SECTION LAN SYSTEM

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PRECAUTIONS

[CAN] PRECAUTIONS PFP:00001 A Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT **BELT PRE-TENSIONER**" NKS00345 The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along В with a front seat belt. helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front C air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual. WARNING: To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death . in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer. F Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section. F Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors. Precautions When Using CONSULT-II NKS00346 When connecting CONSULT-II to data link connector, connect them through CONSULT-II CONVERTER. Н **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. CHECK POINTS FOR USING CONSULT-II 1 Has CONSULT-II been used without connecting CONSULT-II CONVERTER on this vehicle? If YES, GO TO 2. If NO, GO TO 5. Is there any indication other than indications relating to CAN communication system in the self-diagnosis 2. results? LAN If YES, GO TO 3. If NO, GO TO 4. L 3. Based on self-diagnosis results unrelated to CAN communication, carry out the inspection. 4 Malfunctions may be detected in self-diagnosis depending on control units carrying out CAN communication. Therefore, erase the self-diagnosis results. Diagnose CAN communication system. Refer to LAN-5. "TROUBLE DIAGNOSES WORK FLOW" . Μ 5. **Precautions For Trouble Diagnosis** NKS00347 **CAN SYSTEM** Do not apply voltage of 7.0 V or higher to the measurement terminals. Use the tester with its open terminal voltage being 7.0 V or less. Be sure to turn ignition switch OFF and disconnect the battery cable from the negative terminal before checking the circuit.

Precautions For Harness Repair CAN SYSTEM

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• Solder the repaired parts, and wrap with tape. [Frays of twisted line must be within 110 mm (4.33 in).]



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OK: Soldered and wound with tape

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	[CAN]
ROUBLE DIAGNOSES WORK FLOW	PFP:00004
/hen Displaying CAN Communication System Errors HEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM	NKS00349
CAN communication line is open. (CAN-H, CAN-L, or both)	
CAN communication line is shorted. (Ground, between CAN lines, or other harnesses)	
The areas related to CAN communication of unit is malfunctioning.	
HEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM	1
to CAN communication of parts: When the units that perform CAN communication or the s to CAN communication are removed and installed, malfunction may be detected (or DTC o communication may be detected).	sensors related other than CAN
Fuse blown out (removed): CAN communication of the unit may be stopped at such time.	
Low voltage: If the voltage decreases because of battery discharge when IGN is ON, malfudetected by self-diagnosis according to the units.	unction may be

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TROUBLE DIAGNOSIS FLOW CHART

Depending on the control unit which performs CAN communication, "U1010" may be indicated as the result of self-diagnosis. Replace the control unit if "U1010" is indicated.



- Step 1: Refer to LAN-7, "SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)".
- Step 2: Refer to <u>LAN-8</u>, "ACQUISITION OF DATA BY CONSULT-II".
- Step 3: Refer to <u>LAN-9</u>, "HOW TO USE CHECK SHEET TABLE".
- Step 4: Refer to LAN-10, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced" .
- Step 5: Refer to <u>LAN-190</u>, "TROUBLE DIAGNOSIS FOR SYSTEM".

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Diagnosis Procedure SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)

Determine CAN system type from the equipment of the vehicle to select applicable check sheet.

(Example) Wagon/2WD/ Without Lane	VQ35DI departi	E/AT/VC ure warr	C/Withoning sys	out ICC tem/Wit	system/ hout Int	, elligent	Key system	В
CAN Communication U	Jnit							
Go to CAN system, when se	electing yo	our CAN s	system ty	pe from t	he follow	ing table.		C
Body type			Wa	gon				0
Axle		2WD			AWD		-	
Engine		VQ35DE		VQ	35DE/VK4	5DE	Check basic specifications of the vehicle.	_
Transmission			A	/Т				D
Brake control			V	DC DC				
ICC system			×			×	Select "×" if it is model with ICC system.	
Lane departure warning system			×			×	-> Select " × " if it is model with lane departure warning system.	E
Intelligent Key system		×	×		×	×	Select "×" if it is model with Intelligent Key system.	
CAN system type	1	2	3	4	5	6	- Which number is colocted when conjugation	
CAN system trouble diagnosis	XX:XX	XX:XX	88:88	XX:XX	XX:XX	XX:XX	from the top of the specification table?	
×: Applicable							The number is "CAN system type" of the applicable vehicle. In the case of this example: It corresponds to type 1.	F
							PKIC9648E	0

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ACQUISITION OF DATA BY CONSULT-II

Attach the data acquired by CONSULT-II on the check sheet determined according to CAN system type. (Transfer the data from the display screen of the vehicle to the CAN diagnosis monitor check sheet. For display control unit: Refer to <u>AV-83</u>, "CAN Communication Check" .)



HOW TO USE CHECK SHEET TABLE



- 1. Unit names displayed on CONSULT-II
- "No indication": Put a check mark to it if the unit name described in step 1 is not displayed on "SELECT SYSTEM" screen of CONSULT-II. (Unit communicating with CONSULT-II via CAN communication line) "-": Column not used (Unit communicating with CONSULT-II excluding CAN communication line)
- 3. "NG": Display "NG" when malfunction is detected in the initial diagnosis of the diagnosed unit. Replace the unit if "NG" is displayed.

"-": Column not used (Initial diagnosis is not performed.)

NOTE:

It is unnecessary to replace ABS actuator and electric unit (control unit) when "NG" on "INITIAL DIAG" of "ABS" is indicated at this stage. "NG" is indicated not only when malfunctioning ABS actuator and electric unit (control unit) but also other parts. See check sheet results for the system diagnosis.

- "UNKWN": Display "UNKWN" when the diagnosed unit does not transmit the data normally. Put a check mark to it if "UNKWN" is displayed on CONSULT-II.
 "-": Column not used (Transmit diagnosis is not performed.)
- 5. "UNKWN": Display "UNKWN" when the diagnosed unit does not receive the data normally. Put a check mark to it if "UNKWN" is displayed on CONSULT-II.

"-": Column not used (It is not necessary for CAN communication trouble diagnosis.)

NOTE:

CAN communication diagnosis checks if CAN communication works normally. (Contents of data are not diagnosed.)

- When the initial conditions are reproduced, refer to <u>LAN-10</u>, "Example of Filling in Check Sheet When Initial Conditions Are Reproduced".
- When the initial conditions are not reproduced, refer to <u>LAN-14</u>, "Example of Filling in Check Sheet When <u>Initial Conditions Are Not Reproduced</u>".

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Example of Filling in Check Sheet When Initial Conditions Are Reproduced



1. Put a check mark to "No indication" if some of unit names listed on the column of diagnosis system selection screen of a check sheet table are not displayed on "SELECT SYSTEM" screen attached to the check sheet.

NOTE:

Put a check mark to "No indication" of METER A/C AMP, AUTO DRIVE POS. and IPDM E/R because METER A/C AMP, AUTO DRIVE POS. and IPDM E/R is not displayed on "SELECT SYSTEM" screen.

2. Confirm the unit name that "UNKWN" is displayed from the copy of "CAN DIAG SUPPORT MNTR" screen of "ENGINE" attached to the check sheet, and then put a check mark to the check sheet table.

NOTE:

In "CAN DIAG SUPPORT MNTR" screen, "UNKWN" is displayed on "VDC/TCS/ABS", "METER/M&A" and "IPDM E/R". Put a check mark to the check sheet table.

3. Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "A/T" as well as "ENGINE". And then, put a check mark to the check sheet table.

NOTE:

In "CAN DIAG SUPPORT MNTR" screen, "UNKWN" is displayed on "VDC/TCS/ABS", "METER/M&A", "ICC/e4WD" and "AWD/4WD". But, put a check mark to "VDC/TCS/ABS" and "METER/M&A" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.



- 4. For display control unit, put a check mark in the following procedure.
- a. Copy to "CAN DIAG SUPPORT MONITOR Check Sheet" (B) from the display screen (A). Refer to Refer to Service Manual.
- Read "CAN DIAG SUPPORT MONITOR Check Sheet" (B) with "Display control unit Translation Sheet" (C).
- c. Check "UNKWN" with a check mark. Put a check mark to the check sheet table. **NOTE:**

In "CAN DIAG SUPPORT MONITOR Check Sheet" (B), check marks are put to "CAN5" and "CAN7". In the column of the check sheet table indication in "Display control unit Translation Sheet" (C), "METER/M&A" and "IPDM E/R" is listed for "CAN5" and "CAN7". Therefore, put a check mark to "METER/M&A" and "IPDM E/R".

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- 5. Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "BCM" and "ABS" as well as "ENGINE". And then, put a check mark to the check sheet table. **NOTE:**
 - For "BCM", "UNKWN" is displayed on "IPDM E/R", "METER/M&A" and "I-KEY". But, put a check mark to "IPDM E/R" and "METER/M&A" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.
 - For "ABS", "UNKWN" is displayed on "ECM", "TCM", "METER/M&A", "STRG" and "ICC". But, put a check mark to "ECM", "TCM" and "STRG" because "UNKWN" is listed on the column of reception diagnosis of the check sheet table.



NOTE:

There is a case that some of "CAN DIAG SUPPORT MNTR" and "SELF-DIAG RESULTS" are not needed for diagnosis. In the case, "UNKWN" and "CAN COMM CIRCUIT [U1000]" in "Check sheet results (example)" change to "--". Then, ignore check marks on the Check sheet table.

- 6. Perform system diagnosis for possible causes identified.
- 7. Perform diagnosis again after inspection and repair. Make sure that repair is completely performed, and then end the procedure.

Start CAN system trouble diagnosis if this procedure can be confirmed. Refer to <u>LAN-32</u>, "CAN Communication Unit".

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Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced



1. See "SELF-DIAG RESULTS" of all units attached to the check sheet. If "CAN COMM CIRCUIT [U1000]" or "CAN COMM CIRCUIT [U1001]" is displayed, put a check mark to the applicable column of self-diagnostic results of the check sheet table.

NOTE:

- For "ENGINE", "CAN COMM CIRCUIT [U1001]" are displayed. Put a check mark to it.
- For "A/T", "CAN COMM CIRCUIT" are displayed. Put a check mark to it.
- For "BCM", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "METER A/C AMP", "CAN COMM CIRCUIT [U1000]" are displayed. Put a check mark to it.
- For "ABS", "CAN COMM CIRCUIT [U1000]" are displayed. Put a check mark to it.
- For "AUTO DRIVE POS.", "CAN COMM CIRCUIT [U1000]" are displayed. Put a check mark to it.
- For "IPDM E/R", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.



NOTE:

There is a case that some of "CAN DIAG SUPPORT MNTR" and "SELF-DIAG RESULTS" are not needed for diagnosis. In the case, "UNKWN" and "CAN COMM CIRCUIT [U1000]" in "Check sheet results (example)" change to "–". Then, ignore check marks on the Check sheet table.

2. For the selected possible causes, it is expected that malfunctions have been found in the past.

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CAN Diagnostic Support Monitor DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ECM

NKS0034B

[CAN]

(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR
	ENGINE	ENGINE
	PRSNT PAST	PRSNT PAST
	TRANSMIT DIAG OK OK	METER/M&A OK OK
	VDC/TCS/ABS OK OK	BCM/SEC OK OK
	METER/M&A OK OK	JOI
	BCM/SEC OK OK	HVAC
	201	TCM OK OK
	HVAC	EPS
	TCM OK OK	IPDM E/R OK OK
	EPS	e4WD
	IPDM E/R OK OK	AWD/4WD OK OK
	PRINT Scroll Down	PRINT Scroll Up
	MODE BACK LIGHT COPY	MODE BACK LIGHT COPY PKIC3562E

"SELECT SYS- TEM" screen	"CAN DIAG SUP- PORT MNTR" Description screen		Present	Past
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from unified meter and A/ C amp.	OK/UNKWN/-	
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
ENGINE	ICC	Make sure of normal reception from ICC unit.	OK/UNKWN/-	OK/0/1 – 39/—
	HVAC	HVAC is not diagnosed.	-	
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN/-	
	EPS	EPS is not diagnosed.	_	
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/-	
	e4WD	e4WD is not diagnosed.	_	
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN/-	

Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- —: Undiagnosed

[CAN]

DESCRIPTION C	OF "CAN DIAG SUP	PORT MNTR" SCREEN	(Example)		ITR
				PRSN' PRSN' INITIAL DIAG OK TRANSMIT DIAG OK ECM OK VDC/TCS/ABS OK METER/M&A OK CC/e4WD OK AWD/4WD UNKW PRINT MODE BACK LIGHT CC	Г N DPY РКІА9892Е
"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Descrip	tion		Present
	INITIAL DIAG	Make sure that microcomputer in E	CU works no	ormally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.			OK/UNKWN
	ECM	Make sure of normal reception from	n ECM.		OK/UNKWN
A/T	VDC/TCS/ABS	Make sure of normal reception from (control unit).	n ABS actuat	or and electric unit	OK/UNKWN
	METER/M&A	Make sure of normal reception fror	n unified met	ter and A/C amp.	OK/UNKWN

Make sure of normal reception from ICC unit.

Make sure of normal reception from AWD control unit.

