

2005-08 ACCESSORIES AND EQUIPMENT

Cruise Control - RL

COMPONENT LOCATION INDEX

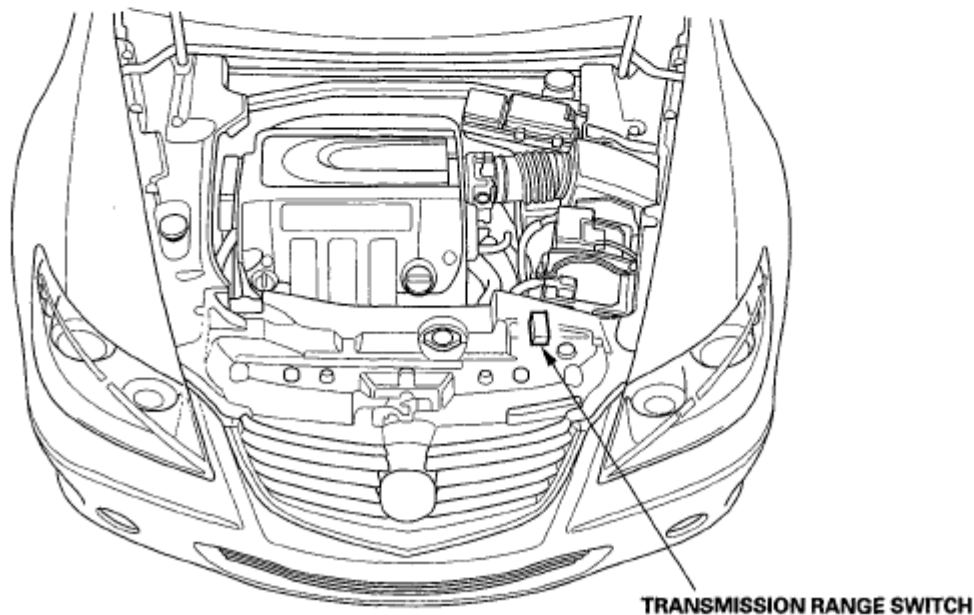
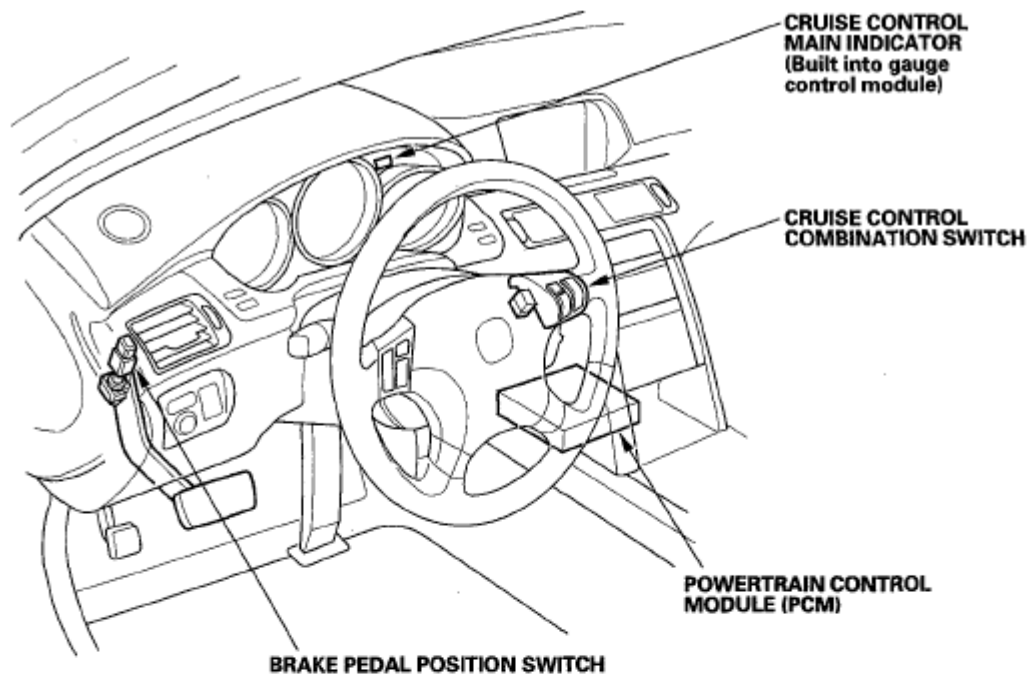


Fig. 1: Identifying Cruise Control Components Location
Courtesy of AMERICAN HONDA MOTOR CO., INC.

