# SUSPENSION CONTROL SYSTEM

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#### Precautions PRELIMINARY CHECK

- Check power steering fluid level.
- Check power steering fluid line for improper attachment, leaks, cracks, damage, loose connections, chafing and deterioration.
- Check tire pressure.
- Check wheel alignment.
- Check shock absorber for oil leakage or other damage.

#### Fail-Safe FAIL-SAFE FUNCTIONS

The active damper suspension electronically controls the shock absorber dampening force. If, for some reason, the dampening force falls under any of the conditions listed in the "Fail-safe items" table below, the fail-safe system will activate to maintain a constant level of shock absorber dampening force. If symptoms (such as unstable steering, unpleasant riding comfort, etc.) are pointed out, check and correct the malfunctioning part or area using the diagnostic procedure outlined under "Diagnostic Procedure 6 (Hard or soft feel)". Refer to <u>SCS-25</u>, "TROUBLE DIAGNOSIS FOR SYMPTOMS"

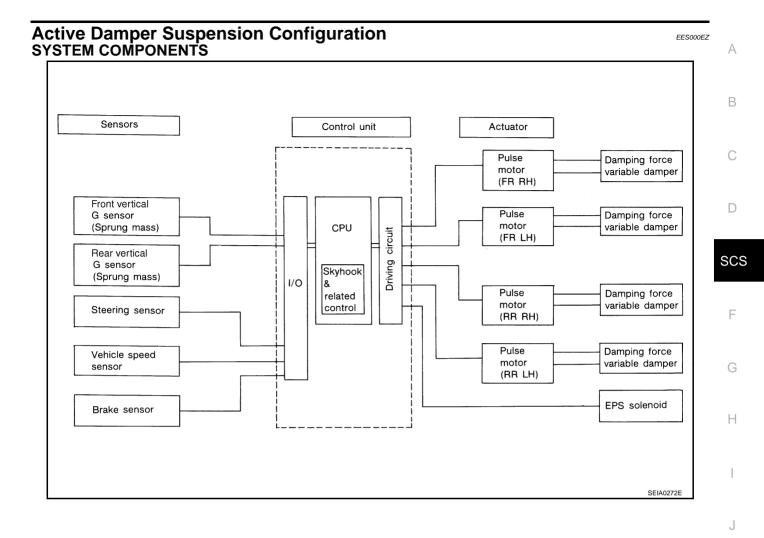
#### FAIL-SAFE ITEMS

Item	Fail-safe input conditions	Fail-safe end conditions	Fail-safe processing
Vehicle speed sensor	<ul> <li>Vehicle speed signal cannot be entered for more than 10 seconds when the vehicle is running with the engine revolution greater than 1,500 rpm.</li> <li>Vehicle speed signal changes from a value of greater than 30 km/h (19 MPH) to a value of less than 2 km/h (1 MPH) within 1.4 seconds.</li> </ul>	A signal corresponding to a vehicle speed of greater than 2 km/h (1 MPH) is entered.	<ul> <li>Shock absorber dampening force is maintained at a preset value.</li> <li>Power steering control current is maintained at approximately 0.18A.</li> </ul>
Steering angle sensor	A steering signal of greater than 1° does not change for more than 180 seconds when vehicle speed is greater than 60 km/h (37 MPH).	A steering signal of greater than 1° is entered.	Shock absorber dampening force is maintained at a preset value.
Steering angle (neu- tral) signal	<ul> <li>Steering neutral signal is not entered ("ON") at all while vehicle is being driven a distance of 10 km (6 miles) or more.</li> <li>Steering neutral signal is not entered ("ON") at all when steering wheel is turned at least 360°in either direction.</li> <li>Steering neutral signal is staying "ON" only while steering wheel is being turned at least 50° in either direction.</li> </ul>	More than one ON-OFF signal is entered.	Shock absorber dampening force is maintained at a preset value.
Vertical G sensor	<ul> <li>Vertical G sensor signal corresponding to a voltage of greater than 4.5 volts does not change for 2 seconds.</li> <li>Vertical G sensor signal corresponding to a voltage of less than 0.5 volts does not change for 2 seconds.</li> </ul>	Vertical G sensor signal corresponding to a volt- age of greater than 1volt or less than 4 volts.	When any of the vertical G sensors are determined to be faulty, shock absorber dampening force is main- tained at a preset value.
Stop lamp switch	Fail-safe system does not process data. DTC is displayed when self-diagnosis is performed	l.	

#### NOTE:

Even after the fail-safe function is canceled, the fail-safe processed history is retained in the control unit memory.

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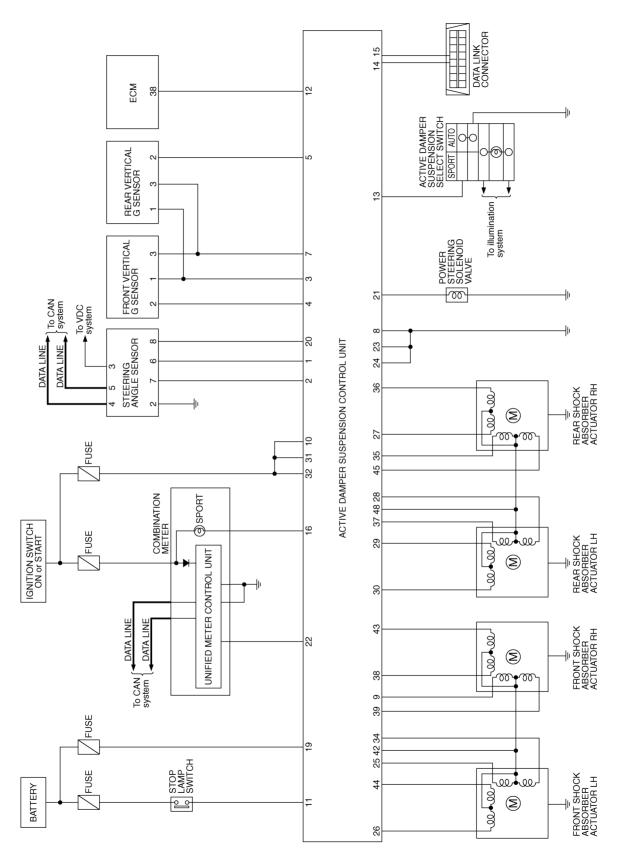