Display Results (Present)

ICC/e4WD

AWD/4WD

- OK: Normal
- NG: Malfunction

• UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

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OK/UNKWN

OK/UNKWN

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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR AWD CONTROL UNIT

ample)	CAN D	IAG SU	PPORT	MNTR	
• •	ALL	MODE	AWD/4	WD	
			PR	SNT	
	INITIAL I	DIAG	С	ιK	
	TRANSM	/IT DIAG	С	к	
	VDC/TC	S/ABS	С	ĸ	
	ECM		С	ιK	
	TCM		С	к	
	METER/	M&A	С	к	
	PR	INT			
	MODE	BACK	LIGHT	COPY	PKIB5966E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
ALL MODE AWD/ 4WD	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	ТСМ	Make sure of normal reception from TCM. (Not available for CAN system diagnosis.)	OK
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN

Display Results (Present)

- OK: Normal
- NG: Malfunction
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ICC UNIT

(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG SUPPORT MNTR	A
	ICC	ICC	
	PRSNT	PRSNT	
	INITIAL DIAG OK	LANE KEEP UNKWN	
	TRANSMIT DIAG OK	ECM(1) OK	E
	ECM OK	ICC SENSOR OK	
	VDC/TCS/ABS OK	STRG UNKWN	
	TCM OK	METER/M&A(1) OK	
	METER/M&A UNKWN	ERROR(1) OK	
	LANE KEEP UNKWN	LANE DETECTOR UNKWN	(
	ECM(1) OK	TCM(1) UNKWN	
	ICC SENSOR OK	BCM/SEC UNKWN	
	PRINT Scroll Down	PRINT Scroll Up	
	MODE BACK LIGHT COPY	MODE BACK LIGHT COPY PKIB5985E	

"SELECT SYSTEM" screen	"CAN DIAG SUP- PORT MNTR" screen	Description	Present	E
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG	-
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN	- F
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN	G
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN	0
	METER/M&A	METER/M&A is not diagnosed.	UNKWN	
	LANE KEEP	LANE KEEP is not diagnosed.	UNKWN	Н
	ECM(I)	Make sure of normal reception from ECM (as a laser radar sensor). (Not available for CAN system diagnosis.)	OK/UNKWN	_
ICC	ICC SENSOR	Make sure of normal reception from ICC sensor.	OK/UNKWN	
	STRG	STRG is not diagnosed.	UNKWN	-
	METER/M&A(I)	Make sure of normal reception from combination meter (as a laser radar sensor). (Not available for CAN system diagnosis.)	OK/UNKWN	J
	ERROR(I)	Make sure that the initial diagnosis and transmit diagnosis of laser radar sensor work normally. (Not available for CAN system diagnosis.)	OK/UNKWN	LAN
	LANE DETECTOR	LANE DETECTOR is not diagnosed.	UNKWN	_
	TCM(I)	TCM(I) is not diagnosed.	UNKWN	L
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN	

Display Results (Present)

• OK: Normal

NG: Malfunction •

UNKWN: The diagnosed unit does not transmit or receive the applicable data normally. .

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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN [(Example FOR INTELLIGENT KEY UNIT

ample)	CAN	DIAG SU	PPORT M	NTR	
	1	INTELLIGENT KEY			
	PRSNT PAST				
	TRANSM	IT DIAG	ОК	ОК	
	ECM		OK	ОК	
	METER/N	/&A	OK	ОК	
	BCM/SEC		OK	OK	
	PRINT				
	MODE	BACK	LIGHT	COPY	SKIB2359E

"SELECT SYSTEM" screen	"CAN DIAG SUP- PORT MNTR" screen	Description	Present	Past
INTELLIGENT KEY	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN/-	OK/0/1 – 39/—
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	

Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- -: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- —: Undiagnosed

[CAN]

SKIB0593E

MODE BACK LIGHT COPY

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN (Example) CAN DIAG SUPPORT MNTR FOR BCM А BCM PRSNT INITIAL DIAG OK ŌK TRANSMIT DIAG ECM OK В IPDM E/R OK METER/M&A UNKWN I-KEY OK С PRINT

				D
"SELECT SYSTEM" "CAN DIAG SUPPORT screen MNTR" screen		Description	Present	D
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG	F
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN	
BCM	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN	F
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN	
	I-KEY	Make sure of normal reception from Intelligent Key unit. (Not available for CAN system diagnosis.)	ОК	G

Display Results (Present)

• OK: Normal

NG: Malfunction

• UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR LDW CAMERA UNIT

ample)	CAN	DIAG SU	PPORT M	INTR	
• /		LD	W		
			PRSNT	PAST	
	TRANSM	IT DIAG	_	-	
	ECM		OK	OK	
	VDC/TCS	/ABS	OK	OK	
	BCM/SEC)	OK	OK	
	ТСМ		OK	OK	
	PRINT				
	MODE	BACK	LIGHT	COPY	PKIB5965E
	· · ·				

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past
LDW	TRANSMIT DIAG	TRANSMIT DIAG is not diagnosed.	-	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	VDC/TCS/ABS	Make sure of normal reception from ABS actua- tor and electric unit (control unit).	OK/UNKWN/-	OK/0/1 – 39/—
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-	
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN/-	

Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- —: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

Display Results (Past)

- OK: Normal
- 0: There is malfunction now.
- 1 39: Displays when it is normal at present and finds malfunction in the past. It increases like 0→1→2...38→39 after returning to the normal condition whenever IGN OFF→ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- —: Undiagnosed

					F
(Example)	CAN DIAG SUPPORT MNTR	CAN DIAG S			
	PRSNT PAST		PRSNT PAST		
	TRANSMIT DIAG OK OK	IPDM E/R			
	TCM OK OK	DISPLAY I-KEY	ок ок		
	BCM/SEC OK OK	EPS			
	IPDM E/R	e4WD			(
	DISPLAY OK OK	ICC LANE KEEP			
	EPS	TIRE-P	ок ок		
	PRINT Down	PRINT	Scroll Up		Г
	MODE BACK LIGHT COPY	MODE BACK	LIGHT COPY	DKIDGOOGE	
				PKIB3986E	-
"SELECT SYSTEM"	"CAN DIAG SUP-				F
screen	PORT MNTR"	Description	Present	Past	
	screen				-
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-		C
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-		Г
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN/-		
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-		(
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN/-		
	IPDM E/R	IPDM E/R is not diagnosed.	-		ŀ
	DISPLAY	Make sure of normal reception from display control unit.	OK/UNKWN/-		
METER A/C AMP	I-KEY	Make sure of normal reception from Intelligent Key unit.	OK/UNKWN/-	OK/0/1 – 39/—	
	EPS	EPS is not diagnosed.	-		
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN/-		
	e4WD	e4WD is not diagnosed.	-		
	ICC	Make sure of normal reception from ICC unit.	OK/UNKWN/-		LA
	LANE KEEP	LANE KEEP is not diagnosed.	-		
	TIRE-P	Make sure of normal reception from BCM. (Not available for CAN system diagnosis.)	OK/UNKWN		L

Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- —: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

Display Results (Past)

- OK: Normal
- 0: There is malfunction now. .
- 1 39: Displays when it is normal at present and finds malfunction in the past. It increases like $0 \rightarrow 1 \rightarrow 2...38 \rightarrow 39$ after returning to the • normal condition whenever IGN OFF -> ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.
- —: Undiagnosed .

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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

(Example)	CAN D	IAG SU			
,		A	BS		
			PRSNT		
	INITIAL	NITIAL DIAG OK			
	TRANSMIT DIAG		FRANSMIT DIAG OK		
	ECM	ECM OK		ĸ	
	TCM		OK		
	METER/M&A		UNKWN		
	STRG	STRG		ιK	
	ICC		UNF	(WN	
	AWD/4W	/D	OK		
	PR	INT			
	MODE	BACK	LIGHT	COPY	SKIB2442E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
ADS	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN
ADS	METER/M&A	METER/M&A is not diagnosed.	UNKWN
	STRG	Make sure of normal reception from steering angle sensor.	OK/UNKWN
	ICC	ICC is not diagnosed.	UNKWN
	AWD/4WD	Make sure of normal reception from AWD control unit.	OK/UNKWN

Display Results (Present)

- OK: Normal
- NG: Malfunction
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR DRIVER SEAT CONTROL UNIT	(Example)	CAN DIA AUT	G SUPP To Drive	Port Mntr E Pos.	
				PRSNT	
		INITIAL DIAG	3	OK	
		TRANSMIT	JIAG	OK	-
		BCM/SEC		ОК	-
		METER/M&A	1	OK	
		TCM		OK	
		PRINT			
		MODE BA	ACK LI	IGHT COPY	SKIB2360E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
AUTO DRIVE POS.	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN
	METER/M&A	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN

Display Results (Present)

- OK: Normal
- NG: Malfunction
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

DESCRIPTION C FOR IPDM E/R	OF "CAN DIAG SUI	PPORT MNTR" SCREEN	(Example)	CAN DIAG SUPPOI IPDM E/R IPRS TRANSMIT DIAG OF ECM OF BCM/SEC OF PRINT PRINT MODE BACK LIG	RT MNTR NT PAST C OK C OK C OK C OK HT COPY SKIB0595E	A B C
"SELECT SYS- TEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description		Present	Past	D
	TRANSMIT DIAG	Make sure of normal transmission.		OK/UNKWN/-		F
IPDM E/R	ECM	Make sure of normal reception from		OK/UNKWN/-	OK/0/1 – 39/—	
	BCM/SEC	Make sure of normal reception from	BCM.	OK/UNKWN/-		

Display Results (Present)

- OK: Normal
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.
- —: There is no received unit or the unit is not in the condition that reception diagnosis is performed.

Display Results (Past)

- OK: Normal
- 0: There is malfunction now. .
- 1 39: Displays when it is normal at present and finds malfunction in the past. It increases like $0 \rightarrow 1 \rightarrow 2...38 \rightarrow 39$ after returning to the • normal condition whenever IGN OFF -> ON. If it is over 39, it is fixed to 39 until the self-diagnostic results are erased. It returns to 0 when malfunction is detected again in the process.

• —: Undiagnosed

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DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR DISPLAY CONTROL UNIT

(Example)

CAN_COMM	ОК	0	Delete
CAN_CIRC_1	OK	0	
CAN_CIRC_2	OK	0	
CAN_CIRC_3	OK	0	
CAN_CIRC_4	UNKWN	1	
CAN_CIRC_5	UNKWN	1	
CAN_CIRC_6	UNKWN	1	
CAN_CIRC_7	OK	0	
CAN_CIRC_8	OK	0	
CAN_CIRC_9	OK	0	

Unit name	Diagnosis item	Description	"CAN DIAG SUPPORT MONITOR" screen	Error counter (Reference)		
	CAN COMM	Make sure that microcomputer in ECU works normally.	OK/NG			
	CAN CIRC 1	Make sure of normal transmission.	OK/UNKWN			
	CAN CIRC 2	Make sure of normal reception from BCM.	OK/UNKWN			
	CAN CIRC 3	Make sure of normal reception from ECM.	OK/UNKWN			
Display control unit	CAN CIRC 4	CAN CIRC 4 is not diagnosed.	OK/UNKWN	0/1 50		
Display control unit	CAN CIRC 5	Make sure of normal reception from unified meter and A/C amp.	OK/UNKWN	0/1 - 50		
	CAN CIRC 6	CAN CIRC 6 is not diagnosed.	OK/UNKWN			
	CAN CIRC 7	Make sure of normal reception from IPDM E/R.	OK/UNKWN			
	CAN CIRC 8	CAN CIRC 8 is not diagnosed.	OK			
	CAN CIRC 9	CAN CIRC 9 is not diagnosed.	OK			

Display Results (Present)

- OK: Normal
- NG: Malfunction
- UNKWN: The diagnosed unit does not transmit or receive the applicable data normally.

Display Results: Error Counter (Reference)

- 0: It is normal now.
- 1 50: Displays when it finds malfunction in the past even if it is normal or there is a malfunction at present. Also, displays when diagnosis is not performed. It increase like 0→1→2...49→50 after returning to the normal condition whenever IGN OFF→ON. If it is over 50, it is fixed to 50 until the self-diagnostic results are erased. Keep this condition until resetting it.

CAN COMMUNICATION

System Description

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H line, CAN-L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location



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[CAN]

PFP:23710

NKS0034C

NKS003MM

А

В

Schematic NKS003MN IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) 49 AW) : AND models (C) : With ICC IK) : With Intelligent Key (D) : With LDW СРU 8 FRONT POWER SEAT (DRIVER SIDE) DRIVER SEAT CONTROL UNIT 4 ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) VDC/TCS/ABS CONTROL UNIT ICC SENSOR 15 'n <u>⊔</u> ÷ UNIFIED METER AND A/C AMP. ÷ +CAMERA UNIT : (LD) 6 LC BCM (BODY CONTROL MODULE) 9 39 DATA LINK CONNECTOR STEERING ANGLE SENSOR S ΗH 4 INTELLIGENT KEY UNIT co ¥ ŝ ICC UNIT <u>ಲ</u> 4 AWD CONTROL UNIT AW 16 26 DISPLAY CONTROL UNIT AW 22 α DATA LINE DATA LINE TCM (TRANSMISSION CONTROL MODULE) A/T ASSEMBLY ۱œ N 88 ECM 94

TKWM4449E

[CAN]



TKWM4450E



TKWM4451E

[CAN]



TKWM4452E

CAN Communication Unit

Go to CAN system, when selecting your CAN system type from the following table.

Body type	Wagon										
Axle	2WD AWD										
Engine	VQ35DE VQ35DE/VK45DE										
Transmission	A/T										
Brake control	VDC										
ICC system	x										
Lane departure warning system			×			×					
Intelligent Key system		×	×		×	×					
CAN system type	1	2	4	5	6						
CAN system trouble diagnosis	<u>LAN-49</u>	LAN-69	<u>LAN-91</u>	LAN-117	LAN-139	LAN-163					

×: Applicable

NOTE:

Confirming the presence of the following items helps to identify CAN system type.

