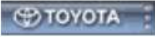
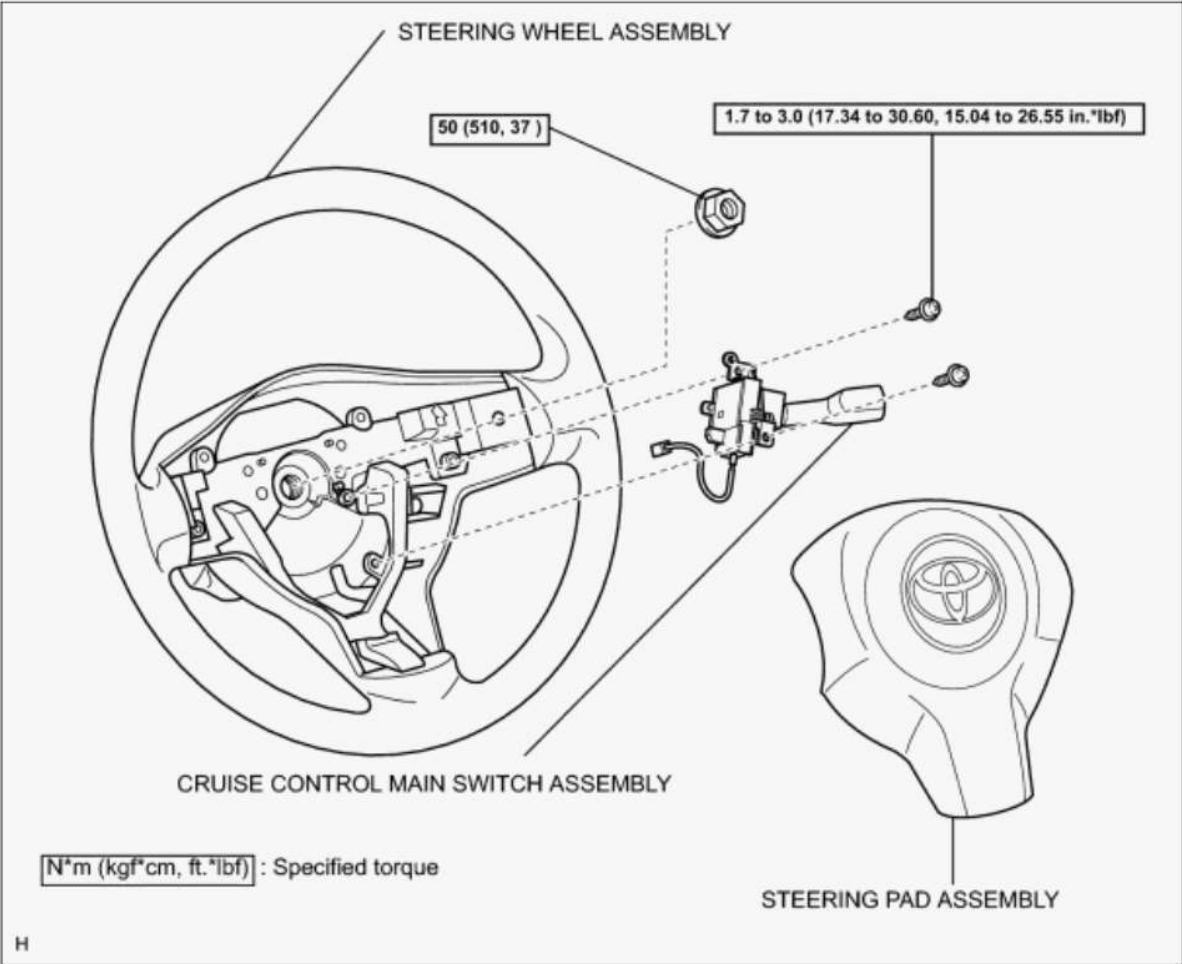


Last Modified: 9-7-2011	6.4 K	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000001RH600CX
Title: CRUISE CONTROL: CRUISE CONTROL MAIN SWITCH: COMPONENTS (2011 RAV4)		

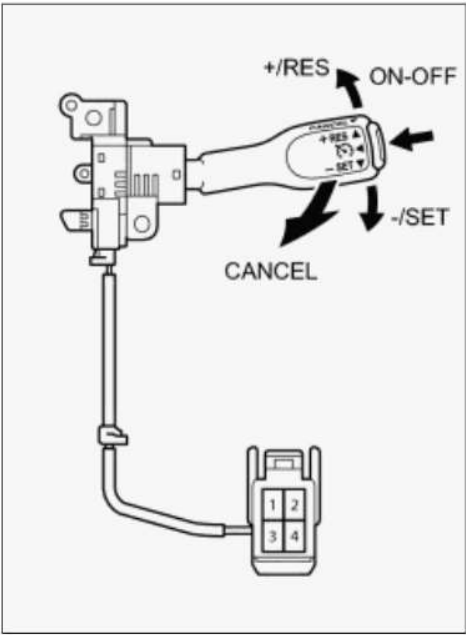
COMPONENTS

ILLUSTRATION



Last Modified: 9-7-2011	6.4 G	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000001X9H00CX
Title: CRUISE CONTROL: CRUISE CONTROL MAIN SWITCH: INSPECTION (2011 RAV4)		

INSPECTION

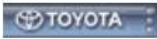


1. INSPECT CRUISE CONTROL MAIN SWITCH

- (a) Measure the resistance of the switch.
- Standard resistance:

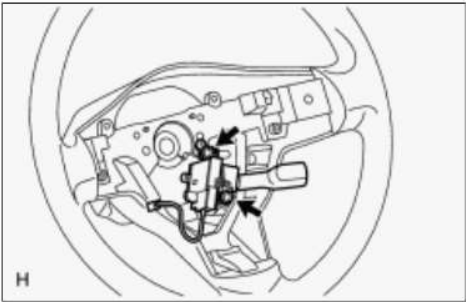
TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
3 - 4	+/RES	216 to 264 Ω
	-/SET	567 to 693 Ω
	CANCEL	1,386 to 1,694 Ω
	Cruise control switch ON	Below 1 Ω
	Cruise control switch OFF	10 k Ω or higher

If the result is not as specified, replace the switch assembly.



Last Modified: 9-7-2011	6.4 A	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000001RH500DX
Title: CRUISE CONTROL: CRUISE CONTROL MAIN SWITCH: INSTALLATION (2011 RAV4)		

INSTALLATION



1. INSTALL CRUISE CONTROL MAIN SWITCH

(a) Install the switch with the 2 screws.

Torque: 1.7 to 3.0 N·m (17.34 to 30.60 kgf·cm, 15.04 to 26.55in·lbf)

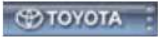
(b) Connect the connector.

2. INSTALL STEERING PAD ASSEMBLY INFO

3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

4. CHECK SRS WARNING LIGHT

(a) Check the SRS warning light INFO .



Last Modified: 9-7-2011	6.4 A	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000001RH700DX
Title: CRUISE CONTROL: CRUISE CONTROL MAIN SWITCH: REMOVAL (2011 RAV4)		

REMOVAL

CAUTION:

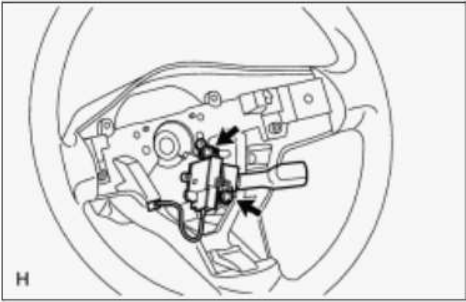
Be sure to read the precautionary notices concerning the SRS airbag system before servicing it [INFO](#) .

1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

CAUTION:

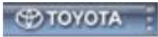
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

2. REMOVE STEERING PAD ASSEMBLY [INFO](#)



3. REMOVE CRUISE CONTROL MAIN SWITCH

- (a) Disconnect the connector.
- (b) Remove the 2 screws and switch.



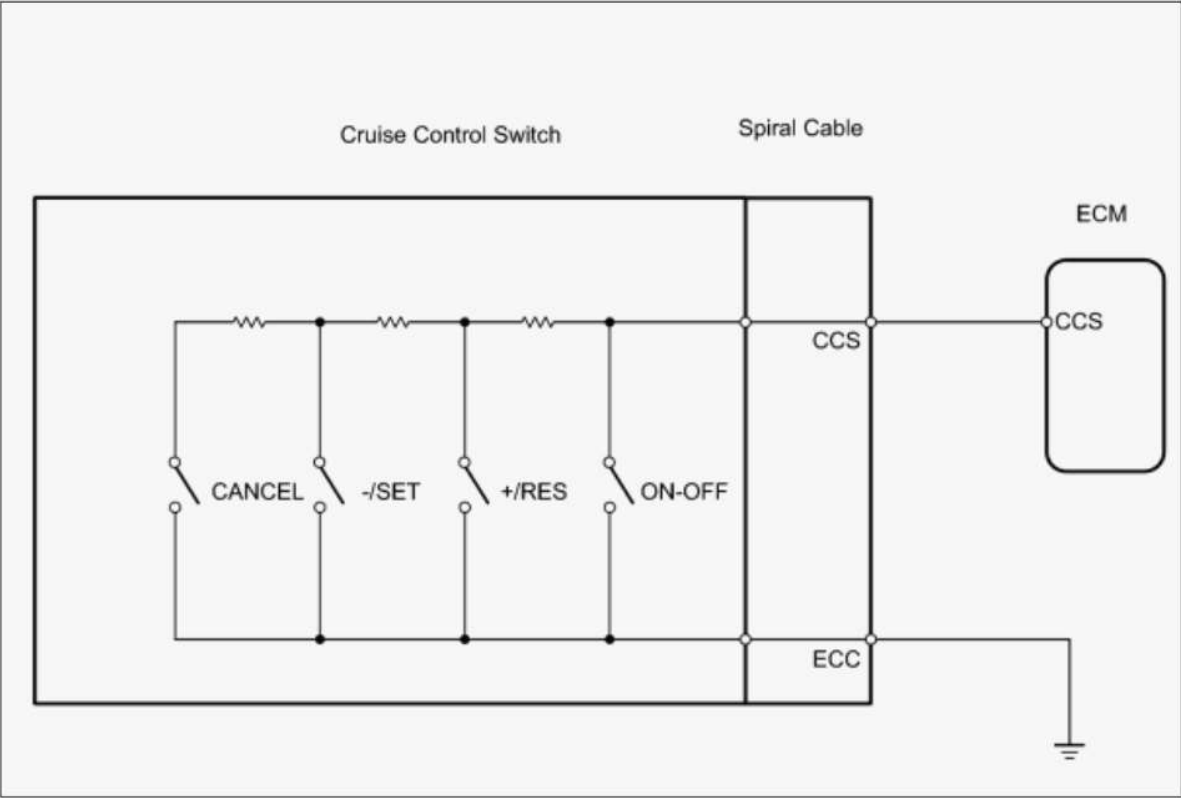
Last Modified: 9-7-2011	6.4 J	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000018M100GX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: Cruise Control Switch Circuit (2011 RAV4)		

Cruise Control Switch Circuit

DESCRIPTION

This circuit sends signals to the ECM depending on the cruise control switch condition. The battery supplies positive (+) battery voltage to the cruise control switch. Then terminal CCS of the ECM receives the voltage according to the switch condition.

