

2007-08 ACCESSORIES AND EQUIPMENT

Cruise Control - Element

COMPONENT LOCATION INDEX

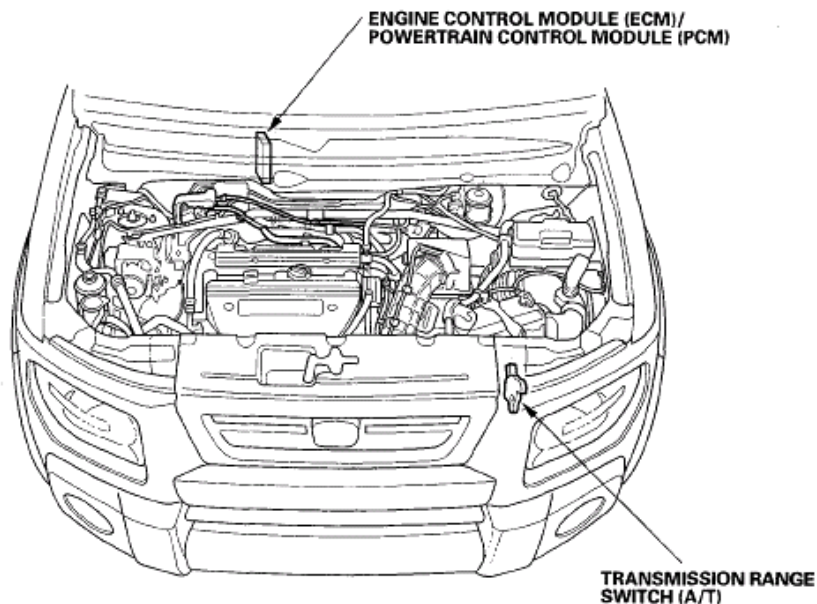
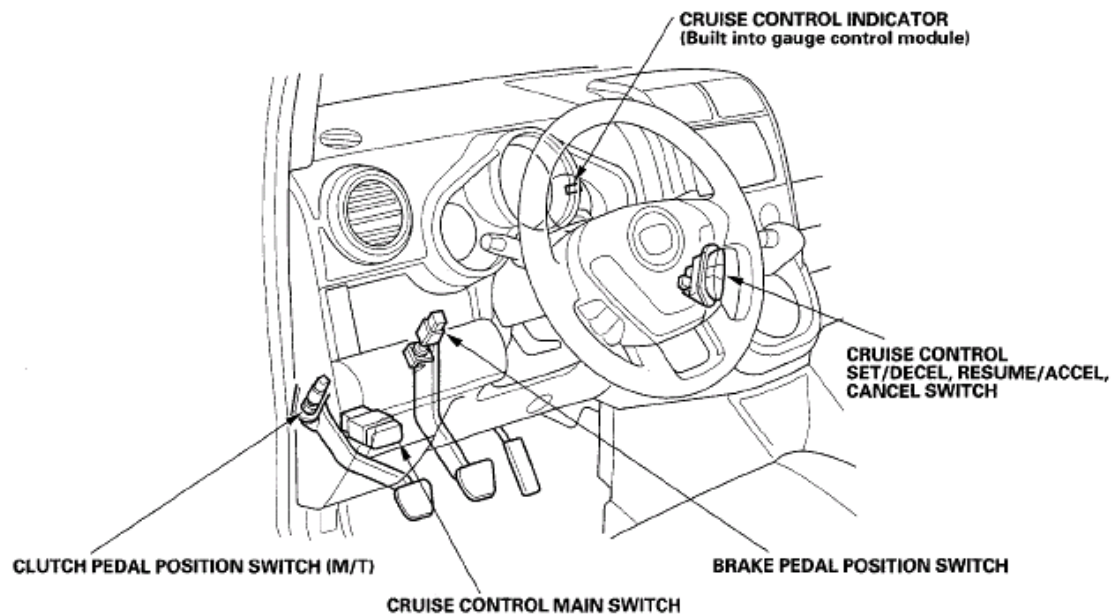


Fig. 1: Identifying Cruise Control Component Location
Courtesy of AMERICAN HONDA MOTOR CO., INC.

