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CONNECTOR 2036848C1

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**DIFP PRESSURE SWITCH**

(4032)

(LOCATED ON HYDROMAX UNIT ON LEFT SIDE OF DASH)

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CONNECTOR 3518873C81

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**Figure 646  Connector Composites (4022), (4022A), (4022B), (4031), (4032)**
13.130. CONNECTOR COMPOSITES (4033), (4037), (4038), P. 60B

Figure 647  Connector Composites (4033), (4037), (4038)
13.131. CONNECTOR COMPOSITES (4040), (4041), (4042A), (4042B), (4042C), (4042D), P. 61

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CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

**CONNECTOR BODY COMPOSITES**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**Figure 648**  Connector Composites (4040), (4041), (4042A), (4042B), (4042C), (4042D)
13.132. CONNECTOR COMPOSITES (4060), P. 61A

Figure 649  Connector Composites (4060)
13.133. CONNECTOR COMPOSITES (4060A), (4061), (4070), (4071), P. 61B

**Figure 650** Connector Composites (4060A), (4061), (4070), (4071)
13.134. CONNECTOR COMPOSITES (4087), (4087B), (4111M), (4120), P. 62

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**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

---

**PAM MODULE**

*(LOCATED ON EXTERIOR DASH NEAR HVAC UNIT)*

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**CONNECTOR 3553404C1**

**BODY LOCK 3553460C1**

---

**LEFT PAM MODULE**

*(LOCATED ON EXTERIOR DASH NEAR HVAC UNIT)*

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**CONNECTOR 3553404C1**

**BODY LOCK 3553460C1**

---

**FAN AIR SOLENOID**

*(LOCATED NEAR ENGINE FAN DRIVE)*

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**CONNECTOR 3522088C1**

**BODY LOCK 1615870U1**

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**SNOW VALVE**

*(LOCATED ON AIR CLEANER)*

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**CONNECTOR 3522251C1**

**BODY LOCK 3522253C1**

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* MUTUALLY EXCLUSIVE

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**Figure 651**  Connector Composites (4087), (4087B), (4111M), (4120)
13.135. CONNECTOR COMPOSITES (4320), (4321), (4322), P. 63

Figure 652  Connector Composites (4320), (4321), (4322)
13.136. CONNECTOR COMPOSITES (4323), (4328), (4410D), (4410E), P. 64

**NAVISTAR, INC**

---

**ELECTRICAL CIRCUIT DIAGRAM**

CHAPTER 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

---

**PRESSURE SW**

(4323)

(LOCATED BY LEFT FRAME RAIL)

![Diagram of Pressure SW](image)

**ENGINE DIAGNOSTICS CONNECTOR**

(4328)

(LOCATED NEAR ENGINE)

![Diagram of Engine Diagnostics Connector](image)

**REMOTE POWER MODULE**

DATALINK & LOGIC POWER

(4410D)

(LOCATED NEAR LEFT FRAME RAIL BACK OF CAB)

![Diagram of Remote Power Module](image)

**REMOTE POWER MODULE**

DATALINK & LOGIC POWER

(4410E)

(LOCATED NEAR LEFT FRAME RAIL BACK OF CAB)

![Diagram of Remote Power Module](image)

---

**Figure 653**  Connector Composites (4323), (4328), (4410D), (4410E)
Figure 654  Connector Composites (4410F), (4410G), (4410H)
13.138. CONNECTOR COMPOSITES (4410J), (4410K), (4410L), P. 65A

NAVISTAR, INC

ELECTRICAL CIRCUIT DIAGRAM

CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

REMOTE POWER MODULE DATALINK & LOGIC POWER

(LOCATED NEAR END OF FRAME)

CONNECTOR 3572899C1
BODY LOCK 2005242C1

1ST AIR SOLENOID 7-PAK

(LOCATED INSIDE LEFT FRAME RAIL UNDER CAB)

CONNECTOR 3572899C1
BODY LOCK 2005242C1

REMOTE POWER MODULE DATALINK & LOGIC POWER

(LOCATED BETWEEN CENTER CHASSIS AND REAR CHASSIS)

CONNECTOR 3572899C1
BODY LOCK 2005242C1

Circuit Diagram, 42/43/44/85/8600 & 73/74/7500 MJV0195

30 JUN 92 218B AE080581

MVD R/D 4410M AND 4411 ON SHEET 65B.

0488 25 JUN 14 ADDED R/D 4410J, 4410L.

Chapter 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF NAVISTAR, INC.

Figure 655 Connector Composites (4410J), (4410K), (4410L)
### Connector Composites (4410M), (4411)

**Remote Power Module**

1. **Circuit:** General, Color, Terminal
2. **Description:**
   - Power Unit EOF
   - Air Solenoid

**Remote Power Module Positive Feed 2**

1. **Connectors:** 357299C1, 2035242C1

**Circuit Gauge Colors**

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**References**

- Initial Release: A 92603H
- Date: 25 Jun 1992

**Figure 656** Connector Composites (4410M), (4411)
13.140. CONNECTOR COMPOSITES (4411A1), (4411A2), (4411A3), (4411A4), (4411A5), (4411A6), (4411A7), (4411A8), P. 66

Figure 657  Connector Composites (4411A1), (4411A2), (4411A3), (4411A4), (4411A5), (4411A6), (4411A7), (4411A8)
13.141. CONNECTOR COMPOSITES (4411A9), (4411F), (4411M), (4411M1), (4411M2), P. 66A

Figure 658  Connector Composites (4411A9), (4411F), (4411M), (4411M1), (4411M2)
13.142. CONNECTOR COMPOSITES (4411M4), (4411M5), (4411M6), (4411M7), (4411N), P. 66B

Figure 659  Connector Composites (4411M4), (4411M5), (4411M6), (4411M7), (4411N)
13.143. CONNECTOR COMPOSITES (4411P), (4412A1), (4412A2), (4412F), (4413A1), (4413A2), (4413A3), (4413A4), P. 66C

Figure 660  Connector Composites (4411P), (4412A1), (4412A2), (4412F), (4413A1), (4413A2), (4413A3), (4413A4)
13.144. CONNECTOR COMPOSITES (4413F), (4413F1), (4413F2), P. 66D

Figure 661  Connector Composites (4413F), (4413F1), (4413F2)
13.145. CONNECTOR COMPOSITES (4413F3), (4413F4), (4414), (4450AM), (4450BM), P. 66E

Chapter 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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Figure 662  Connector Composites (4413F3), (4413F4), (4414), (4450AM), (4450BM)
**Figure 663** Connector Composites (4450BF), (4450M), (4460AM)

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* Mutually Exclusive*
### Connector Composites (4460BF), (4460BM)

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**BODY BUILDER CONNECTION (4460BM)**

(LOCATED AT END OF FRAME NEAR REAR AXLES)

![Diagram](image)

**CONNECTOR 2039311C91**

**BODY LOCK 2039342C1**

**BODY BUILDER TURN / STOP (4460BF)**

(LOCATED AT MAIN CHASSIS TO REAR CHASSIS INTERCONNECT)

![Diagram](image)

**CONNECTOR 3553961C1**

**BODY LOCK 3554012C1**

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**Figure 664  Connector Composites (4460BF), (4460BM)**
13.148. CONNECTOR COMPOSITES (4460M), (4500), (4601), P. 67

Figure 665  Connector Composites (4460M), (4500), (4601)
13.149. CONNECTOR COMPOSITES (4705), (4706), P. 67A

Figure 666  Connector Composites (4705), (4706)
13.150. CONNECTOR COMPOSITES (4712F1), (4712F3), P. 67B

Figure 667  Connector Composites (4712F1), (4712F3)
13.151. CONNECTOR COMPOSITES (6000), P. 67C

Figure 668  Connector Composites (6000)
13.152. CONNECTOR COMPOSITES (4803), (4810), (4815), (4830), P. 67D

Figure 669  Connector Composites (4803), (4810), (4815), (4830)
### 13.153. CONNECTOR COMPOSITES (4831), (4833A), (4833B), (4833C), P. 67E

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**TEMPERATURE SENSOR CONNECTOR (4831)**  
(LOCATED ABOVE EXHAUST PIPER)

![Diagram of Temperature Sensor Connector](image)

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**CONNECTOR 3601685C1**  
**BODY LOCK 3711020C1**