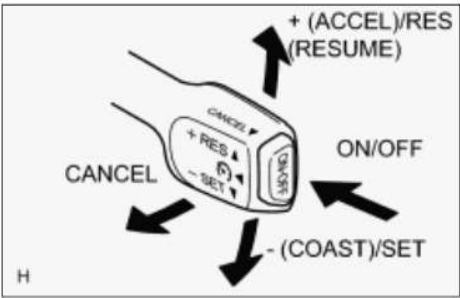
WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

1.	READ VALUE USING TECHSTREAM (CRUISE CONTROL MAIN SWITCH)
----	--



(a) Connect the Techstream to the DLC3.

- (b) Turn the ignition switch to the ON position.
- (c) Turn the Techstream on.
- (d) Enter the following menus: Powertrain / Cruise Control / Data List.
- (e) Check the Data List for proper functioning of the cruise control main switch.

ECM (Cruise Control):

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
CCS Main SW M-CPU	Main switch signal (Main CPU)/ON or OFF	ON: Main switch on OFF: Main switch off	-
Cancel Switch	CANCEL switch signal/ON or OFF	ON: CANCEL switch on OFF: CANCEL switch off	-
SET/COAST Switch	- (COAST)/SET switch signal/ON or OFF	ON: - (COAST)/SET switch on OFF: - (COAST)/SET switch off	-
RES/ACC Switch	+ (ACCEL)/RES switch signal/ON or OFF	ON: + (ACCEL)/RES switch on OFF: + (ACCEL)/RES switch off	-

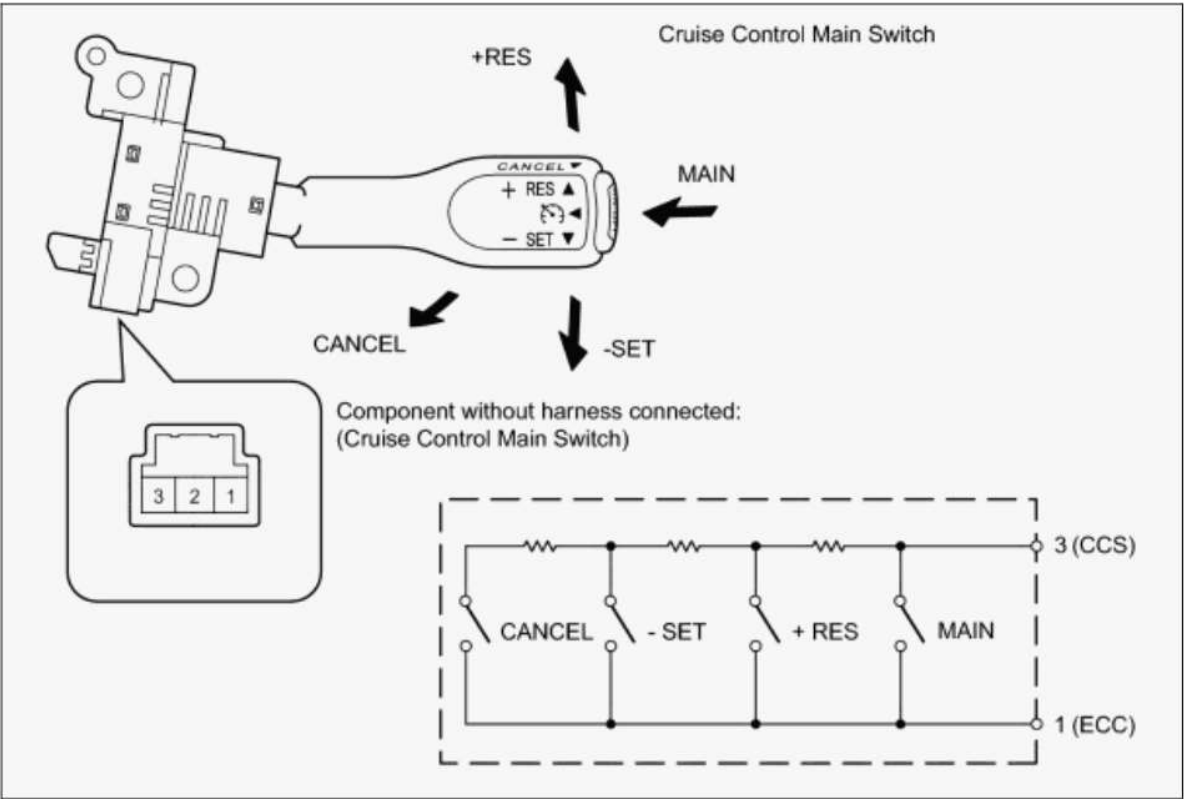
OK:

When cruise control switch operation is performed, the results will be same as above.

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**

NG
▼

2.	INSPECT CRUISE CONTROL MAIN SWITCH
----	------------------------------------



- (a) Remove the cruise control main switch INFO.
- (b) Measure the resistance according to the value(s) in the table below.
- Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
1 - 3	Neutral	10 k Ω or higher
	Pushed to +RES	235 to 245 Ω
	Pushed to -SET	617 to 643 Ω
	Pushed to CANCEL	1509 to 1571 Ω
	Main switch pushed off	10 k Ω or higher
	Main switch pushed on	Below 1 Ω

NG ▶ REPLACE CRUISE CONTROL MAIN SWITCH

OK
▼

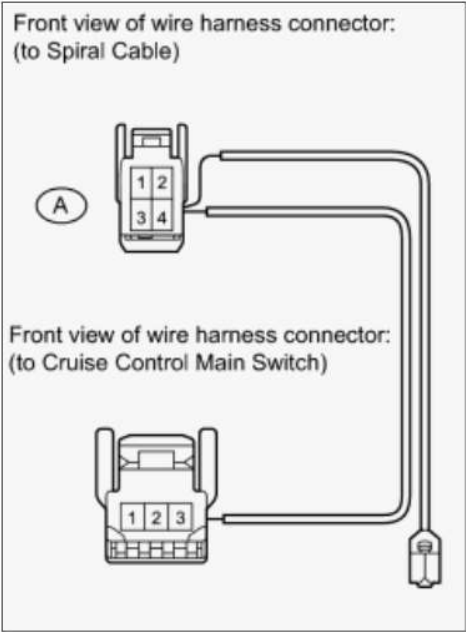
3. INSPECT CRUISE CONTROL SWITCH WIRE

- (a) Remove the cruise control switch wire.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A-3 - 3	Always	Below 1 Ω
A-4 - 1		

NG  REPLACE CRUISE CONTROL SWITCH WIRE



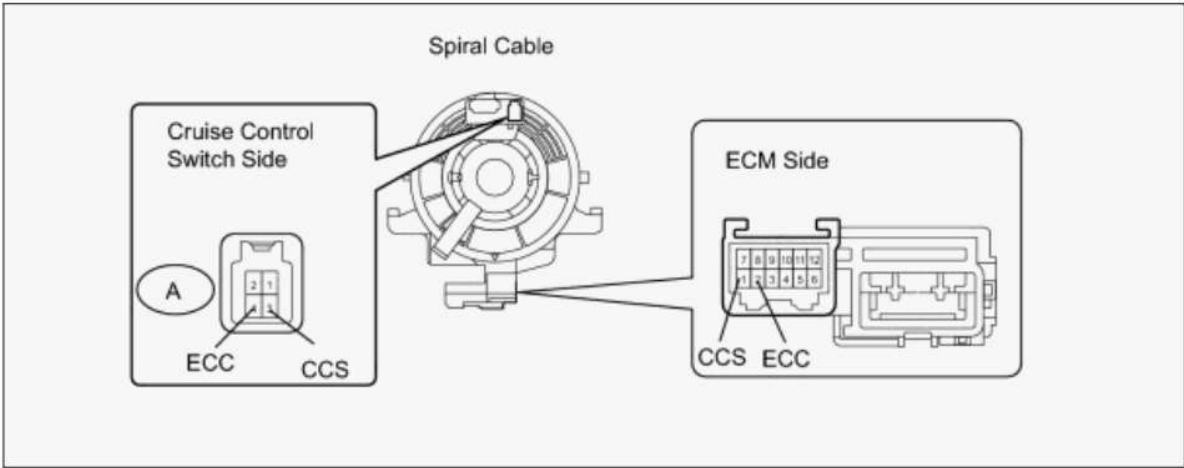
OK 

4. INSPECT SPIRAL CABLE

NOTICE:
The spiral cable is an important part of the SRS airbag system. Incorrect removal or installation of the spiral cable may prevent the airbag from deploying. Be sure to refer to the "See page" in the brackets.

- HINT:**
- Removal 
 - Installation 

- (a) Remove the spiral cable.



(b) Measure the resistance according to the value(s) in the table below.

Standard resistance:

TESTER CONNECTION	SPIRAL CABLE POSITION	SPECIFIED CONDITION
A-3 (CCS) - 1 (CCS)	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	
A-4 (ECC) - 2 (ECC)	Center	Below 1 Ω
	2.5 rotations to the left	
	2.5 rotations to the right	

HINT:

The spiral cable makes a maximum of approximately 5 rotations.

NG **REPLACE SPIRAL CABLE**

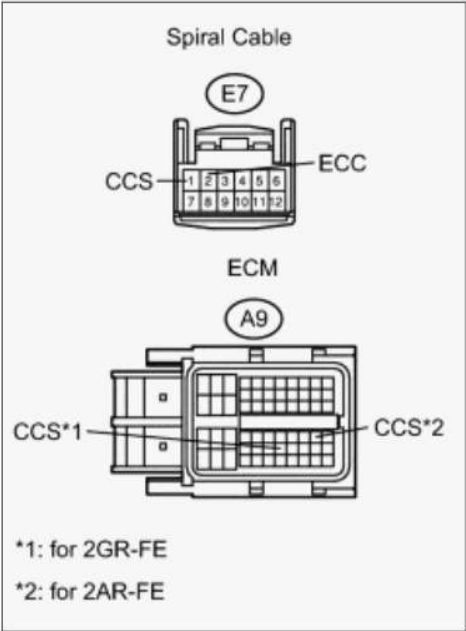
OK

5. CHECK WIRE HARNESS (SPIRAL CABLE - ECM AND BODY GROUND)

- (a) Disconnect the E7 cable connector.
- (b) Disconnect the A9 ECM connector.
- (c) Measure the resistance of the wire harness side connectors.

Standard resistance:
for **2GR-FE**

TESTER CONNECTION	SPECIFIED CONDITION
E7-1 (CCS) - A9-45 (CCS)	Below 1 Ω
E7-2 (ECC) - Body ground	

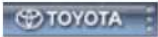


for **2AR-FE**

TESTER CONNECTION	SPECIFIED CONDITION
E7-1 (CCS) - A9-40 (CCS)	Below 1 Ω
E7-2 (ECC) - Body ground	

NG ▶ **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK ▶ **PROCEED TO NEXT CIRCUIT INSPECTION SHOWN IN PROBLEM SYMPTOMS TABLE**



Last Modified: 9-7-2011	6.4 U	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000018LU00FX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: DATA LIST / ACTIVE TEST (2011 RAV4)		

DATA LIST / ACTIVE TEST

1. READ DATA LIST

HINT:

Using the Techstream to read the Data List allows the values or states of switches, sensors, actuators and other items to be read without removing any parts. This non-intrusive inspection can be very useful because intermittent conditions or signals may be discovered before parts or wiring is disturbed. Reading the Data List information early in troubleshooting is one way to save diagnostic time.

- Connect the Techstream to the DLC3.
- Turn the ignition switch to the ON position.
- Turn the Techstream on.
- Enter the following menus: Powertrain / Cruise Control / Data List.
- Read the Data List according to the display on the Techstream.