SYMPTOM TROUBLESHOOTING INDEX

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SYMPTOM TROUBLESHOOTING CHART

Symptom	Diagnostic procedure	Also check for
Cruise control cannot be set	<ol style="list-style-type: none"> 1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>) and body DTCs (see <u>WIRE COLOR CODES</u>). 2. Check the No. 7 (15 A) fuse in the under-hood fuse/relay box, and No. 4 (10 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 main switch test (see <u>CRUISE CONTROL MAIN SWITCH TEST/REPLACEMENT</u>). 5. Do the cruise control set/decel, resume/accel, cancel switch test (see <u>CRUISE CONTROL MAIN SWITCH TEST/REPLACEMENT</u>). 	Faulty cruise control main switch
Cruise control can be set, but the cruise control main switch indicator does not come on	<ol style="list-style-type: none"> 1. Do the cruise control main switch test (see <u>CRUISE CONTROL MAIN SWITCH TEST/REPLACEMENT</u>). 2. Check for a faulty cruise control main switch indicator bulb. 	<ul style="list-style-type: none"> • Faulty cruise control main switch • Poor ground G501
Cruise control can be set, but the cruise control indicator does not come on	<ol style="list-style-type: none"> 1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>) and body DTCs (see <u>WIRE COLOR CODES</u>). 2. Do the gauge control module self-diagnostic function (see <u>WIRE COLOR CODES</u> 7). 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	<ol style="list-style-type: none"> 1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>) and body DTCs (see <u>WIRE COLOR CODES</u>). 2. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the cruise control set/decel, resume/accel switch signal input. 3. Do the cruise control set/decel, 	Open circuit, loose or disconnected terminals: LT GRN/BLK or GRY/RED

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	resume/accel, cancel switch test (see <u>CRUISE CONTROL MAIN SWITCH TEST/REPLACEMENT</u>).	
Set speed does not cancel when the brake pedal is pressed	<ol style="list-style-type: none"> 1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>) and body DTCs (see <u>WIRE COLOR CODES</u>). 2. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the brake pedal position switch signal input. 3. Do the brake pedal position switch test (see <u>LICENSE PLATE LIGHT REPLACEMENT</u>). 	<ul style="list-style-type: none"> • Short to power on the WHT/BLK 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 DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>) and body DTCs (see <u>WIRE COLOR CODES</u>). 2. Do the cruise control input test (see <u>CRUISE CONTROL INPUT TEST</u>). Test the cruise control main switch signal input. 3. Do the cruise control main switch test (see <u>CRUISE CONTROL MAIN SWITCH TEST/REPLACEMENT</u>). 	Short to power on the LT GRN wire
Set speed does not cancel when the cancel switch is pressed	<ol style="list-style-type: none"> 1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>) and body DTCs (see <u>WIRE COLOR CODES</u>). 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 set/decels, resume/accel, cancel switch test (see <u>CRUISE CONTROL MAIN SWITCH TEST/REPLACEMENT</u>). 	Open circuit, loose or disconnected terminals: LT GRN/BLK or GRY/RED
Set speed will not resume when the resume/accel	<ol style="list-style-type: none"> 1. Check for PGM-FI DTCs (see <u>GENERAL TROUBLESHOOTING INFORMATION</u>) and body DTCs (see <u>WIRE COLOR CODES</u>). 2. Check the brake pedal position switch adjustment (see <u>BRAKE PEDAL AND BRAKE PEDAL POSITION SWITCH</u>). 	<ul style="list-style-type: none"> • Faulty brake pedal position switch

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switch is pressed (with the cruise control main switch turned on, and set speed temporarily canceled by pressing the brake pedal)	<p><u>ADJUSTMENT</u>).</p> <ol style="list-style-type: none">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 set/decel, resume/accel, cancel switch test (see <u>CRUISE CONTROL MAIN SWITCH TEST/REPLACEMENT</u>).	<ul style="list-style-type: none">• Open circuit, loose or disconnected terminals: LT GRN/BLK
With the ignition switch ON (II), and the lighting switch turned on, the cruise control main switch illumination does not come on	<ol style="list-style-type: none">1. Replace the cruise control main switch illumination bulb (see <u>CRUISE CONTROL MAIN SWITCH TEST/REPLACEMENT</u>).2. Do the cruise control main switch test (see <u>CRUISE CONTROL MAIN SWITCH TEST/REPLACEMENT</u>).	

