

2007-2008 ACCESSORIES AND EQUIPMENT

Cruise Control - TL

COMPONENT LOCATION INDEX

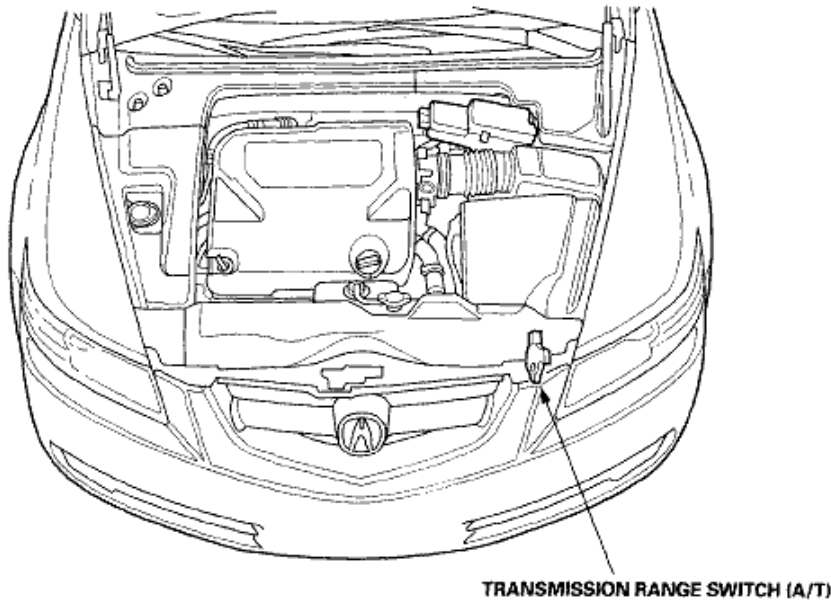
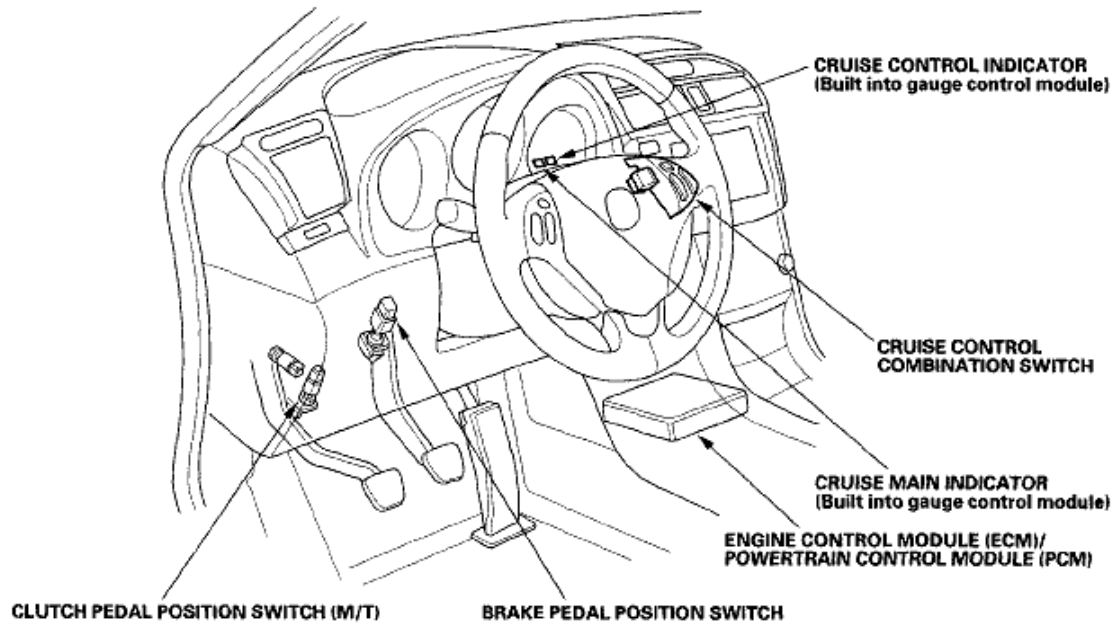


Fig. 1: Identifying Cruise Control System Components Location
Courtesy of AMERICAN HONDA MOTOR CO., INC.