**LINE HEAT CONNECTOR (4833A)**  
(LOCATED BEHIND DEF TANK)

![Diagram of Line Heat Connector](image)

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**CONNECTOR 3854665C91**  
**BODY LOCK 3711020C1**

**LINE HEAT CONNECTOR (4833B)**  
(LOCATED ABOVE DEF TANK)

![Diagram of Line Heat Connector](image)

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**CONNECTOR 3854665C91**  
**BODY LOCK 3711020C1**

**LINE HEAT CONNECTOR (4833C)**  
(LOCATED ABOVE DEF TANK)

![Diagram of Line Heat Connector](image)

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**CONNECTOR 3854665C91**  
**BODY LOCK 3711020C1**

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**Figure 670  Connector Composites (4831), (4833A), (4833B), (4833C)**

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13.154. CONNECTOR COMPOSITES (4840), (4840F), (4841), (4841F), P. 67F

**Chapter 13**

**ELECTRICAL CIRCUIT DIAGRAM**

**NAVISTAR, INC**

**DATE CHK**

**ELECTRICAL CIRCUIT DIAGRAM**
**NAME**
**NAVISTAR, INC**
**DRAWN REV REFERENCE CHANGE**

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**RELEASE NO.**

**SHEET PART NO.**

**DATE**

**Figure 671** Connector Composites (4840), (4840F), (4841), (4841F)
13.155. CONNECTOR COMPOSITES (4705), (4706), (4905), (4906), P. 68

Figure 672  Connector Composites (4705), (4706), (4905), (4906)
13.156. CONNECTOR COMPOSITES (4906C), (4950), (4951), (4952), (4953), P. 68A

NAVISTAR, INC

ELECTRICAL CIRCUIT DIAGRAM

CHAPTER 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

WHEEL CHAIR INTERLOCK

CONNECTOR 3525874C1
BODY LOCK 3525875C1

BENDIX AUTO TRACTION CONTROL

(W4950)

CONNECTOR 3525874C1

WARCO AUTO TRACTION CONTROL

(W4951)

CONNECTOR 3525874C1

BENDIX ATC ECE ADR

(W4952)

CONNECTOR 3525874C1

BENDIX ATC ECE ADR

(W4953)

CONNECTOR 3525874C1

CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE
A M44J 16 WH 1667742C1 1661822C1
B M44J 16 WH 1667742C1 1661822C1
C M92C 16 WH 1667742C1 1661822C1
D M92C 16 WH 1667742C1 1661822C1
E M44J 16 WH 1667742C1 1661822C1
F M44J 16 WH 1667742C1 1661822C1
G PLUG - - -
H PLUG - - -

CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE
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E M44J 16 WH 3679224C1 3601687C1
F M44J 16 WH 3679224C1 3601687C1
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H PLUG - - -

Figure 673  Connector Composites (4906C), (4950), (4951), (4952), (4953)
13.157. CONNECTOR COMPOSITES (5117), (5200), (5500A), P. 68B

**Figure 674** Connector Composites (5117), (5200), (5500A)
Figure 675  Connector Composites (6000)
13.159. CONNECTOR COMPOSITES (6000), (6003), (6004), P. 68D

Figure 676  Connector Composites (6000), (6003), (6004)
13.160. CONNECTOR COMPOSITES (6005), (6007), (6008), (6009), P. 68E

Figure 677  Connector Composites (6005), (6007), (6008), (6009)
13.161. CONNECTOR COMPOSITES (6011), P. 69

**NAVISTAR, INC**

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

**CHAPTER 13**

CONNECTOR 3857801C1

CONNECTOR 3857802C1

CONNECTOR 3857803C1

**ENGINE / MELROSE (6011)**

(Located on the Left Side of Engine)

**Figure 678  Connector Composites (6011)**
13.162. CONNECTOR COMPOSITES (6012), (6013), P. 69A

**Figure 679**  Connector Composites (6012), (6013)
13.163. CONNECTOR COMPOSITES (6018), P. 70

**Figure 680  Connector Composites (6018)**
**Figure 681  Connector Composites (6019)**
### Chapter 13
**Connector Body Composites Matting View Shown**

**ECM (6020M)** (Located on the Left Side of Engine)

| Connector Body Composites | MATING VIEW SHOWN |

**Reference**

**Release No.**

**Sheet**

** CHK**

**Drawn**

**Name**

**Part No.**

**Date**

**Change**

**Rev.**

Circuit Diagram, 42/43/44/85/8600 & 73/74/7500

- **09JUN09**
- **61229V**
- **AE08058187 71A**

**Figure 682** Connector Composites (6020M)
**Figure 683  Connector Composites (6020M)**

**Chapter 13**

**Connector Body Composites Matting View Shown**

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---

### Circuit Diagram

**Ecm (6020M)** (Located on the left side of Engine)

- **Plug**
- **Body Lock**

**Connector 3612247C1**

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**Circuit Diagram, 42/43/44/85/8600 & 73/74/7500**

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13.167. CONNECTOR COMPOSITES (6020M), P. 72A

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**Figure 684** Connector Composites (6020M)
13.168. CONNECTOR COMPOSITES (6020M), P. 72B

Figure 685  Connector Composites (6020M)
Figure 686  Connector Composites (6022), (6023), (6033)
13.170. CONNECTOR COMPOSITES (6060), (6061), (6062), (6063), (6064), (6065), P. 73A

**Motor Sensor Fuse**
(6060)
(LOCATED AT INSTRUMENT PANEL)

**Flow Switch**
(6061)
(LOCATED AT INSTRUMENT PANEL)

**Dash Ground Stud**
(6062)
(LOCATED AT INSTRUMENT PANEL)

**Low Fluid Level SW**
(6063)
(LOCATED AT INSTRUMENT PANEL)

**Diff Pressure SW**
(6064)
(LOCATED AT INSTRUMENT PANEL)

**Pressure SW**
(6065)
(LOCATED AT INSTRUMENT PANEL)

---

Figure 687  Connector Composites (6060), (6061), (6062), (6063), (6064), (6065)
13.171. CONNECTOR COMPOSITES (6066), (6067), (6068), (6069), (6070), (6071), P. 73B

Figure 688  Connector Composites (6066), (6067), (6068), (6069), (6070), (6071)
13.172. CONNECTOR COMPOSITES (6100), (6102), (6103), (6200), P. 73C

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**CHAPTER 13**

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

**ELECTRIC COMPRESSOR AIR PRESSURE SWITCH** (6102)

**LECTED IN INSTRUMENT PANEL**

**CONNECTOR** 0587567C91

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

| A | M40B 14 GY 0587577C1 1672288C1 |
| B | M40B-G 14 WH 0587577C1 1672288C1 |

**ELECTRIC COMPRESSOR AIR PRESSURE POWER** (6103)

**LECTED IN INSTRUMENT PANEL**

**CONNECTOR** 0587568C91

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

| A | M40B 14 GY 0587577C1 1672288C1 |
| B | M40B-G 14 WH 0587577C1 1672288C1 |

**FRONT COMPRESSOR** (6200)

**LECTED ON AC COMPRESSOR FRONT RIGHT SIDE OF ENGINE**

**CONNECTOR** 1671610C1

**BODY LOCK 1671608C1**

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

| A | 14 PK 1661707C1 |
| B | K13-C 14 PK 1661707C1 |

* W/ IBB ENGINE

# W/ CUMMINS ISB ENGINE

@ W/I6 2010 SCR ENGINE

**Figure 689**  Connector Composites (6100), (6102), (6103), (6200)
A/C PRESSURE TRANSDUCER
(6201)
(LOCATED ON A/C COMPRESSOR FRONT RIGHT SIDE OF ENGINE)

CONNECTOR 1678137C1
BODY LOCK 3662879C1

A/C PRESSURE TRANSDUCER
(6201A)
(LOCATED ON A/C COMPRESSOR FRONT RIGHT SIDE OF ENGINE)

CONNECTOR 3662921C1
BODY LOCK 3662879C1

A/C PRESSURE TRANSDUCER
(6201B)
(LOCATED ON A/C COMPRESSOR FRONT RIGHT SIDE OF ENGINE)