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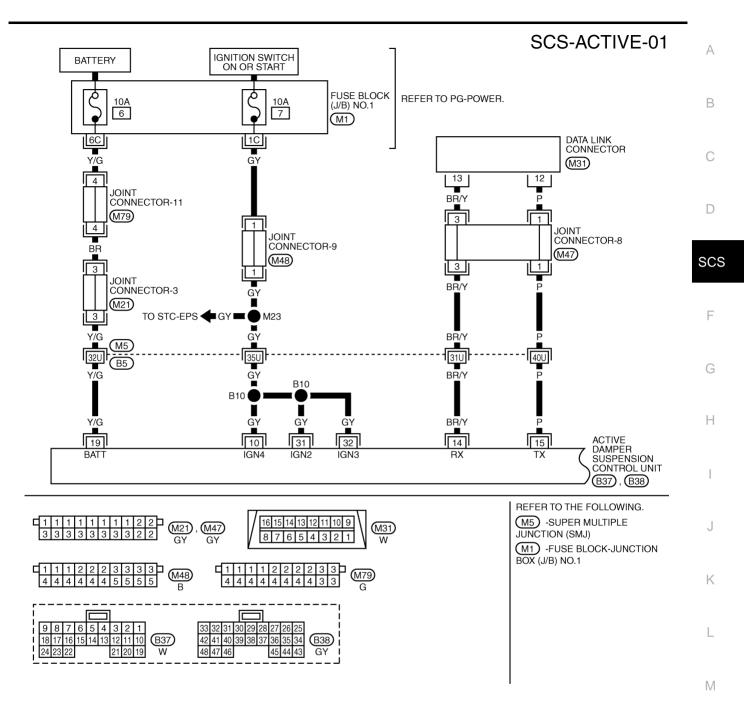
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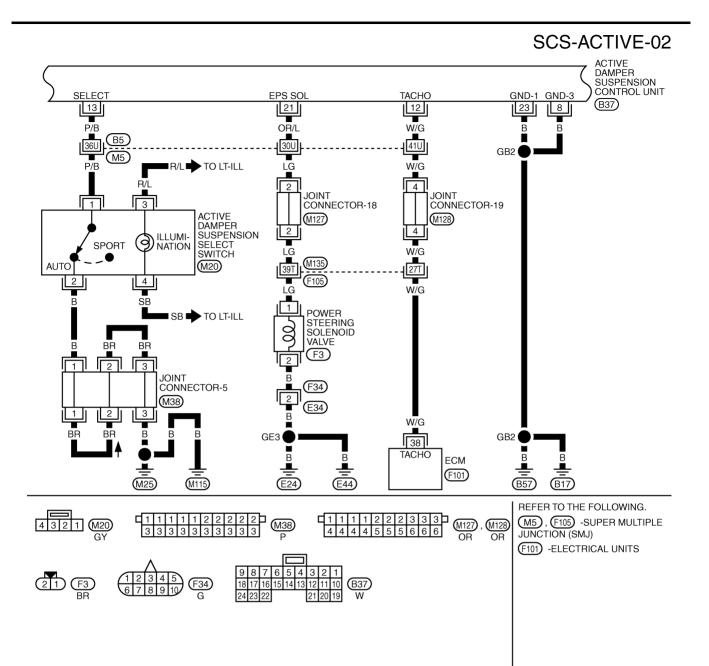
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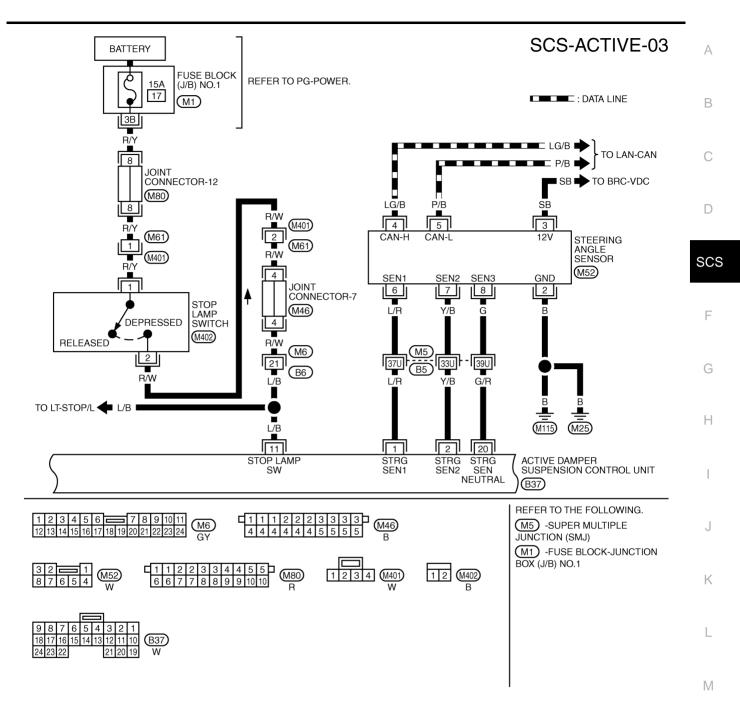
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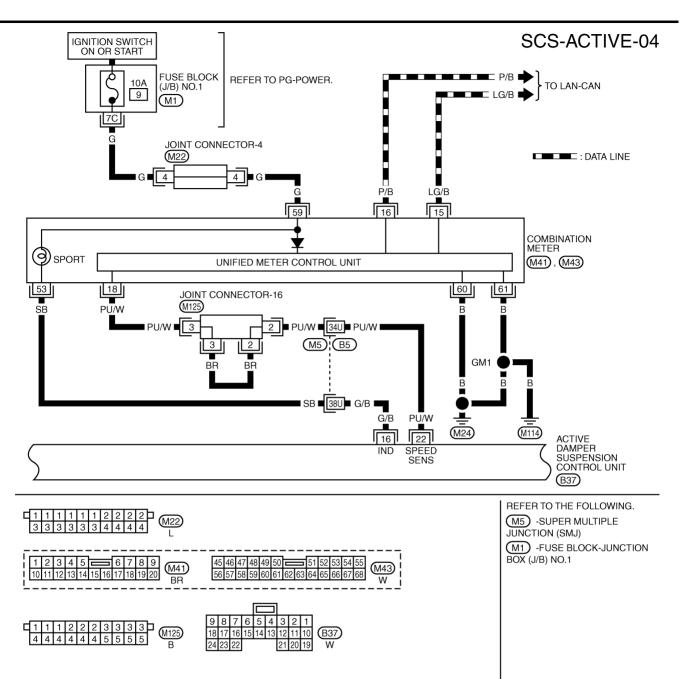
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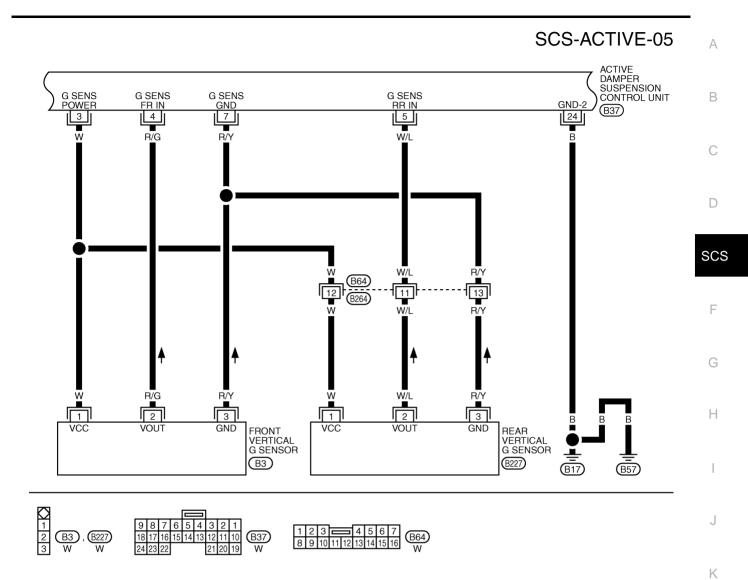