SYMPTOM TROUBLESHOOTING INDEX

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Symptom	Diagnostic procedure	Also check for
Cruise control cannot be set	<ol style="list-style-type: none"> 1. Check for PGM-FI and body DTCs. 2. Check the No. 13 (15A) fuse in the under-hood fuse/relay box, and the No. 18 (15A) fuse in the driver's under-dash fuse/relay box. 3. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). 4. Do the cruise control combination switch test (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>). 	
Cruise control can be set, but the cruise main indicator does not come on	<ol style="list-style-type: none"> 1. Check for PGM-FI and body DTCs. 2. Do the gauge control module self-diagnostic function procedure (see <u>SELF-DIAGNOSTIC FUNCTION</u>). 3. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the cruise control main switch signal input. 	Faulty gauge control module
Vehicle does not decelerate or accelerate accordingly when the set/decel or resume/accel switch is pressed	<ol style="list-style-type: none"> 1. Check for PGM-FI and body DTCs. 2. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the cruise control set/decel and resume/accel switch signal inputs. 3. Do the cruise control combination switch test (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>). 	Open circuit, loose or disconnected terminals: GRN/YEL, GRY, YEL/WHT, or LT GRN
Set speed does not cancel when the brake pedal is pressed	<ol style="list-style-type: none"> 1. Check for PGM-FI and body DTCs. 2. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the brake pedal position switch signal input. 	<ul style="list-style-type: none"> • Short to power in the BRN wire • Faulty brake pedal position switch
Set speed does not cancel when the cruise control main switch is pressed	<ol style="list-style-type: none"> 1. Check for PGM-FI and body DTCs. 2. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the cruise control master button signal input. 3. Do the cruise control combination switch test (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>). 	Short to ground in the BRN or PNK wire
	<ol style="list-style-type: none"> 1. Check for PGM-FI and body DTCs. 	

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Set speed does not cancel when the cancel switch is pressed	<ol style="list-style-type: none">2. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the cruise control cancel switch signal input.3. Do the cruise control combination switch test (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>).	Open circuit, loose or disconnected terminals: GRN/YEL, GRY, YEL/WHT, or LT GRN
Set speed will not resume when the resume/accel switch is pressed (with the cruise control main switch turned on, and set speed temporarily canceled by pressing the brake pedal)	<ol style="list-style-type: none">1. Check for PGM-FI and body DTCs.2. Check the brake pedal position switch adjustment (see <u>BRAKE PEDAL AND BRAKE PEDAL POSITION SWITCH ADJUSTMENT</u>).3. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the cruise control resume/accel switch signal input. Test the brake pedal position switch signal input.4. Do the cruise control combination switch test (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>).	<ul style="list-style-type: none">• Open circuit, loose or disconnected terminals: YEL/WHT or LT GRN• Faulty brake pedal position switch
With the ignition switch ON (II), and the lighting switch turned on, the cruise control combination switch illumination does not come on	Do the cruise control combination switch test (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>).	