CONNECTOR 3662921C1
BODY LOCK 3662879C1

A/C PRESSURE TRANSDUCER L/S
(6201P)
(LOCATED ON A/C COMPRESSOR FRONT RIGHT SIDE OF ENGINE)

CONNECTOR 3600344C1

* N/ XMSN OIL TEMP GAUGE
# W/ XMSN OIL TEMP GAUGE

Figure 690  Connector Composites (6201), (6201A), (6201B), (6201P)
13.174. CONNECTOR COMPOSITES (6260A), (6260F), (6260FP), (6260H), P. 74A

Figure 691  Connector Composites (6260A), (6260F), (6260FP), (6260H)
### Connector Composites (6260HL), (6260HR), (6260UC), (6260VH), (6260VL), (6260VM)

#### 13.175. Connector Composites (6260HL), (6260HR), (6260UC), (6260VH), (6260VL), (6260VM), P. 74B

**Digest Sensor Black**  
(6260HL / 6260HR / 6260UC)  
(Located by right frame rail near transmission area)

**HCl Injector**  
(6260VH)  
(Located at left side of engine)

**HCl Injector**  
(6260VL)  
(Located at left side of engine)

**HCl Injector**  
(6260VM)  
(Located at left side of engine)

---

**Figure 692**  
Connector Composites (6260HL), (6260HR), (6260UC), (6260VH), (6260VL), (6260VM)
13.176. CONNECTOR COMPOSITES (6260VN), (6261), (6262), (6263), (6316M), P. 75

Figure 693  Connector Composites (6260VN), (6261), (6262), (6263), (6316M)
13.177. CONNECTOR COMPOSITES (6323), (6332), (6333), (6334), P. 75A

Figure 694  Connector Composites (6323), (6332), (6333), (6334)
13.178. CONNECTOR COMPOSITES (6334), (6340), P. 76

**2-WAY RADIO**

BATTERY POWER (6334)

(LOCATED IN ENGINE AREA

NEAR IF / ENGINE INTERCONNECT)

---

**ENGINE DCU POWER & GROUND (6340)**

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**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

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**Figure 695**  Connector Composites (6334), (6340)
13.179. CONNECTOR COMPOSITES (6341), P. 76A

Figure 696  Connector Composites (6341)
13.180. CONNECTOR COMPOSITES (6342), (6343), P. 76B

Connecting to the composites 6342, 6343 on page 697.

**Figure 697** Connector Composites (6342), (6343)
13.181. CONNECTOR COMPOSITES (6400), (6401), (6401A), P. 76C

Figure 698  Connector Composites (6400), (6401), (6401A)
13.182. CONNECTOR COMPOSITES (6400), (6401), (6401A), P. 76D

Figure 699  Connector Composites (6400), (6401), (6401A)
13.183. CONNECTOR COMPOSITES (6401), (6401M), (6401R), (6407), (6406M), (6408), (6420), P. 77

Figure 700  Connector Composites (6401), (6401M), (6401R), (6407), (6406M), (6408), (6420)
13.184. CONNECTOR COMPOSITES (6561), (6566), (6567), P. 77A

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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Figure 701 Connector Composites (6561), (6566), (6567)
Figure 702  Connector Composites (6568), (6569)
13.186. CONNECTOR COMPOSITES (6702), (6703), (6703A), (6704), P. 78

Figure 703  Connector Composites (6702), (6703), (6703A), (6704)
13.187. CONNECTOR COMPOSITES (6704M), (6709), (6710), (6712), P. 79

Figure 704  Connector Composites (6704M), (6709), (6710), (6712)
13.188. CONNECTOR COMPOSITES (6713), (6715), P. 79A

**Figure 705** Connector Composites (6713), (6715)
13.189. CONNECTOR COMPOSITES (6720), (6730), (6747), P. 80

Figure 706  Connector Composites (6720), (6730), (6747)
Figure 707  Connector Composites (6748), (6800), (6801)
13.191. CONNECTOR COMPOSITES (6802), (6803), (6804), (6805), (6811), (6812), (6900), P. 80B

**Figure 708**  Connector Composites (6802), (6803), (6804), (6805), (6811), (6812), (6900)
13.192. CONNECTOR COMPOSITES (6901), (6925), (6969), (7070), P. 81

**Back-up Monitor Connection**
(Located in Instrument Panel Left Side)

**Connector 1661199C1**

**Connector 3678796C1**

**Acc. Fuse/Relay Block**
(Located behind Gauge Cluster)

**Connector 1667639C1**

**Ecm Timer Fuse**
(Located near IP/Engine Interconnection)

---

*Figure 709  Connector Composites (6901), (6925), (6969), (7070)*
13.193. CONNECTOR COMPOSITES (7103M), P. 81A

**TWO SPEED AXLE BOOT CONNECTOR**

*(7103M)*

*(LOCATED NEAR TRANSMISSION SHIFT TOWER)*

**W/ DURASTAR**

**CONNECTOR 1661198C1**

**TWO SPEED AXLE BOOT CONNECTOR**

*(7103M)*

*(LOCATED NEAR TRANSMISSION SHIFT TOWER)*

**W/ I6 ENGINE**

**CONNECTOR 1661198C1**

**2-AXLE SPEED SWITCH CONNECTOR**

*(7103M)*

*(LOCATED NEAR TRANSMISSION SHIFT TOWER)*

**CONNECTOR 1661777C1**

---

**Figure 710  Connector Composites (7103M)**
CHAPTER 13

**TRANSMISSION CLEAN GROUND (7104F)**

*For Allison MD (WTEC) (Located by Starter)*

**TRANSMISSION CLEAN GROUND (7104B)**

*For Allison TC10 Transmision (W/ IBB Engine)*

**TRANSMISSION CLEAN POWER (7104F)**

*For Navistar, Inc.*

**TRANSMISSION CLEAN GROUND (7104B)**

*For Navistar, Inc.*

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**CHAPTER 13**

**CONNECTOR (7104F), (7104F), (7105), P. 82**

**Figure 711** Connector Composites (7104B), (7104F), (7105)
13.195. CONNECTOR COMPOSITES (7105), (7106), (7107), P. 82A

**Figure 712  Connector Composites (7105), (7106), (7107)**

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13.196. CONNECTOR COMPOSITES (7110), (7110A), (7110B), (7111), (7112), (7113), P. 83

Figure 713  Connector Composites (7110), (7110A), (7110B), (7111), (7112), (7113)
13.197. CONNECTOR COMPOSITES (7113), (7113A / 7113C / 7113E / 7113G), (7113B / 7113D / 7113F), P. 83A

Figure 714  Connector Composites (7113), (7113A / 7113C / 7113E / 7113G), (7113B / 7113D / 7113F)
13.198. CONNECTOR COMPOSITES (7150), (7150F2), (7152), P. 84

Figure 715  Connector Composites (7150), (7150F2), (7152)
### Connector Composites (7150), (7150F2), (7152), P. 84A

**Transmission Module**

- (7150 / 7150F2)
- (Located at Transmission TCM Connection)

**Transmission Module in Cab**

- (7152)
- (Located in Cab)

---

#### Connector Body Composites Matting View Shown

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**Figure 716  Connector Composites (7150), (7150F2), (7152)**
Figure 717  Connector Composites (7150), (7150F2)
13.201. CONNECTOR COMPOSITES (7150), P. 85A

Figure 718  Connector Composites (7150)
13.202. CONNECTOR COMPOSITES (7150), P. 85B

Figure 719  Connector Composites (7150)
13.203. CONNECTOR COMPOSITES (7151), P. 86

Figure 720  Connector Composites (7151)
13.204. CONNECTOR COMPOSITES (7205), (7205F), P. 87

Figure 721  Connector Composites (7205), (7205F)
13.205. CONNECTOR COMPOSITES (7206), (7206F), (7207F), (7207M), P. 87A

Figure 722  Connector Composites (7206), (7206F), (7207F), (7207M)
13.206. CONNECTOR COMPOSITES (7208M), (7211), (7212), (7213), (7220). P. 88

CHAPTER 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

Figure 723  Connector Composites (7208M), (7211), (7212), (7213), (7220)
CHAPTER 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

