

## Daytime Running Lamp: Testing and Inspection

### Pinpoint Tests

#### Test A

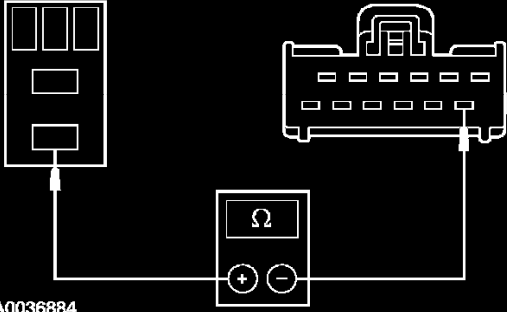
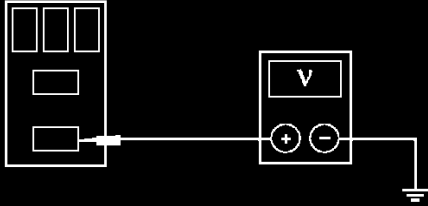
#### PINPOINT TEST A: THE DAYTIME RUNNING LAMPS ARE INOPERATIVE

PINPOINT TEST A: THE DAYTIME RUNNING LAMPS ARE INOPERATIVE		
Test Step		Result / Action to Take
<b>A1</b>	<b>VERIFY THE LOW BEAMS OPERATE</b> <ul style="list-style-type: none"> <li>Place the headlamp switch in the low beams position.</li> <li><b>Do the low beams operate correctly?</b></li> </ul>	<b>Yes</b> PLACE the headlamp switch in the OFF position. GO to <b>A2</b> . <b>No</b> REFER to Headlamp.
<b>A2</b>	<b>CHECK THE DRL PARKING BRAKE RELAY CIRCUIT</b> <ul style="list-style-type: none"> <li>Key in ON position.</li> <li>Engage and release the parking brake.</li> <li><b>Does the parking brake warning indicator illuminate when the parking brake is engaged and go off when the parking brake is released?</b></li> </ul>	<b>Yes</b> GO to <b>A3</b> . <b>No</b> REFER to Instrument Panel, Gauges and Warning Indicators.
<b>A3</b>	<b>CHECK DRL PARKING BRAKE RELAY</b> <ul style="list-style-type: none"> <li>Key in OFF position.</li> <li>Disconnect: DRL Parking Brake Relay.</li> <li>Carry out the relay component test for the DRL parking brake relay.</li> <li><b>Is the DRL parking brake relay OK?</b></li> </ul>	<b>Yes</b> GO to <b>A4</b> . <b>No</b> INSTALL a new DRL parking brake relay. TEST the system for normal operation.
<b>A4</b>	<b>CHECK CIRCUIT 295 (LB/PK) FOR VOLTAGE</b> <ul style="list-style-type: none"> <li>Key in ON position.</li> <li>Measure the voltage between the DRL parking brake relay pin 3, circuit 295 (LB/PK), harness side and ground.</li> </ul> <div data-bbox="354 1012 841 1276" data-label="Diagram"> <p style="text-align: center;">GN1456-A</p> </div> <ul style="list-style-type: none"> <li><b>Is the voltage greater than 10 volts?</b></li> </ul>	<b>Yes</b> REINSTALL the DRL parking brake relay. GO to <b>A6</b> . <b>No</b> GO to <b>A5</b> .
<b>A5</b>	<b>CHECK CIRCUIT 295 (LB/PK) FOR AN OPEN</b> <ul style="list-style-type: none"> <li>Key in OFF position.</li> <li>Disconnect: CJB C270h.</li> </ul>	

(Continued)