SYMPTOM TROUBLESHOOTING INDEX

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Symptom	Diagnostic procedure	Also check for
Cruise control cannot be set	1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>). 2. Check the No. 13 (20 A) fuse in the under-hood fuse/ relay box, and the No. 18 (15 A) fuse in the 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>).	Poor ground G501
Cruise control can be set, but the cruise main indicator does not come on	1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>). 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>).	Faulty gauge control module
Cruise control can be set, but the cruise control indicator does not come on	1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>). 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 indicator signal input.	Faulty gauge control module
Vehicle does not decelerate or accelerate accordingly when the set/ decel or resume/accel switch is pressed	1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>). 2. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the set/decel, resume/accel 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: YEL/WHT or GRN/YEL wire
	1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>).	• Short to power in

Set speed does not cancel when the brake pedal is pressed	- Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the brake pedal position switch signal input. - Do the brake pedal position switch test (see <u>BRAKE PEDAL POSITION SWITCH TEST</u>).	the BRN/YEL wire Faulty brake pedal position switch
Set speed does not cancel (engine rpm stays high) when the clutch pedal is pressed (M/T)	- Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>). - Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the clutch pedal position switch signal input. - Do the clutch pedal position switch test (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>).	Short to ground in the LT BLU wire
Set speed does not cancel when the cruise control main switch is pressed	- Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>). - Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the cruise control main switch signal input. - Do the cruise control combination switch test (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>).	Short to ground in the BRN wire
Set speed does not cancel when the cancel switch is pressed	- Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>). - Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the cancel switch signal input. - Do the cruise control combination switch test (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>).	Open circuit, loose or disconnected terminals: YEL/WHT or GRN/YEL wire
Set speed will not resume when the resume/accel switch is pressed (with the	- Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>). - Check the brake pedal position switch adjustment (see <u>BRAKE PEDAL AND BRAKE PEDAL POSITION SWITCH ADJUSTMENT</u>).	Open circuit, loose or disconnected terminals:

cruise control main switch turned on, and set speed temporarily canceled by pressing the brake pedal)	3. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the 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>).	YEL/WHT wire • Faulty brake pedal position switch
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 clutch pedal) (M/T)	1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>). 2. Check the clutch pedal position switch adjustment (see <u>CLUTCH PEDAL, CLUTCH PEDAL POSITION SWITCH, AND CLUTCH INTERLOCK SWITCH ADJUSTMENT</u>). 3. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the resume/accel switch signal input. Test the clutch pedal position switch signal input. 4. Do the cruise control combination switch test (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>).	• Open circuit, loose or disconnected terminals: YEL/WHT wire • Faulty clutch 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	Replace the cruise control combination switch (see <u>CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT</u>).	

CIRCUIT DIAGRAM



1. Connect the Honda Diagnostic System (HDS) to the data link connector (DLC) (see step 2 in **GENERAL TROUBLESHOOTING INFORMATION**).
2. Turn the ignition switch ON (II).
3. Make sure the HDS communicates with the vehicle and the engine control module (ECM)/powertrain control module (PCM). If it doesn't communicate, troubleshoot the DLC circuit (see **DLC CIRCUIT TROUBLESHOOTING (PART 2)**).

4. Go to PGM-FI, and check for DTCs (see **GENERAL TROUBLESHOOTING INFORMATION**).
5. 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.