13.207. CONNECTOR COMPOSITES (7250), (7250M), (7251M), P. 89

**Figure 724  Connector Composites (7250), (7250M), (7251M)**

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| CONNECTOR BODY COMPOSITES MATING VIEW SHOWN |

**TCM BULKHEAD CONNECTOR**

*(7250/7250M)*

*(LOCATED AT TRANSMISSION TCM CONNECTION)*

**TRANSMISSION BULKHEAD 4000**

*(7251M)*

*(LOCATED AT TRANSMISSION BULKHEAD CONNECTION)*

**CAV CIRCUIT GAUGE COLOR TERMINAL**

| 1 | 18 | OR | 3686945C1 |
| 2 | 18 | TH | 3686945C1 |
| 3 | 18 | WH | 3686945C1 |
| 4 | 18 | YL | 3686945C1 |
| 5 | 18 | LTGN | 3686945C1 |
| 6 | 18 | TN | 3686945C1 |
| 7 | 18 | GY | 3686945C1 |
| 8 | 18 | TN | 3686945C1 |
| 9 | 18 | YL | 3686945C1 |
| 10 | 18 | LTBL | 3686945C1 |
| 11 | 18 | PK | 3686945C1 |
| 12 | 18 | LTBL | 3686945C1 |
| 13 | 18 | LTBL | 3686945C1 |
| 14 | 18 | LTBL | 3686945C1 |
| 15 | 18 | LTBL | 3686945C1 |
| 16 | 18 | LTBL | 3686945C1 |
| 17 | 18 | LTBL | 3686945C1 |
| 18 | 18 | LTBL | 3686945C1 |
| 19 | 18 | LTBL | 3686945C1 |
| 20 | 18 | LTBL | 3686945C1 |

| CONNECTOR BODY LOCK 3606532C1 |

* W/ALLISON GEN5 3000/3500 TRANSMISSION

# W/ALLISON GEN5 3000/3500/4000/4500 TRANSMISSION

% W/I6 2010 SCR ENGINE

@ W/ALLISON 3000 W/CUMMINS ISB ENGINE

**CAV CIRCUIT GAUGE COLOR TERMINAL**

| 1 | 18 | OR | 3686945C1 |
| 2 | 18 | TH | 3686945C1 |
| 3 | 18 | WH | 3686945C1 |
| 4 | 18 | YL | 3686945C1 |
| 5 | 18 | LTGN | 3686945C1 |
| 6 | 18 | TN | 3686945C1 |
| 7 | 18 | GY | 3686945C1 |
| 8 | 18 | TN | 3686945C1 |
| 9 | 18 | YL | 3686945C1 |
| 10 | 18 | LTBL | 3686945C1 |
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| 18 | 18 | LTBL | 3686945C1 |
| 19 | 18 | LTBL | 3686945C1 |
| 20 | 18 | LTBL | 3686945C1 |

**Figure 724  Connector Composites (7250), (7250M), (7251M)**
CHAPTER 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

TRANSMISSION BULKHEAD

(located at transmission bulkhead connection)

Figure 725  Connector Composites (7350)
13.209. CONNECTOR COMPOSITES (7500), P. 89B

**NAVISTAR, INC.**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

**TRANSMISSION CONTROL MODULE (7500)**

(LOCATED IN ENGINE SIDE)

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

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**CHAPTER 13 CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**Figure 726**  Connector Composites (7500)
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**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**Figure 727  Connector Composites (7500M), (7500MA), (7500W)**

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**Connector 1661778C1**

**Body Lock 1661874C1**

**MERITOR G BACK-UP LIGHT**

*(Located on Top Rear of Transmission)*

**REVERSE LIGHT**

*(Located on Top of Transmission)*

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**
13.211. CONNECTOR COMPOSITES (7501), (7502), (7502M), (7600), (7600A), P. 90

Figure 728  Connector Composites (7501), (7502), (7502M), (7600), (7600A)
13.212. CONNECTOR COMPOSITES (7600A), (7600M), (7601), P. 90A

TACHOGRAPH SENSOR
(7600A)
(LOCATED ON FRONT CENTER DASH PANEL)

CONNECTOR 3535481C1
BODY LOCK 3610532C1

OUTPUT SPEED SENSOR
(7600M)
(LOCATED ON REAR OF TRANSMISSION)

CONNECTOR 3535481C1
BODY LOCK 3610532C1

MERITOR G SPEED SENSOR
(7601)
(LOCATED ON REAR OF TRANSMISSION)

CONNECTOR 3610533C1
W/ DURASTAR

SPEEDO SENSOR
(7601)
(LOCATED ON REAR OF TRANSMISSION)

CONNECTOR 3554317C1

* W/MANUAL SHIFT SPEEDO CIRCUIT

Figure 729  Connector Composites (7600A), (7600M), (7601)
13.213. CONNECTOR COMPOSITES (7601), (7601M), (7603), P. 90B

Figure 730  Connector Composites (7601), (7601M), (7603)
Figure 731  Connector Composites (7603M), (7603MA), (7604M), (7605), (7605M), (7606M), (7607M), (7608M)
13.215. CONNECTOR COMPOSITES (7609B), (7609M), P. 91A

Figure 732  Connector Composites (7609B), (7609M)
13.216. CONNECTOR COMPOSITES (7611), (7615), (7615M), (7621), (7700K), P. 92

**Figure 733**  Connector Composites (7611), (7615), (7615M), (7621), (7700K)
13.217. CONNECTOR COMPOSITES (7700L), (7700M), (7702), (7703), (7750), (7751), P. 92A

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO**

**BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF**

**NAVISTAR, INC.**

---

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**Figure 734**  Connector Composites (7700L), (7700M), (7702), (7703), (7750), (7751)
### 13.218. CONNECTOR COMPOSITES (7777), (7800F), (7801), (7801A), (7801B), P. 92B

#### NAVISTAR, INC.

**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

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**MAP/AAT (7777)**

(LOCATED ON FRONT CENTER DASH PANEL)

**CONNECTOR 3R27828C1**

**BODY LOCK 3R27828C1**

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**MAF/AAT (7777)**

(LOCATED ON FRONT CENTER DASH PANEL)

**CONNECTOR 3R27828C1**

**BODY LOCK 3R27828C1**

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**ENGINE TRANS (7800F)**

**CONNECTOR 3R27828C1**

**BODY LOCK 3R27828C1**

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**RELOCATED J1939 TERMINATING RESISTOR (7801)**

(LOCATED NEAR THE ENGINE ECM CONNECTION)

**CONNECTOR 1667741C1**

**BODY LOCK 1667771C1**

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**J1939 W/ALLISON (7801A)**

**CONNECTOR 1667741C1**

**BODY LOCK 1667771C1**

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**J1939 W/ALLISON (7801B)**

**CONNECTOR 1667741C1**

**BODY LOCK 1667771C1**

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**CAV**

**CIRCUIT GAUGE**

**COLOR**

**TERMINAL**

**SEAL/SLEEVE**

**A**

**K5B(+) 18 YL 1661875C1 3568570C1**

**B**

**PLUG - - 2025431C1 -**

**C**

**K5B(-) 18 GN 1661875C1 3568570C1**

**CAV**

**CIRCUIT GAUGE**

**COLOR**

**TERMINAL**

**SEAL/SLEEVE**

**A**

**K5A(+) 18 YL 1661875C1 3568570C1**

**A* K5A(+ 18 YL 1661875C1 3568570C1**

**A# K5C(+ 18 YL 1661875C1 3568570C1**

**A* K5A(- 18 GN 1661875C1 3568570C1**

**A# K5C(- 18 GN 1661875C1 3568570C1**

**B**

**PLUG - - 2025431C1 -**

**C**

**K5D(-) 18 GN 1661875C1 3568570C1**

**C* K5A(- 18 GN 1661875C1 3568570C1**

**C# K5C(- 18 GN 1661875C1 3568570C1**

**CAV**

**CIRCUIT GAUGE**

**COLOR**

**TERMINAL**

**SEAL/SLEEVE**

**A**

**K5B(+) 18 YL 1661875C1 3568570C1**

**B**

**PLUG - - 2025431C1 -**

**C**

**K5B(-) 18 GN 1661875C1 3568570C1**

**C* K5A(- 18 GN 1661875C1 3568570C1**

**C# K5C(- 18 GN 1661875C1 3568570C1**

**Figure 735 Connector Composites (7777), (7800F), (7801), (7801A), (7801B)**
13.219. CONNECTOR COMPOSITES (7801F), (7801M), (7801M2), (7801R), P. 93