ECM (Cruise Control):

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
CCS Vehicle Spd	Vehicle speed / min.: 0 km/h (0 mph), max.: 255 km/h (158 mph)	Actual vehicle speed	-
CCS Mem Vehicle Spd	Memory vehicle speed / min.: 0 km/h (0 mph), max.: 200 km/h (125 mph)	Actual stored vehicle speed	-
Cruise Request Torque	Cruise control request torque / min.: -1024 N*m, max.: 1016 N*m	Actual required torque	-
Cruise Control	Cruise control system active condition / ON or OFF	ON: Cruise control activated OFF: Cruise control inactivated	-
Main SW M-CPU	Main SW signal (Main CPU) / ON or OFF	ON: Main SW ON (Pushed on) OFF: Main SW OFF (Pushed off)	"3"
CCS Ready M-CPU	Cruise control system standby condition (Main CPU) / ON or OFF	ON/OFF: Change ON/OFF each time main switch is pushed in.	"1"
CCS Indicator M-CPU	Cruise indicator signal (Main CPU) / ON or OFF	ON: "CRUISE" ON OFF: "CRUISE" OFF	"2"
Cancel Switch	CANCEL SW signal / ON or OFF	ON: CANCEL SW ON OFF: CANCEL SW OFF	-
SET/COAST Switch	-/SET SW signal / ON or OFF	ON: -/SET SW ON OFF: -/SET SW OFF	-
RES/ACC Switch	+ /RES SW signal / ON or OFF	ON: +/RES SW ON OFF: +/RES SW OFF	-

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Stp Light SW M-CPU	Stop light SW signal (Main CPU) / ON or OFF	ON: Brake pedal depressed OFF: Brake pedal released	-
Cruise Operation Status	PNP SW signal (D position) / ON or OFF	ON: Shift D position OFF: Except shift D position	-
# Codes	Number of DTC recorded / 0 to 255	min.: 0 max.: 4	-

HINT:

- "3" is OK but "1" is NG → ECM failure
- "1" is OK but "2" is NG → DTC output or ECM failure
- "3" is OK but the cruise indicator does not come on → CRUISE main indicator, wire harness or ECM failure



Last Modified: 9-7-2011	6.4 D	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000000PM0079X
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: DIAGNOSIS SYSTEM (2011 RAV4)		

DIAGNOSIS SYSTEM

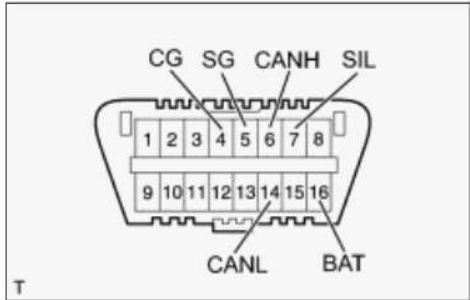
1. DESCRIPTION

The ECM controls the function of cruise control on this vehicle. Data of the cruise control or DTC can be read from the DLC3 of the vehicle. When trouble occurs with cruise control, check that the CRUISE main indicator does not come on but DTC inspection is performed.

Therefore, when there seems to be a problem with the cruise control, use the Techstream or SST to check and troubleshoot it.

2. CHECK DLC3

(a) The ECM uses the ISO 15765-4 for communication protocol. The terminal arrangement of the DLC3 complies with SAE J1962 and matches the ISO 15765-4 format.



SYMBOLS (TERMINAL NO.)	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
SIL (7) - SG (5)	Bus '+' line	During transmission	Pulse generation
CG (4) - Body ground	Chassis ground	Always	Below 1 Ω
SG (5) - Body ground	Signal ground	Always	Below 1 Ω
BAT (16) - Body ground	Battery positive	Always	11 to 14 V
CANH (6) - CANL (14)	CAN bus line	Ignition switch off*	54 to 69 Ω
CANH (6) - CG (4)	HIGH-level CAN bus line	Ignition switch off*	200 Ω or higher
CANL (14) - CG (4)	LOW-level CAN bus line	Ignition switch off*	200 Ω or higher
CANH (6) - BAT (16)	HIGH-level CAN bus line	Ignition switch off*	6 kΩ or higher
CANL (14) - BAT (16)	LOW-level CAN bus line	Ignition switch off*	6 kΩ or higher

NOTICE:

***: Before measuring the resistance, leave the vehicle as is for at least 1 minute and do not operate the ignition switch, other switches or doors.**

If the result is not as specified, the DLC3 may have a

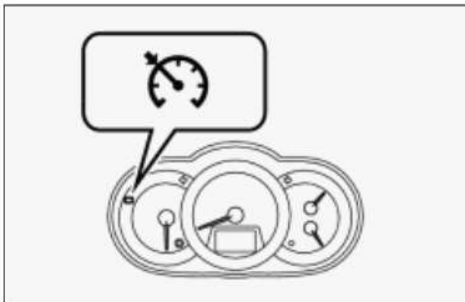
malfunction. Repair or replace the harness and connector.

HINT:

Connect the cable of the Techstream to the DLC3, turn the ignition switch ON and attempt to use the Techstream. If the display indicates that a communication error has occurred, there is a problem either with the vehicle or with the Techstream.

- If communication is normal when the Techstream is connected to another vehicle, inspect the DLC3 of the original vehicle.
- If communication is still not possible when the Techstream is connected to another vehicle, the problem may be in the Techstream itself. Consult the Service Department listed in the Techstream's instruction manual.

3. CHECK INDICATOR

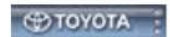
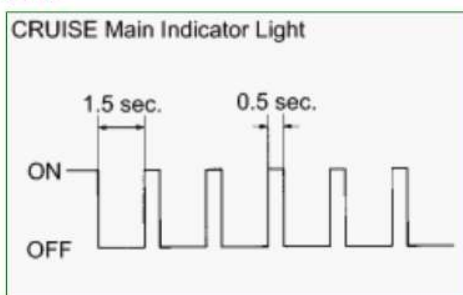


(a) Turn the ignition switch ON.

(b) Check that the CRUISE main indicator light illuminates when the cruise control main switch is turned ON, and that the indicator light goes off when the main switch is turned OFF.

HINT:

- If the indicator check result is not normal, proceed to troubleshooting for the combination meter section **INFO**.
- If a malfunction occurs in the speed sensor or stop light switch, etc. during cruise control driving, the ECM activates the AUTO CANCEL of the cruise control and the CRUISE main indicator light blinks to inform the driver of a malfunction. At the same time, the malfunction is stored in memory as a diagnostic trouble code.



Last Modified: 9-7-2011	6.4 S	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000018LL00AX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: DIAGNOSTIC TROUBLE CODE CHART (2011 RAV4)		

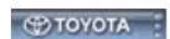
DIAGNOSTIC TROUBLE CODE CHART

HINT:

If a trouble code is displayed during the DTC check, check the trouble areas listed for that code in the table below and refer to the "See page" below.

Cruise control system

DTC CODE	DETECTION ITEM	TROUBLE AREA	SEE PAGE
P0500/21	Vehicle Speed Sensor "A"	- Combination meter - Vehicle speed sensor - Vehicle speed sensor circuit - ECM	INFO
P0503/23	Vehicle Speed Sensor Circuit	- Combination meter - Vehicle speed sensor - Vehicle speed sensor circuit - ECM	INFO
P0571/52	Stop Light Switch Circuit	- Stop light switch - BRK relay circuit* - Wire harness - ECM	INFO
P0575/54	Cruise Control Input Circuit	- ECM	INFO
P1578/69	Brake System Malfunction	- VSC system	INFO
P1630/64	Communication Error from Skid Control ECU to ECM	- Communication circuit - Skid control ECU - ECM	INFO
P1631/65	Communication Error from ECM to Skid Control ECU	- Communication circuit - ECM - Skid control ECU	INFO
U0100/78	Communication Stop from ECM to Distance Control ECU, VSC	- Communication circuit - ECM - Skid control ECU	INFO
U0122/82	Communication Stop from VSC to ECM	- Communication circuit - Skid control ECU - ECM	INFO



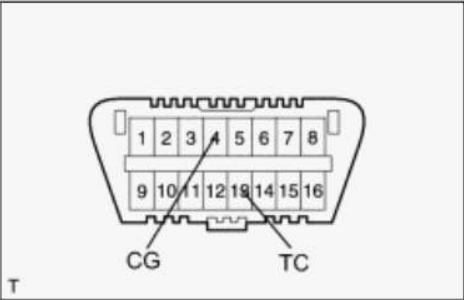
Last Modified: 9-7-2011	6.4 D	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000018LR00GX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: DTC CHECK / CLEAR (2011 RAV4)		

DTC CHECK / CLEAR

1. CHECK DTC (USING TECHSTREAM)

- (a) Connect the Techstream to the DLC3.
- (b) Turn the ignition switch to the ON position.
- (c) Turn the Techstream on.
- (d) Enter the following menus: Powertrain / Cruise Control / Trouble Codes.
- (e) Check the details of the DTC(s) INFO .

2. CHECK DTC (USING SST CHECK WIRE)



- (a) Using SST, connect terminals 13 (TC) and 4 (CG) of the DLC3.

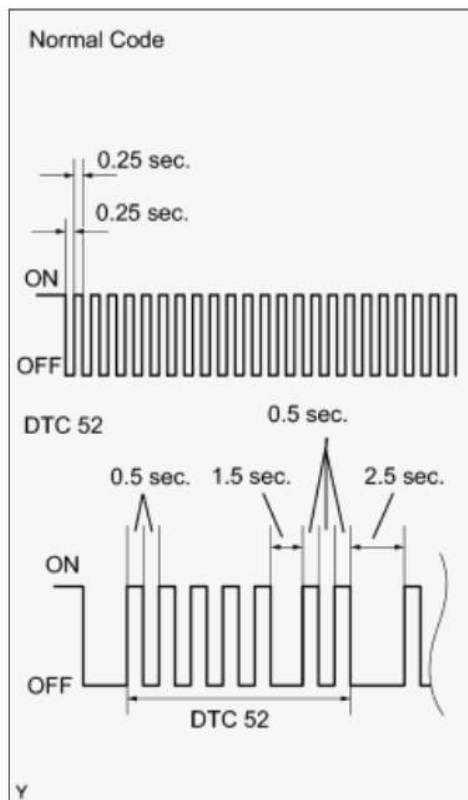
SST: 09843-18040

- (b) Turn the ignition switch ON.

- (c) Read the DTC on the CRUISE main indicator light.

HINT:

- If the DTC is not output, inspect the diagnosis circuit.
- As an example, the blinking patterns of a normal code and code 52 are shown in the illustration.

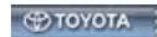


3. CLEAR DTC (USING TECHSTREAM)

- Connect the Techstream to the DLC3.
- Turn the ignition switch to the ON position.
- Turn the Techstream on.
- Enter the following menus: Powertrain / Cruise Control / Trouble Codes.
- Clear the DTCs.

4. CLEAR DTC (USING SST CHECK WIRE)

- Read and record DTCs from the CRUISE main indicator light. Turn the ignition switch off.
- If DTCs are indicated, repair the relevant circuits using the DTC Chart [INFO](#).
- Clear the DTCs according to one of the following procedures.
 - Disconnect the negative (-) battery cable for more than 1 minute.
 - Remove the EFI NO. 1 and ETCS fuses from the engine room relay block (located inside the engine compartment) for more than 1 minute.
- Recheck for DTCs.



Last Modified: 9-7-2011	6.4 U	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000000ST105QX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: FAIL-SAFE CHART (2011 RAV4)		

FAIL-SAFE CHART

HINT:

If the following conditions are detected while the cruise control is in operation, the system clears the stored vehicle speed in the ECM and cancels the cruise control operation.

