

Cruise Control Inoperative/Malfunctioning

Diagnostic Aids

To avoid misdiagnosis, inspect for the following:

- Proper operation of brake lamps. Refer to [Exterior Lighting Systems Description and Operation](#) in Lighting Systems.
- Proper operation of the clutch system, if equipped with a manual transmission. Refer to [Clutch System Description and Operation](#) in Clutch.
- The throttle linkage is not binding.
- The vehicle speed is greater than 40 km/h (25 mph).
- The system voltage is within 9-16 volts.

Electromagnetic interference on the vehicle speed sensor signal circuit may cause erratic cruise control operation.

Step	Action	Values	Yes	No
<i>Schematic Reference:</i> Cruise Control Schematics				
<i>Connector End View Reference:</i> Cruise Control Connector End Views , Powertrain Control Module Connector End Views in Engine Controls - 2.2L (LN2), or Powertrain Control Module Connector End Views in Engine Controls - 4.3L				
1	Did you perform the Cruise Control Diagnostic System Check?	--	Go to Step 2	Go to Diagnostic System Check - Cruise Control
2	<ol style="list-style-type: none"> 1. Turn OFF the ignition. 2. Disconnect the cruise control module. 3. Turn ON the ignition, with the engine OFF. 4. Connect a test lamp between the ignition 3 voltage circuit and a good ground. Does the test lamp illuminate?	--	Go to Step 3	Go to Step 5
3	Connect a test lamp between the ignition 3 voltage circuit and the ground circuit of the cruise control module. Does the test lamp illuminate?	--	Go to Step 4	Go to Step 31
4	<ol style="list-style-type: none"> 1. Turn the cruise control On/Off switch OFF. 2. Connect a test lamp between a good ground and each of the following circuits: <ul style="list-style-type: none"> • The cruise control ON switch signal circuit • The cruise control set/coast switch signal 			

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	<p>circuit</p> <ul style="list-style-type: none"> The cruise control resume/accel switch signal circuit <p>Does the test lamp illuminate for any of the signal circuits listed above?</p>	--	Go to Step 16	Go to Step 6
5	<ol style="list-style-type: none"> Turn the cruise control On/Off switch OFF. Connect a test lamp between battery voltage and each of the following circuits: <ul style="list-style-type: none"> The cruise control ON switch signal circuit The cruise control set/coast switch signal circuit The cruise control resume/accel switch signal circuit <p>Does the test lamp illuminate for any of the signal circuits listed above?</p>	--	Go to Step 17	Go to Step 29
6	<ol style="list-style-type: none"> Turn the cruise control On/Off switch ON. Connect a test lamp between the cruise control ON switch signal circuit and a good ground. <p>Does the test lamp illuminate?</p>	--	Go to Step 7	Go to Step 18
7	<ol style="list-style-type: none"> Connect a test lamp between the cruise control set/coast switch signal circuit and a good ground. With the cruise control On/Off switch ON, press and hold the Set/Coast switch. <p>Does the test lamp illuminate?</p>	--	Go to Step 8	Go to Step 20
8	<ol style="list-style-type: none"> Connect a test lamp between the cruise control resume/accelerate switch signal circuit and a good ground. With the cruise control On/Off switch ON, press and hold the Resume/Accel switch. <p>Does the test lamp illuminate?</p>	--	Go to Step 9	Go to Step 21
9	<ol style="list-style-type: none"> Connect a test lamp between the CHMSL supply voltage/stop lamp supply voltage circuit and a good ground. Depress the brake pedal. <p>Does the test lamp illuminate?</p>	--	Go to Step 10	Go to Step 32
10	Is the vehicle equipped with a manual transmission?	--	Go to Step 12	Go to Step 11
11	Connect a test lamp between the TCC brake switch/Cruise control release signal circuit and a good ground. Refer to Circuit Testing in Wiring Systems.			