• Models with ICC system



Models with lane departure warning system

• Models with Intelligent Key system





NKS0034D

TYPE 1/TYPE 2 System Diagram

А

В

С

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J

L

Type 1



Input/Output Signal Chart

T: Transmit R: Receive Μ

PKIC9635E

Signals	ECM	ТСМ	Dis- play control unit	Intelli- gent Key unit	BCM	Steer- ing angle sensor	Unified meter and A/ C amp.	ABS actua- tor and electric unit (con- trol unit)	Driver seat control unit	IPDM E/R
A/C compressor feedback sig- nal	Т						R			
A/C compressor request signal	Т									R
Accelerator pedal position sig- nal	Т	R						R		
ASCD CRUISE lamp signal	Т						R			
ASCD OD cancel request sig- nal	Т	R								

Revision: 2006 December

Signals	ECM	ТСМ	Dis- play control unit	Intelli- gent Key unit	BCM	Steer- ing angle sensor	Unified meter and A/ C amp.	ABS actua- tor and electric unit (con- trol unit)	Driver seat control unit	IPDM E/R
ASCD operation signal	Т	R								
ASCD SET lamp signal	Т						R			
Battery voltage signal	Т	R								
Closed throttle position signal	т	R								
Cooling fan speed request sig- nal	Т									R
Engine coolant temperature signal	Т						R			
Engine speed signal	Т	R	R				R	R		
Engine status signal	Т				R					
Fuel consumption monitor sig-	Т						R			
nal			R				Т			
Malfunctioning indicator lamp signal	Т						R			
Wide open throttle position sig- nal	Т	R								
A/T CHECK indicator lamp sig- nal		Т					R			
A/T self-diagnosis signal	R	Т								
Current gear position signal		Т						R		
Manual mode indicator signal		Т					R			
Output shaft revolution signal	R	Т								
P range signal		Т						R	R	
Shift position indicator signal		Т					R			
Turbine revolution signal	R	Т								
A/C switch/indicator signal			T R				R T			
			т	R					R	
System setting signal			R	т					Т	
Alarm request signal				т	R					
Back door open request signal				Т	R					
Door lock/unlock request signal				т	R					
Ignition knob switch signal				Т	R					
Key warning signal				т			R			
Power window open request signal				Т	R					
Sleep wake up signal					Т		R			R
· -				Т	R					
Buzzer output signal				Т	Т		R R			
A/C switch signal	R				Т					

Revision: 2006 December

Signals	ECM	ТСМ	Dis- play control unit	Intelli- gent Key unit	BCM	Steer- ing angle sensor	Unified meter and A/ C amp.	ABS actua- tor and electric unit (con- trol unit)	Driver seat control unit	IPDM E/R	A
Blower fan motor switch signal	R				Т						С
Day time running light request signal					т		R				
Door lock/unlock status signal				R	Т						D
Door switch signal			R	R	Т		R		R	R	
Front fog light request signal					Т					R	
Front wiper request signal					Т					R	
High beam request signal					Т		R			R	
Horn chirp signal					Т					R	F
Ignition switch signal					Т				R	R	
Key fob door unlock signal					Т				R		
Key fob ID signal					Т				R		G
Key switch signal					Т				R		
Low beam request signal					Т					R	Н
Position light request signal					Т		R			R	
Theft warning horn request sig- nal					т					R	I
Turn indicator signal					Т		R				
Oil pressure switch signal					R		P			Т	J
Steering angle sensor signal					I	Т	ĸ	R			
Distance to empty signal			R				Т				LAN
Fuel level low warning signal			R				Т				
Fuel level sensor signal	R						Т				
Manual mode shift down signal		R					Т				L
Manual mode shift up signal		R					Т				
Manual mode signal		R					Т				M
Not manual mode signal		R					Т				
Snow mode switch signal	R						Т				
Stop lamp switch signal		R					Т				
Turn LED burnout status signal					R		Т				
Vehicle speed signal	D	P	P	P	P		R	Т	D		
A/T shift schedule shores	ĸ	ĸ	ĸ	ĸ	ĸ		1		ĸ		
demand signal		R						Т			
ABS operation signal								Т			
ABS warning lamp signal							R	Т			
Brake warning lamp signal							R	Т			
SLIP indicator lamp signal							R	Т			
TCS operation signal								Т			
VDC OFF indicator lamp signal							R	Т			

Revision: 2006 December

Signals	ECM	ТСМ	Dis- play control unit	Intelli- gent Key unit	BCM	Steer- ing angle sensor	Unified meter and A/ C amp.	ABS actua- tor and electric unit (con- trol unit)	Driver seat control unit	IPDM E/R
VDC OFF switch signal								Т		
VDC operation signal								Т		
Front wiper stop position signal					R					Т
High beam status signal	R									Т
Hood switch signal					R					Т
Low beam status signal	R									Т
Rear window defogger control signal	R		R		R					Т

TYPE 3 System Did

System Diagram

• Type 3



Input/Output Signal Chart

T: Transmit R: Receive

Signals	ECM	тсм	Dis- play con- trol unit	ICC unit	Intelli- gent Key unit	всм	Steer- ing angle sen- sor	LDW cam- era unit	Uni- fied meter and A/C amp.	ICC sen- sor	ABS actu- ator and elec- tric unit (con- trol unit)	Driver seat con- trol unit	IPDM E/R
A/C compressor feed- back signal	т								R				
A/C compressor request signal	т												R
Accelerator pedal posi- tion signal	т	R		R							R		
ASCD OD cancel request signal	т	R											

Revision: 2006 December
Signals	ECM	тсм	Dis- play con- trol unit	ICC unit	Intelli- gent Key unit	BCM	Steer- ing angle sen- sor	LDW cam- era unit	Uni- fied meter and A/C amp.	ICC sen- sor	ABS actu- ator and elec- tric unit (con- trol unit)	Driver seat con- trol unit	IPDM E/R
ASCD operation signal	Т	R											
Battery voltage signal	Т	R											
Closed throttle position signal	Т	R		R									
Cooling fan speed request signal	Т												R
Engine coolant tempera- ture signal	Т								R				
Engine speed signal	Т	R	R	R					R		R		
Engine status signal	Т					R							
Fuel consumption moni- tor signal	Т		R						R T				
ICC steering switch sig- nal	т			R									
Malfunctioning indicator lamp signal	Т								R				
Wide open throttle posi- tion signal	т	R											
Snow mode switch signal	R T			R					Т				
A/T CHECK indicator lamp signal		т							R				
A/T self-diagnosis signal	R	Т											
Current gear position sig- nal		т		R							R		
Manual mode indicator signal		т		R					R				
Output shaft revolution signal	R	т		R				R					
P range signal		Т		R							R	R	
Shift position indicator signal		т		R					R				
Turbine revolution signal	R	Т		R									
A/C switch/indicator sig- nal			T R						R T				
			т		R				•			R	
System setting signal			R		Т							т	
ICC OD cancel request signal		R		т									
ICC operation signal	R			Т									
ICC system display sig- nal				т					R				

Ν

												-	-
Signals	ECM	тсм	Dis- play con- trol unit	ICC unit	Intelli- gent Key unit	BCM	Steer- ing angle sen- sor	LDW cam- era unit	Uni- fied meter and A/C amp.	ICC sen- sor	ABS actu- ator and elec- tric unit (con- trol unit)	Driver seat con- trol unit	IPDM E/R
ICC warning lamp signal				Т					R				
Buzzer output signal					Т	Т			R R				
				Т					R				
Alarm request signal					Т	R							
Back door open request signal					Т	R							
Door lock/unlock request signal					Т	R							
Ignition knob switch sig- nal					Т	R							
Key warning signal					Т				R				
Power window open request signal					Т	R							
						Т			R				R
Sleep wake up signal					Т	R							
A/C switch signal	R					Т							
Blower fan motor switch signal	R					Т							
Day time running light request signal						т			R				
Door lock/unlock status signal					R	Т							
Door switch signal			R		R	Т			R			R	R
Front fog light request signal						т							R
Front wiper request sig- nal				R		Т							R
High beam request sig- nal						Т			R				R
Horn chirp signal						Т							R
Ignition switch signal						Т						R	R
Key fob door unlock sig- nal						т						R	
Key fob ID signal						Т						R	
Key switch signal						Т						R	
Low beam request signal						Т							R
Position light request sig- nal						Т			R				R
Rear window defogger switch signal						Т							R
Theft warning horn request signal						т							R

Revision: 2006 December

Signals	ECM	тсм	Dis- play con- trol unit	ICC unit	Intelli- gent Key unit	BCM	Steer- ing angle sen- sor	LDW cam- era unit	Uni- fied meter and A/C amp.	ICC sen- sor	ABS actu- ator and elec- tric unit (con- trol	Driver seat con- trol unit	IPDM E/R	A B C
Tire pressure signal						т			R		unit)			0
Turn indicator signal						Т		R	R					D
Oil pressure switch sig- nal						R T			R				Т	D
Steering angle sensor signal							Т				R			Ε
Distance to empty signal			R						Т					
Fuel level low warning signal			R						т					F
Fuel level sensor signal	R								Т					0
Manual mode shift down signal		R							Т					G
Manual mode shift up signal		R							Т					Н
Manual mode signal		R							Т					
Not manual mode signal		R							Т					1
Parking brake switch sig- nal						R			Т					
Stop lamp switch signal		R							Т					J
Turn LED burnout status signal						R			Т					
Vehicle speed signal				R				R	R		Т			LAN
	R	R	R		R	R			Т	R		R		
ICC sensor signal				R						Т				1
A/T shift schedule change demand signal		R									т			L
ABS malfunction signal				R							Т			M
ABS operation signal				R							Т			
ABS warning lamp signal									R		Т			
Brake warning lamp sig- nal									R		Т			
SLIP indicator lamp sig- nal									R		Т			
TCS malfunction signal				R							Т			
TCS operation signal				R							Т			
VDC malfunction signal				R							Т			
VDC OFF indicator lamp signal									R		Т			
VDC OFF switch signal				R							Т			
VDC operation signal				R							Т			
Front wiper stop position signal						R							т	

Revision: 2006 December

Signals	ECM	тсм	Dis- play con- trol unit	ICC unit	Intelli- gent Key unit	BCM	Steer- ing angle sen- sor	LDW cam- era unit	Uni- fied meter and A/C amp.	ICC sen- sor	ABS actu- ator and elec- tric unit (con- trol unit)	Driver seat con- trol unit	IPDM E/R
High beam status signal	R												Т
Hood switch signal						R							Т
Low beam status signal	R												Т
Rear window defogger control signal	R		R			R							Т

TYPE 4/TYPE 5

System Diagram

Type 4



• Type 5



Input/Output Signal Chart

									T: Ti	ransmit R	: Receive
Signals	ECM	ТСМ	Dis- play control unit	AWD control unit	Intelli- gent Key unit	BCM	Steer- ing angle sensor	Unified meter and A/ C amp.	ABS actua- tor and elec- tric unit (con- trol unit)	Driver seat control unit	IPDM E/R
A/C compressor feedback signal	Т							R			
A/C compressor request signal	Т										R
Accelerator pedal position signal	Т	R		R					R		
ASCD CRUISE lamp sig- nal	Т							R			
ASCD OD cancel request signal	Т	R									
ASCD operation signal	Т	R									,
ASCD SET lamp signal	Т							R			
Battery voltage signal	Т	R									
Closed throttle position signal	Т	R									
Cooling fan speed request signal	Т										R
Engine coolant tempera- ture signal	Т							R			
Engine speed signal	Т	R	R	R				R	R		
Engine status signal	Т					R					
Fuel consumption monitor signal	Т		R					R T			
Malfunction indicator lamp signal	Т							R			
Wide open throttle posi- tion signal	Т	R									
Snow mode switch signal	R							Т			
A/T CHECK indicator lamp signal		Т						R			
A/T self-diagnosis signal	R	Т									
Current gear position sig- nal		Т							R		
Manual mode indicator signal		Т						R			
Output shaft revolution signal	R	Т									
P range signal		Т							R	R	
Shift position indicator sig- nal		Т						R			
Turbine revolution signal	R	Т									
A/C switch/indicator signal			Т					R			
, . C Switch/maioator Signal			R					т			

Signals	ECM	ТСМ	Dis- play control unit	AWD control unit	Intelli- gent Key unit	BCM	Steer- ing angle sensor	Unified meter and A/ C amp.	ABS actua- tor and elec- tric unit (con- trol unit)	Driver seat control unit	IPDM E/R
System patting signal			Т		R					R	
System setting signal			R		Т					Т	
AWD warning lamp signal				Т				R			
Alarm request signal					Т	R					
Back door open request signal					Т	R					
Door lock/unlock request signal					Т	R					
Ignition knob switch signal					Т	R					
Key warning signal					Т			R			
Power window open request signal					Т	R					
						Т		R			R
Sleep wake up signal					Т	R					
Buzzer euteut eignel						Т		R			
Buzzer output signal					Т			R			
A/C switch signal	R					Т					
Blower fan motor switch signal	R					Т					
Day time running light request signal						Т		R			
Door lock/unlock status signal					R	Т					
Door switch signal			R		R	Т		R		R	R
Front fog light request sig- nal						Т					R
Front wiper request signal						Т					R
High beam request signal						Т		R			R
Horn chirp signal						Т					R
Ignition switch signal						Т				R	R
Key fob door unlock signal						Т				R	
Key fob ID signal						Т				R	
Key switch signal						Т				R	
Low beam request signal						Т					R
Position light request sig- nal			R			Т		R			R
Theft warning horn request signal						Т					R
Turn indicator signal						Т		R			
Oil pressure switch signal						R T		R			Т
Steering angle sensor sig- nal							Т		R		

Revision: 2006 December

Signals	ECM	ТСМ	Dis- play control unit	AWD control unit	Intelli- gent Key unit	BCM	Steer- ing angle sensor	Unified meter and A/ C amp.	ABS actua- tor and elec- tric unit (con- trol unit)	Driver seat control unit	IPDM E/R	A
Turn LED burnout status signal						R		т				С
Distance to empty signal			R					Т				-
Fuel level low warning sig- nal			R					Т				D
Fuel level sensor signal	R							Т				
Manual mode shift down signal		R						Т				E
Manual mode shift up sig- nal		R						Т				F
Manual mode signal		R						Т				-
Not manual mode signal		R						Т				G
Parking brake switch sig- nal				R		R		т				0
Stop lamp switch signal		R		R				Т				Н
Vehicle speed signal				R				R	Т			_
	R	R	R		R	R		Т		R		-
A/T shift schedule change demand signal		R							Т			
ABS operation signal									Т			<u> </u>
ABS warning lamp signal								R	Т			J
Brake warning lamp signal								R	Т			-
SLIP indicator lamp signal								R	Т			LA
TCS operation signal									Т			-
VDC OFF indicator lamp signal								R	Т			L
VDC OFF switch signal									Т			-
VDC operation signal									Т			
Front wiper stop position signal						R					Т	IVI
High beam status signal	R										Т	-
Hood switch signal						R					Т	-
Low beam status signal	R										Т	-
Rear window defogger control signal	R		R			R					Т	