Figure 736  Connector Composites (7801F), (7801M), (7801M2), (7801R)
Figure 737  Connector Composites (7802), (7803), (7803A), (7900), (7901)
CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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Figure 738  Connector Composites (7905), (7905A)
13.222. CONNECTOR COMPOSITES (7909), P. 95A

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CHAPTER 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

**EATON GEN3 TCM**

(LOCATED ON LEFT SIDE OF TRANSMISSION)

**CONNECTOR 3559542C1**

- CAV CIRCUIT GAUGE COLOR TERMINAL
  - 1 F1000 18 OH 3555249C1
  - 2 K3AC(-) 18 OH 3518963C1
  - 3 K3AC(+) 18 YL 3518963C1
  - 4 K3AC 18 PE 3555249C1
  - 5 F1000 18 GN 3527276C1
  - 6 F1000 18 YL 3527276C1
  - 7 F1000 18 BK 3527276C1
  - 8 F1000 18 WH 3527276C1
  - 9 K92BL 16 YL 3555249C1
  - 10 K92BL 16 BK 3555249C1
  - 11 K92BL 16 BK 3518963C1
  - 12 K92BL 16 YL 3518963C1
  - 13 K92BL 16 YL 3527276C1
  - 14 F1000 18 GN 3527276C1
  - 15 K92BL 16 TH 3555249C1
  - 16 K92BL 16 TH 3518963C1
  - 17 K92BL 16 TH 3527276C1
  - 18 K92BL 16 TH 3518963C1
  - 19 F1000 18 GN 3527276C1
  - 20 K92BL 16 LTBL 3527276C1
  - 21 K92BL 16 LTBL 3518963C1
  - 22 K92BL 16 WH 3518963C1
  - 23 F1000 18 GN 3527276C1
  - 24 F1000 18 GN 3518963C1
  - 25 K92BL 16 TH 3527276C1
  - 26 K92BL 16 TH 3518963C1
  - 27 K92BL 16 TH 3527276C1
  - 28 K92BL 16 TH 3518963C1
  - 29 F1000 18 GN 3527276C1
  - 30 F1000 18 GN 3527276C1
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- **J1939 EATON GEN3**
- **J1939 EATON HYBRID GEN3**
- MUTUALLY EXCLUSIVE
  - EATON ULTRASHIFT W/ PARK PAWL
  - EATON ULTRASHIFT R/ PARK PAWL
  - GROUND W/ EATON ULTRASHIFT

**Figure 739** Connector Composites (7909)
CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

Figure 740  Connector Composites (7910), (7911)
**13.224. CONNECTOR COMPOSITES (8000), (8000A), (8001), P. 97**

**NAVISTAR, INC**

---

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

---

**ELECTRICAL CIRCUIT DIAGRAM**

**MAF/ATT CONNECTOR**

-(8000) (LOCATED ON ENGINE)

**Figure 741** Connector Composites (8000), (8000A), (8001)
**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

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---

**Figure 742  Connector Composites (8001A), (8102A), (8102), (8103), (8103A), (8150A), (8151A), P. 97A**
13.226. CONNECTOR COMPOSITES (8103), (8150), (8151), P. 98

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

CHAPTER 13

TRANSMISSION FUSE (8103)

CONNECTOR 1667639C1
BODY LOCK 1675481C1

SHOWFLOW HARNESS CONNECTOR (8103)
(LOCATED BY LEFT FRAME RAIL NEAR HOOD)

CONNECTOR 2039311C91
BODY LOCK 2039332C1

* BASE, HIGH VIS HOOD, W/ SHOW FLOW LIGHTS, 5FT

LEFT GUIDE POST LIGHT (8150)
(LOCATED ON HOOD LEFT SIDE)

CONNECTOR 1661778C1
BODY LOCK 1661874C1

RIGHT GUIDE POST LIGHT (8151)
(LOCATED ON HOOD RIGHT SIDE)

CONNECTOR 1661778C1
BODY LOCK 1661874C1

Figure 743  Connector Composites (8103), (8150), (8151)
13.227. CONNECTOR COMPOSITES (8200), (8200X), (8201), (8201X), P. 99

**Figure 744  Connector Composites (8200), (8200X), (8201), (8201X)**
Figure 745  Connector Composites (8301), (8301A), (8303), (8410), (8500)
13.229. CONNECTOR COMPOSITES (8500), (8501), (8502), (8502A), (8502B), (8503), P. 100

Figure 746  Connector Composites (8500), (8501), (8502), (8502A), (8502B), (8503)
13.230. CONNECTOR COMPOSITES (8503A), (8503B), (8503C), (8505), (8506), (8506A), (8507), P. 101

**NAVISTAR, INC.**

**ELECTRICAL CIRCUIT DIAGRAM**

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**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**CONNECTOR BODY COMPOSITES (8503A), (8503B), (8503C), (8505), (8506), (8506A), (8507), P. 101**

---

**Figure 747**  Connector Composites (8503A), (8503B), (8503C), (8505), (8506), (8506A), (8507)
13.231. CONNECTOR COMPOSITES (8507A), (8507B), (8507C), (8508), (8508A), (8509), (8509A), P. 102
13.232. CONNECTOR COMPOSITES (8520), (8600), (8600A), (8601), (8602), (8700), (8700A), (8700B), (8700C), P. 103

**NAVISTAR, INC.**

**ELECTRICAL CIRCUIT DIAGRAM**

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**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

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---

**RADIATOR GROUND (8520)**

- Located in Chassis
- Mutually Exclusive

**CONNECTOR 0887566C91**

**RADIATOR GROUND STANDARD HOOD (8520A)**

- Located near front bumper
- Mutually Exclusive

**CONNECTOR 0887566C91**

---

**TEMP SENDER**

- Located near front bumper
- Mutually Exclusive

**CONNECTOR 3822068C1**

**A/C PRESSURE TRANSDUCER/ A/C PRESSURE TRANSDUCER AS CARRYOVER (8600)**

- Located on AC line at front right of engine
- Mutually Exclusive

**CONNECTOR 1687537C91**

---

**LEFT / RIGHT HEATED MIRROR FWD HOOD MTD**

- Standard Hood (8700A)
- Located on hood right side

**CONNECTOR 0887567C91**

**W/ WORKSTAR**

**LEFT HEATED MIRROR FWD HOOD MTD STANDARD HOOD (8700A)**

- Located on hood left side

**CONNECTOR 0887567C91**

**W/ WORKSTAR**

---

**FWD CHASSIS/IP INTERCONNECT BLACK (8520)**

- Located on underside of hood-left front

**CONNECTOR 36001924C1**

**W/ TRANSTAR**

**CONNECTOR 0887566C91**

---

**BODY LOCK 3601925C1**

**W/ TRANSTAR & W/ DURASTAR**

**W/ WORKSTAR**

---

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

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**Figure 749 Connector Composites (8520), (8600), (8600A), (8601), (8602), (8700), (8700A), (8700B), (8700C)**
13.233. CONNECTOR COMPOSITES (8701), (8701A), (8702A), P. 104

Figure 750  Connector Composites (8701), (8701A), (8702A)
13.234. CONNECTOR COMPOSITES (8701), (8702), (8750), (8800), (8802), (8803), P. 105

Figure 751  Connector Composites (8701), (8702), (8750), (8800), (8802), (8803)
13.235. CONNECTOR COMPOSITES (8804), (8805), (8805A), (8806), P. 106

**NAVISTAR, INC**

**CHAPTER 13**

**ELECTRICAL CIRCUIT DIAGRAM**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**TEMP SENDER** (8804)

(LOCATED NEAR FRONT BUMPER)

W/ TRANSISTOR

**HOOD SWITCH** (8805)

(LOCATED ON HOOD LEFT SIDE)

W/ WORKSTAR & W/ DURASTAR

**CONNECTOR 3518182C1**

**BODY LOCK 3518184C1**

**CONNECTOR 3551896C1**

**BODY LOCK 3551897C1**

**AIR SOLENOID GROUND SPLICE** (8805)

(LOCATED NEAR LEFT FRAME RAIL BACK OF CAB)

**CHASSIS SOLENOID GROUND SPLICE** (8806)

(LOCATED NEAR LEFT FRAME RAIL BACK OF CAB)