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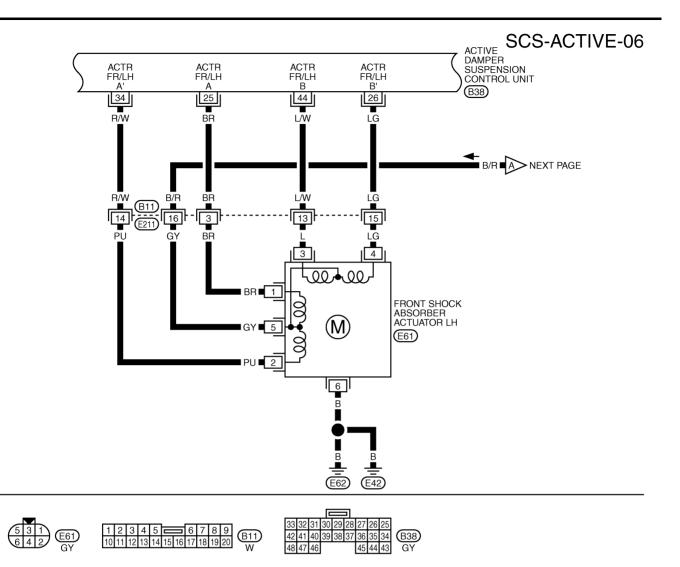




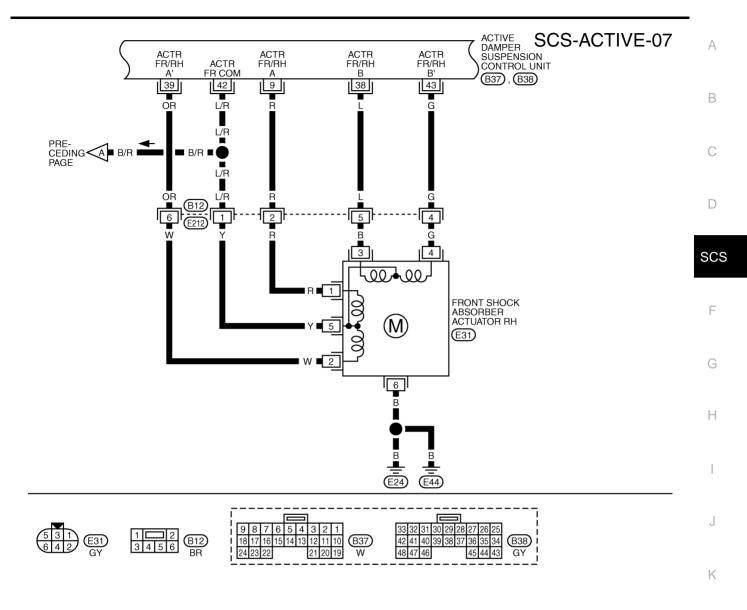
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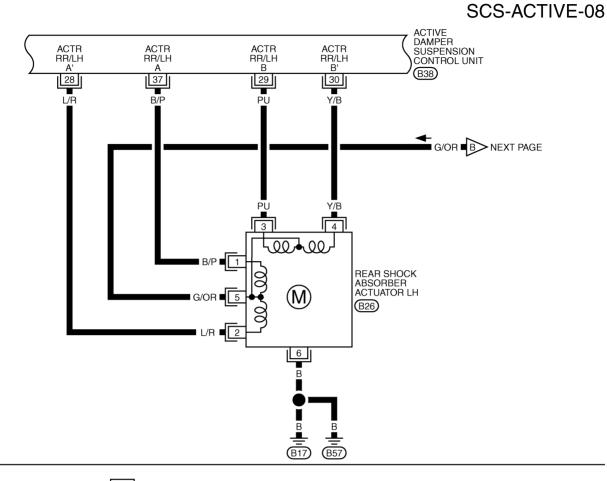