TYPE 6 System Diagram





Input/Output Signal Chart

Signals	ECM	тсм	Dis- play con- trol unit	AWD con- trol unit	ICC unit	Intel- ligent Key unit	всм	Steer- ing angle sen- sor	LDW cam- era unit	Uni- fied meter and A/C amp.	ICC sen- sor	ABS actu- ator and elec- tric unit (con- trol unit)	Driver seat con- trol unit	IPDM E/R
A/C compressor feedback signal	Т									R				
A/C compressor request signal	Т													R
Accelerator pedal position signal	Т	R		R	R							R		
ASCD OD cancel request signal	Т	R												
ASCD operation sig- nal	Т	R												
Battery voltage sig- nal	Т	R												
Closed throttle posi- tion signal	Т	R			R									
Cooling fan speed request signal	Т													R
Engine coolant tem- perature signal	Т									R				
Engine speed signal	Т	R	R	R	R					R		R		
Engine status signal	Т						R							
Fuel consumption	Т									R				
monitor signal			R							Т				

T: Transmit R: Receive

Signals	ECM	тсм	Dis- play con- trol unit	AWD con- trol unit	ICC unit	Intel- ligent Key unit	BCM	Steer- ing angle sen- sor	LDW cam- era unit	Uni- fied meter and A/C amp.	ICC sen- sor	ABS actu- ator and elec- tric unit (con- trol unit)	Driver seat con- trol unit	IPDM E/R	E
ICC steering switch signal	т				R										
Malfunction indicator lamp signal	т									R					D
Wide open throttle position signal	т	R													E
Snow mode switch	R				P					Т					
A/T CHECK indica-	1	т			ĸ					R					F
tor lamp signal A/T self-diagnosis signal	R	т													G
Current gear posi- tion signal		т			R							R			
Manual mode indica- tor signal		т			R					R					
Output shaft revolu- tion signal	R	т			R				R						
P range signal		Т			R							R	R		
Shift position indica- tor signal		т			R					R					J
Turbine revolution signal	R	т			R										ΙA
A/C switch/indicator signal			T R							R T					
			Т			R							R	·	L
System setting signal			R			Т							Т		
AWD warning lamp signal				т						R					N
ICC OD cancel request signal		R			т										
ICC operation signal	R				Т										
ICC system display signal					т					R					
ICC warning lamp signal					Т					R					
Buzzer output signal					T	Т	Т			R R R					
Alarm request signal						Т	R							· · · · · ·	
Back door open request signal						т	R								

Signals	ECM	тсм	Dis- play con- trol unit	AWD con- trol unit	ICC unit	Intel- ligent Key unit	всм	Steer- ing angle sen- sor	LDW cam- era unit	Uni- fied meter and A/C amp.	ICC sen- sor	ABS actu- ator and elec- tric unit (con- trol unit)	Driver seat con- trol unit	IPDM E/R
Door lock/unlock request signal						Т	R							
Ignition knob switch signal						т	R							
Key warning signal						Т				R				
Power window open request signal						Т	R							
Sleep wake up signal						Т	T R			R				R
A/C switch signal	R						Т							
Blower fan motor switch signal	R						т							
Day time running light request signal							т			R				
Door lock/unlock sta- tus signal						R	т							
Door switch signal			R			R	Т			R			R	R
Front fog light request signal							Т							R
Front wiper request signal					R		т							R
High beam request signal							т			R				R
Horn chirp signal							Т							R
Ignition switch signal							Т						R	R
Key fob door unlock signal							т						R	
Key fob ID signal							Т						R	
Key switch signal							Т						R	
Low beam request signal							Т							R
Position light request signal			R				Т			R				R
Rear window defog- ger switch signal							т							R
Theft warning horn request signal							т							R
Tire pressure signal							Т			R				
Turn indicator signal							Т		R	R				
Oil pressure switch							R							Т
signal							Т			R				
Steering angle sen- sor signal								Т				R		

Signals	ECM	тсм	Dis- play con- trol unit	AWD con- trol unit	ICC unit	Intel- ligent Key unit	всм	Steer- ing angle sen- sor	LDW cam- era unit	Uni- fied meter and A/C amp.	ICC sen- sor	ABS actu- ator and elec- tric unit (con- trol unit)	Driver seat con- trol unit	IPDM E/R	A B C
Vehicle speed signal				R	R				R	R		Т			
Distance to empty signal	R	R	R			R	R			Т	R		к		D
Fuel level low warn- ing signal			R							т					E
Fuel level sensor sig- nal	R									Т					F
Manual mode shift down signal		R								Т					
Manual mode shift up signal		R								Т					G
Manual mode signal		R								Т					
Not manual mode signal		R								Т					Η
Parking brake switch signal				R			R			Т					1
Stop lamp switch sig- nal		R		R						Т					
Turn LED burnout status signal							R			Т					J
ICC sensor signal					R						Т				
A/T shift schedule change demand sig- nal		R										Т			LA
ABS malfunction sig- nal					R							Т			L
ABS operation signal					R							Т			
ABS warning lamp signal										R		т			N
Brake warning lamp signal										R		т			
SLIP indicator lamp signal										R		Т			
TCS malfunction sig- nal					R							Т			
TCS operation signal					R							Т			
VDC malfunction sig- nal					R							т			
VDC OFF indicator lamp signal										R		т			
VDC OFF switch sig- nal					R							т			
VDC operation signal					R							Т			

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Signals	ECM	тсм	Dis- play con- trol unit	AWD con- trol unit	ICC unit	Intel- ligent Key unit	BCM	Steer- ing angle sen- sor	LDW cam- era unit	Uni- fied meter and A/C amp.	ICC sen- sor	ABS actu- ator and elec- tric unit (con- trol unit)	Driver seat con- trol unit	IPDM E/R
Front wiper stop position signal							R							Т
High beam status signal	R													т
Hood switch signal							R							Т
Low beam status sig- nal	R													т
Rear window defog- ger control signal	R		R				R							Т

	[CAN]
CAN SYSTEM (TYPE 1)	PFP:23710
Component Parts and Harness Connector Location	A NKS0034E
Refer to LAN-27, "Component Parts and Harness Connector Location"	
Schematic	NKS0034F
Refer to LAN-28, "Schematic"	
Wiring Diagram — CAN —	NKS0034G C
Refer to LAN-29, "Wiring Diagram — CAN —"	
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Check Sheet

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Check sheet table													
			1	1	CAN D	IAG SUPPO	RT MNTR						
SELECT SYSTEM scree	en	Initial	Transmit				Receive	diagnosis I				SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_		Ι	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_		UNKWN	_	UNKWN	_	UNKWN	_	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	-	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
Cumptomo													
Symptoms :													
			Attach	oonv of				Attach or	ony of				
		9	SELECT	SYSTEM			SI	ELECT S	YSTEM				
Display		nit Tranel	ation Sho	ot: Dowrit	to the follo	wing nor	noe and	put a cho	ok mark (on the che	ock choot	tablo	
Confirmation/Adjustm	ent Disn	lav !	Check sh	neet table	Display	Con	firmation/	Adjustme	ent Displa		heck she	et table Dis	splay
CAN COMM			Initi	al diagno	sis	CAN	CBIC 5	,,		, .	MET	ER/M&A	
CAN CRIC 1			Trans	mit diagr	nosis							_	
CAN CRIC 2			E	BCM/SEC	;					-	IPD	DM E/R	
CAN CRIC 3				ECM		CAN	I CRIC 8					-	
CAN CRIC 4	CAN CRIC 4					CAN	I CRIC 9					_	
					Atta	ach copy	of Unit						
			(CAN DIAG	SUPPO	RT MON	TOR che	ck sheet					
1													

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CHECK SHEET RESULTS (EXAMPLE)

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

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Check harness between TCM and data link connector. Refer to <u>LAN-190, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

				-	CAN E	IAG SUPPO	RT MNTR						
SELECT SYSTEM scree	en	Initial	Tranomit				Receive	diagnosis				SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	_		_	UNKIN	UNKIN	UNKOVN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	_	_	UNKVN	UNKIN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	UNKVN	_	UNKIN	_	UNKON	_	_
ВСМ	No indication	NG	UNKWN	UNKIN	_	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKVN	UNKIN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKIN	UNKIN	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKIN	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKIN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
													PKIC9445E



Case 2

Check harness between data link connector and unified meter and A/C amp. Refer to <u>LAN-190</u>, "Inspection A <u>Between Data Link Connector and Unified Meter and A/C Amp. Circuit</u>".

					CAN D	AG SUPPO	RT MNTR						
SELECT SYSTEM scree	'n						Receive	diagnosis					BESULTS
		diagnosis	diagnosis	ECM	ТСМ	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		TILOOLIO
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKIN	UNKIN	UNKVN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	-	_		_	UNKIN	UNKUN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKIN	-	UNKWN	_	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	_	UNKIN	I	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indivision	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIFOUIT (U1000)	_
ABS	-	NG	UNKWN	UNKIN	UNKIN	_	-	UNKOWN	-	-	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	Notindiation	NG	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indiation	_	UNKWN	UNKWN	_	_	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U11000)	_



PKIC9447E

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Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to LAN-190, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN D	AG SUPPO	RT MNTR						
							Receive	diagnosis					
SELECT STSTEM SCIE	#T1	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	A NEGULI G
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKIN	UNKVN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
АЛТ	-	NG	UNKWN	UNKWN	_	_	-	_	UNKWN	UNKIN	_	CAN COMM CIRCUIT (U1000)	—
Display control unit	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	-	UNK	_	_
BCM	No indication	NG	UNKWN	UNKWN	_	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIFCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKIN	UNKIN	_	_	UNKOWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	Notindiation	NG	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	Notindivition	-	UNKWN	UNKWN	_	_	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
			·	·	·	·		·			·	· · · ·	
													PKIC9449E



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Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to <u>LAN-</u> <u>191, "Inspection Between ABS Actuator and Electric Unit (Control Unit) and Driver Seat Control Unit Circuit"</u>.

					CAN D	AG SUPPO	RT MNTR						
			_				Receive	diagnosis					DECUITO
	511	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	NEGOLI G
ENGINE	-	_	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKON	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	_		UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	-	UNKWN	-	UNKWN	_	UNKUN	_	—
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKVN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	Notindiation	NG	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	Notindiation	_	UNKWN	UNKWN	_	_	UNKWN	-	_	_	_	CAN COMM CIRCUIT (U1000)	-



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PKIC9451E

Check ECM circuit. Refer to LAN-192, "ECM Circuit Inspection" .

					CAN D	IAG SUPPO	RT MNTR						
	N		_				Receive	diagnosis					
	711	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	THEODEIG
ENGINE	-	_		-	UNKIN	_	UNKWN	_	UNKIN	UNKIN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKIN	_	_	-	_	UNKWN	UNKWN	_	CAN COMM CIPOUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKIN	_	_	UNKWN	_	UNKWN	_	UNKWN	_	_
BCM	No indication	NG	UNKWN	UNKIN	_	_	-	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIPOUIT (U1000)	_
ABS	-	NG	UNKWN	UNKUN	UNKWN	-		UNKWN	_	_	_	CAN COMM CIPCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKIN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

PKIC9453E



Case 6

Check TCM circuit. Refer to LAN-193, "TCM Circuit Inspection" .

					CAN D	IAG SUPPO	RT MNTR						
							Receive of	diagnosis					
SELECT STOTEM SCIE		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULIS
ENGINE	-	-	UNKWN	-	UNKIN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	_	_		UNKIN	_	CAN COMM CIPOUIT (U1000)	_
Display control unit		NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	_	UNKWN	_	-
ВСМ	No indication	NG	UNKWN	UNKWN	Ι	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKIN	UNKWN	UNKWN	-	-	UNKWN	-	CAN COMM CIFOUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKIN	_	-	UNKWN	-	_	_	CAN COMM CIPOUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKIN	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	-



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Check display control unit circuit. Refer to LAN-193, "Display Control Unit Circuit Inspection" .

					CAN D	IAG SUPPO	RT MNTR						
			_				Receive	diagnosis					
	11	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	RESULIS
ENGINE	-	_	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_		_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKINN	UNKWN	_	_	UNKVN	_	UNKWN	Ι	UNKIN	_	_
BCM	No indication	NG	UNKWN	UNKWN	_	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNK	UNKWN	_	Ι	UNKWN	_	CAN COMM CIPOUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	Ι	UNKWN	I	Ι	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	UNKWN	_	UNKWN	Ι	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

PKIC9457E



Case 8

Check data link connector circuit. Refer to LAN-195, "Data Link Connector Circuit Inspection" .

					CAN D	AG SUPPO	RT MNTR						
	'n						Receive of	diagnosis					
SELECT STOTEM SCIE	11	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	RESOLIS
ENGINE	-	-	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	-		UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	UNKWN	-	_
BCM	No.	NG	UNKWN	UNKWN	_	_	_	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	indivation	Ι	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	Ι	-	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	Ι	UNKWN	Ι	-		CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indivision	NG	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	indivation	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check BCM circuit. Refer to LAN-196, "BCM Circuit Inspection" .

					CAN D	IAG SUPPO	RT MNTR						
							Receive	diagnosis					
SELECT STOTEM SCIE		Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	I NEGULI G
ENGINE	-	-	UNKWN	_	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_		_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	_	_	UNKVN	_	UNKWN	_	UNKWN	_	
BCM	No.	NG	UNKWN	UNKWN	_	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	Ι
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKIN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

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Case 10

Check steering angle sensor circuit. Refer to LAN-196, "Steering Angle Sensor Circuit Inspection" .