RESULT CHART

Signal to be tested	Test condition	Parameter: Desired result	Possible cause if result is not obtained
Brake pedal position 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.	- Faulty brake pedal position switch - Blown No. 13 (20 A) fuse in the under-hood fuse/relay box - An open in the wire between the ECM/PCM and the brake pedal position switch - A wire shorted to ground between the ECM/PCM and the brake pedal position switch
Clutch pedal position switch signal (M/T)	Clutch pedal pressed, then released	SHIFT/CLUTCH SW should indicate ON when the clutch pedal is pressed and OFF when the clutch pedal is released.	- Faulty clutch pedal position switch - An open in the wire between the ECM and the clutch pedal position switch - A wire shorted to ground between the ECM and the clutch pedal position switch - Poor ground G503
Transmission range switch signal (A/T)	Shift lever in D	SHIFT/CLUTCH SW should indicate ON in P, R, N, and Land OFF in D.	- 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
Cruise control main switch signal	Cruise control main switch ON and OFF	CRUISE MASTER (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.	• 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 between the cruise control combination switch and the ground
Set switch signal	Set/decel switch pressed and released	CRUISE SET SW should indicate ON when the set/decel switch is pressed and OFF when the set/decel switch is released.	• 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 RESUME SW should indicate ON when the resume/accel switch is pressed and OFF when the resume/accel switch is released.	• 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 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 indicator signal	Start the engine, turn the cruise control main switch on and drive the vehicle above 25 mph (40 km/h) with the cruise control set and cancel the cruise control	CRUISE INDICATOR should indicate ON when the cruise control is set and OFF when the cruise control is cancelled.	Faulty gauge control module

CRUISE CONTROL COMBINATION SWITCH TEST/REPLACEMENT

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

1. Remove the driver's airbag (see **DRIVER'S AIRBAG REPLACEMENT**).
2. Disconnect the connector from the cable reel.

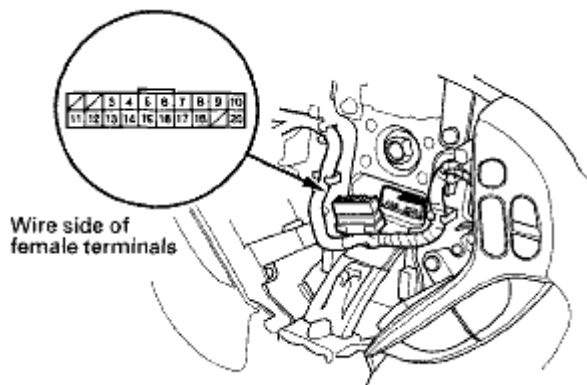


Fig. 3: Identifying Connector And Cable Reel
Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check for continuity between the terminals in each switch position according to the table.
 - 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 (see **STEERING WHEEL DISASSEMBLY/REASSEMBLY**).

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

Fig. 4: Continuity Reference Chart
Courtesy of AMERICAN HONDA MOTOR CO., INC.

CLUTCH PEDAL POSITION SWITCH TEST

M/T MODEL

- 1. Disconnect the 3P connector from the clutch pedal position switch.

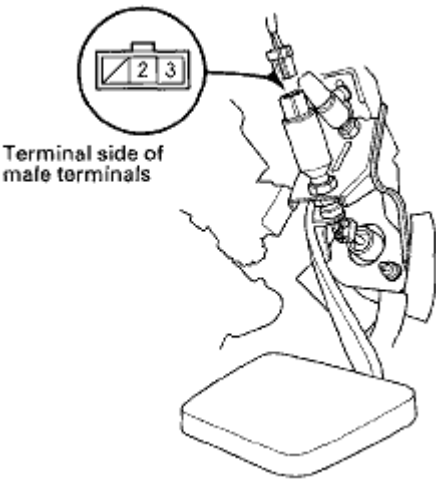


Fig. 5: Identifying 3P Connector And Clutch Pedal Position Switch
Courtesy of AMERICAN HONDA MOTOR CO., INC.

- 2. Remove the clutch pedal position switch.
- 3. Check for continuity between the terminals according to the table.
 - If the continuity is not as specified, replace the clutch pedal position switch.
 - If OK, install the clutch pedal position switch and adjust the pedal height (see **CLUTCH PEDAL, CLUTCH PEDAL POSITION SWITCH, AND CLUTCH INTERLOCK SWITCH ADJUSTMENT**).

Terminal	1	2	3
Clutch Pedal Position Switch			
PRESSED			
RELEASED		○	○

Fig. 6: Clutch Pedal Position Switch Continuity Reference Chart
Courtesy of AMERICAN HONDA MOTOR CO., INC.