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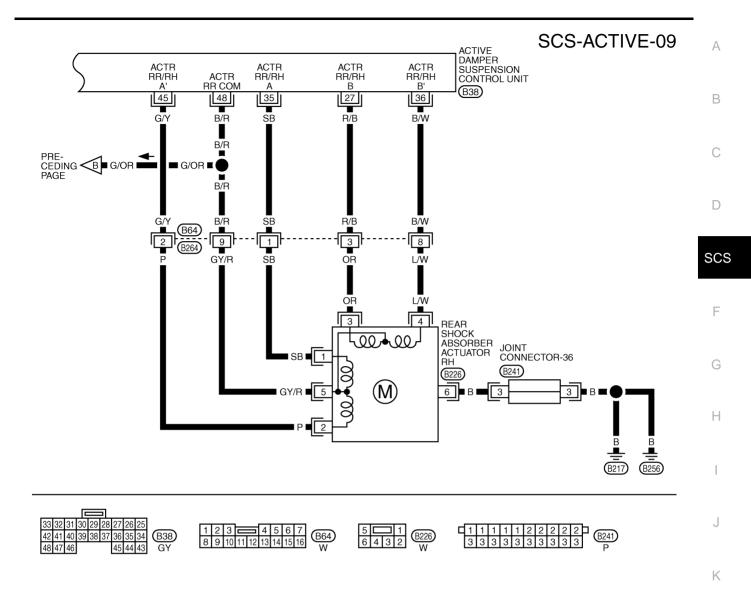
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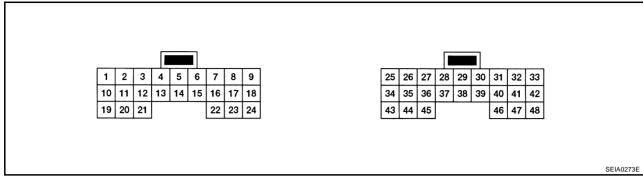


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## CONTROL UNIT INPUT/OUTPUT SIGNAL STANDARD

**Reference Values** 



Terminal number		Inspection location	Poforono	Reference value	
+	-				
1,2		Steering angle sensor	When steering wheel turned slowly	Repeats Approx. 0 - 5V	
3	_	G sensor power supply	Approx. 5V		
4,6	_	G sensor	When stopped	Approx. 5V	
7	_	G sensor ground			
8,23,24		Ground	_		
9,25,26 27,28,29 30,34,35 36,37,38 39,43,44 45	Ground	Shock absorber actuator	_		
10,19,31 32		Power supply	Ignition switch is ON	Battery voltage	
11		Stop lamp switch	When brake pedal not depressed	Approx. 0V	
11		Stop lamp switch	When brake pedal depressed	Battery voltage	
12	_	ECM			
13		Select switch	Sport	Approx. 5V	
15		Select Switch	Auto	Approx. 0V	
14,15	-	CONSULT-II			
16		Indicator lamp (SPORT)	Sport	Approx. 0V	
10			Auto	Battery voltage	
20		Steering angle sensor	Neutral position	Approx. 5V	
21	Ground	EPS solenoid valve	0 km/h (0 MPH) (engine idling)	Approx. 1.05 A	
۷ ک			100 km/h (62MPH)	Approx. 0.7 A	
22		Vehicle speed sensor			
42,48		Actuator	Battery v	voltage	

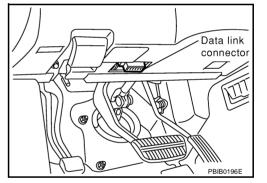
# **CONSULT-II Inspection Procedure**

The troubleshooting system provides four functional modes - self diagnosis, data monitor, active test and control unit part number display modes.

Mode type	Description	Mode selection	Display representation	
SELF-DIAG RESULTS	Self-diagnosis			
	• Helps locate main trouble cause according to a self-diagnostic result.			
DATA MONITOR	• Provides active damper suspension control unit input and output monitoring and print-out function (observation and recording).	The desired functional mode can easily be	The desired functional mode can easily be	
ACTIVE TEST	• Used to precisely locate the main cause for trouble according to the self-diagnostic result obtained in the monitor mode.	selected by touching key on CONSULT-II.	shown on the CONSULT- II display.	ļ
	• Provides operational checks of indicator light and actuator circuits.			
ECU PART NUMBER	Active damper control unit part numbers are shown on the CONSULT-II display.			