					CAN D	IAG SUPPO	RT MNTR						
			_				Receive	diagnosis					
SELECT STOTEM SCIE	FI I	Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	RESOLIS
ENGINE	_		UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN		_	_	_	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	UNKWN	_	_
BCM	No indication	NG	UNKWN	UNKWN	Ι	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	-	UNKIN	-	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check unified meter and A/C amp. circuit. Refer to LAN-197, "Unified Meter and A/C Amp. Circuit Inspection" .

					CAN D	IAG SUPPO	RT MNTR						
SELECT SYSTEM scree	'n		-				Receive	diagnosis					BESUITS
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	diagnosis	diagnosis	ECM	ТСМ	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		THEODERO
ENGINE	-		UNKWN	_	UNKWN	_	UNKWN	_	UNKIN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
А/Т	_	NG	UNKWN	UNKWN	_	_	-	_		UNKWN	_	CAN COMM CIRCUIT (U1000)	—
Display control unit	_	NG	UNKWN	UNKWN	_	-	UNKWN	_	UNKIN	_	UNKWN	_	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_		-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	Notindivation	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	—
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	Ι	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	—
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	UNKWN	_	UNKIN	_	_	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	UNKWN	_	-	-	_	CAN COMM CIRCUIT (U1000)	-

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Case 12

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-198</u>, "ABS Actuator and Electric Unit (<u>Control Unit</u>) <u>Circuit Inspection</u>".

					CAN E	IAG SUPPO	RT MNTR						
SELECT SYSTEM scree	'n						Receive	diagnosis					BESUITS
		Initial diagnosis	Iransmit diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		THEODERO
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKVIN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_		_	UNKWN	UNKVN	_	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	_	-	UNKWN	_	UNKWN	-	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKVIN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	V	UNKIN		UNKWN	_	_	UNKIN	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check driver seat control unit circuit. Refer to LAN-199, "Driver Seat Control Unit Circuit Inspection" .

					CAN D	AG SUPPO	RT MNTR						
	-						Receive	diagnosis					
SELECT STSTEM Scree	r1	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULIS
ENGINE	_	-	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_		_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	UNKWN	_	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	Ι	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No ind ation	NG	UNKWN	Ι	UNKWN	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	—

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Case 14

Check IPDM E/R circuit. Refer to LAN-199, "IPDM E/R Circuit Inspection" .

					CAN D	IAG SUPPO	RT MNTR						
SELECT SYSTEM scree	n		ł				Receive	diagnosis				SELE-DIAG	RESULTS
		diagnosis	diagnosis	ECM	ТСМ	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINC	THEODERO
ENGINE	_	_	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	Ι	NG	UNKWN	UNKWN	_	-	UNKWN	-	UNKWN	-	UNKUN	_	-
BCM	No indication	NG	UNKWN	UNKWN	_	-	-	-	UNKWN	-	UNKUN	CAN COMM CIRCUIT (U1000)	
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		Ι	UNKWN	_	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	Ι	-	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No ind Nation	_	UNKWN	UNKWN	-	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check CAN communication circuit. Refer to LAN-200, "CAN Communication Circuit Inspection" .

					CAN E	DIAG SUPPO	RT MNTR						
	on						Receive	diagnosis					
	en	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		TILOULIO
ENGINE	-	_	UNKWN	-	UNKIN	_	UNKIN	_	UNKON	UNKWN	UNKWN	CAN COMM CIROUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKVIN	_	_		_	UNKIN	UNKIN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKIN	UNKIN	_	_	UNKIN	_	UNKWN	_	UNKWN	_	_
BCM	No individuation	NG	UNKWN	UNKWN	_	_		_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No ind ation	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	-	V	UNKIN	UNKIN	UNKWN	_	_	UNKIN	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivision	NG	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indivision	-	UNKWN	UNKWN	-	_	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

Case 16

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-201</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

					CAN E	IAG SUPPO	RT MNTR						
SELECT SYSTEM scree	'n	Initial	Transmit				Receive	diagnosis				SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_		_	UNKWN	_	UNKWN	UNKIN	UNKWN	CAN COMM CIRQUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_		_	UNKWN	UNKWN	I	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	UNKWN	-	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNK	UNKWN	UNKWN	_	-		-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	_		CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKUN	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	_

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-201, "IPDM E/R Ignition Relay</u> <u>Circuit Inspection"</u>.

					CAN E	AG SUPPO	RT MNTR						
	N						Receive	diagnosis					
SELECT STSTEM SCIE	711	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	A NEGOLI G
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	_	_	_	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	_	UNKWN	-	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	_	UNKWN	_	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	-
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CAN SYSTEM (TYPE 2)	PFP:23710	
Component Parts and Harness Connector Location	NKS003MP	А
Refer to LAN-27, "Component Parts and Harness Connector Location"		
Schematic	NKS003MQ	В
Refer to LAN-28, "Schematic"		
Wiring Diagram — CAN —	NKS003MR	С
Refer to LAN-29, "Wiring Diagram — CAN —"		
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Check Sheet

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Check sheet table	Э													
			1			CAN DIA	G SUPPOR	RT MNTR						
SELECT SYSTEM	screen	Initial	Transmit				Re	ceive diagn	osis I				SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	TCM	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	_	_	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	-	UNKWN	_	UNKWN	-	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	-	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	_	-	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	-	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	UNKWN	-	-	_	_	CAN COMM CIRCUIT (U1000)	_
Symptoms :														
		Г												
			At	tach cop	y of				Attach	copy of				
			SEL	ECTSR	SIEIVI				SELECT	STOLE	VI			
		-				_								

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Display control unit Tra	nslation Sheet: Rewrite the follow	ing names, and put a check mark on th	e check sheet table.
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	_
CAN CIRC 2	BCM/SEC	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	_
CAN CIRC 4	—	CAN CIRC 9	_
	Attaci display CAN DIAG SUPPOR	n copy of control unit Γ MONITOR check sheet	
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CHECK SHEET RESULTS (EXAMPLE)

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-190</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen	Initial	Transmit				Re	ceive diagno	osis				SELE-DIAG	RESULTS
	ooroon	diagnosis	diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	-	_		-	UNKIN	UNKAN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	1	_	Ι	_	Ι			-	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	-	UNKWN	Ι	UNKVN	Ι	UNK	-	_
INTELLIGENT KEY	No indication	_	UNKWN		-	_	_	UNKWN	-	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	_	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN		UNKWN		UNKWN	UNKWN	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_		_	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	-	-	_	CAN COMM CIRCUIT (U1000)	_

//////, : Malfunctioning part ABS actuator and electric unit (control unit) Steering angle sensor CAN H CAN L *HHH* Unified Display Intelligent Driver seat Data link ECM IPDM E/R BCM meter and control тсм control unit Key unit connector unit A/C amp. PKIC9530E

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Check harness between data link connector and unified meter and A/C amp. Refer to <u>LAN-190</u>, "Inspection <u>Between Data Link Connector and Unified Meter and A/C Amp. Circuit</u>".

						CAN DIA	G SUPPOF	RT MNTR					1	
SELECT SYSTEM	screen	Initial	Transmit				Re	ceive diagn	osis				SELE-DIAC	BESULTS
	olioli	diagnosis	diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	-	UNKWN	_	_	UNKWN	_	UNKIN			CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
А/Т	_	NG	UNKWN	UNKWN	-	_	-	_	_		UNKUN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKIN	_		_	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	_		-		CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	_	_	_		-		CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No inditation	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_		_	Ι		CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivision	NG	UNKWN	-	UNKWN	_	_	UNKWN	_	UNKWN	Ι		CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No inditation	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
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Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to <u>LAN-190, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit)</u> <u>Circuit"</u>.

						CAN DIA	G SUPPOF	T MNTR						
SELECT SYSTEM	screen	Initial	Tranemit				Red	ceive diagno	osis				SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	TCM	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN		UNKOWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	-	1	_	_	Ι	UNKWN		_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	1	_	UNKWN	Ι	UNKWN	Ι	UNKUN	_	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	Ι		_	UNKWN	Ι	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	_	_	-	UNKWN	-	UNKIN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_		_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN		UNKWN		_	-		-	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivision	NG	UNKWN	-	UNKWN	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	Ng inditation	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to <u>LAN-191</u>, "Inspection Between ABS Actuator and Electric Unit (Control Unit) and Driver Seat Control Unit Circuit".

						CAN DIA	G SUPPOR	RT MNTR	neie					
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	-	_	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	UNK	-	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivision	NG	UNKWN	-	UNKWN	-	-	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	N inditation	-	UNKWN	UNKWN	-	-	-	UNKWN	_	_	-	-	CAN COMM CIRCUIT (U1000)	_
	included	I					I						(U1000)	



Case 5

Check ECM circuit. Refer to LAN-192, "ECM Circuit Inspection" .

						CAN DIA	G SUPPOF	T MNTR						
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	_		_		_	_		_		UNK		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN		_	_	_	_	Ι	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	_	UNKWN	-	UNKWN	-	UNKWN	-	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	-	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	_	-	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN		_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check TCM circuit. Refer to LAN-193, "TCM Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen	La Mart	T				Re	ceive diagn	osis				SELE-DIAG	BESUITS
	ooreen	diagnosis	diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINC	
ENGINE	-	-	UNKWN	_	UNKWN	_	-	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	_	_	_			_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	-	UNKWN	_	UNKWN	_	UNKWN	-	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	-	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN		_	_	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-		_	-	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
														Divionent
														PKIC9539E



Case 7

Check display control unit circuit. Refer to LAN-193, "Display Control Unit Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR	osis					
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	RESULTS
ENGINE	-	-	UNKWN	_	UNKWN	_	_	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	_	_	_		UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG			-	_	_	UNKWN	_		_		-	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKIN	UNKWN	UNKWN		_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	-	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check Intelligent Key unit circuit. Refer to LAN-195, "Intelligent Key Unit Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen	Initial	Transmit				Re	ceive diagn	osis				SELF-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	I
Display control unit	-	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN	_	UNKWN	-	_
INTELLIGENT KEY	indivation	_	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	_	UNKWN	_	-	_	-	CAN COMM CIRCUIT (U1000)	-
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Case 9

Check data link connector circuit. Refer to LAN-195, "Data Link Connector Circuit Inspection" .

						CAN DIA	G SUPPOF							
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	-	-	UNKWN	_	UNKWN	_	-	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	_				UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	-	UNKWN	_	UNKWN	_	UNKWN	-	—
INTELLIGENT KEY	indNation	_	UNKWN	UNKWN	_	_	-	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	indNation	NG	UNKWN	UNKWN	-	_	-	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	N inclustion	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	Ι	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	Ι	Ι	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	1
AUTO DRIVE POS.	N indvation	NG	UNKWN	_	UNKWN	_	-	UNKWN	-	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	N indvation	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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Check BCM circuit. Refer to LAN-196, "BCM Circuit Inspection" .

						CAN DIA	G SUPPOR	RT MNTR						
	sereen						Re	ceive diagn	osis				SELE DIAG	
	Sciech	lnitial diagnosis	lransmit diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	_	-	UNKIN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
А/Т	_	NG	UNKWN	UNKWN	-	_	_	_	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	UNKWN	_	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_		_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	indvation	NG	UNKWN	UNKWN	-	_	-	-	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKIN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	_	-		_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_		_	_	_	-	CAN COMM CIRCUIT (U1000)	_
														PKIC9547E



Case 11

Check steering angle sensor circuit. Refer to LAN-196, "Steering Angle Sensor Circuit Inspection" .

						CAN DIA	G SUPPOF		neie					
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	_	UNKWN	_	UNKWN	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	_	I	Ι	_	UNKWN	UNKWN	-	CÁN COMM CIRCUIT (U1000)	
Display control unit	-	NG	UNKWN	UNKWN	-	-	_	UNKWN	_	UNKWN	_	UNKWN	-	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	1
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	Ι	Ι		_	_	-	CAN COMM CIRCUIT (U1000)	I
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	_	-	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	-	UNKWN	_	-	_	-	CAN COMM CIRCUIT (U1000)	_



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Check unified meter and A/C amp. circuit. Refer to LAN-197, "Unified Meter and A/C Amp. Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM scr	reen	Initial	Transmit		1	I	Red	ceive diagno	osis	1	1		SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	_	-	UNKWN	_		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	_	Ι	1	_		UNKWN	_	CAN COMM CIRCUIT (U1000)	Ι
Display control unit	-	NG	UNKWN	UNKWN	-	_	Ι	UNKWN	_	UNKWN	_	UNKWN	-	Ι
INTELLIGENT KEY	No ndication	_	UNKWN	UNKWN	-	_	-	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No ndication	NG	UNKWN	UNKWN	-	_	-	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	ndication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	-	-	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No ndication	NG	UNKWN	_	UNKWN	_	-	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No ndication	_	UNKWN	UNKWN	_	_	-	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



А Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-198, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

						CAN DIA	NG SUPPOF	RT MNTR						
SELECT SYSTEM	screen	Initial	Transmit				Re	ceive diagno	osis				SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	UNKIN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	_	-	_	UNKWN		-	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	UNKWN	-	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKIN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	V		UNKWN	UNKWN	_	_	-		_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	-	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	_	-	_	-	CAN COMM CIRCUIT (U1000)	_



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Check driver seat control unit circuit. Refer to LAN-199, "Driver Seat Control Unit Circuit Inspection" .

			-			CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen	Initial	Transmit			I	Re	ceive diagn	osis		1		SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	-	_	-	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN	_	UNKWN	-	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	N inditation	NG	UNKWN	-	UNKWN	-	-	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN		_	_	UNKWN	_	Ι	_	_	CAN COMM CIRCUIT (U1000)	_
														PKICOSSSE



Case 15

Check IPDM E/R circuit. Refer to LAN-199, "IPDM E/R Circuit Inspection" .