Cruise control system

VEHICLE CONDITION	AUTO CANCEL CONDITION	FAIL-SAFE DEACTIVATION CONDITION
CRUISE main indicator light blinks	- There is open or short in stop light switch circuit - There is problem with vehicle speed signal - VSC is damaged - There is communication malfunction between VSC and ECM	Turn cruise control main switch ON again
CRUISE main indicator light blinks	- There is problem with input circuit of stop light switch circuit - There is problem with cancel circuit	- Turn cruise control main switch on again - Turn ignition switch off then on again
CRUISE main indicator light goes off	There is problem with throttle position sensor and motor	After throttle position sensor and motor return to normal, turn cruise control main switch on again



Last Modified: 9-7-2011	6.4 D	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000000PLO07VX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING (2011 RAV4)		

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use these procedures to troubleshoot the cruise control system.
- *: Use the Techstream.

1.	VEHICLE BROUGHT TO WORKSHOP
-----------	------------------------------------

NEXT



2.	INSPECT BATTERY VOLTAGE
-----------	--------------------------------

Standard voltage:
11 to 14 V

If the voltage is below 11 V, recharge or replace the battery before proceeding.

NEXT



3.	CHECK COMMUNICATION FUNCTION OF CAN COMMUNICATION SYSTEM*
-----------	--

(a) Use the Techstream to check if the CAN Communication System is functioning normally.

Result:

RESULT	PROCEED TO
CAN DTC is not output	A
CAN DTC is output	B

B **Go to CAN COMMUNICATION SYSTEM**

A

▼

4.	CHECK INDICATOR LIGHT
-----------	------------------------------

NEXT

▼

5.	CHECK DTC*
-----------	-------------------

- (a) Check for a DTC and note any codes that are output.
- (b) Delete the DTC.
- (c) Recheck for DTCs, and try to prompt the DTC by simulating the original activity that the DTC suggests.

Result

RESULT	PROCEED TO
DTC does not reoccur	A
DTC reoccurs	B

B ► Go to step 8

A

▼

6.	PROBLEM SYMPTOMS TABLE
-----------	-------------------------------

Result

RESULT	PROCEED TO
Fault is not listed in problem symptoms table	A

RESULT	PROCEED TO
Fault is listed in problem symptoms table	B

B ▶ Go to step 8

A
▼

7.	OVERALL ANALYSIS AND TROUBLESHOOTING*
----	---------------------------------------

- (a) Terminals of ECM INFO
- (b) DATA LIST / ACTIVE TEST INFO

NEXT
▼

8.	REPAIR OR REPLACE
----	-------------------

NEXT
▼

9.	CONFIRMATION TEST
----	-------------------

NEXT ▶ **END**



Last Modified: 9-7-2011	6.4 C	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000018LP00HX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: P0500/21,P0503/23: Vehicle Speed Sensor "A" (2011 RAV4)		

DTC	P0500/21	Vehicle Speed Sensor "A"
-----	----------	--------------------------

DTC	P0503/23	Vehicle Speed Sensor Circuit
-----	----------	------------------------------

DESCRIPTION

for 2GR-FE: Refer to DTC P0500 [INFO](#) .

for 2AR-FE: Refer to DTC P0500 [INFO](#) .

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
P0500/21 P0503/23	No vehicle speed sensor signal to ECM under conditions (a) and (b) (2 trip detection logic): (a) Cruise control system is operating (b) Vehicle is being driven	• Combination meter • Vehicle speed sensor • Vehicle speed sensor circuit • ECM

WIRING DIAGRAM

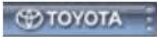
for 2GR-FE: Refer to DTC P0500 [INFO](#) .

for 2AR-FE: Refer to DTC P0500 [INFO](#) .

INSPECTION PROCEDURE

for 2GR-FE: Refer to DTC P0500 [INFO](#) .

for 2AR-FE: Refer to DTC P0500 [INFO](#) .



Last Modified: 9-7-2011	6.4 C	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000021AA00CX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: P0571/52: Stop Light Switch Circuit (2011 RAV4)		

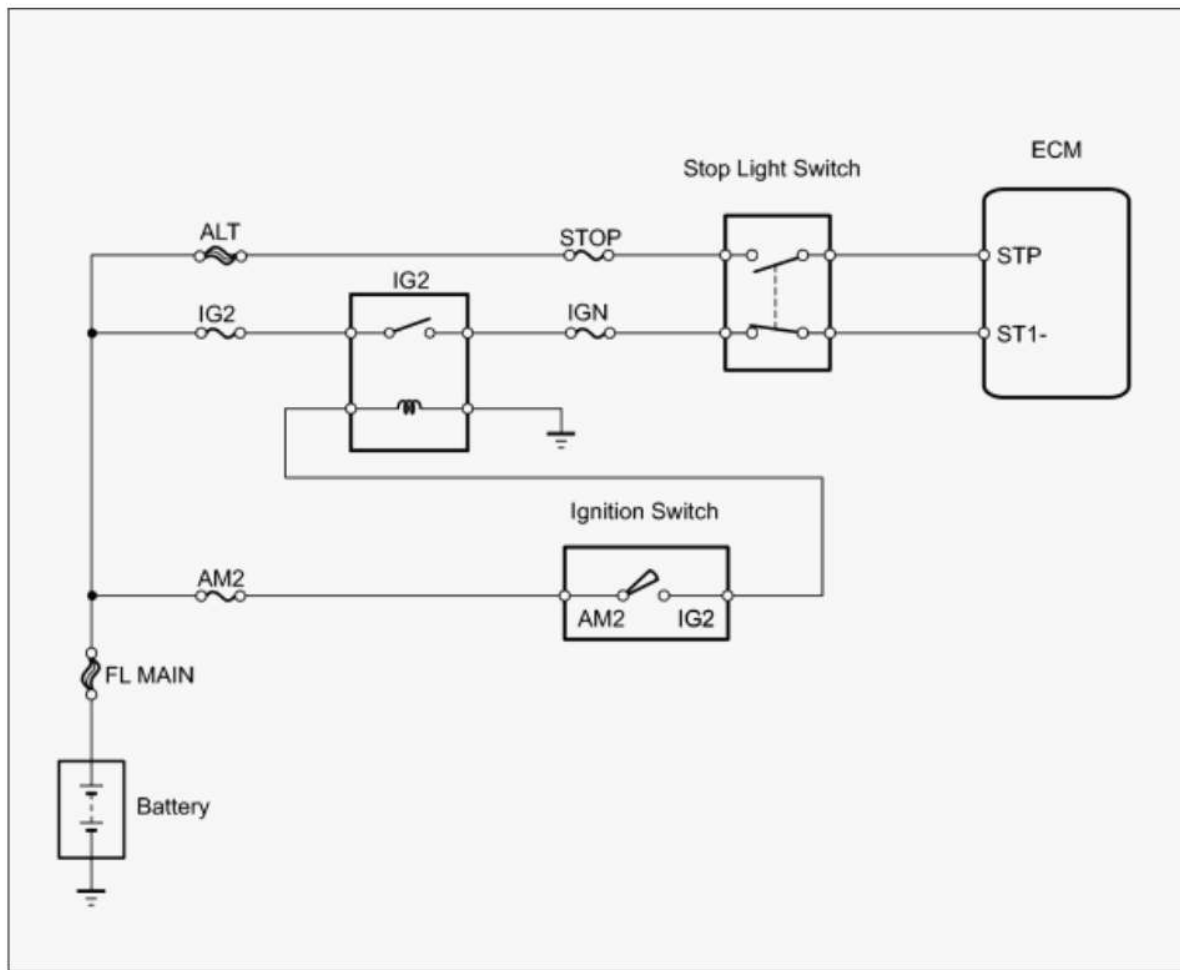
DTC	P0571/52	Stop Light Switch Circuit
------------	-----------------	----------------------------------

DESCRIPTION

While driving with the cruise control, if the ECM detects that the brake pedal is depressed, the cruise control operation will be canceled. The stop light switch sends brake pedal status signals to the ECM. When the brake pedal is not depressed, terminal ST1- is equal to the positive (+) battery voltage and terminal STP is below 1 V. When the brake pedal is depressed, the ECM cancels cruise control operation. The ECM outputs this DTC when the voltage of terminals ST1- and STP are both below 1 V for 0.5 seconds or more at the same time. The fail-safe function operates to enable normal driving even if there is a malfunction in the stop light signal circuit.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
P0571/52	ECM detects malfunction of stop light switch circuit under both of following conditions: • Voltage of terminal STP is less than 1 V for 0.5 seconds or more • Voltage of terminal ST1- is less than 1 V for 0.5 seconds or more	• Stop light switch • BRK relay circuit • Wire harness • ECM

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

1. INSPECT FUSE (STOP, IGN, IG2)

- Remove the STOP and IGN fuses from the instrument panel junction block.
- Remove the IG2 fuse from the engine room No. 1 relay block.
- Measure the resistance of the fuses.

Standard resistance:

Below 1 Ω

NG **REPLACE FUSE**

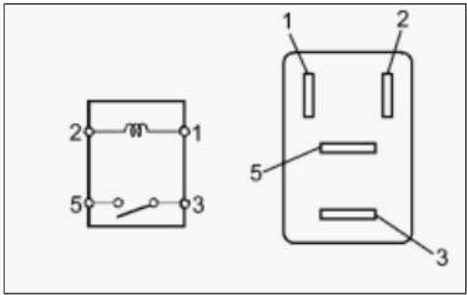
OK



2. INSPECT IG2 RELAY

- (a) Remove the IG2 relay from the engine room No. 1 relay block.
- (b) Measure the resistance of the relay.

Standard resistance:



TESTER CONNECTION	SPECIFIED CONDITION
3 - 5	10 kΩ or higher
	Below 1 Ω (when battery voltage is applied to terminals 1 and 2)

NG REPLACE IG2 RELAY

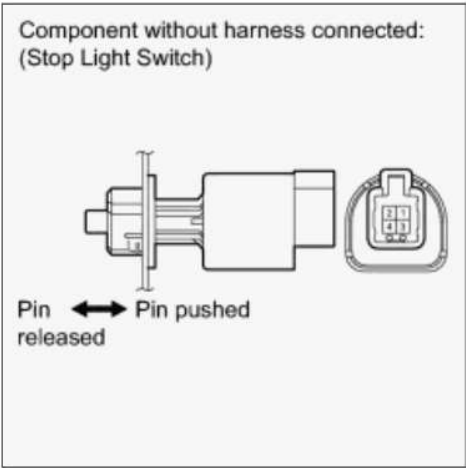
OK

3. INSPECT STOP LIGHT SWITCH

- (a) Remove the stop light switch.
- (b) Measure the resistance of the switch.