CIRCUIT DIAGRAM

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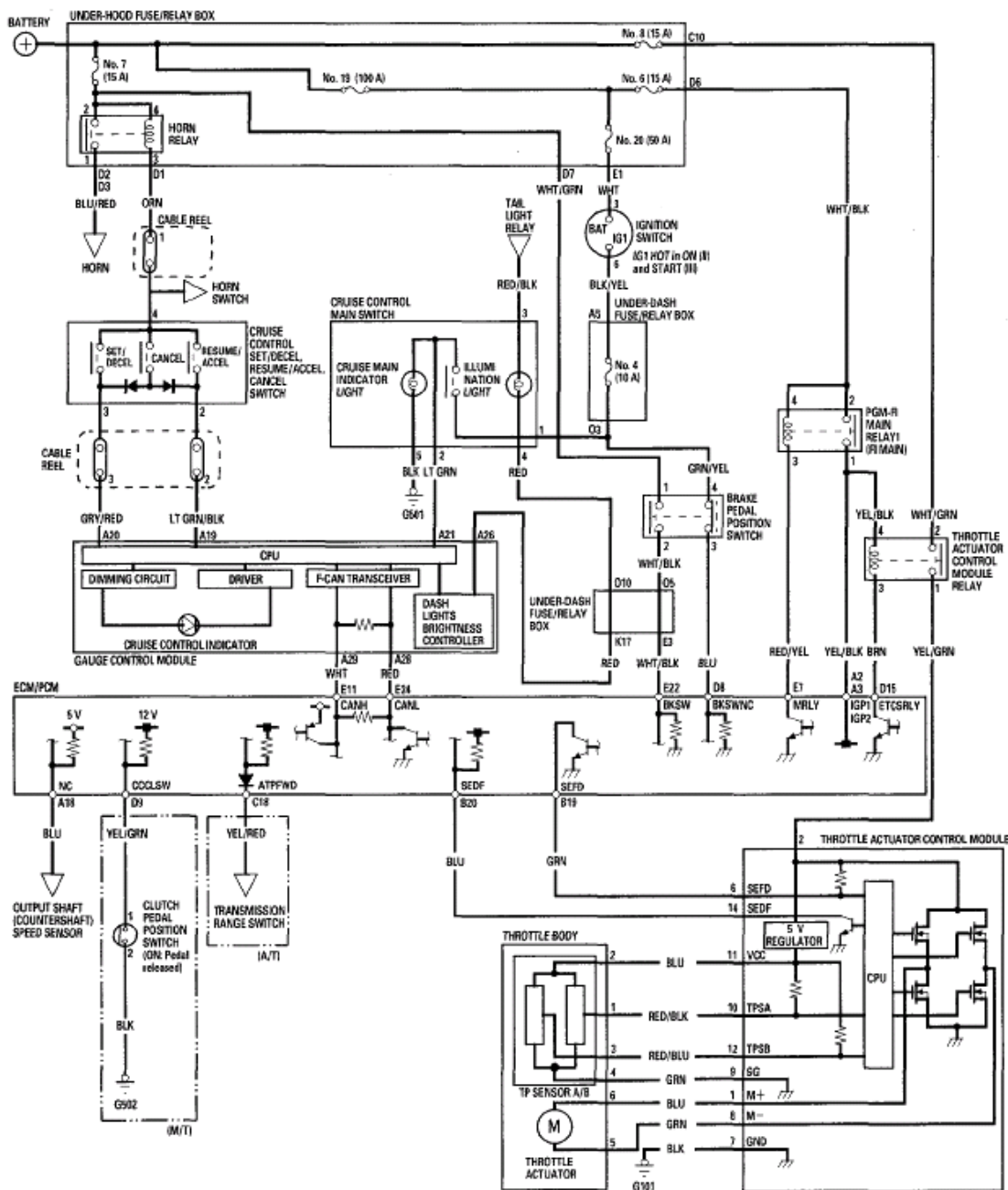


Fig. 2: Cruise Control Circuit Diagram

Courtesy of AMERICAN HONDA MOTOR CO., INC.