						CAN DIA	G SUPPOF	T MNTR	sis					
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	RESULTS
ENGINE	_	_	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	Ι	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	_	_	UNKWN	-	UNKWN	-	UNKWN	-	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	_	-	UNKWN	-	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No inclustion	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



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Check CAN communication circuit. Refer to LAN-200, "CAN Communication Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen	Initial	Transmit				Re	ceive diagn	osis	1			SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_		_		_	_		_	UNKIN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	-	-	_	UNKIN		_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_		_	UNKWN	_		_	_
INTELLIGENT KEY	Ne individuation	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	indNation	NG	UNKWN	UNKWN	_	_	_	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	N ind ation	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	V	UNKWN	UNKWN	UNKWN	_	_	-		_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	indNation	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	Ne individuation	-	UNKWN	UNKWN	_	-	_	UNKWN	_	_	_	-	CAN COMM CIROUIT (U1000)	_

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-201</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

						CAN DIA	G SUPPOR	RT MNTR						
SELECT SYSTEM	screen	Initial	Tranomit		1		Re	ceive diagn	osis	1			SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	_	UNKWN	-	UNKWN	UNKIN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	_	_	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	-	UNKWN	_	UNKWN	_	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	I	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	Ι	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		_	UNKIN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	Ι	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	Ι	_	_	-	CAN COMM CIRCUIT (U1000)	_
														PKIC9560E

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-201, "IPDM E/R Ignition Relay</u> <u>Circuit Inspection"</u>.

						CAN DIA	G SUPPOF	RT MNTR						
							Re	ceive diagno	osis					DEOLITO
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	DISPLAY	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULIS
ENGINE	_	_	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	_	-	_	_	_	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	-	-	-	UNKWN	_	UNKWN	_	UNKWN	-	-
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	-	-	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	_	UNKWN	_	_	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_
														PKIC9561E

	[CAN]
CAN SYSTEM (TYPE 3)	PFP:23710
Component Parts and Harness Connector Location	A NKS003MS
Refer to LAN-27, "Component Parts and Harness Connector Location"	
Schematic	NKS003MT
Refer to LAN-28, "Schematic"	
Wiring Diagram — CAN —	NKS003MU C
Refer to LAN-29, "Wiring Diagram — CAN —"	
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Check Sheet

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

SELECT SYSTEM screen ENGINE A/T Display control unit ICC INTELLIGENT KEY indication BCM indication BCM indication LDW indication METER A/C AMP indication ABS AUTO DRIVE POS. indication IPDM E/R indication	Initial diagnosis NG NG NG NG NG NG NG	Transmit diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	ECM UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	TCM UNKWN — UNKWN UNKWN UNKWN	DISPLAY	ICC /e4WD UNKWN — — — — —	Receive I-KEY —	diagnosis BCM /SEC UNKWN UNKWN UNKWN UNKWN	STRG	METER /M&A UNKWN UNKWN UNKWN UNKWN		VDC/TCS /ABS UNKWN UNKWN UNKWN	IPDM E/R UNKWN UNKWN	SELF-DIAG CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM	CAN COMI CIRCUIT (U1001)
ENGINE – A/T – Display control unit – ICC – INTELLIGENT KEY No indication BCM No indication LDW NO METER A/C AMP No indication ABS – AUTO DRIVE POS. No indication IPDM E/R NO	Initial diagnosis NG NG NG NG NG NG NG	Iransmit diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	ECM UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	TCM UNKWN — UNKWN UNKWN UNKWN	DISPLAY	ICC /e4WD UNKWN 	I-KEY	BCM /SEC UNKWN UNKWN UNKWN UNKWN	STRG	METER /M&A UNKWN UNKWN UNKWN UNKWN		VDC/TCS /ABS UNKWN UNKWN UNKWN	IPDM E/R UNKWN UNKWN UNKWN	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) — CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM	CAN COM CIRCUIT (U1001) — — — — — —
ENGINE A/T Display control unit ICC ICC INTELLIGENT KEY No indication BCM No indication LDW No indication METER A/C AMP No indication ABS AUTO DRIVE POS. No indication IPDM E/R No indication	<pre>- NG NG - NG - NG - NG NG NG NG</pre>	UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN		UNKWN UNKWN — — — —	 	UNKWN UNKWN UNKWN UNKWN	- - - -	UNKWN UNKWN UNKWN UNKWN		UNKWN UNKWN UNKWN —	UNKWN 	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) - CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)	CAN COMP CIRCUIT (U1001) — — — — —
A/T Display control unit ICC ICC INTELLIGENT KEY No indication BCM No indication LDW No indication METER A/C AMP No indication ABS AUTO DRIVE POS. No indication IPDM E/R No indication	NG NG NG NG NG	UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	- - - -	UNKWN	- - - -	UNKWN UNKWN UNKWN UNKWN	- - - -	UNKWN UNKWN UNKWN UNKWN		UNKWN — UNKWN —	— UNKWN — —	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)	-
Display control unit — ICC — ICC — INTELLIGENT KEY No indication BCM No indication LDW No indication METER A/C AMP No indication ABS — AUTO DRIVE POS. No indication IPDM E/R No indication	NG NG NG NG NG	UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	- - -	- - -	- - -	UNKWN UNKWN UNKWN	_ _ _	UNKWN — UNKWN UNKWN	— UNKWN —	UNKWN	UNKWN — —	- CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM	-
ICC — INTELLIGENT KEY No indication BCM No indication LDW No indication METER A/C AMP No indication ABS — AUTO DRIVE POS. No indication IPDM E/R No	NG NG NG NG	UNKWN UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	UNKWN — UNKWN UNKWN	_ _	- - -	- - -	UNKWN UNKWN —	_ _ _	 UNKWN UNKWN	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY No indication BCM No indication LDW No METER A/C AMP No indication ABS — AUTO DRIVE POS. No indication IPDM E/R NO	NG - NG NG	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	— UNKWN UNKWN		- -	-	UNKWN	_	UNKWN UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
BCM No indication LDW No indication METER A/C AMP No indication ABS — AUTO DRIVE POS. No indication IPDM E/R No indication	NG — NG NG	UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	 UNKWN UNKWN	_	-	-	_	_	UNKWN	_				
LDW No indication METER A/C AMP No indication ABS — AUTO DRIVE POS. No indication IPDM E/R No	 NG NG	UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	UNKWN UNKWN	_	-	_						UNKWN	CIRCUIT (U1000)	-
METER A/C AMP No indication ABS — AUTO DRIVE POS. No indication IPDM E/R No	NG NG	UNKWN UNKWN UNKWN	UNKWN	UNKWN				UNKWN	-	-	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS — AUTO DRIVE POS. No indication IPDM E/R No indication	NG NG	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	_	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS. No indication IPDM E/R No indication	NG	UNKWN		UNKWN	_	_	_	_	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R No indication			_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
Cumptomo :	-	UNKWN	UNKWN	-	-	_	_	UNKWN	_	_	-	_	_	CAN COMM CIRCUIT (U1000)	-
		Atta SELE	ach cop CT SY	y of STEM				۹ SE	Attach c LECT S	opy of SYSTEN	Λ				

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Initial diagnosis	CAN CIRC 5	METER/M&A									
Transmit diagnosis	CAN CIRC 6	_									
BCM/SEC	CAN CIRC 7	IPDM E/R									
ECM CAN CIRC 8 AN CIRC 3 ECM CAN CIRC 8 - CAN CIRC 9 -											
I CIRC 3 ECM CAN CIRC 8 - I CIRC 4 - CAN CIRC 9 -											
Attach display o CAN DIAG SUPPORT	ι copy of control unit Γ MONITOR check sheet										
-	Transmit diagnosis Transmit diagnosis BCM/SEC ECM	Transmit diagnosis CAN CIRC 6 BCM/SEC CAN CIRC 7 ECM CAN CIRC 8 - CAN CIRC 9 Attach copy of display control unit CAN DIAG SUPPORT MONITOR check sheet									

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CHECK SHEET RESULTS (EXAMPLE)

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-190, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

						CAN	I DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	n	Initial	Transmit					Receive	diagnosis						SELF-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOF	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN		UNKWN	_	UNKWN	-	UNKWN	_	UNKIN	_	UNKVIN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKIN	—		_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	—	_	-	_	UNKWN	_	UNKIN	_	-	UNKIN	_	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKIN	_	_	UNKWN	UNKVN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN		_	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKVN	_	_	_	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_		UNKIN	_	_	_	UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKIN	UNKIN	UNKIN	UNKOVN	UNKWN	UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN		UNKVN	_	-	-	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNK	_	-	_	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication		UNKWN	UNKIN	_	_	_	_	UNKWN	_		_			CAN COMM CIRCUIT (U1000)	_
																PKIC9477E



Check harness between data link connector and unified meter and A/C amp. Refer to <u>LAN-190</u>, "Inspection A <u>Between Data Link Connector and Unified Meter and A/C Amp. Circuit</u>".

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM screer	h	Initial	Transmit					Receive	diagnosis						SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKIN		UNKVIN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMN CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	-	UNKWN		UNKIN	_	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	-	UNKIN	_	_	UNKIN	_	-
сс	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	_	-	UNKWN	บทหูงไท	-	CAN COMM CIRCUIT (U1000)	-
NTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	_	_	_	UNKWN	_	UNKIN	_	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	_	_	UNKIN	CÂN COMM CIRCUIT (U1000)	_
_DW	No indication	_	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	บทหว่าท	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indivision	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKIN	UNKIN	_	_	_	_	UNKOVN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivision	NG	UNKWN	_	UNKWN	-	_	_	UNKWN	_	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indivision	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to LAN-190, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit".

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	n	Initial	Transmit					Receive	diagnosis						SELF-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKVIN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	-	UNKWN	_	_	_	UNKWN	_	UNKIN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	—	-	_	_	UNKWN	_	UNKWN	_	—		_	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	-	_	-	UNKWN	_	_	UNKWN	UNKVN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_		UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	_	_	UNKIN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	_	_	_	UNKWN	_	—	_	UNKIN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	_	UNKVN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN		UNKVN	-	_	_	_	UNKIN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No ind Nation	NG	UNKWN	-	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No ind Nation	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
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Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to <u>LAN-</u> <u>191, "Inspection Between ABS Actuator and Electric Unit (Control Unit) and Driver Seat Control Unit Circuit"</u>.

						CAN	DIAG SU	IPPORT N	NTR							
SELECT SYSTEM scree	n	1	T					Receive	diagnosis						SELE-DIAG	BESUITS
	511	diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	OLLI DINC	
ENGINE	-	_	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	_	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	I	_	UNKWN		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	-	-	_	UNKWN	_	UNKWN	_	-	UNKIN	_	_
сс	-	NG	UNKWN	UNKWN	UNKWN	_	_	-	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
NTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	-	-	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	-	_	UNKWN	_	_	UNKIN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	Ι	UNKWN	_		_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivision	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indivision	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (11000)	_



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Check ECM circuit. Refer to LAN-192, "ECM Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	en	Initial	Turan		-	-		Receive	diagnosis				-		SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKIN	_	UNKVIN	-	UNKIN	_		_	UNKVIN	_	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMN CIROUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	-	-	_	UNKWN	_	UNKWN	-	-	UNKWN	_	_
ICC	_	NG	UNKWN	UNKIN	UNKWN	_	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_		_	CAN COMM CIRCUIT (U1000)	I
BCM	No indication	NG	UNKWN	UNKWN	_	-	_	-	_	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
LDW	No indication	-	_	UNKWN	UNKWN	_	_	_	UNKWN	_	1	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	
METER A/C AMP	No indication	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	1	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	Ι
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	_	_	UNKWN	Ι	_		_	CAN COMM CIRCUIT (U1000)	Ι
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	-	_	UNKWN	_	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Case 6

Check TCM circuit. Refer to LAN-193, "TCM Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	en	Initial	Transmit					Receive	diagnosis						SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN		UNKVN	_	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKIN	_	_	_	UNKVN	_		_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	-	_	UNKWN	_	UNKWN	-	_	UNKWN	_	-
ICC	-	NG	UNKWN	UNKWN	UNKVN	_	_	_	UNKWN	_	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_		UNKWN	_	UNKWN	-	l	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN		1	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN		_	_	_	UNKWN	_	-	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNK	UNKWN	UNKWN	UNKWN	UNKWN	_	Ι	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKVN	_	_	-	_	UNKWN	Ι	Ι	I	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_		_	_	_	UNKWN	_	UNKWN	—	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check display control unit circuit. Refer to LAN-193, "Display Control Unit Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	n							Receive	diagnosis							RESULTS
		lnitial diagnosis	Iransmit diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	
ENGINE	_	-	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMN CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	1	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	Ι	UNKIN	_		-	-	UNKIN	_	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	-	_	-	UNKWN	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	-	_	-	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	-	-	UNKWN	UNKWN	-	_	_	UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKIN	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	-	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	_	UNKWN	_	_	-	_	_	CAN COMM CIRCUIT (U1000)	_



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Case 8

Check ICC unit circuit. Refer to LAN-194, "ICC Unit Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	n	Initial	Transmit					Receive	diagnosis						SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	Ι	UNKWN		UNKWN	_		_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMI CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_		UNKIN	_	_	_	UNKWN	_	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	UNKWN	_	-
ICC	-	NG	UNKWN	UNKUN	UNKUN	-	_	_	UNKIN	_	-	UNKIN	UNKVN	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication		UNKWN	UNKWN	_	-	_	_	UNKWN	-	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	-	_	-	_	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
LDW	No indication	Ι		UNKWN	UNKWN	Ι	_	_	UNKWN	_	Ι	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	Ι	UNKWN	UNKWN	UNKWN	UNKWN	UNKVN	UNKWN	UNKWN	_	Ι	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	Ι	_	_	_	UNKWN	Ι	_		—	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	—	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