Standard resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
1 - 2	Not pushed	Below 1 Ω
3 - 4	Pushed	
1 - 2	Pushed	10 kΩ or higher



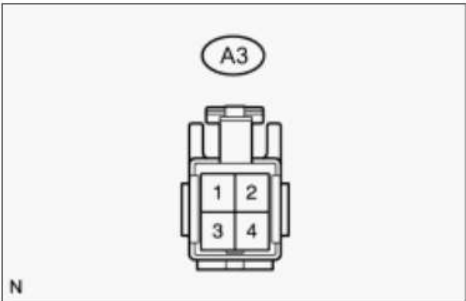
TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
3 - 4	Not pushed	

NG **REPLACE STOP LIGHT SWITCH**

OK

4. CHECK WIRE HARNESS (SWITCH - BATTERY)

- (a) Disconnect the A3 switch connector.
- (b) Measure the voltage of the wire harness side connector.
- Standard voltage:



TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A3-2 - Body ground	Always	11 to 14 V
A3-4 - Body ground	Ignition switch ON	

NG **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK

5. CHECK WIRE HARNESS (ECM - BATTERY)

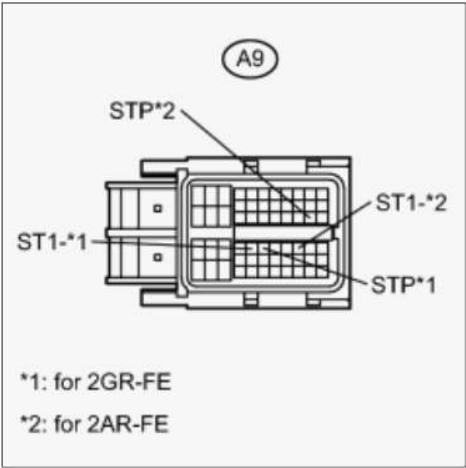
- (a) Disconnect the A9 ECM connector.

- (b) Turn the ignition switch ON.
- (c) Measure the voltage of the wire harness side connector.

Standard voltage:

for **2GR-FE**

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A9-35 (ST1-) - Body ground	Depressed	11 to 14 V
A9-36 (STP) - Body ground	Released	
A9-35 (ST1-) - Body ground	Released	Below 1 V
A9-36 (STP) - Body ground	Depressed	

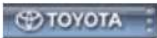


for **2AR-FE**

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
A9-39 (ST1-) - Body ground	Depressed	11 to 14 V
A9-29 (STP) - Body ground	Released	
A9-39 (ST1-) - Body ground	Released	Below 1 V
A9-29 (STP) - Body ground	Depressed	

NG **REPAIR OR REPLACE HARNESS AND CONNECTOR**

OK **REPLACE ECM**



Last Modified: 9-7-2011	6.4 C	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000021AB00CX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: P0575/54: Cruise Control Input Circuit (2011 RAV4)		

DTC	P0575/54	Cruise Control Input Circuit
-----	----------	------------------------------

DESCRIPTION

This DTC expresses the internal abnormalities of the ECM.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
P0575/54	When either of following conditions is met: - Cruise control input signal abnormal - Stop light switch input signal abnormal	ECM

INSPECTION PROCEDURE

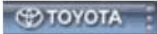
PROCEDURE

1.	CHECK FOR DTC
----	---------------

- (a) Clear the DTC  .
- (b) Check for DTC  .
- OK:
- DTC is not output.

NG  REPLACE ECM

OK  END



Last Modified: 9-7-2011	6.4 C	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000026HY00BX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: P1578/69: Brake System Malfunction (2011 RAV4)		

DTC	P1578/69	Brake System Malfunction
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DESCRIPTION

This DTC is output when the VSC system has a problem. Check the VSC system when this DTC is output.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
P1578/69	ECM receives a brake system error signal for 0.2 seconds or more while cruise control is in operation	VSC system

INSPECTION PROCEDURE

HINT:

This circuit uses CAN communication. Therefore, if there are any malfunctions in the communication circuit, one or more DTCs in the CAN communication system are output.

PROCEDURE

1.	CHECK BRAKE CONTROL SYSTEM
-----------	-----------------------------------

Refer to HOW TO PROCEED WITH TROUBLESHOOTING  .

NEXT  **END**



Last Modified: 9-7-2011	6.4 C	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000026HW00AX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: P1630/64,U0122/82: Communication Error from Skid Control ECU to ECM (2011 RAV4)		

DTC	P1630/64	Communication Error from Skid Control ECU to ECM
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DTC	U0122/82	Communication Stop from VSC to ECM
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DESCRIPTION

The skid control ECU sends signals such as cruise control cancel demand signals and brake operation demand from ECM response signals to the ECM when the cruise control system is in operation.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
P1630/64	While cruise control is either preparing for operation or operating, if communication data from skid control ECU is logically inconsistent for a certain amount of time, ECM records this logical error code	• Communication circuit • Skid control ECU • ECM
U0122/82	While cruise control is either preparing for operation or operating, if communication data from skid control ECU is invalid for a certain amount of time, ECM records communication cut off code	• Communication circuit • Skid control ECU • ECM

INSPECTION PROCEDURE

HINT:

This circuit uses CAN communication. Therefore, if there are any malfunctions in the communication circuit, one or more DTCs in the CAN communication system are output.

PROCEDURE

1.	CHECK CAN COMMUNICATION SYSTEM
-----------	---------------------------------------

Refer to HOW TO PROCEED WITH TROUBLESHOOTING [INFO](#) .

NEXT  **END**



CRUISE CONTROL: CRUISE CONTROL SYSTEM: P1630/64,U0122... <https://techinfo.toyota.com/t3Portal/document/rm/RM16B0U/xhtml/RM...>



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Last Modified: 9-7-2011	6.4 C	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000026HX00AX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: P1631/65,U0100/78: Communication Error from ECM to Skid Control ECU (2011 RAV4)		

DTC	P1631/65	Communication Error from ECM to Skid Control ECU
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DTC	U0100/78	Communication Stop from ECM to Distance Control ECU, VSC
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DESCRIPTION

Therefore, if the skid control ECU detects a communication error from the ECM, it sends a malfunction signal back to the ECM.

DTC NO.	DTC DETECTION CONDITION	TROUBLE AREA
P1631/65	While the cruise control is either preparing for operation or operating, if the ECM continuously receives a logical error signal from the skid control ECU for a certain amount of time, the ECM records this logical error code	• Communication circuit • ECM • Skid control ECU
U0100/78	While the cruise control is either preparing for operation or operating, if the ECM continuously receives a communication cut off signal from the skid control ECU for a certain amount of time, the ECM records this communication cut off code	• Communication circuit • ECM • Skid control ECU

INSPECTION PROCEDURE

HINT:

This circuit uses CAN communication. Therefore, if there are any malfunctions in the communication circuit, one or more DTCs in the CAN communication system are output.

PROCEDURE

1.	CHECK CAN COMMUNICATION SYSTEM
-----------	---------------------------------------

Refer to HOW TO PROCEED WITH TROUBLESHOOTING  .

NEXT  **END**



CRUISE CONTROL: CRUISE CONTROL SYSTEM: P1631/65,U0100... <https://techinfo.toyota.com/t3Portal/document/rm/RM16B0U/xhtml/RM...>

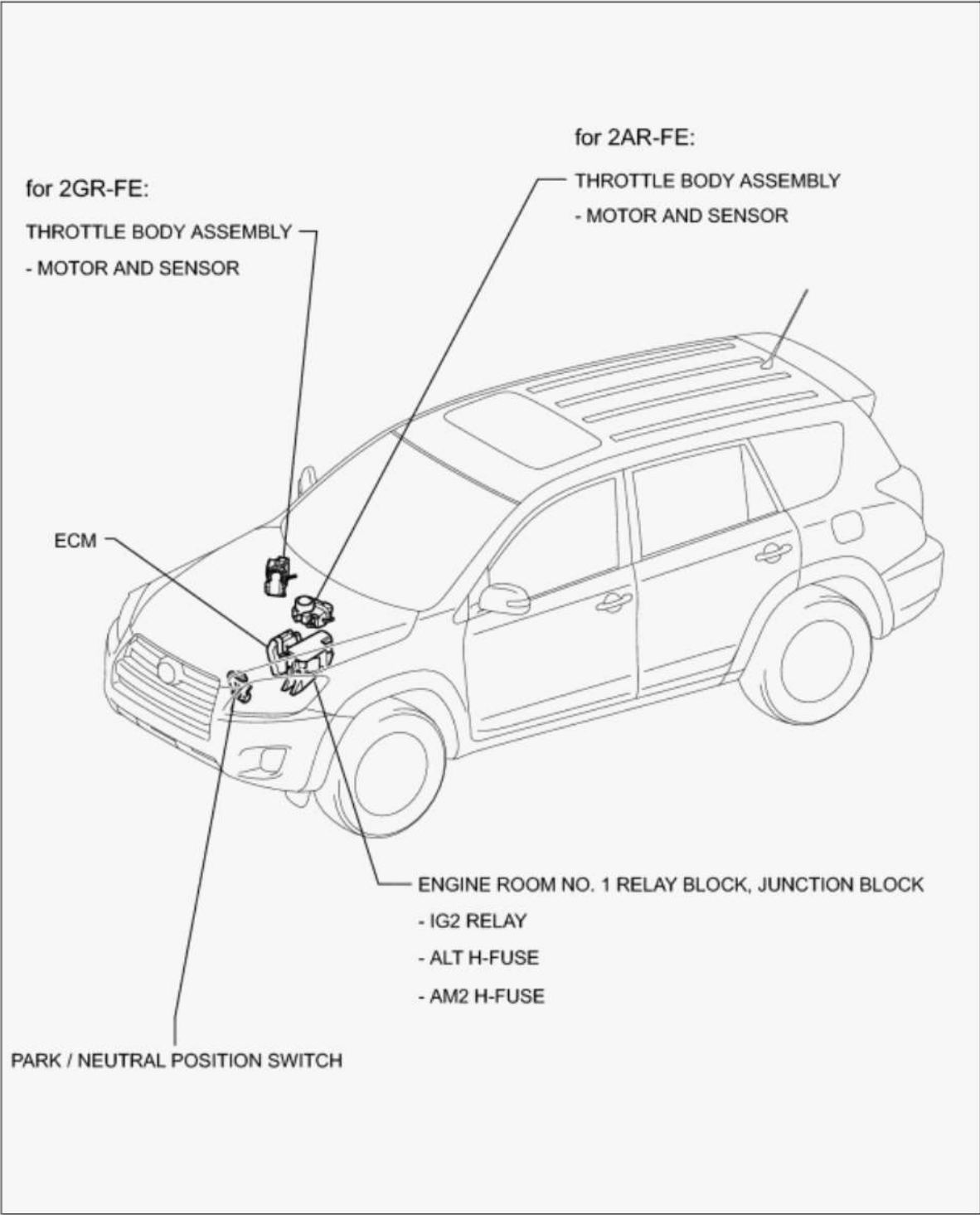


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Last Modified: 9-7-2011	6.4 R	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000001CF7008X
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: PARTS LOCATION (2011 RAV4)		