## SELF-DIAGNOSIS PROCEDURE

- 1. Connect CONSULT-II to data link connector and start the engine.
- 2. Touch "START", "ACT D/SUS" and "SELF-DIAG RESULTS".
- a. When a malfunction item is displayed, record the item.
- b. Touch "ERASE".
- A self-diagnostic result is displayed again. If "NO SELF DIAGNOSTIC FAILURE INDICATED" is displayed, check the item first shown on the display.



## **Items Shown on Display**

Malfunctioning system or circuit	Detecting conditions	
VEHICLE SPEED SEN	• Input signal does not change for some length of time while driving.	•
VEHICLE SPEED SEN	<ul> <li>Input signal changes abruptly while driving.</li> </ul>	
VERTI G SENSOR F		
VERTI G SENSOR R/R	• Voltage is greater than or less than the standard value.	
VERTI G SENSOR R/L		
STEERING ANGLE SEN [ANG SIGNAL] (.a)	Input signal does not change for some length of time while driving at speeds greater than 60 km/h (37 MPH).	
STEERING ANGLE SEN	• Neutral ("ON") signal is not entered at all while driving a distance of more than 10 km (6 miles).	
[NEUT SIGNAL] (.b)	• Neutral ("ON") signal is not entered at all when steering wheel is turned at least 360°.	
	• Neutral ("ON") signal is entered when steering wheel is turned at least 50°.	

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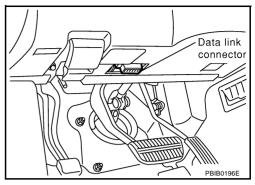
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#### DATA MONITOR PROCEDURE

- 1. Connect CONSULT-II to data link connector, then start the engine.
- 2. Touch "START", "ACT D/SUS" and "DATA MONITOR".
- 3. Select the signal to be monitored.
- a. When "ALL SIGNALS" is selected, touch "START".
- b. When "SELECTION FROM MENU" is to be selected, touch "SETTING". "MONITOR ITEM MENU" will then be indicated on the display. Touch the item to be monitored, then "ENTER" and "START".
- c. Print out the data if necessary.

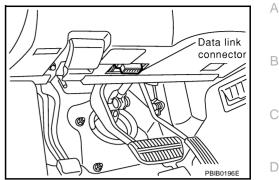
#### DATA MONITOR MODE



		Data item selection			
Monitored item	Display	Main item	Item menu selection	Remarks	
Vehicle speed sensor	VHCL SPEED SE [km/h] or [mph]	×	×	_	
Vertical G sensor front	VERTI G SE F [G]	×	×	_	
Vertical G sensor rear right side	VERTI G SE RR [G]	×	×	—	
Vertical G sensor rear left side	VERTI G SE RL [G]	×	×	—	
Steering angle sensor (steering angle signal)	STEERING ANG [°]	×	×	When the battery is disconnected and then reconnected, an abnormal value is displayed until the straight ahead position (0°) is set during driving.	
Active damper select switch	SELECT SWITCH [AUTO- SPORT]	×	×	_	
Stop lamp switch	STOP LAMP SW [ON-OFF]	×	×		
Steering angle sensor (steering neutral signal)	NEUTRAL SIG [ON-OFF]	×	×	_	
Damper motor front right	DAMP MTR F/R [Step]	×	×		
Damper motor front left	DAMP MTR F/L [Step]	×	×		
Damper motor rear right	DAMP MTR R/R [Step]	×	×		
Damper motor rear left	DAMP MTR R/L [Step]	×	×		
Power steering solenoid valve	POWER STR SOL [A]	×	×	EPS solenoid control current flow from control unit	
Active damper indicator lamp (SPORT)	INDICATOR [ON-OFF]	×	×	_	
Voltage	VOLTAGE [V]	_	×	Voltage measured by the voltage probe	
Pulse	■ PULSE [msec] or [Hz] or [%]		×	Pulse width, frequency or duty cycle measured by the pulse probe. Only "#" is displayed if item is unable to be measured. Figures with "#" s are temporary ones. They are the same figures as an actual piece and data which was just previously measured.	

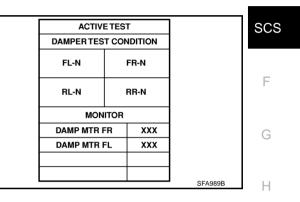
#### ACTIVE TEST PROCEDURE

- 1. Connect the CONSULT-II to data link connector, then start the engine.
- 2. Touch "START", "ACT D/SUS" and "ACTIVE TEST".
- 3. Touch "INDICATOR" or "DAMPER".



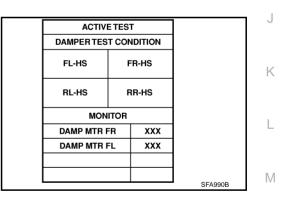
#### (A) When "INDICATOR" is selected

- 1. Touch "MAIN SIGNAL", then "START".
- When "OFF" is touched, indicator lamp goes out regardless of select switch positions. Monitor indicator will then be turned "OFF"
- 3. When "ON" is touched, indicator lamp comes on regardless of select switch positions. Monitor indicator will then be turned "ON".

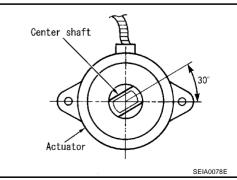


#### (B) When "DAMPER" is selected

- 1. Touch "SELECTION FROM MENU".
- Select and touch "DAMP MTR F/R" or "DAMP MTR F/L", and "DAMP MTR R/R" or "DAMP MTR R/L", as required.
- 3. Touch "ENTER", then "START".
- 4. "4 Step" for front damper motors and "4 step" for rear damper motor will be then shown on the display.
- 5. Touch "CONDITION CHANGE", "FL-HS, FR-HS, RL-HS, RR-HS" and "START".
- 6. "80 step" for front damper motors and "80 step" for rear damper motor will be then shown on the display.
- 7. Print out data as required.