CRUISE CONTROL INPUT TEST

1. Connect the Honda Diagnostic System (HDS) to the data link connector (DLC) (see step 2 on **HOW TO USE THE HDS (HONDA DIAGNOSTIC SYSTEM)**).
2. Turn the ignition switch ON (II).
3. Make sure the HDS communicates with the vehicle and the engine control module (ECM)/powertrain

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control module (PCM). If it doesn't communicate, troubleshoot the DLC circuit (see **DLC CIRCUIT TROUBLESHOOTING**).

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

CRUISE CONTROL INPUT TEST INSPECTION 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. 4 (10 A) fuse in the under-dash 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 OFF when the clutch pedal is pressed and ON when the clutch pedal is released.	<ul style="list-style-type: none"> • 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 G502
Transmission		SHIFT/CLUTCH SW should	<ul style="list-style-type: none"> • Faulty transmission range switch • An open in the wire between the PCM and the transmission range

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range switch signal (A/T)	Shift lever in D	indicate ON in P, R, N, 2 and 1 and OFF in D	<p>switch</p> <ul style="list-style-type: none"> • 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 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 main switch • An open in the wire between the gauge control module and the cruise control main switch • A wire shorted to ground between the gauge control module and the cruise control main switch
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 set/decel, resume/accel, cancel switch • An open in the wire between the gauge control module and the cruise control set/decel, resume/accel, cancel switch • A wire shorted to ground between the gauge control module and the cruise control set/decel, resume/accel, cancel 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 set/decel, resume/accel, cancel switch • An open in the wire between the gauge control module and the cruise control set/decel, resume/accel, cancel switch • A wire shorted to

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			ground between the gauge control module and the cruise control set/decel, resume/accel, cancel 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 set/decel, resume/accel, cancel 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). Set and cancel the cruise control.	CRUISE INDICATOR should indicate ON when the cruise control is set and OFF when the cruise control is canceled.	Faulty gauge control module

CRUISE CONTROL MAIN SWITCH TEST/REPLACEMENT

1. Release the clips of the switch and push the switch (A) out of the panel, then disconnect the 5P connector (B) from the main switch.

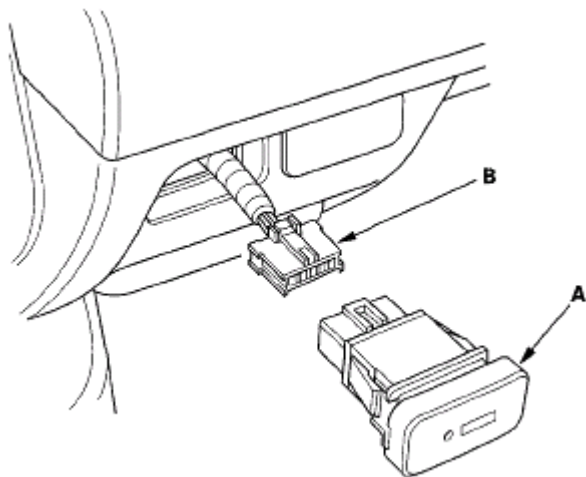


Fig. 3: Identifying 5P Connector From Main Switch
Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Check for continuity between the terminals in each switch position according to **Fig. 4**. If there is no continuity, replace illumination bulbs (A) or the switch.