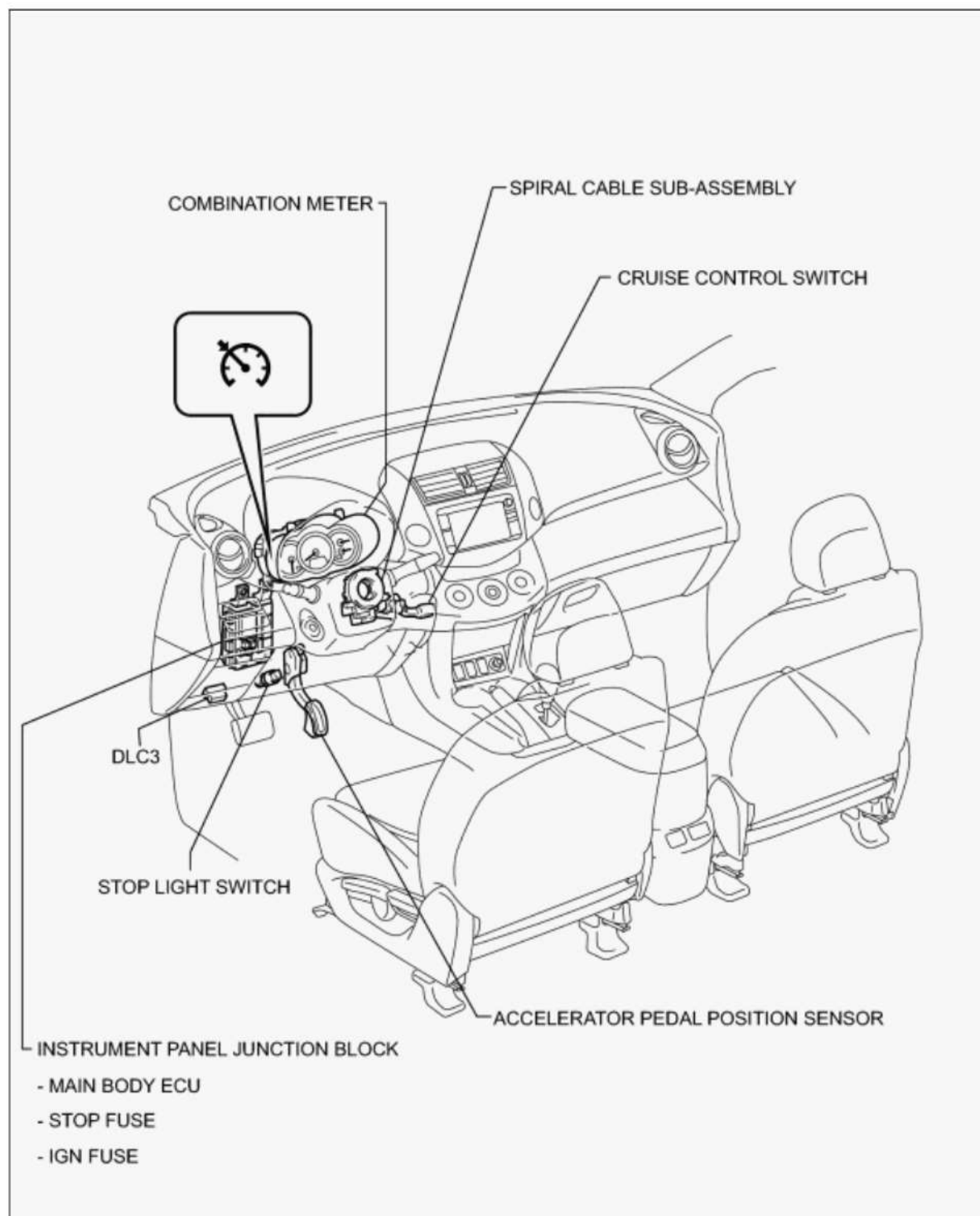
PARTS LOCATION

ILLUSTRATION



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ILLUSTRATION



Last Modified: 9-7-2011	6.4 L	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000018LJ00EX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: PRECAUTION (2011 RAV4)		

PRECAUTION

1. IGNITION SWITCH EXPRESSION

HINT:

The type of ignition switch used on this model differs according to the specifications of the vehicle. The expressions listed in the table below are used in this section.

EXPRESSION	IGNITION SWITCH (POSITION)	ENGINE SWITCH (CONDITION)
Ignition Switch off	Off	Off
Ignition Switch ON	ON	On (IG)
Ignition Switch ACC	ACC	On (ACC)
Engine Start	START	Start

2. HANDLING PRECAUTION FOR CRUISE CONTROL SYSTEM

- (a) Turn the cruise control main switch OFF when not using the cruise control system.
- (b) Be careful as the vehicle speed increases when driving downhill with the cruise control system on.
- (c) The RESUME/ACCEL operation changes according to the cruise control system status. When the cruise control system is operating, ACCEL operates. When the cruise control system is not operating, RESUME operates.
- (d) When the cruise control system is operating and the CRUISE main indicator light blinks, turn the cruise control main switch OFF to reset the cruise control system. After the reset, if the cruise control main switch cannot be turned ON, or the cruise control system is canceled immediately after turning the cruise control main switch ON, the system may have a malfunction.
- (e) Do not use the cruise control system where the road conditions are as follows:
 - Heavy traffic
 - Steep downhill
 - Roads with sharp turns
 - Icy or snowy roads
 - Slippery roads
- (f) When towing, do not use the cruise control system. The weight of the trailer may cause problems with cruise control functions, cause a decrease in control performance and lead to accidents.



Last Modified: 9-7-2011	6.4 T	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000018LO00AX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: PROBLEM SYMPTOMS TABLE (2011 RAV4)		

PROBLEM SYMPTOMS TABLE

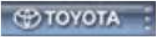
HINT:

- Use the table below to help determine the cause of the problem symptom. The potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

Cruise control system

SYMPTOM	SUSPECTED AREA	SEE PAGE
SET not occurring or CANCEL occurring (DTC is normal)	1. Input signal circuit	INFO
	2. Vehicle speed sensor circuit	INFO
	3. Stop light switch circuit	INFO
	4. Park / neutral position switch circuit	INFO
	5. ECM	-
SET not occurring or CANCEL occurring (DTC is not output)	1. Cruise control switch circuit	INFO
	2. ECM	-
Actual vehicle speed deviates above or below the set speed	1. Vehicle speed sensor circuit	INFO
	2. ECM	-
Gear shifting occurs frequently between 3rd and O/D when driving on	1. Vehicle speed sensor circuit	INFO
	2. ECM	-
Cruise control not canceled, even when brake pedal is depressed	1. Stop light switch circuit	INFO
	2. ECM	-
Cruise control not canceled, even when transmission is shifted to N	1. Park / neutral position switch circuit	INFO
	2. ECM	-
Control switch does not operate (-/SET, +/-RES, CANCEL not possible)	1. Cruise control switch circuit	INFO
	2. ECM	-
SET possible at 40 km/h (25 mph) or less, or CANCEL does not operate	1. Vehicle speed sensor circuit	INFO
	2. ECM	-
Poor response in ACCEL and RESUME modes	1. ECM	-
O/D does not resume, even though road is not uphill	1. Vehicle speed sensor circuit	INFO
	2. ECM	-

SYMPTOM	SUSPECTED AREA	SEE PAGE
DTC memory is erased	1. ECM	-
DTC is not output, or is output when it should not be	1. Diagnosis circuit	INFO
	2. ECM	-
Cruise main indicator light remains illuminated or fails to light up	1. Cruise control switch circuit	INFO
	2. Combination meter	INFO
	3. ECM	-



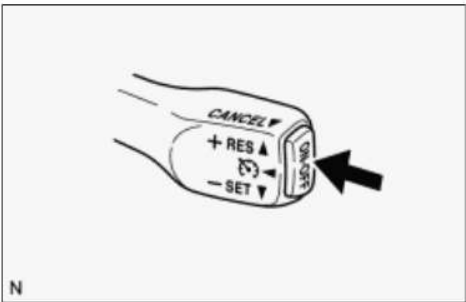
Last Modified: 9-7-2011	6.4 M	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000021QR006X
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: REGISTRATION (2011 RAV4)		

REGISTRATION

1. PERFORM VEHICLE STABILITY CONTROL SYSTEM RECOGNITION IN ECM

NOTICE:
If the vehicle has both cruise control and VSC, when replacing ECM, perform VSC recognition as follows:

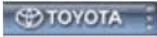
(a) Turn the ignition switch ON.



(b) After waiting approximately 5 seconds, turn the cruise control main switch ON.

(c) Keep the cruise control main switch ON for approximately 5 seconds or more.

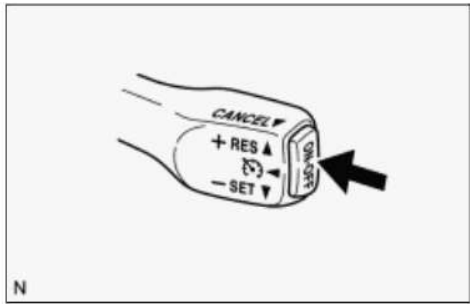
HINT:
The VSC recognition will not be reflected in the cruise control system until the ignition switch is turned OFF and ON.



Last Modified: 9-7-2011	6.4 D	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM0000018LS00GX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: ROAD TEST (2011 RAV4)		

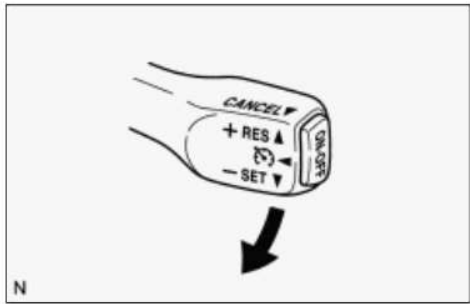
ROAD TEST

1. INSPECT SET SWITCH



(a) Push the main switch ON.

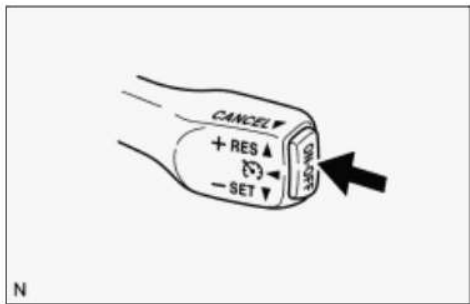
(b) Drive at a desired speed (40 km/h (25 mph) or higher).



(c) Press the control switch to -/SET.

(d) After releasing the switch, check that the vehicle cruises at the desired speed.

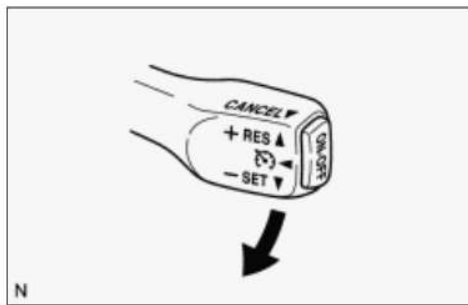
2. INSPECT "+" SWITCH



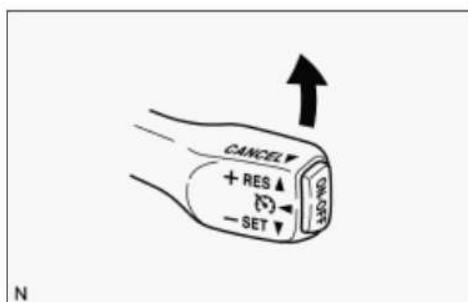
(a) Push the main switch button ON.

(b) Drive at a desired speed (40 km/h (25 mph) or higher).

(c) Press the control switch to -/SET.

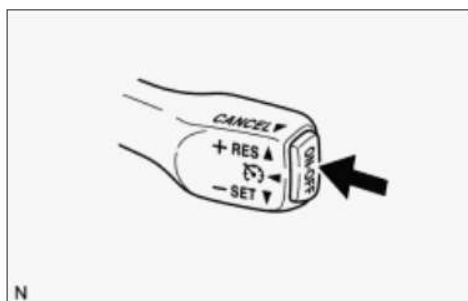


- (d) Check that the vehicle speed increases while the control switch is pressed to +/RES, and that the vehicle cruises at the set speed when the switch is released.



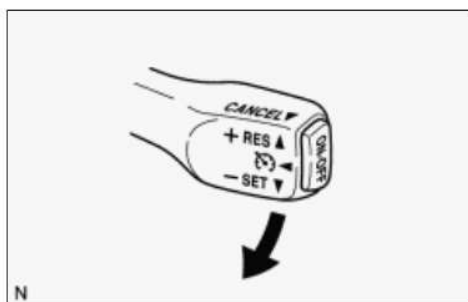
- (e) Momentarily press the control switch to +/RES and then immediately release it. Check that the vehicle speed increases by about 1.6 km/h (1 mph) (Tap-up function).