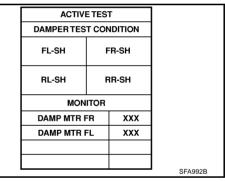
8. The actuator center shaft becomes as shown in the figure.

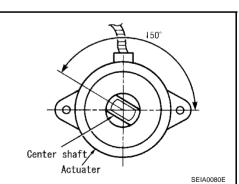


- 9. Touch "CONDITION CHANGE" FL-SS, FR-SS, RL-SS, RR-SS" and "START".
- 10. "0 step" for front damper motors and "0 step" for rear damper motor will be then shown on the display.
- 11. Print out data as required.

 			•
ACTIVE			
DAMPERTEST	r CON	DITION	
FL-SS	F	R-SS	
RL-SS	F	R-SS	
MONI	TOR		
DAMP MTR F	R	ХХХ	
DAMP MTR F	L	ХХХ	
			SFA991B

Center shaft





#### 12. The actuator center shaft becomes as shown in the figure.

- 13. Touch "CONDITION CHANGE" "FL-SH, FR-SH, RL-SH, RR-SH" and "START".
- 14. "- 60 step" for front damper motors and "- 60 step" for rear damper motor will be then shown on the display.
- 15. Print out data as required.
- 16. The actuator center shaft becomes as shown in the figure.

#### ECU (Active Damper Suspension Control Unit) Part Number Mode

Ignore the ECU part number displayed in the ECU PART NUMBER MODE. Refer to parts catalog to order the ECU.

## Self-Diagnosis FUNCTION

The self-diagnosis system can be used without using CONSULT-II. With this system, both self-diagnostic history and fail-safe history are indicated by the SPORT indicator lamp.

#### SELF-DIAGNOSTICS PROCEDURE

- 1. Turn ignition switch to "OFF".
- 2. Start the engine.
- 3. Quickly switch the active damper suspension select switch from "SPORT" to "AUTO", and vice versa, at least 5 times within 10 seconds immediately after the engine has started.
  - 2 or 3 seconds following the above switch operation, the indicator lamp will come on. This is not the indication of self-diagnosis.
- 4. Perform the following procedures to enter the corresponding signals.
  - Turn steering wheel 180° in either direction from neutral.
    - Depress brake pedal.
    - Release brake pedal.
    - Move the vehicle at least 5 m (16 ft) forward.

#### HOW TO READ SELF-DIAGNOSTIC RESULTS

#### (Malfunction codes)

Following the steps listed under the "Self-diagnostic procedure" above, a malfunctioning area or malfunctioning areas, if any, are indicated by a flashing SPORT indicator lamp located in the meter cluster.

The indicator lamp flashes to show malfunctioning areas corresponding with No. 11 through 14, then No. 21, 23 and 24, in that order. 2 seconds after all items are indicated, the indicator lamp repeats the flash sequence for all items again.

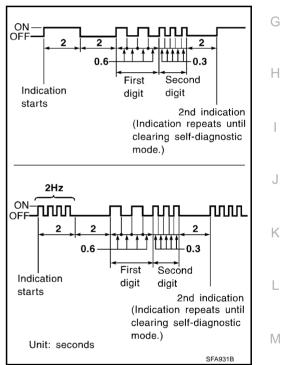
 When all items are in good order, the indicator lamp flashes at a cycle of 1/4 Hz [ON (2 seconds) and OFF (2 seconds)].

#### Display mode:

#### First digit "ON" (0.6 seconds) Second digit ON (0.3 seconds)

- The upper part of the figure at left shows an example of a malfunctioning area corresponding with No. 23.
- The lower part of the figure at left shows an example of a malfunctioning area (No. 23) which previously fell under the fail-safe history data and is still stored in the current fail-safe data history.

After repairing the malfunctioning area(s), erase the self-diagnostic data stored in memory.



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#### MALFUNCTION CODE/SYMPTOM CHART

Code No.	Diagnostic item
11	Vehicle speed sensor
12	Steering angle sensor
13	Steering angle (neutral) sensor
14	Stop lamp switch
22	Vertical G sensor (front)
23	Vertical G sensor (rear)
31	Engine speed signal

## HOW TO ERASE SELF-DIAGNOSTIC RESULTS

(Malfunction codes)

#### **Disconnecting the Self-Diagnostic Function**

Disconnect the self-diagnostic function using one of the following three methods:

- Turn the ignition switch to "OFF".
- Drive the vehicle at speeds greater than 30 km/h (19 MPH).
- Connect CONSULT-II.

#### **Clearing the Self-Diagnostic Memory**

Clear self-diagnostic data and fail-safe data stored in memory as follows:

• While self-diagnosis is being performed, depress the brake pedal at least 5 times and shift the select switch position at least 5 times. Pedal depression and switch shifting must be done within 10 seconds during self-diagnosis.