Test A1-A5

**DIAGNOSIS AND TESTING (Continued)****PINPOINT TEST A: THE DAYTIME RUNNING LAMPS ARE INOPERATIVE (Continued)**

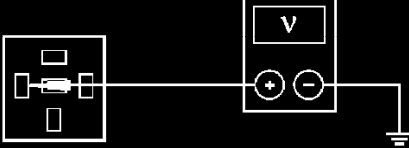
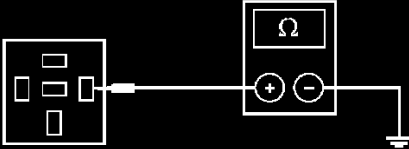
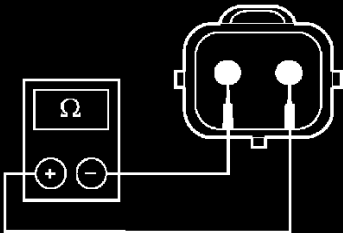
Test Step		Result / Action to Take
<b>A5</b>	<b>CHECK CIRCUIT 295 (LB/PK) FOR AN OPEN (Continued)</b>  <ul style="list-style-type: none"> <li>Measure the resistance between the DRL parking brake relay pin 3, circuit 295 (LB/PK), harness side and the CJB C270h pin 7, circuit 295 (LB/PK), harness side.</li> </ul>  <p>A0036884</p> <ul style="list-style-type: none"> <li>Is the resistance less than 5 ohms?</li> </ul>	<p><b>Yes</b> INSTALL a new CJB. TEST the system for normal operation.</p> <p><b>No</b> REPAIR the circuit. TEST the system for normal operation.</p>
<b>A6</b>	<b>CHECK THE DRL HALF RELAY NO. 2</b>  <ul style="list-style-type: none"> <li>Key in OFF position.</li> <li>Disconnect: DRL Half Relay No. 2.</li> <li>Carry out the component test for the DRL half relay No. 2.</li> <li>Is the DRL half relay No. 2 OK?</li> </ul>	<p><b>Yes</b> GO to A7.</p> <p><b>No</b> INSTALL a new DRL half relay No. 2. TEST the system for normal operation.</p>
<b>A7</b>	<b>CHECK CIRCUIT 175 (BK/YE) FOR AN OPEN</b>  <ul style="list-style-type: none"> <li>Key in ON position.</li> <li>Measure the voltage between the DRL half relay No. 2 pin 3, circuit 175 (BK/YE), harness side and ground.</li> </ul>  <p>GN1456-A</p> <ul style="list-style-type: none"> <li>Is the voltage greater than 10 volts?</li> </ul>	<p><b>Yes</b> REINSTALL the DRL half relay No. 2. GO to A8.</p> <p><b>No</b> REPAIR the circuit. TEST the system for normal operation.</p>
<b>A8</b>	<b>CHECK THE FULL RELAY NO. 1</b>  <ul style="list-style-type: none"> <li>Key in OFF position.</li> <li>Disconnect: DRL Full Relay No. 1.</li> <li>Carry out the component test for the DRL full relay No. 1.</li> <li>Is the DRL full relay No. 1 OK?</li> </ul>	<p><b>Yes</b> GO to A9.</p> <p><b>No</b> INSTALL a new DRL full relay No. 1. TEST the system for normal operation.</p>
<b>A9</b>	<b>CHECK CIRCUIT 1032 (WH/BK) FOR AN OPEN</b>  <ul style="list-style-type: none"> <li>Key in ON position.</li> </ul>	

(Continued)