3. INSPECT "-" SWITCH



- (a) Push the main switch button ON.

- (b) Drive at a desired speed (40 km/h (25 mph) or higher).

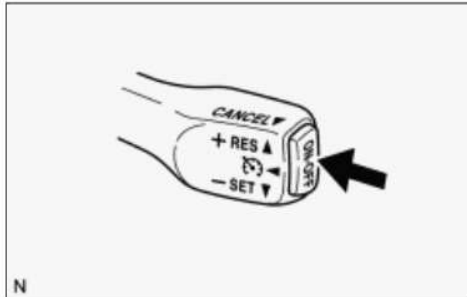


- (c) Press the control switch to -/SET.

- (d) Check that the vehicle speed decreases while the control switch is pressed to -/SET, and the vehicle cruises at the set speed when the switch is released.

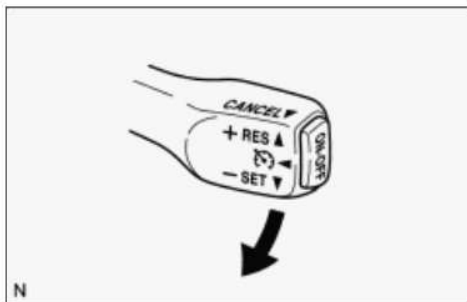
- (e) Momentarily press the control switch to -/SET, and then immediately release it. Check that the vehicle speed decreases by about 1.6 km/h (1 mph) (Tap-down function).

4. INSPECT CANCEL SWITCH

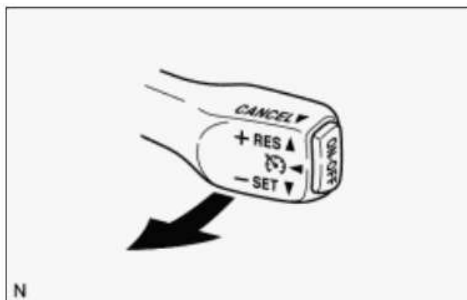


- (a) Push the main switch button ON.

- (b) Drive at a desired speed (40 km/h (25 mph) or higher).



- (c) Press the control switch to -/SET.

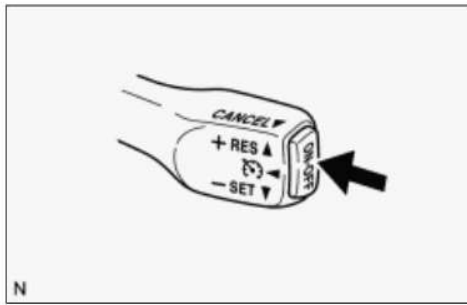


- (d) When operating one of the following, check that the cruise control system is canceled.

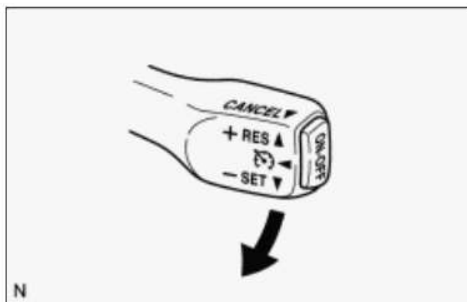
- Depressing the brake pedal
- Pushing the cruise control main switch OFF
- Pulling the cruise control switch to CANCEL
- The shift lever is moved from D or 4 to N, 3, 2 or 1. (for 2GR-FE)
- The shift lever is moved from D or 3 to N, 2 or 1. (for 2AR-FE)

5. INSPECT RES (RESUME) SWITCH

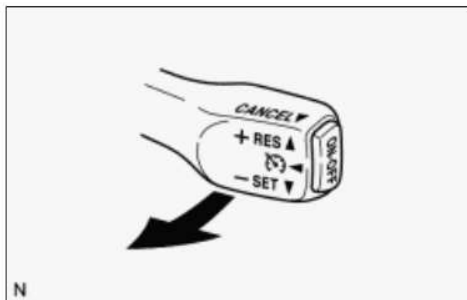
- (a) Push the main switch button ON.



(b) Drive at a desired speed (40 km/h (25 mph) or higher).

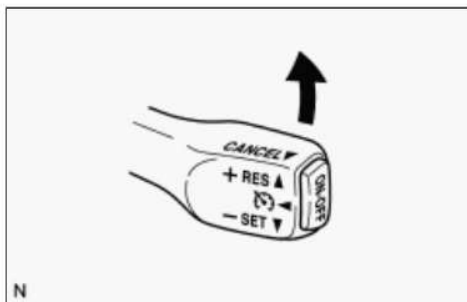


(c) Press the control switch to -/SET.



(d) When operating one of the following, check that the cruise control system is canceled.

- Depressing the brake pedal
- Pulling the cruise control switch to CANCEL
- The shift lever is moved from D or 4 to N, 3, 2 or 1. (for 2GR-FE)
- The shift lever is moved from D or 3 to N, 2 or 1. (for 2AR-FE)



(e) After the control switch is pressed to +/RES at a driving speed of more than 40 km/h (25 mph), check that the vehicle restores the speed before the cancellation.



Last Modified: 9-7-2011	6.4 D	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000000PLZ06ZX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: SYSTEM DESCRIPTION (2011 RAV4)		

SYSTEM DESCRIPTION

1. CRUISE CONTROL SYSTEM

This system is controlled by the ECM, and is activated by the throttle position sensor and motor. The ECM controls the following functions: ON-OFF, -SET (SET / COAST), +RES (RESUME / ACCEL), CANCEL, vehicle speed operation, motor output control, and overdrive control.

- The ECM compares the driving vehicle speed from the combination meter with the stored vehicle speed set through the cruise control switch. The ECM controls the throttle valve motor of the throttle body to open the valve when the driving speed is less than the stored speed.
- The ECM receives signals such as ON-OFF, -SET (SET / COAST), +RES (RESUME / ACCEL), and CANCEL from the cruise control switch.
- The ECM illuminates the combination meter CRUISE main indicator light when it receives the cruise control switch ON signal.
- The ECM cancels the cruise control system when the brake pedal is depressed and the ECM receives the stop light switch signal.
- The ECM cancels the cruise control system when the shift lever is moved from D or 4 to a position other than D or 4, and the ECM receives the park/neutral position switch signal. (for 2GR-FE)
- The ECM cancels the cruise control system when the shift lever is moved from D or 3 to a position other than D or 3, and the ECM receives the park/neutral position switch signal. (for 2AR-FE)

2. LIMIT CONTROL

(a) Low speed limit

The lowest possible limit of the speed setting range is set at approximately 40 km/h (25 mph). The cruise control system cannot be set when the driving vehicle speed is below the low speed limit. Cruise control operation will be automatically canceled when the vehicle speed decreases below the low speed limit 40 km/h (25 mph) while the cruise control is in operation.

(b) High speed limit

The highest possible limit of the speed setting range is set at approximately 200 km/h (125 mph). The cruise control system cannot be set when the driving vehicle speed is over the high speed limit. Also, +/RES cannot be used to increase speed beyond the high speed limit.

3. OPERATION OF CRUISE CONTROL

The cruise control switch operates 7 functions: SET, COAST, TAP-DOWN, RESUME, ACCELERATION (ACCEL), TAP-UP, and CANCEL. The SET, TAP-DOWN and COAST functions, and the RESUME, TAP-UP and ACCEL functions are operated with the same switch. The cruise control switch is an automatic return type switch which turns on only when pressed in each arrow direction and turns off when released.

(a) SET CONTROL

Vehicle speed is stored and constant speed control is maintained when pushing the switch to -/SET while driving with the cruise control switch ON (the CRUISE main indicator light is illuminated), and the vehicle speed is within the set speed range (between the low and high speed limits).

(b) COAST CONTROL

The ECM changes the cruise control demanding throttle opening angle to 0° and decelerates the vehicle when -/SET on the cruise control switch is pressed and held while the cruise control system is operating.

When the cruise control switch is released from -/SET, the vehicle speed is stored and constant speed control is maintained.

HINT:

- The throttle valve is not fully closed due to idle speed control, etc.
- The brake is also used to decelerate the vehicle.

(c) TAP-DOWN CONTROL

When tapping down the cruise control switch to -/SET (for approximately 0.5 seconds) while the cruise control system is in operation, the stored vehicle speed decreases each time by approximately 1.6 km/h (1.0 mph). When the cruise control switch is released from -/SET and the difference between the driving and stored vehicle speed is less than 5 km/h (3 mph), the vehicle speed is stored and constant speed control is maintained.

(d) ACCEL CONTROL

The throttle valve motor of the throttle position sensor and motor is instructed by the ECM to open the throttle valve when +/RES on the cruise control switch is pressed and held while the cruise control system is operating. When the cruise control switch is released from +/RES, the vehicle speed is stored and constant speed is maintained.

(e) TAP-UP CONTROL

When tapping up the cruise control switch to +/RES (for approximately 0.5 seconds) while the cruise control system is in operation, the stored vehicle speed increases each time by approximately 1.6 km/h (1.0 mph). However, when the difference between the driving and the stored vehicle speed is more than 5 km/h (approximately 3.1 mph), the stored vehicle speed will not be changed.

(f) RESUME CONTROL

If the cruise control operation was canceled with the stop light switch or the CANCEL switch, and if driving speed is within the set speed range, setting the cruise control switch to +/RES restores the vehicle speed memorized at the time of cancellation, and constant speed is maintained.

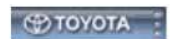
(g) MANUAL CANCEL CONTROL

Performing any of the following cancels the cruise control system (the stored vehicle speed in the ECM is maintained).

- Depressing the brake pedal
- The shift lever is moved from D or 4 to N, 3, 2 or 1. (for 2GR-FE)
- The shift lever is moved from D or 3 to N, 2 or 1. (for 2AR-FE)
- Pulling the cruise control switch to CANCEL
- Pushing the cruise control switch OFF (the stored vehicle speed in the ECM is not maintained)
- Vehicle stability control system is operating