* MUTUALLY EXCLUSIVE

* W/ IBB ENGINE

& W/ EV DISCONNECT SWITCH

@ W/ FWS MOUNTING (RACOR)

* W/ TRANSTAR 2

* W/ WORKSTAR & W/ DURASTAR

**HOOD SWITCH STANDARD HOOD** (8805A)

(LOCATED ON HOOD LEFT SIDE)

**HOOD SWITCH** (8805)

(LOCATED NEAR LEFT FRAME RAIL BACK OF CAB)

**Figure 752**  Connector Composites (8804), (8805), (8805A), (8806)
13.236. CONNECTOR COMPOSITES (8807), (8809), (8881), (8882), (8883), P. 107

Figure 753  Connector Composites (8807), (8809), (8881), (8882), (8883)
CHAPTER 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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Figure 754  Connector Composites (8883), (8884)
**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**NOTE: UTILITY BODY CIRCUIT NAMES**

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**Figure 755  Connector Composites (8884A)**
13.239. CONNECTOR COMPOSITES (8884B), P. 110

**Figure 756** Connector Composites (8884B)
13.240. CONNECTOR COMPOSITES (8884C), P. 111

Chapter 13

Connectors Body Composites Matting View Shown

**Figure 757** Connector Composites (8884C)
CHAPTER 13
CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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Figure 758 Connector Composites (8885), (8885A), (8887), (8888), (8888)
13.242. CONNECTOR COMPOSITES (8900), (8901M), (8903), P. 113

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<td>CHAPTER 13</td>
<td>CONNNECTOR BODY COMPOSITES MATING VIEW SHOWN</td>
</tr>
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**Eaton Vorad Antenna Assy (8900)**

- **Reference**:RELEASE NO. SHEET CHK DRAWN NAME PART NO. DATE CHANGE REV
- **Diagram**: A/VORAD VS-400 Forward Radar (Located on Front Crossmember)
- **Connector**: 3545577C1
- **Body Lock**: 3545579C1

**Table**: CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE

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**Figure 759** Connector Composites (8900), (8901M), (8903)

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**Bendix Wingman (8903)**

- **Reference**: RELEASE NO. SHEET CHK DRAWN NAME PART NO. DATE CHANGE REV
- **Diagram**: Bendix Wingman (Located on Chassis)
- **Connector**: 6111813C1

**Table**: CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE

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**Figure 759** Connector Composites (8900), (8901M), (8903)
13.243. CONNECTOR COMPOSITES (8993F), (8995), (8996), P. 114

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**GROUND**

**RELEASE NO.**

**SHEET**

**REF.**

**DATE**

**CHANGE**

**REV**

**Figure 760 Connector Composites (8993F), (8995), (8996)**
13.244. CONNECTOR COMPOSITES (8997), (8998), (8999), (9001), (9002), P. 115

Figure 761  Connector Composites (8997), (8998), (8999), (9001), (9002)
Figure 762  Connector Composites (9001A), (9003), (9003K), (9003L), (9004), (9100), (9100A)
13.246. CONNECTOR COMPOSITES (9100B), (9100C), (9101), (9101A), (9102A / 9102), (9102B), (9102C), (9102D / 9102W), (9102E), (9103 / 9102V / 9102X), (9103A), P. 117

**NAVISTAR, INC**

**ELECTRICAL CIRCUIT DIAGRAM**

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**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

---

**Figure 763**  Connector Composites (9100B), (9100C), (9101), (9101A), (9102A / 9102), (9102B), (9102C), (9102D / 9102W), (9102E), (9103 / 9102V / 9102X), (9103A)
Figure 764  Connector Composites (9108A), (9108B), (9108C), (9108D), (9108E), (9108F), (9108G)
**Chapter 13**

**Circuit Diagram, 42/43/44/85/8600 & 73/74/7500**

**Connector Body Composites**

**Mating View Shown**

**Figure 765** Connector Composites (9109), (9120), (9120A), (9250), (9251), (9251A)
13.249. CONNECTOR COMPOSITES (9260), (9261), (9263F), (9264F), P. 120

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**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**BATTERY ECM NEGATIVE (9260)**
(LOCATED AT LEFT SIDE OF ENGINE)

* MUTUALLY EXCLUSIVE

# W/ V8 ENGINE
@ W/ I6, I-367 ENGINE

**CONNECTOR 1667732C1**
**BODY LOCK 1667734C1**

**CONNECTOR 1669834C1**
**BODY LOCK 1675053C1**

**BATTERY ECM POSITIVE (9261)**
(LOCATED AT LEFT SIDE OF ENGINE)

**CONNECTOR 1667733C1**
**BODY LOCK 1667734C1**

**BATTERY ECM NEGATIVE (9263F)**
(LOCATED NEAR IP HARNESS)

**CONNECTOR 1669834C1**
**BODY LOCK 1675053C1**

**BATTERY ECM POSITIVE (9264F)**
(LOCATED NEAR IP HARNESS)

**CONNECTOR 1669834C1**
**BODY LOCK 1675053C1**

---

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

**A** 614-GD 10 WH 2025425C1 1667735C1

**B** 614-G 10 WH 2025425C1 1671403C1

**C** 614-HG 10 WH 2025425C1 1677443C1

---

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

**A** 97-GA 10 RD 2025425C1 1667735C1

**B** 97-G 12 RD 2025425C1 1671603C1

**C** 97-HG 10 RD 2025425C1 1677443C1

---

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

**A** N14HC 10 RD 1687848C1 0589390C1

**B** K14-GD 10 WH 1687848C1 0589390C1

**C** K14-G 12 WH 2033912C1 0589391C1

---

**Figure 766  Connector Composites (9260), (9261), (9263F), (9264F)**
13.250. CONNECTOR COMPOSITES (9264M), (9265), (9266), (9269), (9270), (9280), P. 121

**Figure 767** Connector Composites (9264M), (9265), (9266), (9269), (9270), (9280)
13.251. CONNECTOR COMPOSITES (9300), P. 122

Figure 768  Connector Composites (9300)
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Figure 769 Connector Composites (9300)
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Figure 770  Connector Composites (9300)
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Figure 772  Connector Composites (9310), (9311), (9315), (9316), (9357)
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Figure 773  Connector Composites (9501), (9501A), (9502), (9502A)
### 13.257. CONNECTOR COMPOSITES (9503), (9503A), (9504), P. 128

**Figure 774** Connector Composites (9503), (9503A), (9504)

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**NAVISTAR, INC**

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**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATEING VIEW SHOWN**

**RIGHT REAR WHEEL SPEED SENSOR (9503)**

(LOCATED ON RIGHT FRAME RAIL BY REAR AXLE)

- CONNECTOR 1684261C1
- BODY LOCK 1684263C1

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<tr>
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* Bendix Air ABS w/ Traction Control

% Bendix Air ABS 6S/6M w/ ATC

# Bendix Air ABS 6S/6M w/ Tridem

---

**FR RIGHT WHEEL SENSOR (9503A)**

(LOCATED IN CHASSIS)

- CONNECTOR 1684261C1
- BODY LOCK 1684263C1

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**RIGHT MODULATOR (9504)**

(LOCATED ON RIGHT FRAME RAIL BY REAR AXLE)

- CONNECTOR 1684261C1
- BODY LOCK 1684263C1

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* Bendix Air ABS w/ Traction Control

% Bendix Air ABS 6S/6M w/ ATC

# Bendix Air ABS 6S/6M w/ Tridem

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**REFERENCES**

- **RELEASE NO.**
- **SHEET**
- **DATE**
- **CHANGE REV**

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13.258. CONNECTOR COMPOSITES (9504A), (9505), (9506), P. 129

RR RIGHT MODULATOR
(9504A)
(LOCATED ON RIGHT FRAME RAIL BY REAR AXLE)
CONNECTOR 166834C1
BODY LOCK 166425C1

MARC R T RR RES
(9505)
(LOCATED IN CHASSIS)
CONNECTOR 3519663C1

SUPPLY VALVE
(9506)
(LOCATED NEAR LEFT FRAME RAIL IN FRONT OF REAR AXLE)
CONNECTOR 357964C1

5TH MODULATOR REAR REAR AXLE
(9506)
(LOCATED IN CHASSIS)
CONNECTOR 166834C1

CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE
A R94RJ 16 GY 2033819C1 1652325C1
B R94RK 16 GY 2033819C1 1652325C1
C R94RL 16 GY 2033819C1 1652325C1