Test A5-A9

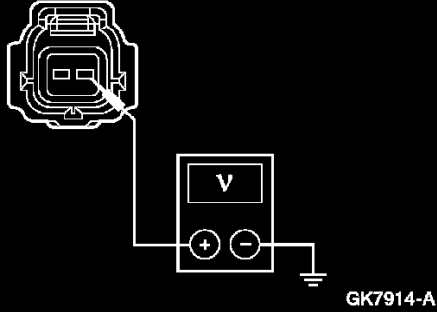
**DIAGNOSIS AND TESTING (Continued)**

**PINPOINT TEST A: THE DAYTIME RUNNING LAMPS ARE INOPERATIVE (Continued)**

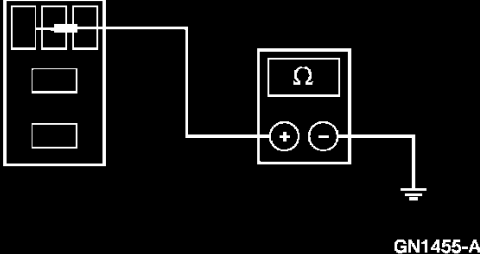
Test Step		Result / Action to Take
<b>A9</b>	<p><b>CHECK CIRCUIT 1032 (WH/BK) FOR AN OPEN (Continued)</b></p> <ul style="list-style-type: none"> <li>Measure the voltage from the DRL full relay No. 1 pin 85, circuit 1032 (WH/BK), harness side and ground.</li> </ul>  <p style="text-align: center;">GN1436-A</p> <ul style="list-style-type: none"> <li>Is the voltage greater than 10 volts?</li> </ul>	<p><b>Yes</b> GO to A10.</p> <p><b>No</b> REPAIR the circuit. TEST the system for normal operation.</p>
<b>A10</b>	<p><b>CHECK CIRCUIT 57 (BK)</b></p> <ul style="list-style-type: none"> <li>Key in ON position.</li> <li>Measure the resistance between the DRL full relay No. 1 pin 86, circuit 57 (BK), harness side and ground.</li> </ul>  <p style="text-align: center;">GN1436-A</p> <ul style="list-style-type: none"> <li>Is the resistance less than 5 ohms?</li> </ul>	<p><b>Yes</b> GO to A11.</p> <p><b>No</b> REPAIR the circuit. TEST the system for normal operation.</p>
<b>A11</b>	<p><b>CHECK THE DRL RESISTOR</b></p> <ul style="list-style-type: none"> <li>Key in OFF position.</li> <li>Disconnect: DRL Resistor C196.</li> <li>Measure the resistance between the DRL resistor pin 1 (component side), and DRL resistor pin 2 (component side).</li> </ul>  <p style="text-align: center;">GK7423-A</p> <ul style="list-style-type: none"> <li>Is the resistance between 0.225 and 0.275 ohm?</li> </ul>	<p><b>Yes</b> GO to A12.</p> <p><b>No</b> INSTALL a new DRL resistor. TEST the system for normal operation.</p>

(Continued)

**DIAGNOSIS AND TESTING (Continued)****PINPOINT TEST A: THE DAYTIME RUNNING LAMPS ARE INOPERATIVE (Continued)**

Test Step		Result / Action to Take
<b>A12</b>	<b>CHECK CIRCUIT 554 (YE/BK) FOR VOLTAGE</b>	
	<ul style="list-style-type: none"> <li>Measure the voltage between the DRL resistor C196, circuit 554 (YE/BK), harness side and ground.</li> </ul> 	<p><b>Yes</b> REPAIR circuit 471 (OG/LG). TEST the system for normal operation.</p> <p><b>No</b> REPAIR circuit 554 (YE/BK). TEST the system for normal operation.</p>
	<ul style="list-style-type: none"> <li>Is the voltage greater than 10 volts?</li> </ul>	