CIRCUIT DIAGRAM

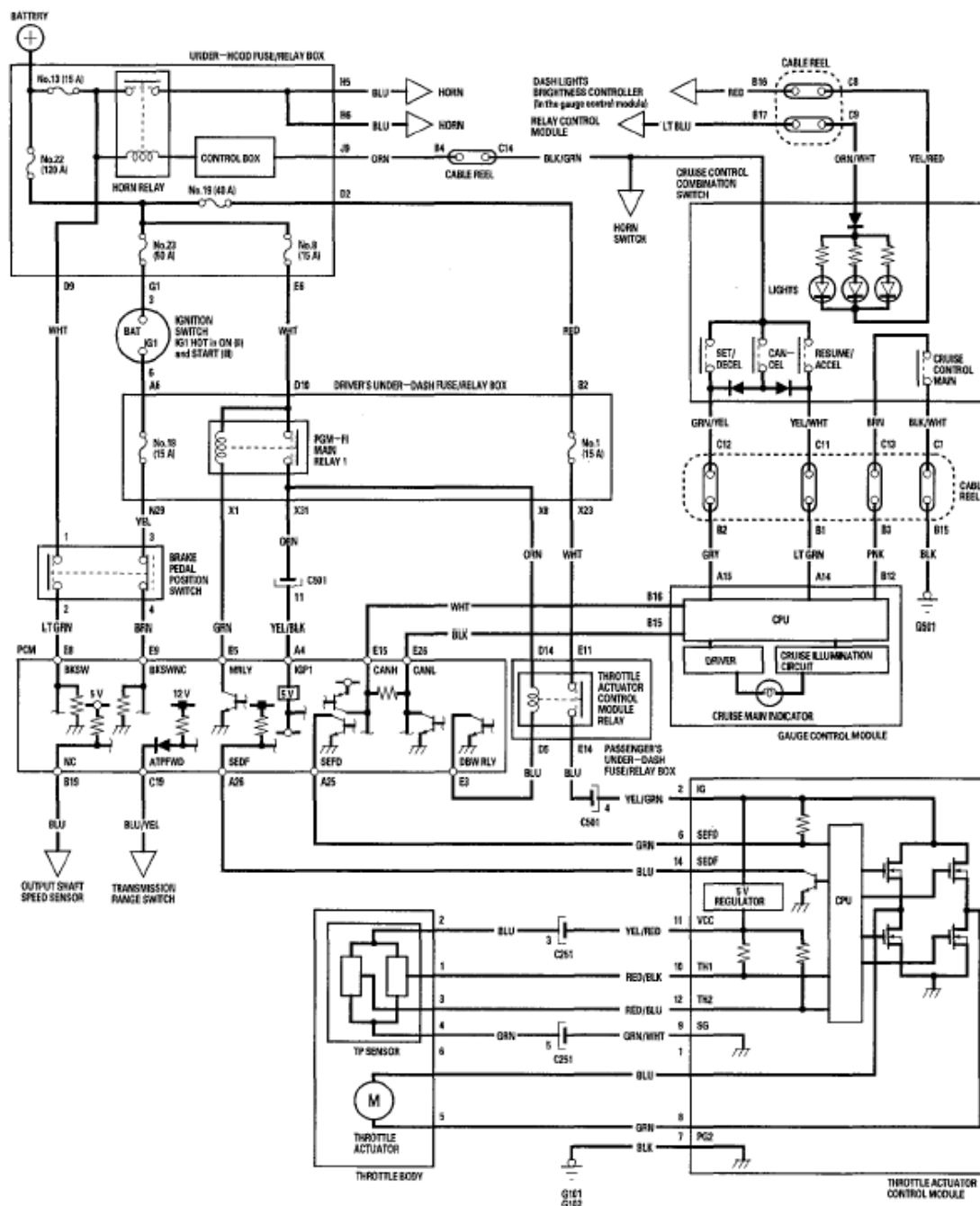


Fig. 2: Cruise Control Circuit Diagram
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

CRUISE CONTROL INPUT TEST

1. Connect the HDS to the data link connector (DLC) (see step 2 on page 11-3).
2. Turn the ignition switch ON (II).
3. Go to , and check for DTCs.
4. Do the following tests while monitoring parameters in the PGM-FI DATA LIST with the HDS.

NOTE: Intermittent failures are often caused by loose circuit connections.

While monitoring cruise control inputs, flex their circuits, and note if any of the test results change.

PROBLEM SYMPTOM CHART

Signal to be tested	Test condition	Parameter: Desired result	Possible cause if result is not obtained
Brake switch signal	Brake pedal pressed, then released	CRUISE BRAKE SW should indicate OFF when the brake pedal is pressed and ON when the brake pedal is released.	<ul style="list-style-type: none"> Faulty brake pedal position switch Blown No. 18 (15A) fuse in the driver's under-dash fuse/relay box An open in the wire between the powertrain control module (PCM) and the brake pedal position switch A wire shorted to ground between the PCM and the brake pedal position switch
Transmission range switch signal	Shift lever in D or D3	SHIFT/CLUTCH SW should indicate OFF in P, R, and N and ON in D and D3.	<ul style="list-style-type: none"> Faulty transmission range switch An open in the wire between the PCM and the transmission range switch A wire shorted to ground between the PCM and the transmission range switch Poor ground G101 and G102
Cruise control main switch signal	Cruise control main switch ON and OFF	CRUISE CONTROL MAIN SW should indicate ON when the cruise control main switch is turned ON and OFF when the cruise control main switch is turned OFF.	<ul style="list-style-type: none"> Faulty cruise control combination switch An open in the wire between the gauge control module and the cruise control combination switch A wire shorted to ground between the gauge control module and the cruise control combination switch An open in the wire