CAV CIRCUIT GAUGE COLOR TERMINAL
1 MSR 16 BK ASSY
2 MSU 16 WH ASSY

Figure 775 Connector Composites (9504A), (9505), (9506)
Chapter 13

Connector Composites (9510), (9510A), (9510B)

Figure 776  Connector Composites (9510), (9510A), (9510B)
**Figure 777  Connector Composites (9510F), (9510H), (9510M)**
13.261. CONNECTOR COMPOSITES (9511), P. 132

Figure 778  Connector Composites (9511)
13.262. CONNECTOR COMPOSITES (9511K), P. 133

Figure 779  Connector Composites (9511K)
**Figure 780  Connector Composites (9512), (9512A), (9512C), (9513), (9513A), (9513B)**
13.264. CONNECTOR COMPOSITES (9514), (9514D), (9514F), (9516), (9516M), P. 135

Figure 781  Connector Composites (9514), (9514D), (9514F), (9516), (9516M)
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13.265. CONNECTOR COMPOSITES (9517), (9518), (9519), (9520), (9521), P. 136

**NAVISTAR, INC**

**CHAPTER 13**

**ELECTRICAL CIRCUIT DIAGRAM**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**WABCO RIGHT AIR WHEEL SPEED SENSOR**

(LOCATED ON RIGHT FRAME RAIL BY REAR AXLE)

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**CONNECTOR 351865C1**

**WABCO LEFT REAR AIR ABS MODULATOR**

(9518)

(LOCATED ON LEFT FRAMERAIL BY REAR AXLE)

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**CONNECTOR 3554538C1**

**WABCO RIGHT REAR AIR ABS MODULATOR**

(9519)

(LOCATED ON RIGHT FRAMERAIL BY REAR AXLE)

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**CONNECTOR 3554538C1**

**WABCO LEFT REAR AIR ABS MODULATOR**

(9520)

(LOCATED ON CHASSIS)

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**CONNECTOR 1688834C1**

**BODY LOCK 168408C1**

**LEFT WHEEL SS FRONT REAR AXLE**

(9521)

(LOCATED ON LEFT FRAME RAIL BY REAR AXLE)

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<td>4</td>
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<td>OR</td>
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**CONNECTOR 1684261C1**

**BODY LOCK 168408C1**

**Figure 782  Connector Composites (9517), (9518), (9519), (9520), (9521)**
13.266. CONNECTOR COMPOSITES (9522), (9523), (9524), P. 137

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ELECTRICAL CIRCUIT DIAGRAM MANUAL

CHAPTER 13

CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

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Figure 783  Connector Composites (9522), (9523), (9524)
ABS 6S/6M CONNECTION
(9524)
(LOCATED ON LEFT FRAME RAIL BEHIND CAB)

W/ TRANSTAR
CONNECTOR 3576268C1
BODY LOCK 3576263C1

ABS/RSP CONNECTION
(9524)
(LOCATED ON DASH PANEL LEFT SIDE UPPER)

W/WORKSTAR
CONNECTOR 3549412C1
BODY LOCK 3564169C1

J1939 TERMINATING RESISTOR
(9530)
(LOCATED ON LEFT FRAME RAIL UNDER CAR)

Figure 784  Connector Composites (9524), (9530)
**Figure 785**  Connector Composites (9531F), (9531M), (9532F)
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#### NAVISTAR, INC.

**Chapter 13**

**Electrical Circuit Diagram Manual**

**Connector Body Composites Matting View Shown**

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**Table: CAV Circuit, Gauge, Color, Terminal**

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<tr>
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<td>PLUG</td>
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**Figure 786** Connector Composites (9532M), (9533F)

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**Reference**

**Release No.**

**Sheet**

** CHK**

**Drawn**

**Name**

**Part No.**

**Date**

**Rev**

**Change**

**Comment**

- Revised and redrawn. D 92674-A

**Circuit Diagram, 42/44/45/50/600 & 73/74/7500**

**Date**

**Rev No.**
**ELECTRICAL CIRCUIT DIAGRAM MANUAL**

13.270. CONNECTOR COMPOSITES (9559), (9560), (9561), (9562), P. 141

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**Figure 789** Connector Composites (9541A), (9541B), (9542), (9542A), (9542C)
Figure 790  Connector Composites (9543), (9543A), (9543C), (9544), (9546), (9547)
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CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

BENDIX 65/6M LEFT REAR REAR AIR ABS MODULATOR (9548)

(located on right frame rail by axle)

CONNECTOR 1686834C1
BODY LOCK 1664408C1

BENDIX LEFT REAR REAR MODULATOR (9548A)

(located on right frame rail by rear axle)

CONNECTOR 1686834C1
BODY LOCK 1664408C1

BENDIX 65/6M LEFT REAR REAR ABS WHEEL SPEED SENSOR (9549)

(located on right frame rail by rear axle)

CONNECTOR 1684261C1
BODY LOCK 1684263C1

BENDIX LEFT REAR REAR WSS (9549A)

(located on right frame rail by rear axle)

CONNECTOR 1684261C1
BODY LOCK 1684263C1

BENDIX LEFT RR RR WSS (9549B)

(located on right frame rail by rear axle)

CONNECTOR 1684261C1
BODY LOCK 1684263C1

CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLV

A  R94E  16  GY  2033819C1  1652325C1
B  R94D  16  GY  2033819C1  1652325C1
C  R94C  16  GY  2033819C1  1652325C1

CAV CIRCUIT GAUGE COLOR TERMINAL

1  R94A  16  GY  1680205C1
2  R94B  16  GY  1680205C1

Figure 791  Connector Composites (9548), (9548A), (9549), (9549A), (9549B)
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**BENDIX 6S/6M RIGHT REAR AIR ABS MODULATOR**
(9550)
(LOCATED ON RIGHT FRAME RAIL BY REAR AXLE)

**HYD PUMP 1 BATTERY FEED**
(9550)
(LOCATED AT LEFT SIDE OF VEHICLE AT FLASHER PLATE)

**HYDRAULIC PUMP MOTOR BATTERY FEED**
(9550)
(LOCATED AT LEFT SIDE OF VEHICLE AT FLASHER PLATE)

**HYD PUMP MOTOR BATTERY FEED**
(9550)
(LOCATED NEAR BATTERY CABLE)

**BENDIX RIGHT REAR MODULATOR**
(9550A)
(LOCATED ON RIGHT FRAME RAIL BY REAR AXLE)

**HYD PUMP 1 BATTERY FEED**
(9550)
(LOCATED NEAR BATTERY CABLE)

**Figure 792  Connector Composites (9550), (9550A)**
13.276. CONNECTOR COMPOSITES (9550A), (9550B), (9551), (9551A), (9552), P. 147

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**CHAPTER 13**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**HYDRAULIC PUMP MOTOR BATTERY FEED (9550A)**

**CONNECTOR 3537130C1**

**BENDIX RR MOD (9550B)**

(LOCATED ON RIGHT FRAME RAIL BY REAR AXLE)

**CONNECTOR 1686834C1**

**BODY LOCK 1684308C1**

**BENDIX 85/86 RIGHT REAR ABS WHEEL SPEED SENSOR (9551)**

(LOCATED ON RIGHT FRAME RAIL BY REAR AXLE)

**CONNECTOR 1684261C1**

**BODY LOCK 1684263C1**

**BENDIX RIGHT REAR WSS (9551A)**

(LOCATED ON RIGHT FRAME RAIL BY REAR AXLE)

**CONNECTOR 1684261C1**

**BODY LOCK 1684263C1**

**CENTER CHASSIS/IP INTERCONNECT RHD (9552)**

(LOCATED ON LH CHASSIS)

**CONNECTOR 3601923C1**

**BODY LOCK 3601925C1**

---

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLV**

<table>
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**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLV**

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**Figure 793 Connector Composites (9550A), (9550B), (9551), (9551A), (9552)**
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Figure 797  Connector Composites (9751), (9752), (9753), (9753A), (9754), (9754B), (9754D)
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Figure 799  Connector Composites (9759), (9760)
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CONNECTOR BODY COMPOSITES MATING VIEW SHOWN