Check Intelligent Key unit circuit. Refer to LAN-195, "Intelligent Key Unit Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	en	Initial	T		-			Receive	diagnosis				-	-	SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	1	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	UNKWN	_	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No inditation	_	UNKWN	UNKWN	_	-	_	-	UNKWN	_	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	-	_	-	_	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
LDW	No indication	_	Ι	UNKWN	UNKWN	-	_	-	UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	Ι
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKVN	UNKWN	_	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	Ι
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	_	_	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	_	_	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	-	UNKWN	-	_	-	-	-	CAN COMM CIRCUIT	-



Check data link connector circuit. Refer to LAN-195, "Data Link Connector Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM SCIEN	n							Receive	diagnosis							RESULTS
		Initial diagnosis	lransmit diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		THEODERO
ENGINE	_	-	UNKWN	_	UNKWN	-	UNKWN	-	UNKWN	Ι	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	-	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	_	_	-		UNKWN	-	UNKWN	_		UNKWN	_	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	Ι	Ι	l	UNKWN	Ι	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indivision	I	UNKWN	UNKWN	_	I	I	1	UNKWN	I	UNKWN	Ι	l		CAN COMM CIRCUIT (U1000)	_
BCM	No indivision	NG	UNKWN	UNKWN	_				_		UNKWN		1	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	indication	_	_	UNKWN	UNKWN	_	_		UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indivision	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_	-	_	UNKWN	_	_		_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivision	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indivision	_	UNKWN	UNKWN	_	-	-	_	UNKWN	_	_	-	_	-	CAN COMM CIRCUIT (U1000)	_



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Check BCM circuit. Refer to LAN-196, "BCM Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	en	Initial	Transmit		-	-		Receive	diagnosis					-	SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNK	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	-	_	—	UNKIN	_	UNKWN	_	_	UNKWN	_	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	-	_	_		-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	-	_	_	UNK	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indivision	NG	UNKWN	UNKWN	_	-	_	-	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	-	1	UNKWN	UNKWN	_	_	_		_	1	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		_	Ι	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	_	_	_	UNKWN	Ι	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	_	_		_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	_	_	UNKWN	-	_	_	_	_	CAN COMM CIRCUIT (111000)	_



Check steering angle sensor circuit. Refer to LAN-196, "Steering Angle Sensor Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	'n	Initial	Transmit					Receive	diagnosis		-				SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	-	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMN CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN		_	-	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	_	_	_		UNKWN	_	UNKWN	_	-	UNKWN	_	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	Ι	Ι	l	UNKWN	Ι	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	l	Ι	1	UNKWN	I	UNKWN	Ι	l		CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_				_		UNKWN		1	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	-	UNKWN	UNKWN				UNKWN		_	Ι	UNKWN		CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	Ι	_	Ι	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	_		_	UNKVN	_	_		_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	-	_	UNKWN	-	_	-	_	-	CAN COMM CIRCUIT (U1000)	_



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Case 13

Check LDW camera unit circuit. Refer to LAN-197, "LDW Camera Unit Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	on							Receive	diagnosis							
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	TILOULIU
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMI CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	UNKWN	_	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
LDW	indication	-	Ι	UNKWN	UNKWN	_	-	_	UNKWN	-	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	Ι
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT	_


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А Check unified meter and A/C amp. circuit. Refer to LAN-197, "Unified Meter and A/C Amp. Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scre	en	Initial	Transmit					Receive	diagnosis						SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	_	UNKIN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	_		UNKIN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKIN	_	_	UNKWN	_	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	-	_	-	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKIN	_	_	_	CAN COMM CIFCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_		_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	-	-	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	_	_	UNKWN	_	UNKIN	_	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check ICC sensor circuit. Refer to LAN-198, "ICC Sensor Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM sore	en	1.28.4	T					Receive	diagnosis						SELE-DIAC	BESUITS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMN CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	-	-	_	UNKWN	-	UNKWN	_	_	UNKWN	_	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	-	_	UNKIN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	-	_	-	UNKWN	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	-	_	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	_	_	_	UNKWN	_	—	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	—	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	_	-	_	UNKWN	_	_	_	—	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	_	_	UNKWN	-	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	-	_	_	UNKWN	-	_	-	_	_	CAN COMM CIRCUIT	-



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Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-198</u>, "ABS Actuator and Electric Unit (<u>Control Unit</u>) <u>Circuit Inspection</u>".

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scre	en	Initial	Transmit		•		1	Receive	diagnosis						SELF-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMN CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	l	_		UNKWN		UNKWN	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	-	UNKWN	_	UNKWN	_	_	UNKWN	_	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	-	_	Ι	UNKWN	-	Ι	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_		_	-	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	-	-	UNKWN	UNKWN	_	_	Ι	UNKWN	-	-	-	UNIWN	-	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	_	UNIWN	_	CAN COMM CIPOUIT (U1000)	_
ABS	-	V		UNKIN	UNKWN	-	-		_	UNKVN	_	-	-	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check driver seat control unit circuit. Refer to LAN-199, "Driver Seat Control Unit Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	n	1.28.4	T					Receive	diagnosis						SELE-DIAG	BESUITS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMI CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	_	-	-	_	UNKWN	_	UNKWN	_	_	UNKWN	_	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	-	_	-	UNKWN	_	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	-	_	_	_	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	I	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivition	NG	UNKWN	_	UNKWN	-	_	_	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT	_



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Case 18

Check IPDM E/R circuit. Refer to LAN-199, "IPDM E/R Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	en	Initial	Transmit					Receive	diagnosis						SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	Ι	UNKWN	-	UNKWN		UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	Ι	Ι	UNKWN	l	_	_	UNKWN		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	-	-	-	UNKWN	_	UNKWN	_	-	UNKWN	_	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	l	l		1	UNKWN	_	UNKWN			_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN			-		_	_	UNKWN	-	-	UNKIN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	-	_	1	UNKWN	_	—	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	-	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	-	-	UNKWN	_	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	indication	_	UNKWN	UNKWN	_	-	_	_	UNKWN	_	_	_	_	_	CAN COMM CIPOUIT (111000)	_



Check CAN communication circuit. Refer to LAN-200, "CAN Communication Circuit Inspection" .

						CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	en	Initial	Transmit					Receive	diagnosis	1					SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_		_		_	UNKWN	_	UNKWN	_	UNKIN	_	UNKIN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKIN	_	UNKIN	_	CAN COMM CIRCUIT (U1000)	I
Display control unit	_	NG		UNKUN	_	_	_	_	UNK	_	UNKVIN	_	_	UNKWN	_	_
ICC	_	NG	UNKVIN	UNKIN	UNKVN	_	_	_	UNKIN	-	_	UNKIN	บทเรงโท	_	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	Notindication	-	UNKWN	UNKWN	_	_	_	_	UNKWN	-	UNKWN	_	_	_	CAN COMM CIPOUIT (U1000)	-
BCM	indication	NG	UNKWN	UNKWN	_	_	_	-	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	indication	-	_	UNKWN	UNKWN	_	-	_	UNKWN	_	_	_	UNKWN	_	CAN COMM CIPOUIT (U1000)	-
METER A/C AMP	indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	
ABS	_	V	UNKIN	UNKIN	UNKVN	_	_	_	_	UNKIN	_	_	_	_	CAN COMM CIRCUIT (U1000)	Ι
AUTO DRIVE POS.	indication	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-201</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

			1			CAN	DIAG SU									
SELECT SYSTEM scree	en	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	_	UNKWN	_		_	UNKWN	_	UNKWN	_	UNKWN	_		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	_	UNKWN	_	UNKWN	-	_	UNKWN	_	_
ICC	-	NG	UNKWN	UNKWN	UNKVN	_	_	_	UNKWN	-	_	UNKWN	UNKVN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_		_	_	UNKWN		_	UNKWN	CAN COMM CIRCUIT (U1000)	
LDW	No indication	_	_	UNKWN	UNKVN	_	_	_	UNKWN	_	_		UNKIN	_	CAN COMM CIPOUIT (U1000)	
METER A/C AMP	No indication	-	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	-	_	-	UNKIN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	-	_	_	UNKWN	_	-	-	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_		-	-	_	UNKWN	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-201, "IPDM E/R Ignition Relay</u> <u>Circuit Inspection"</u>.

			1	1		CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM scree	n	Initial	Transmit			1		Receive	diagnosis		r		r		SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOF	VDC/TCS ABS	IPDM E/R		
ENGINE	-	-	UNKWN	_	UNKWN	_	UNKWN	-	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	_	_	_	_	_	_	1	_	—	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	—	—	_	_	UNKWN		UNKWN	_	-	UNKWN	_	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	_	_	_	UNKWN	-	-	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	_	UNKWN	-	_	_	_	_	_	_	-	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
			-	-	-	-	-				-	-	-	-		
																PKIC9497E

	[CAN]
CAN SYSTEM (TYPE 4)	PFP:23710
Component Parts and Harness Connector Location	A NKS003MV
Refer to LAN-27, "Component Parts and Harness Connector Location"	
Schematic	NKS003MW
Refer to LAN-28, "Schematic"	
Wiring Diagram — CAN —	NKS003MX C
Refer to LAN-29, "Wiring Diagram — CAN —"	
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Check Sheet

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Check sheet table	Ð													
						CAN DIA	G SUPPOR	RT MNTR						
SELECT SYSTEM	screen	Initial	Transmit				Re	ceive diagn	osis				SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
А/Т	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	-	UNKWN	_	—
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	1	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	1	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	Ι	_	CAN COMM CIRCUIT (U1000)	_
Symptoms :														
		г				_								
			At	tach cop	y of				Attach	copy of				
			SEL	ECT SY	STEM				SELECT	SYSTE	M			

Revision: 2006 December

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Display control unit Tra	nslation Sheet: Rewrite the follow	ing names, and put a check mark on th	e check sheet table.
Confirmation/Adjustment Display	Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display
CAN COMM	Initial diagnosis	CAN CIRC 5	METER/M&A
CAN CIRC 1	Transmit diagnosis	CAN CIRC 6	_
CAN CIRC 2	BCM/SEC	CAN CIRC 7	IPDM E/R
CAN CIRC 3	ECM	CAN CIRC 8	_
CAN CIRC 4	_	CAN CIRC 9	—
	Attac display CAN DIAG SUPPOR	h copy of control unit T MONITOR check sheet	
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CHECK SHEET RESULTS (EXAMPLE)

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

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Check harness between TCM and data link connector. Refer to <u>LAN-190</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

						CAN DIA	G SUPPOF	T MNTR						
SELECT SYSTEM	screen	Initial	Transmit	<u> </u>		<u> </u>	Rec	beive diagno	usis				SELF-DIAG	G RESULTS
I		diagnosis (diagnosis	ECM	тсм	DISPLAY	/4WD	/SEC	STRG	/M&A	/ABS	E/R		
ENGINE		_	UNKWN	_	UNKWN	_	UNKWN						CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_		UNKWN	UNK	_	CAN COMM CIRCUIT (U1000)	_
Display control unit		NG	UNKWN	UNKWN	_						_		_	_
ALL MODE AWD/4WD		NG	UNKWN	UNKWN								_		
BCM	No indication	NG	UNKWN	UNKWN	-	-	_	-	_	UNKWN	[_]	UNKWN	CAN COMM CIRCUIT (U1000)	
METER A/C AMP	No indication	_	UNKWN					UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN		-		-	UNKWN	-	_	-	CAN COMM CIROUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_		-	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	- 1	UNKWN	UNKWN	_	-	_	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	_



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Check harness between data link connector and unified meter and A/C amp. Refer to <u>LAN-190, "Inspection</u> <u>Between Data Link Connector and Unified Meter and A/C Amp. Circuit"</u>.

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen	1	-				Re	ceive diagno	osis				SELE-DIAG	BESUITS
	ooroon	diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DING	
ENGINE	-	_	UNKWN	Ι	UNKWN	_	UNKWN	UNKWN	-				CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_			_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	UNKWN	_		_		_	—
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	_	_	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	-	_		_	UNKVN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	N ind ation	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKIN	_		_		_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	indivation	NG	UNKWN	Ι	UNKWN	_	_	UNKWN	_	UNKWN	_	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	Nr indivation	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Case 3

Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to <u>LAN-190, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit)</u> <u>Circuit"</u>.

						CAN DIA	G SUPPOR	RT MNTR						
SELECT SYSTEM	screen	Initial	Tranamit				Re	ceive diagn	osis				SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	-	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN		Ι	UNKWN		_	CAN COMM CIRCUIT (U1000)	Ι
Display control unit	_	NG	UNKWN	UNKWN	_	-	_	UNKWN	1	UNKWN	_		_	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	-	-	-	UNKWN		-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	-	_	_	_	UNKWN	_	UNKIN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	Ι	_		_	CAN COMM CIRCUIT (U1000)	Ι
ABS	_	NG	UNKWN	UNKWN		_				_	_	_	CAN COMM CIRCUIT (U1000)	1
AUTO DRIVE POS.	indivation	NG	UNKWN	_	UNKWN	_	_	UNKWN	Ι	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	Ι
IPDM E/R	Ng indination	_	UNKWN	UNKWN	_	-	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to <u>LAN-191</u>, "Inspection Between ABS Actuator and Electric Unit (Control Unit) and Driver Seat Control Unit Circuit".

						CAN DIA	G SUPPOF	T MNTR	neie					
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	i RESULTS
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	—
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_		_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_		CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	indivation	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	Ng ind nation	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



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Case 5

Check ECM circuit. Refer to LAN-192, "ECM Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen	le Well	Transmit				Re	ceive diagno	osis				SELE-DIAG	RESULTS
	0010011	diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIO	
ENGINE	-	-		_		_		UNKWN	-		UNKIN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	Ι	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	UNKWN	-	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNION	_	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNION	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	-	-	_	-	CAN COMM CIRCUIT (U1000)	_



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Check TCM circuit. Refer to LAN-193, "TCM Circuit Inspection" .