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			between the cruise control combination switch and ground
Set switch signal	Set/decel switch pressed and released	CRUISE CONTROL SET SW should indicate ON when the set/decel switch is pressed and OFF when the set/decel switch is released.	<ul style="list-style-type: none">• Faulty cruise control combination switch• An open in the wire between the gauge control module and the cruise control combination switch• A wire shorted to ground between the gauge control module and the cruise control combination switch
Resume switch signal	Resume/accel switch pressed and released	CRUISE CONTROL RESUME SW should indicate ON when the resume/accel switch is pressed and OFF when the resume/accel switch is released.	<ul style="list-style-type: none">• Faulty cruise control combination switch• An open in the wire between the gauge control module and the cruise control combination switch• A wire shorted to ground between the gauge control module and the cruise control combination switch
Cancel switch signal	Cancel switch pressed and released	CRUISE CONTROL CANCEL SW should indicate ON when the cancel switch is pressed and OFF when the cancel switch is released.	Faulty cruise control combination switch

CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT

There are SRS components located in this area. Review the SRS component locations (see **COMPONENT LOCATION INDEX**), and the precautions and procedures (see **PRECAUTIONS AND PROCEDURES**), in the SRS before doing repairs or service.

1. Remove the driver's airbag (see **DRIVER'S AIRBAG REPLACEMENT**).
2. Disconnect the connectors, then remove the switch.

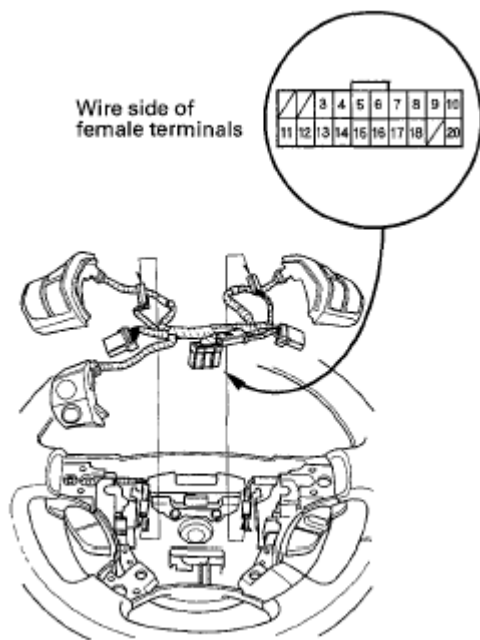


Fig. 3: Identifying Cruise Control Combination Switch Connector And Terminals
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check for continuity between the terminals in each switch position (see **Fig. 4**).
 - If there is continuity, and it matches the table, but switch failure occurred on the cruise control input test, check and repair the wire harness on the switch circuit.
 - If there is no continuity in one or both positions, replace the switch.

Terminal	7	13	14	11	12
Position					
Cruise control main switch (ON)	○	○			
Cruise control main switch (OFF)					
Set/decel (PRESSED)			○	○	○
Resume/accel (PRESSED)			○	○	
Cancel (PRESSED)			○	○	○

Fig. 4: Checking For Continuity Between Terminals In Each Switch Position
Courtesy of AMERICAN HONDA MOTOR CO., INC.

4. Check for continuity between the terminals (see **Fig. 5**).
 - If there is continuity, and it matches the table, check and repair the wire harness on the switch circuit.
 - If there is no continuity in one or more positions, replace the switch.

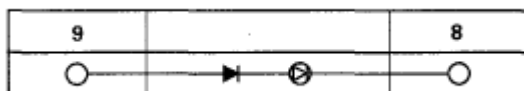


Fig. 5: Checking for continuity between terminals

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