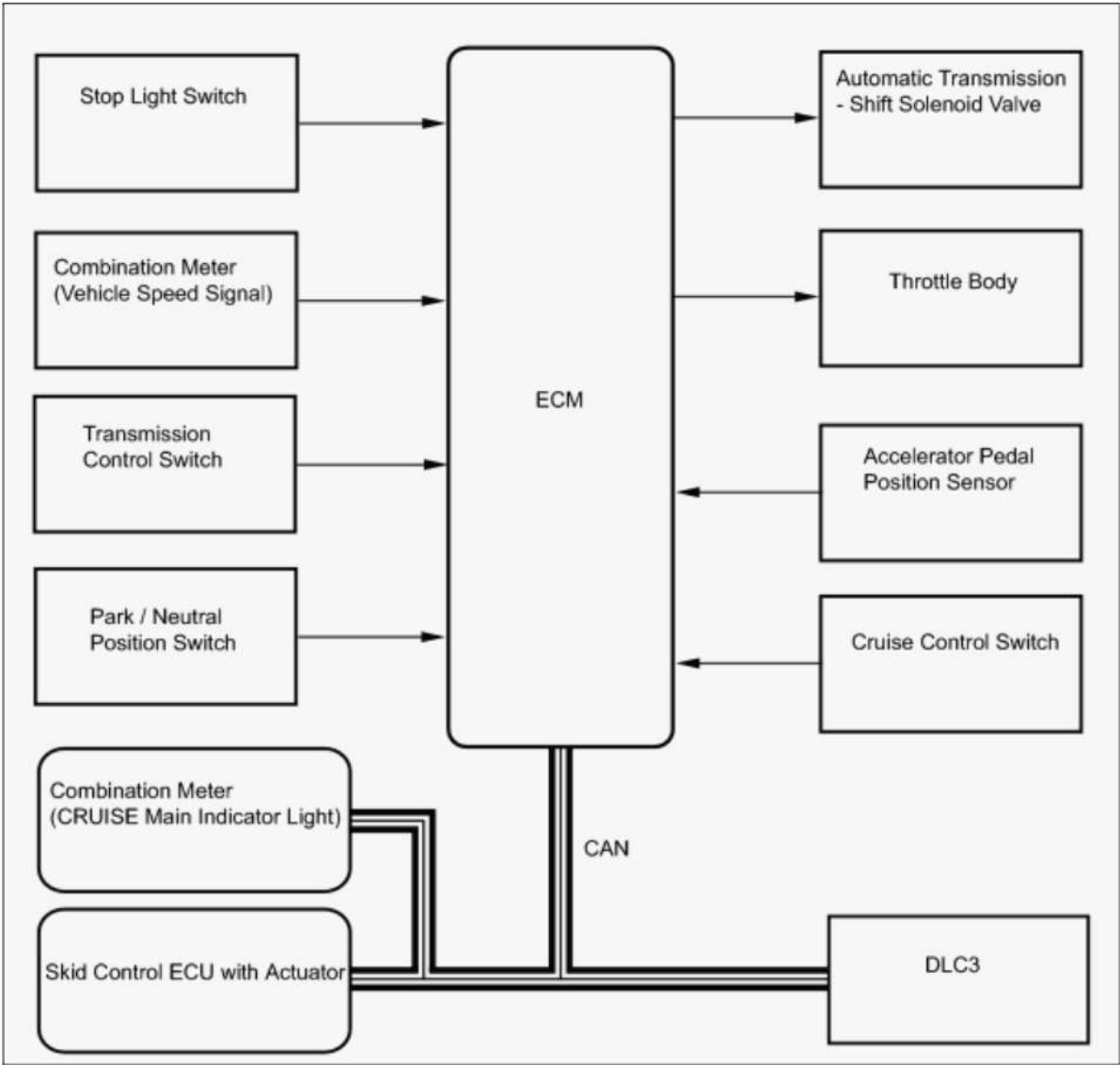
4. AUTO CANCEL (FAIL-SAFE)

This system has an automatic cancellation function (fail-safe)  .



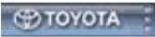
Last Modified: 9-7-2011	6.4 U	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000000PM206CX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: SYSTEM DIAGRAM (2011 RAV4)		

SYSTEM DIAGRAM



Communication table

SENDER	RECEIVER	SIGNAL	LINE
ECM	Skid control ECU with actuator	- VSC operation signal - Coast brake operation signal	CAN
ECM	Combination meter	CRUISE main indicator light signal	CAN



Last Modified: 9-7-2011	6.4 J	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000000V6106NX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: TC and CG Terminal Circuit (2011 RAV4)		

TC and CG Terminal Circuit

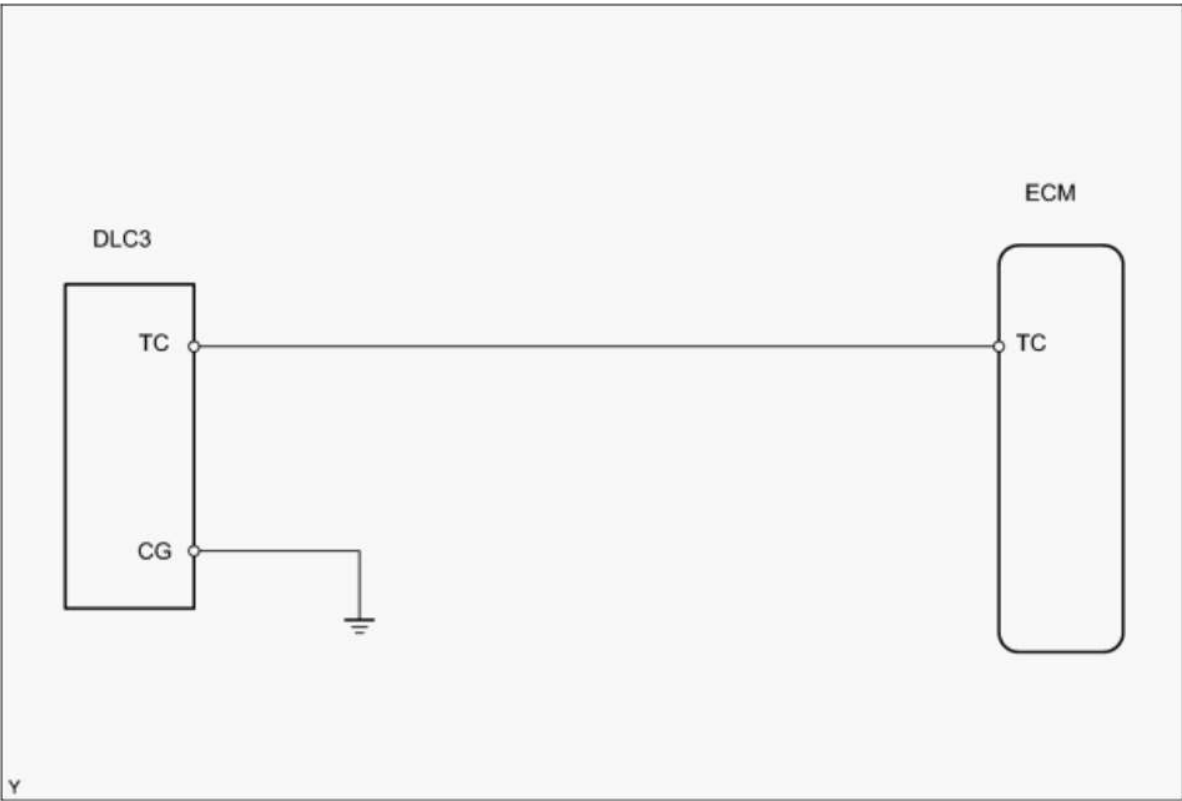
DESCRIPTION

Connecting terminals TC and CG of the DLC3 enables DTCs to be read through blinking patterns of the combination meter's CRUISE main indicator light.

HINT:

When a warning light of the combination meter blinks continuously, terminal TC of the DLC3 or an ECM may have a ground short.

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

1. CHECK WIRE HARNESS (DLC3 - ECM AND BODY GROUND)

- (a) Disconnect the A9 ECM connector.
- (b) Measure the resistance of the wire harness side connectors.
- Standard resistance:

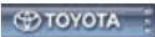
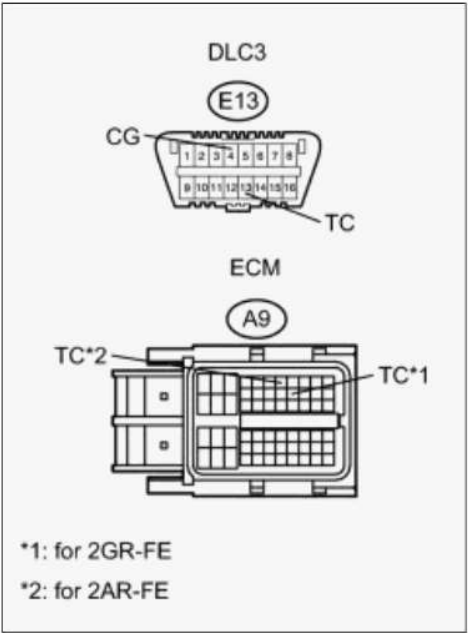
for 2GR-FE

TESTER CONNECTION	SPECIFIED CONDITION
E13-13 (TC) - A9-16 (TC)	Below 1 Ω
E13-4 (CG) - Body ground	

for 2AR-FE

TESTER CONNECTION	SPECIFIED CONDITION
E13-13 (TC) - A9-7 (TC)	Below 1 Ω
E13-4 (CG) - Body ground	

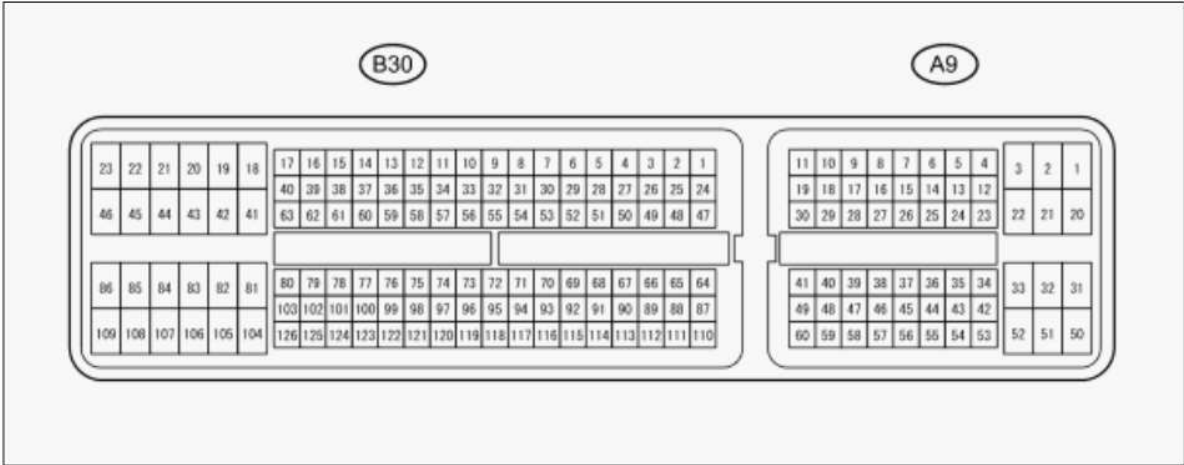
- REPAIR OR REPLACE HARNESS AND CONNECTOR
- NG
- REPLACE ECM
- OK



Last Modified: 9-7-2011	6.4 U	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000001BNT00GX
Title: CRUISE CONTROL: CRUISE CONTROL SYSTEM: TERMINALS OF ECM (2011 RAV4)		

TERMINALS OF ECM

1. CHECK ECM



- (a) Disconnect the A9 and B30 connectors.
- (b) Measure the voltage and resistance of the wire harness side connectors.

SYMBOLS (TERMINAL NO.)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
A9-36 (STP) - B30-81 (E1) *1	L - BR	Stop light switch input signal	Depress brake pedal	11 to 14 V
A9-29 (STP) - B30-104 (E1) *2			Release brake pedal	Below 1 V
A9-45 (CCS) - B30-81 (E1) *1	L - BR	Cruise control main switch signal	CANCEL switch hold ON	1509 to 1571 Ω
A9-40 (CCS) - B30-104 (E1) *2			-/SET switch hold ON	617 to 643 Ω
			+ /RES switch hold ON	235 to 245 Ω
			Main switch OFF	10 kΩ or higher
			Main switch ON	Below 1 Ω
A9-35 (ST1-) - B30-81 (E1) *1	GR - BR	Stop light switch input signal	Release brake pedal	11 to 14 V
A9-39 (ST1-) - B30-104 (E1) *2			Depress brake pedal	Below 1 V

*1: 2GR-FE
*2: 2AR-FE

CRUISE CONTROL: CRUISE CONTROL SYSTEM: TERMINALS O... <https://techinfo.toyota.com/t3Portal/document/rm/RM16B0U/xhtml/RM...>

If the result is not as specified, there may be a malfunction on the wire harness side.