**Test A12****Test B****PINPOINT TEST B: THE DAYTIME RUNNING LAMPS ARE ON WITH THE PARKING BRAKE SET**

Test Step		Result / Action to Take
<b>B1</b>	<b>CHECK THE DRL PARKING BRAKE RELAY CIRCUIT</b>	
	<ul style="list-style-type: none"> <li>Key in ON position.</li> <li>Disconnect: DRL Parking Brake Relay.</li> <li>Do the DRL continue to illuminate?</li> </ul>	<p><b>Yes</b> GO to B3.</p> <p><b>No</b> GO to B2.</p>
<b>B2</b>	<b>CHECK CIRCUIT 162 (LG/RD) FOR AN OPEN</b>	
	<ul style="list-style-type: none"> <li>Key in OFF position.</li> <li>Measure the resistance from the DRL parking brake relay pin 2, circuit 162 (LG/RD), harness side and ground.</li> </ul> 	<p><b>Yes</b> INSTALL a new DRL parking brake relay. TEST the system for normal operation.</p> <p><b>No</b> REPAIR the circuit. TEST the system for normal operation.</p>
	<ul style="list-style-type: none"> <li>Is the resistance less than 5 ohms?</li> </ul>	
<b>B3</b>	<b>CHECK CIRCUIT 175 (BK/YE) FOR SHORT TO POWER</b>	
	<ul style="list-style-type: none"> <li>Disconnect: DRL Half Relay No. 2.</li> <li>Do the DRL continue to illuminate?</li> </ul>	<p><b>Yes</b> GO to B4.</p> <p><b>No</b> REPAIR the circuit. TEST the system for normal operation.</p>
<b>B4</b>	<b>CHECK CIRCUIT 13 (RD/BK) FOR SHORT TO POWER</b>	
	<ul style="list-style-type: none"> <li>Disconnect: DRL Full Relay No. 1.</li> <li>Do the DRL continue to illuminate?</li> </ul>	<p><b>Yes</b> REPAIR the circuit. TEST the system for normal operation.</p> <p><b>No</b> GO to B5.</p>

(Continued)

**Test B1-B4**

**DIAGNOSIS AND TESTING (Continued)****PINPOINT TEST B: THE DAYTIME RUNNING LAMPS ARE ON WITH THE PARKING BRAKE SET (Continued)**

Test Step		Result / Action to Take
<b>B5</b>	<b>CHECK CIRCUIT 1032 (WH/BK) FOR SHORT TO POWER</b>	<b>Yes</b> REPAIR the circuit. TEST the system for normal operation.  <b>No</b> INSTALL a new DRL full relay No.1. TEST the system for normal operation.
	<ul style="list-style-type: none"> <li>• Carry out the relay component test for the DRL full relay No. 1.</li> <li>• <b>Is the DRL full relay No. 1 OK?</b></li> </ul>	

**Test B5****Test C****PINPOINT TEST C: THE DAYTIME RUNNING LAMPS ARE ON WITH THE IGNITION SWITCH OFF**

Test Step		Result / Action to Take
<b>C1</b>	<b>CHECK CIRCUIT 13 (RD/BK) FOR SHORT TO POWER</b>	<b>Yes</b> REPAIR the circuit. TEST the system for normal operation.  <b>No</b> GO to C2.
	<ul style="list-style-type: none"> <li>• Key in OFF position.</li> <li>• Disconnect: DRL Full Relay No. 1.</li> <li>• <b>Do the DRL continue to illuminate?</b></li> </ul>	
<b>C2</b>	<b>CHECK THE DRL FULL RELAY No. 1</b>	<b>Yes</b> GO to C3.  <b>No</b> INSTALL a new DRL full relay No. 1. TEST the system for normal operation.
	<ul style="list-style-type: none"> <li>• Carry out the relay component test for the DRL full relay No. 1.</li> <li>• <b>Is the DRL full relay No. 1 OK?</b></li> </ul>	
<b>C3</b>	<b>CHECK CIRCUIT 1032 (WH/BK) FOR SHORT TO POWER</b>	<b>Yes</b> REPAIR the circuit. TEST the system for normal operation.  <b>No</b> GO to C4.
	<ul style="list-style-type: none"> <li>• Connect: DRL Full Relay No. 1.</li> <li>• Disconnect: DRL Half Relay No. 2.</li> <li>• <b>Do the DRL continue to illuminate?</b></li> </ul>	
<b>C4</b>	<b>CHECK CIRCUIT 175 (BK/YE) FOR SHORT TO POWER</b>	<b>Yes</b> REPAIR circuit 175 (BK/YE). TEST the system for normal operation.  <b>No</b> REPAIR circuit 295 (LB/BK). TEST the system for normal operation.
	<ul style="list-style-type: none"> <li>• Connect: DRL Half Relay No. 2.</li> <li>• Disconnect: DRL Parking Brake Relay.</li> <li>• <b>Do the DRL continue to illuminate?</b></li> </ul>	

**Test C1-C4**