	Does the test lamp illuminate?	--	Go to Step 13	Go to Step 30
12	Connect a test lamp between the clutch start switch signal circuit and a good ground. Refer to Circuit Testing in Wiring Systems. Does the test lamp illuminate?	--	Go to Step 13	Go to Step 23
13	Connect a DMM between the cruise control engaged signal circuit and a good ground. Refer to Circuit Testing in Wiring Systems. Does the DMM display near the specified voltage?	B+	Go to Step 14	Go to Step 22
14	Connect a DMM between the vehicle speed signal circuit and a good ground. Refer to Circuit Testing in Wiring Systems. Does the DMM display near the specified voltage?	B+	Go to Diagnostic Aids	Go to Step 15
15	Test the vehicle speed signal circuit for an open or for a high resistance. Refer to Circuit Testing and to Wiring Repairs in Wiring Systems. Did you find and correct the condition?	--	Go to Step 37	Go to Step 28
16	Test the signal circuit that illuminated the test lamp for a short to voltage. Refer to Circuit Testing and to Wiring Repairs in Wiring Systems. Did you find and correct the condition?	--	Go to Step 37	Go to Step 27
17	Test the signal circuit that illuminated the test lamp for a short to ground. Refer to Circuit Testing and to Wiring Repairs in Wiring Systems. Did you find and correct the condition?	--	Go to Step 37	Go to Step 27
18	Test the cruise control on/off switch signal circuit for an open or for a high resistance. Refer to Circuit Testing and to Wiring Repairs in Wiring Systems. Did you find and correct the condition?	--	Go to Step 37	Go to Step 19
19	Test the ignition 3 voltage circuit for an open or for a high resistance between SP 200 and the multifunction switch. Refer to Circuit Testing and to Wiring Repairs in Wiring Systems. Did you find and correct the condition?	--	Go to Step 37	Go to Step 27
20	Test the cruise control set/coast switch signal circuit for an open or for a high resistance. Refer to Circuit Testing and to Wiring Repairs in Wiring Systems. Did you find and correct the condition?	--	Go to Step 37	Go to Step 27

21	<p>Test the cruise control resume/accel switch signal circuit for an open or for a high resistance. Refer to Circuit Testing and to Wiring Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 37	Go to Step 27
22	<p>Test the cruise control engaged signal circuit for an open, for a high resistance, or for a short to ground. Refer to Circuit Testing and to Wiring Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 37	Go to Step 26
23	<p>Test the clutch start switch signal circuit for an open or for a high resistance between the clutch start switch and the cruise control module. Refer to Circuit Testing and to Wiring Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 37	Go to Step 24
24	<p>Test the TCC brake switch/Cruise control release signal circuit for an open or for a high resistance between the stop lamp switch and the clutch start switch. Refer to Circuit Testing and to Wiring Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 37	Go to Step 25
25	<p>Inspect for poor connections at the harness connector of the clutch start switch. Refer to Testing for Intermittent Conditions and Poor Connections and to Connector Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 37	Go to Step 34
26	<p>Inspect for poor connections at the harness connector of the PCM. Refer to Testing for Intermittent Conditions and Poor Connections and to Connector Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 37	Go to Step 33
27	<p>Inspect for poor connections at the harness connector of the multifunction switch. Refer to Testing for Intermittent Conditions and Poor Connections and to Connector Repairs in Wiring Systems.</p> <p>Did you find and correct the condition?</p>	--	Go to Step 37	Go to Step 35
28	<p>Inspect for poor connections at the harness connector of the cruise control module. Refer to Testing for Intermittent Conditions and Poor Connections and to Connector Repairs in Wiring Systems.</p>			

	Did you find and correct the condition?	--	Go to Step 37	Go to Step 36
29	Repair the open, the high resistance, or the short to ground in the ignition 3 voltage circuit. Refer to Wiring Repairs in Wiring Systems. Did you complete the repair?	--	Go to Step 37	--
30	Repair the open or the high resistance in the TCC brake switch/Cruise control release signal circuit between S 138 and the cruise control module. Refer to Wiring Repairs in Wiring Systems. Did you complete the repair?	--	Go to Step 37	--
31	Repair the open or the high resistance in the ground circuit of the cruise control module. Refer to Wiring Repairs in Wiring Systems. Did you complete the repair?	--	Go to Step 37	--
32	Repair the open or the high resistance in the CHMSL supply voltage/stop lamp supply voltage circuit. Refer to Wiring Repairs in Wiring Systems. Did you complete the repair?	--	Go to Step 37	--
33	Important: Program the replacement PCM. Replace the PCM. Refer to the appropriate procedure: <ul style="list-style-type: none"> • Powertrain Control Module Replacement in Engine Controls - 2.2L. • Powertrain Control Module Replacement in Engine Controls - 4.3L. Did you complete the replacement?	--	Go to Step 37	--
34	Replace the clutch start switch. Refer to Clutch Pedal Engine Start Switch Replacement in Clutch. Did you complete the replacement?	--	Go to Step 37	--
35	Replace the multifunction switch. Refer to Turn Signal Multifunction Switch Replacement in Steering Wheel and Column. Did you complete the replacement?	--	Go to Step 37	--
36	Replace the cruise control module. Refer to Cruise Control Module Replacement . Did you complete the replacement?	--	Go to Step 37	--
37	Operate the vehicle within the conditions for cruise control operation.			

Does the cruise control system operate correctly? -- System OK Go to [Step 2](#)