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Terminal	2	5	1	3	4
Position					
OFF	○	○	○	○	○
ON	○	○	○	○	○

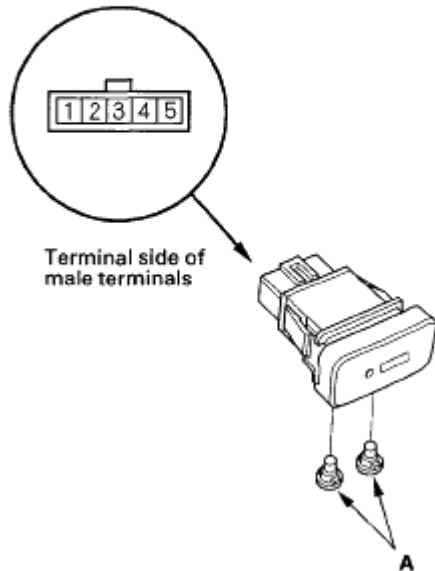


Fig. 4: Identifying Main Switch Terminals

Courtesy of AMERICAN HONDA MOTOR CO., INC.

CRUISE CONTROL SET/DECEL, RESUME/ACCEL, CANCEL SWITCH TEST/REPLACEMENT

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

1. Remove the driver's airbag (see DRIVER'S AIRBAG REPLACEMENT).
2. Remove the cover (A), then remove the cruise control set/decel, resume/accel, cancel switch (B).

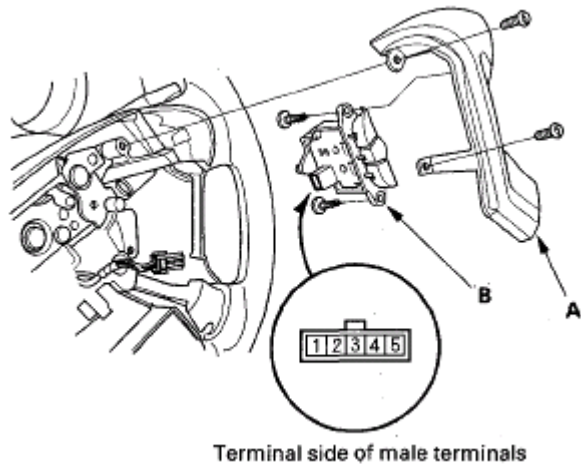


Fig. 5: Identifying Cruise Control Set/Decel And Resume/Accel Cancel Switch Terminals
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

3. Check for continuity between the terminals in each switch position according to **Fig. 6**.
 - 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 Position	4		3	2
Set/dec (PRESSED)	○	—	○	
Resume/accel (PRESSED)	○	—		○
Cancel (PRESSED)	○	—	○	○

Fig. 6: Identifying Cruise Control Set/Decel, Resume/Accel, Cancel Switch Continuity Chart
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

CLUTCH PEDAL POSITION SWITCH TEST

M/T

1. Disconnect the 2P connector from the clutch pedal position switch (A).

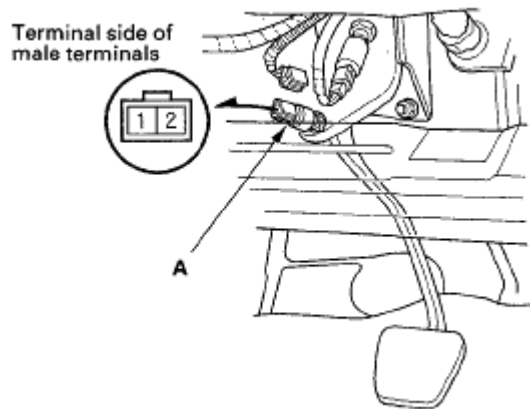


Fig. 7: Identifying 2P Connector From Clutch Pedal Position Switch
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

2. Remove the clutch pedal position switch.
3. Check for continuity between the terminals according to **Fig. 8**.
 - 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
Clutch Pedal Position Switch		
PRESSED		
RELEASED	○ ——— ○	

Fig. 8: Clutch Pedal Position Switch Test Continuity Chart
 Courtesy of AMERICAN HONDA MOTOR CO., INC.