# TROUBLE DIAGNOSIS FOR SELF-DIAGNOSTIC ITEMS

	DIAGNOSIS FO	R SELF-DIAGNOSTIC IT	<b>TEMS</b> PFP:00000
	1: Vehicle Spee	d Sensor	EES000ES
	NPUT SIGNAL		
	to <u>EC-99, "ECM INSPI</u>		
Inspection res OK >> G		LCHON TABLE .	
2. снеск о		र	
Inspection res			
	epair or replace speed epair or replace combir	sensor or vehicle speed sensor- nation meter circuit.	-to-control unit harness.
	<b>2: Steering Ang</b>		EES000ET
		at least 90° to the right (or the	
	voltage between control	ol unit connector terminals 1(L/ (G/R) and body ground.	Active damper suspension
	), 2 (Y/B) - Body grour R) - Body ground	nd :Varies 0 - approx. 5V :Approx. 5V (Neutral position)	
Inspection res OK >> R	sults OK? eplace control unit. O TO 2.		SEIA0274E
NG >> 0			
•	STEERING ANGLE SE	NSOR OUTPUT SIGNAL	
2. снеск		t least 90° to left or right from ne	utral.
<ul> <li>2. CHECK \$</li> <li>Slowly tu</li> <li>Measure</li> </ul>	rn the steering wheel at voltage between steeri		
<ul> <li>2. CHECK \$</li> <li>Slowly tu</li> <li>Measure minals 6</li> <li>6 (L/R Body</li> </ul>	rn the steering wheel at voltage between steeri (L/R), 7 (Y/B)and body ), 7 (Y/B) - : Repo ground	t least 90° to left or right from ne ing angle sensor connector ter-	
<ul> <li>2. CHECK \$</li> <li>Slowly tu</li> <li>Measure minals 6</li> <li>6 (L/R Body</li> </ul>	rn the steering wheel at voltage between steeri (L/R), 7 (Y/B)and body ), 7 (Y/B) - : Repo ground • Body : Neut	t least 90° to left or right from ne ing angle sensor connector ter- ground, 8 (G) and body ground.	Convect H.S.
<ul> <li>2. CHECK S</li> <li>Slowly tu</li> <li>Measure minals 6</li> <li>6 (L/R Body 8 (G)</li> </ul>	rn the steering wheel at voltage between steeri (L/R), 7 (Y/B)and body ), 7 (Y/B) - : Repo ground · Body : Neut d	t least 90° to left or right from nering angle sensor connector ter- ground, 8 (G) and body ground. eats approx. 0 - 5V	Convect E Steering wheel angle sensor M52 V

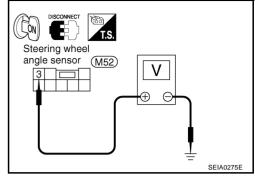
# 3. CHECK STEERING ANGLE SENSOR POWER SUPPLY CIRCUIT

• Measure voltage between steering angle sensor connector terminals 3 (SB) and body ground.

3 (SB) - Body ground : Battery voltage

Inspection results OK?

- OK >> GO TO 4.
- NG >> Repair or replace power circuit or steering angle sensor.



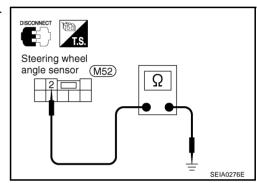
## 4. CHECK STEERING ANGLE SENSOR GROUND CIRCUIT

 Check continuity between steering angle sensor connector terminal 2 (B) and body ground.

#### 2 (B) - Body ground : Continuity should exist

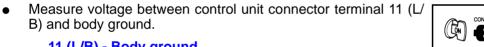
Inspection results OK?

- OK >> Replace steering angle sensor.
- NG >> Repair or replace ground harness.



## **Inspection 3: Stop Lamp Switch**

#### 1. CHECK CONTROL UNIT INPUT SIGNAL

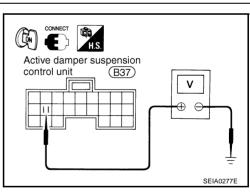


11 (L/B) - Body ground

Brake pedal depressed Brake pedal released : Battery voltage : Approx. 0V

#### Inspection results OK?

OK >> GO TO 2. NG >> Repair or replace control unit-to-stop lamp switch harness.



## 2. CHECK STOP LAMP

• Does the stop lamp light up when brake pedal is depressed?

Inspection results OK?

OK >> Repair or replace control unit-to-body ground harness or control unit.

NG >> Repair or replace battery-to-stop lamp switch harness or stop lamp switch.

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## **Inspection 4: Vertical G sensor**

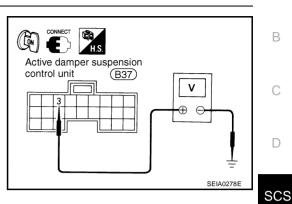
1. CHECK CONTROL UNIT VERTICAL G SENSOR POWER SUPPLY CIRCUIT

 Measure voltage between control unit connector terminal 3 (W) and body ground.

3 (W)- Body ground : Approx. 5V

#### Inspection results OK?

- OK >> GO TO 2.
- NG >> Replace control unit.



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# 2. CHECK CONTROL UNIT VERTICAL G SENSOR GROUND CIRCUIT

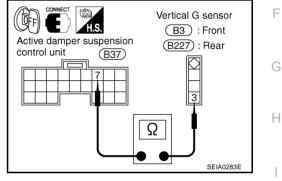
• Check continuity between control unit connector terminal 7 (R/Y) and vertical G sensor connector terminal 3 (R/Y).

7 (R/Y)- 3 (R/Y) : Continuity should exist.

Inspection results OK?

OK >> GO TO 2.

NG >> Check harness open or short between control unit and vertical G sensor.



# 3. CHECK CONTROL UNIT VERTICAL G SENSOR INPUT SIGNAL

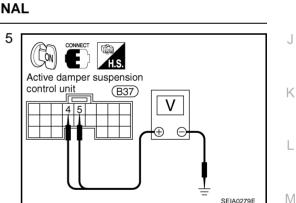
• Measure voltage between control unit connector terminals 4, 5 and body ground.

4 (R/G), 5 (W/L)- Body ground : Approx. 5V

#### Inspection results OK?

OK >> Replace control unit.

NG >> GO TO 4.



## 4. CHECK CONTROL UNIT VERTICAL G SENSOR INPUT SIGNAL CIRCUIT

Check continuity between control unit connector terminals 4 (R/G),6 (W/L) and body ground.