LIFT AXLE
(9761F)

FIRST PUSHER LIFT AXLE
(9762)

SECOND PUSHER LIFT AXLE SOLENOID
(9763)

THIRD PUSHER AXLE
(9764)

FOURTH PUSHER AXLE
(9765)

WORK LIGHT
(9766)

* MUTUALLY EXCLUSIVE

# W/2 STEERABLE PUSHERS

Figure 800  Connector Composites (9761F), (9762), (9763) (9764), (9765), (9766)
CHAPTER 13

CONNECTOR BODY COMPOSITES MATEING VIEW SHOWN

CHAPTER 13

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Figure 801 Connector Composites (9767), (9775F), (9776F), (9777), (9777A), (9777E), (9777M), (9778)
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**13.287. CONNECTOR COMPOSITES (9781M), (9782F), (9782M), P. 158**

**Figure 804  Connector Composites (9781M), (9782F), (9782M)**

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**BLACK AUX TRAILER SOCKET #1**
(LOCATED BACK OF CAB FOR AUX TRAILER SOCKET INTERCONNECT)

**CONNECTOR 1667738C1**
**BODY LOCK 1667734C1**

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<td>1667734C1</td>
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**BLACK AUX TRAILER SOCKET #2**
(LOCATED BACK OF CAB FOR AUX TRAILER SOCKET INTERCONNECT)

**CONNECTOR 1667738C1**
**BODY LOCK 1667734C1**

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**ISO TRAILER SOCKET**
(LOCATED BACK OF CAB FOR TRAILER SOCKET INTERCONNECT)

**CONNECTOR 2031531C1**
**BODY LOCK 2033927C1**

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**ISO TRAILER SOCKET**
(LOCATED BACK OF CAB FOR TRAILER SOCKET INTERCONNECT)

**CONNECTOR 2031531C1**
**BODY LOCK 2033927C1**

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**NOTE:** THIS PRINT IS PROVIDED ON A RESTRICTED BASIS AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THE INTEREST OF NAVISTAR, INC.
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**CHAPTER 14**

**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

**TRANSFER CASE JUMPER TO CENTER CHASSIS**

(9750F)

(LOCATED AT TRANSFER CASE)

CONNECTOR 1661778C1
BODY LOCK 1661874C1

**DC-DC CONV**

(9750F)

(LOCATED IN CHASSIS)

CONNECTOR 3665562C1
BODY LOCK 3665586C1

**RESOLVER**

(9753)

(LOCATED IN CHASSIS)

CONNECTOR 3665562C1
BODY LOCK 3665586C1

---

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

| A | 1661875C1 | 3568570C1 | 18 | K47 | 18 | GY | 1661875C1 |
| B | 1661875C1 | 3568570C1 | 18 | K47A | 18 | GY | 1661875C1 |

* MUTUALLY EXCLUSIVE

---

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

| 1 | N92PB | 18 | TH | 1661876C1 |
| 2 | N92PA | 18 | TH | 1661876C1 |
| 3 | N92PC | 18 | TD | 1661876C1 |
| 4 | N92PD | 18 | TD | 1661876C1 |
| 5 | N92PE | 18 | TD | 1661876C1 |
| 6 | N92PF | 18 | TD | 1661876C1 |

---

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

| 1 | N92DB | 18 | TH | 1651969C1 |
| 2 | N92DA | 18 | TH | 1651969C1 |
| 3 | N11-GHF | 18 | TH | 1651969C1 |

---

**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

| 1 | N92RA | 18 | TN | 3665563C1 |
| 2 | N92RB | 18 | TN | 3665563C1 |
| 3 | N92RC | 18 | TN | 3665563C1 |
| 4 | N92RD | 18 | TN | 3665563C1 |
| 5 | N92RE | 18 | TN | 3665563C1 |
| 6 | N92RF | 18 | TN | 3665563C1 |

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**Figure 825**  Connector Composites (9750F), (9751), (9752), (9753)
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Figure 830  Connector Composites (9765), (9766), (9767), (9775F), (9776F)
14.17. CONNECTOR COMPOSITES (9777), (9777A), (9777E), (9777M), P. 17

Figure 831  Connector Composites (9777), (9777A), (9777E), (9777M)
14.18. CONNECTOR COMPOSITES (9778), (9778F), (9778F1), P. 18

**REMOTE START / STOP**

(LOCATED BACK OF CAB FOR TRAILER SOCKET INTERCONNECT)

**CONNECTOR 3587567C91**

**CONNECTOR 3537133C1**

**GREEN AIR TRAILER SOCKET GND**

(LOCATED AT BACK OF CAB FOR TRAILER SOCKET INTERCONNECT)

**TRAILER SOCKET GND**

(LOCATED AT BACK OF CAB FOR TRAILER SOCKET INTERCONNECT)

**CONNECTOR 3517817C1**

**CONNECTOR 3537133C1**

* MUTUALLY EXCLUSIVE

---

**Figure 832**  Connector Composites (9778), (9778F), (9778F1)
14.19. CONNECTOR COMPOSITES (9779F), (9779F1), P. 19

TRAILER SOCKET #2
(9779F)
(LOCATED AT BACK OF CAR FOR TRAILER SOCKET INTERCONNECT)

GREEN ABS TRAILER SOCKET 2
(9779F)
(LOCATED AT END OF FRAME NEAR REAR AXLES)

TRAILER SOCKET 2
(9779F1)
(LOCATED BACK OF CAR FOR TRAILER SOCKET INTERCONNECT)

Figure 833  Connector Composites (9779F), (9779F1)
14.20. CONNECTOR COMPOSITES (9780M), (9780M1), P. 20

**Figure 834 Connector Composites (9780M), (9780M1)**
Figure 835  Connector Composites (9781M), (9782F), (9782M)
14.22. CONNECTOR COMPOSITES (9783), (9783F), (9783M), (9784M), (9785M), P. 22

**Figure 836  Connector Composites (9783), (9783F), (9783M), (9784M), (9785M)**

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<tr>
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<tbody>
<tr>
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<td>INITIAL RELEASE</td>
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**CAV CIRCUIT GAUGE COLOR TERMINAL SEAL/SLEEVE**

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Figure 837  Connector Composites (9800)
14.24. CONNECTOR COMPOSITES (9800), P. 24
14.25. CONNECTOR COMPOSITES (9801), (9801A), (9801B), (9803), (9809), P. 24A

**Fuel Heater (9801)**

- Connector 0587567C91
  - Connector Body Composites Matting View Shown

**Fuel Heater (9801A)**

- Located in Chassis
- Connector 0587567C91
  - W/ Durastar

**Left UC Fuel Heater (9801B)**

- Located in Chassis
- Connector 0587567C91
  - W/ Durastar

**Racold Fuel Heater RGC LSH (9803)**

- Located in Chassis
- Connector 1671610C1
  - Body Lock 1671608C1

**Idle Control Temp Sender (9809)**

- Located Near Front Bumper
- Connector 3518183C1
  - W/ Transtar

---

**Figure 839**

(9801), (9801A), (9801B), (9803), (9809)
**Section 13**

**Chapter 13**

**Electrical Circuit Diagrams**

**Connector Body Composites Matings View**

**Figure 840** Connector Composites (9810), (9811), (9812), (9814), (9814A), (9815), (9815A), (9820F), (9820M), (9824), P. 25

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**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

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**CONNECTOR BODY COMPOSITES MATING VIEW SHOWN**

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<td>10 GT 1661224C1</td>
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<tr>
<td>3 A97B</td>
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<tr>
<td>4 A97C</td>
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**LOAD INDICATOR (9965M)**

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<tr>
<td>B BLINK 10 GT 1661224C1 1661224C1</td>
</tr>
<tr>
<td>C BLINK 10 GT 1661224C1 1661224C1</td>
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</tbody>
</table>

**JAW LOCK MONITOR (9989)**

<table>
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<tr>
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</tr>
<tr>
<td>B HILER 10 GT 1661224C1 1661224C1</td>
</tr>
<tr>
<td>C HILER 10 GT 1661224C1 1661224C1</td>
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</tbody>
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**Figure 846** Connector Composites (9930), (9965M), (9989)