

## COMPONENT TESTS

### Combination Switch Inspection (Steps 1 - 2)

#### Combination Switch Inspection

AKS00APB

##### 1. SYSTEM CHECK

1. Referring to table below, check which system malfunctioning switch belongs to.

System 1	System 2	System 3	System 4	System 5
—	FR WASHER	FR WIPER LO	TURN LH	TURN RH
FR WIPER HI	—	FR WIPER INT	PASSING	HEAD LAMP 1
INT VOLUME 1	RR WASHER	—	HEAD LAMP 2	HI BEAM
RR WIPER INT	INT VOLUME 3	—	—	LIGHT SW 1ST
INT VOLUME 2	RR WIPER ON	—	—	—

>> Check the system to which malfunctioning switch belongs, and GO TO 2.

##### 2. SYSTEM CHECK

Ⓜ With CONSULT-II

###### CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

1. Connect CONSULT-II, and select "COMB SW" on "SELECT TEST ITEM" screen.
2. Select "DATA MONITOR".
3. Select "START", and confirm that other switches in malfunctioning system operate normally.

Example: When the HI BEAM switch is malfunctioning, confirm that "TURN RH", "HEAD LAMP 1" and "LIGHT SW 1 ST" in System 5, to which the HI BEAM switch belongs, turn ON-OFF normally.

DATA MONITOR	
MONITOR	
TURN SIGNAL R	OFF
TURN SIGNAL L	OFF
HIBEAM SW	OFF
HEAD LAMP SW1	OFF
HEAD LAMP SW2	OFF
LIGHT SW 1ST	OFF
PASSING SW	OFF
AUTO LIGHT SW	OFF
FR FOG SW	OFF
	Page Down
	RECORD
MODE	BACK
LIGHT	COPY

SKU7075E

Ⓧ Without CONSULT-II

Operating combination switch, and confirm that other switches in malfunctioning system operate normally.

Example: When the HI BEAM switch is malfunctioning, confirm that "TURN RH", "HEAD LAMP 1" and "LIGHT SW 1 ST" in System 5, to which HI BEAM switch belongs, turn ON-OFF normally.

###### Check results

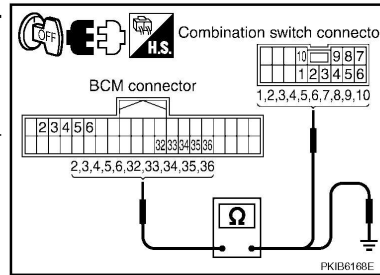
- Other switches in malfunctioning system operate normally.>>Replace lighting switch or wiper switch.
- Other switches in malfunctioning system do not operate normally.>>GO TO 3.

### Combination Switch Inspection (Step 3)

### 3. HARNESS INSPECTION

1. Turn ignition switch OFF.
2. Disconnect BCM and combination switch connectors.
3. Check for continuity between BCM harness connector of the suspect system and the corresponding combination switch connector terminals.

Suspect system	Terminal				Continuity	
	BCM		Combination switch			
	Connector	Terminal (Wire color)	Connector	Terminal (Wire color)		
1	M90	Input 1	6 (YG)	M29	6 (YG)	Yes
		Output 1	36 (W/R)		1 (W/R)	
2		Input 2	5 (Y/R)		7 (Y/R)	
		Output 2	35 (W/G)		2 (W/G)	
3		Input 3	4 (PU/W)		10 (PU/W)	
		Output 3	34 (W/L)		3 (W/L)	
4		Input 4	3 (L/W)		9 (L/W)	
		Output 4	33 (G)		4 (G)	
5		Input 5	2 (GY)		8 (GY)	
		Output 5	32 (G/B)		5 (G/B)	



4. Check for continuity between each terminal of BCM harness connector in suspect malfunctioning system and ground.

Suspect system	Terminal			Continuity
	BCM		Ground	
	Connector	Terminal (Wire color)		
1	M90	Input 1	6 (YG)	No
		Output 1	36 (W/R)	
2		Input 2	5 (Y/R)	
		Output 2	35 (W/G)	
3		Input 3	4 (PU/W)	
		Output 3	34 (W/L)	
4		Input 4	3 (L/W)	
		Output 4	33 (G)	
5		Input 5	2 (GY)	
		Output 5	32 (G/B)	

OK or NG

OK >> GO TO 4.

NG >> Check harness between BCM and combination switch for open or short circuit.

### Combination Switch Inspection (Steps 4 - 5)

## 4. BCM OUTPUT TERMINAL INSPECTION

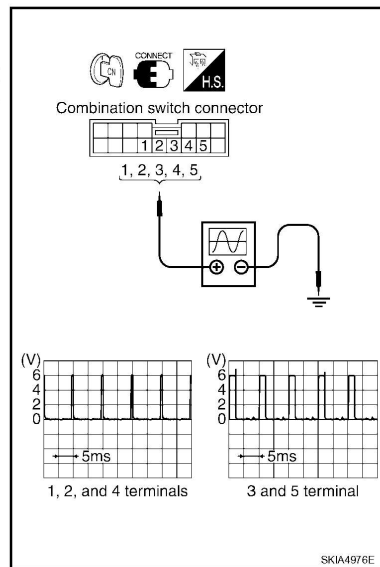
1. Turn lighting switch and wiper switch OFF.
2. Set wiper dial position 4.
3. Connect BCM and combination switch connectors, and check BCM output terminal voltage waveform of suspect malfunctioning system.

Suspect system	Terminal		
	Combination switch (+)		(-)
	Connector	Terminal (Wire color)	
1	M29	1 (W/R)	Ground
2		2 (W/G)	
3		3 (W/L)	
4		4 (G)	
5		5 (G/B)	

OK or NG

OK >> Open circuit in combination switch, GO TO 5.

NG >> Replace BCM. Refer to "[Removal and Installation of BCM](#)".



## 5. COMBINATION SWITCH INSPECTION

Referring to table below, perform combination switch inspection.

Procedure									
1	2		3	4		5	6		7
Replace lighting switch	Confirm check results	OK	INSPECTION END	Confirm check results	OK	INSPECTION END	Confirm check results	OK	INSPECTION END
		NG	Replace wiper switch		NG	Replace switch base		NG	Confirm symptom again

>> INSPECTION END