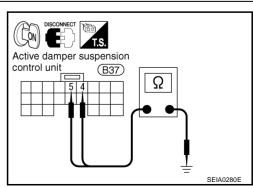
#### 4 (R/G), 5 (W/L) - Body ground:

#### **Continuity should not exist**

#### Inspection results OK?

OK >> GO TO 5.

NG >> Repair or replace control unit-to-vertical G sensor harness.



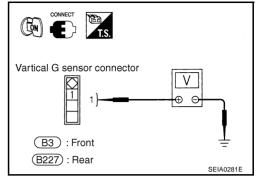
# 5. CHECK VERTICAL G SENSOR POWER SUPPLY CIRCUIT

 Measure voltage between vertical G sensor connector terminal 1 (W) and body ground.

#### 1 (W) - Body ground : Approx. 5V

Inspection results OK?

- OK >> GO TO 6.
- NG >> Repair or replace control unit-to-vertical G sensor harness.



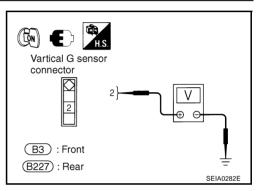
## 6. CHECK VERTICAL G SENSOR OUTPUT SIGNAL

 Measure voltage between vertical G sensor connector terminal 2 (B3:R/G or B227:W/L) and body ground

2 (B3:R/G or B227:W/L)- Body ground : Approx. 5V

#### Inspection results OK?

- OK >> Repair or replace control unit-to-vertical G sensor harness.
- NG >> Replace vertical G sensor.



#### NOTE:

The front vertical G sensor is installed on the rear of the inner pillar and the rear vertical G sensor is located on the rear of the outer wheelhouse. To check each vertical G sensor output signal, remove the vertical G sensor, set it vertical, then measure voltage between terminals.

Be careful not to drop or bump the vertical G sensor as it is easy to break. If dropped or bumped, replace with a new one.

# TROUBLE DIAGNOSIS FOR SYMPTOMS

TROUBLE DIAGNOSIS FOR SYMPTOMS	2:00007
nspection 5: Hard or Soft Feel 1. self-diagnostics inspection	EES000EW
Disconnect control unit connector and shock absorber actuator connector, then re-connect them.	
<ul> <li>Perform self-diagnosis to check that proper test results are obtained.</li> <li><u>nspection results OK?</u></li> <li>OK &gt;&gt; GO TO 2.</li> <li>NG &gt;&gt; Check and repair detected area.</li> </ul>	
2. CHECK SHOCK ABSORBER ACTUATOR OPERATION	
<ul> <li>Set the diagnostic system in the self-diagnosis mode.</li> <li>Depress parking brake pedal.</li> <li>Set select switch to "AUTO", then move vehicle body up and down to check that dampening force of shack shacks and a brack shack a select switch to "AUTO".</li> </ul>	each
<ul> <li>shock absorber is high. Brake pedal should be released during tests.</li> <li>Set select lever to "SPORT", then move vehicle body up and down to check that dampening force or shock absorber is high.</li> </ul>	each
Inspection results OK? OK >> GO TO 11. NG >> GO TO 3.	
3. CHECK SHOCK ABSORBER ACTUATOR	
	<u>B26</u> ) 5
Inspection results OK? OK >> GO TO 4. NG >> Replace actuator.	 A0284E
4. CHECK CONTROL UNIT OUTPUT SIGNAL	
<ul> <li>Measure voltage between control unit connector terminals 42 (L/R), 48 (B/R) and body ground.</li> <li>42 (L/R),48 (B/R) - Body ground : Battery voltage</li> <li>Inspection results OK?</li> <li>OK &gt;&gt; GO TO 6.</li> <li>NG &gt;&gt; GO TO 5.</li> </ul>	

## 5. CHECK HARNESS CONNECTOR

• Check continuity between control unit and shock absorber actuator terminals.

Inspection results OK?

OK >> Replace control unit

NG >> Replace harness connector.

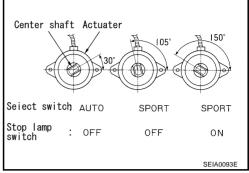
# 6. CHECK SHOCK ABSORBER ACTUATOR OPERATION

- Remove actuator from strut.
- Set diagnostic system in the self-diagnostic mode.
- Check that actuator operates as shown in the figure when select switch is set to "AUTO" or "SPORT", and brake pedal is depressed or released.

Inspection results OK?

OK >> GO TO 8.

NG >> GO TO 7.



# 7. CHECK HARNESS CONNECTOR

Check continuity between control unit and shock absorber actuator terminals.

Inspection results OK?

- OK >> Replace control unit.
- NG >> Repair or replace harness or connector.

## 8. CHECK SHOCK ABSORBER CONTROL ROD

• Pinch control rod with your fingers, then turn it 2 or 3 rotations to check that it rotates smoothly without free play.

Inspection results OK?

- OK >> GO TO 9.
- NG >> Replace shock absorber.

## 9. SELF-DIAGNOSTICS1

- Install actuator and perform self-diagnosis.
- Turn ignition switch to "ON" to initialize actuator positioning, then re-perform self-diagnosis to check actuator operation.

#### Inspection results OK?

OK >> INSPECTION END.

NG >> GO TO 10.

## 10. SELF-DIAGNOSTICS 2

- Replace with a new actuator, then perform self-diagnosis.
- Turn ignition switch to "ON" to initialize actuator positioning, then re-perform self-diagnosis to check actuator operation.

Inspection results OK?

- OK >> Replace actuator
- NG >> Replace shock absorber.

# 11. CHECK RIDE COMFORT

• Check for improved riding comfort.

#### Inspection results OK?

- OK >> INSPECTION END.
- NG >> Replace shock absorber.