SELECT SYSTEM so	reen													
OLLEOT OTOTEM SC		1.20.1	-				Re	ceive diagno	osis				SELE-DIAG	RESULTS
	510011	diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN	_		-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_		_	_		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	UNKWN	-	UNKWN	-	UNKWN	-	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	_	-	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	_	_	_	-	-	UNKWN	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN		-	UNKWN	-	UNKWN	-	Ι	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	-	-	_	CAN COMM CIRCUIT (U1000)	_



Case 7

Check display control unit circuit. Refer to LAN-193, "Display Control Unit Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR	osis					
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	-	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG			_	_	_		-		-		-	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_		UNKWN	Ι	UNKWN	Ι	Ι	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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Check AWD control unit circuit. Refer to LAN-194, "AWD Control Unit Circuit Inspection" .

						CAN DIA	G SUPPOR	RT MNTR						
							Re	ceive diagno	osis					
SELECT STOTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	I NEGULIG
ENGINE	-	_	UNKWN	_	UNKWN	_		UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_		_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN	_	UNKWN	-	_
ALL MODE AWD/4WD	-	NG		_	_	_	_	_	_	-	_	-	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-		-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_
														PKIC9578E



Case 9

Check data link connector circuit. Refer to LAN-195, "Data Link Connector Circuit Inspection" .

						CAN DIA	G SUPPOF	TMNTR						
SELECT SYSTEM	screen	1-14-1	Transmit		-	-	Red	eive diagno	osis				SELE-DIAG	BESULTS
	ooroon	diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINC	
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	—
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indivision	NG	UNKWN	UNKWN	_	_	_	-	_	UNKWN	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indivision	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivision	NG	UNKWN	-	UNKWN	_	_	UNKWN	-	UNKWN	Ι	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indivision	_	UNKWN	UNKWN	_	_	_	UNKWN	_	-	_	-	CAN COMM CIRCUIT (U1000)	_



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Check BCM circuit. Refer to LAN-196, "BCM Circuit Inspection" .

		I												
						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	-	_	UNKWN		UNKWN	_	UNKWN	UNKIN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	-	UNKOWN	_	UNKWN	-	UNKWN	-	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	_	-	_	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indivision	NG	UNKWN	UNKWN	_	_	_	-	_	UNKWN	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNK	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	UNKWN	-	Ι	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	Ι	UNKWN	_	_	UNKUN	_	UNKWN	Ι	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKUN	_	_	Ι	-	CAN COMM CIRCUIT (U1000)	_
														PKIC9582E



Check steering angle sensor circuit. Refer to LAN-196, "Steering Angle Sensor Circuit Inspection" .

						CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen	Initial	Transmit			-	Red	ceive diagno	osis				SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	Ι	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	—
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_		_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-		-	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



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Check unified meter and A/C amp. circuit. Refer to LAN-197, "Unified Meter and A/C Amp. Circuit Inspection" .

				1		CAN DIA	G SUPPOF	RT MNTR						
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	B RESULTS
ENGINE	-	-	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKIN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN		_	UNKIN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	UNKWN	_		_	UNKWN	-	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	-	-	-	UNK	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	UNKIN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	indivation	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKIN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	-	_	_	-	CAN COMM CIRCUIT (U1000)	_



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Case 13

А Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-198, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

						CAN DIA	G SUPPOF		neie					
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	-	-	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	_	-	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	-	Ι	UNKWN	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	1	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	-	V	UNKWN			_		-	UNKIN	-	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	Ι	UNKWN	Ι	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	_



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Check driver seat control unit circuit. Refer to LAN-199, "Driver Seat Control Unit Circuit Inspection" .

SELECT SYSTEM Screen Initial diagnosis Transmit Transmitana Transmit Transmit Transmit Transmit Transmi Tran							CAN DIA	G SUPPOP	RT MNTR						
Juntal diagnosis Instanti diagnosis Instanti diagnosis Instanti diagnosis ICM DISPLAY AWD /AWD BCM STRG METER /MEA VDC/TCS IPDM CAN COMM CAN		ecroon						Ree	ceive diagno	osis				SELE-DIAG	
ENGINE - - UNKWN - UNKWN	GELEOF GTOTEM	3010011	lnitial diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		THEODERO
A/T - NG UNKWN UNKWN - - UNKWN - - UNKWN UNKWN - CAN COMM CIRCUIT - Display control unit - NG UNKWN UNKWN - - UNKWN - UNKWN - - UNKWN - - CAN COMM CIRCUIT - ALL MODE AWD/4WD - NG UNKWN UNKWN - - - - UNKWN - - - - UNKWN - - - UNKWN - - - UNKWN - - CAN COMM CIRCUIT - - CAN COMM CIRCUIT - UNKWN - - CAN COMM CIRCUIT - <t< td=""><td>ENGINE</td><td>-</td><td>-</td><td>UNKWN</td><td>_</td><td>UNKWN</td><td>_</td><td>UNKWN</td><td>UNKWN</td><td>_</td><td>UNKWN</td><td>UNKWN</td><td>UNKWN</td><td>CAN COMM CIRCUIT (U1000)</td><td>CAN COMM CIRCUIT (U1001)</td></t<>	ENGINE	-	-	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
Display control unit - NG UNKWN UNKWN - - UNKWN - UNKWN - UNKWN - - - - - UNKWN - - - - UNKWN - - - - UNKWN UNKWN - - - - UNKWN UNKWN - - - - - - UNKWN UNKWN - - - - - - - - UNKWN UNKWN - - - - UNKWN UNKWN UNKWN UNKWN - - UNKWN UNKWN - - - UNKWN - - - UNKWN - - - UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN - - - UNKWN	A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	-	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD - NG UNKWN UNKWN - UNKWN UNKWN - - - UNKWN - - - UNKWN - - - UNKWN - - UNKWN UNKWN UNKWN UNKWN - UNKWN - UNKWN UNKWN UNKWN UNKWN - UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	Display control unit	-	NG	UNKWN	UNKWN	_	_	-	UNKWN	-	UNKWN	Ι	UNKWN	-	-
BCM No indication NG UNKWN UNKWN — — — — — UNKWN — UNKWN — CAN COMM CIRCUIT — METER A/C AMP No indication — UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN — — UNKWN — — CAN COMM CIRCUIT — ABS — NG UNKWN UNKWN UNKWN — UNKWN — UNKWN — — CAN COMM CIRCUIT — ABS — NG UNKWN UNKWN UNKWN — UNKWN — UNKWN — — CAN COMM CIRCUIT — AUTO DRIVE POS. No indication NG UNKWN — UNKWN — UNKWN — — — CAN COMM CIRCUIT — CAN COMM CIRCUIT — _ CAN COMM CIRCUIT _	ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	-	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP No indication - UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN - - UNKWN - CAN COMM CIRCUIT - ABS - NG UNKWN UNKWN UNKWN - UNKWN - - - CAN COMM CIRCUIT - AUTO DRIVE POS. NG indication NG UNKWN - UNKWN - UNKWN - - CAN COMM CIRCUIT - IPDM E/R No indication - UNKWN UNKWN - - - UNKWN - - CAN COMM CIRCUIT - IPDM E/R No indication - UNKWN UNKWN - - - - CAN COMM CIRCUIT -	BCM	No indication	NG	UNKWN	UNKWN	_	_	_	-	_	UNKWN	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS - NG UNKWN UNKWN - UNKWN - UNKWN - - - CAN COMM CIRCUIT (U1000) AUTO DRIVE POS. NG indivation NG UNKWN - UNKWN - UNKWN - - CAN COMM CIRCUIT - IPDM E/R No indication - UNKWN UNKWN - - UNKWN - - CAN COMM CIRCUIT -	METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS. No indication NG UNKWN — UNKWN — UNKWN — UNKWN — — CAN COMM CIRCUIT (U1000) IPDM E/R No indication — UNKWN — — UNKWN — — — — CAN COMM CIRCUIT (U1000) —	ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R No UNKWN UNKWN UNKWN CAN COMM CIRCUIT (U1000)	AUTO DRIVE POS.	N indivation	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	Ι	_	CAN COMM CIRCUIT (U1000)	_
	IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	-



Case 15

Check IPDM E/R circuit. Refer to LAN-199, "IPDM E/R Circuit Inspection" .

						CAN DIA	G SUPPOF							
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	-	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	UNKWN	-	UNKWN	_		-	—
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_		CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
PDM E/R	N ind N ation	-	UNKWN	UNKWN	_	_	_	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



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Check CAN communication circuit. Refer to LAN-200, "CAN Communication Circuit Inspection" .

			CAN DIAG SUPPORT MNTR											
SELECT SYSTEM	screen	1	-				Re	ceive diagno	osis				SELE-DIAG	BESUITS
	5010011	diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	TILOULIO
ENGINE	-	-		_	UNKWN	-	UNKWN	UNKWN	-				CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	_	_			_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNION	UNKWN	-	_	_	UNKWN	_		-		-	_
ALL MODE AWD/4WD	-	NG	UNKWN	_	-	_	_	-	_	-	-	_	CAN COMM CIRCUIT (U1000)	-
BCM	N indivation	NG	UNKWN	UNKWN	-	_	_	_	-	UNKWN	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No inclustion	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	V		UNKWN		_		-	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	indivation	NG	UNKWN	_	UNKWN	_	_	UNKWN	-	UNKWN	Ι	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	N indivation	_	UNKWN	UNKWN	-	_	_	UNKWN	_	-	-	_	CAN COMM CIRCUIT (U1000)	_

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Case 17

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-201</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

			1	CAN DIAG SUPPORT MNTH										
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	RESULTS
ENGINE	_	-	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	-	I	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	
Display control unit	_	NG	UNKWN	UNKWN	_	_	-	UNKWN	_	UNKWN	_	UNKWN	-	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_		UNKWN		-	CAN COMM CIRCUIT (U1000)	1
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_		_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	_	UNKWN	_	-	_	-	CAN COMM CIRCUIT (U1000)	_

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-201, "IPDM E/R Ignition Relay</u> <u>Circuit Inspection"</u>.

						CAN DIA	G SUPPOF	T MNTR						
							Re	ceive diagno	osis					
SELECT STSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULIS
ENGINE	_	_	UNKWN	_	UNKWN	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	_	_	_	_	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	UNKWN	I	UNKWN	Ι	UNKWN	_	I
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	-	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	Ι	-	UNKWN	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	Ι
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	_	UNKWN	-	-	-	-	-	Ι	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	UNKWN	_	UNKWN	-	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	UNKWN	_	-	-	_	CAN COMM CIRCUIT (U1000)	_

	[CAN]
CAN SYSTEM (TYPE 5)	PFP:23710
Component Parts and Harness Connector Location	A NKS003MY
Refer to LAN-27, "Component Parts and Harness Connector Location"	
Schematic	NKS003MZ
Refer to LAN-28, "Schematic"	
Wiring Diagram — CAN —	NKS003NO C
Refer to LAN-29, "Wiring Diagram — CAN —"	
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Check Sheet

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Check sheet table	Э														
						CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	Initial	Transmit			1		Receive	e diagnosis	3				SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	TCM	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
А/Т	-	NG	UNKWN	UNKWN	-	_	UNKWN	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	-	_	_	_	UNKWN	_	UNKWN	_	UNKWN	_	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	_	_	_	UNKWN	-	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	_	_	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	_	_	UNKWN	-	-	_	_	CAN COMM CIRCUIT (U1000)	-
Cumutana i															
Symptoms :															
				Attach c	opy of				A	Attach co	opv of				
			SE	ELECT S	SYSTEM	л			SE	LECT S	YSTEN				
								L							

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Check sheet table Display	Confirmation/Adjustment Display	Check sheet table Display										
Initial diagnosis	CAN CIRC 5	METER/M&A										
Transmit diagnosis	CAN CIRC 6	_										
BCM/SEC	CAN CIRC 7	IPDM E/R										
ECM	CAN CIRC 8	_										
_	CAN CIRC 9	_										
Attach copy of display control unit CAN DIAG SUPPORT MONITOR check sheet												
	Initial diagnosis Transmit diagnosis BCM/SEC ECM	Initial diagnosis CAN CIRC 5 Transmit diagnosis CAN CIRC 6 BCM/SEC CAN CIRC 7 ECM CAN CIRC 8 - CAN CIRC 9 Attach copy of display control unit CAN DIAG SUPPORT MONITOR check sheet										

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CHECK SHEET RESULTS (EXAMPLE)

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-190, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

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						CAI	V DIAG SU	Receive	e diagnosis	;					
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	A RESULTS
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKIN	_	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNK	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	UNKIN	_	UNKWN	-		_	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	_	-	_	_	_	-	-	Ι	_	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	_	-	-	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_		_	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	-	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	-	_	UNKWN	_	-	—	_	CAN COMM CIRCUIT (U1000)	—
															PKIC9600E


Check harness between data link connector and unified meter and A/C amp. Refer to <u>LAN-190, "Inspection</u> A <u>Between Data Link Connector and Unified Meter and A/C Amp. Circuit"</u>.

				1		CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	_	UNKWN		UNKWN	_	UNKWN	_	UNKWN	_		UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN		_	UNKWN	_	_	_		UNKIN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	1	_	_	_	UNKWN	-	UNKWN	_		_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN		_	_	_		_	_	_	Ι	_	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	1	_	_	_	UNKWN	_		_	Ι	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	1	_	_	_		-		_		CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indiation	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_		_			_	_	Ι	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indi N tion	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	Ι	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indiation	_	UNKWN	UNKWN	-	-	_	_	UNKWN	_	-	_	Ι	CAN COMM CIRCUIT (U1000)	_



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Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to LAN-190, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit".

				1		CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	Initial	Transmit		1			Receive	e diagnosis I	; 	1	1		SELF-DIAC	G RESULTS
		diagnosis	diagnosis	ECM	ТСМ	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN		UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN		_	_	UNKWN			CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	-	_	UNKWN	_	UNKWN	_	UNK	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	_	-	-	_	_	UNKWN			CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	_	-	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	_	_	_	UNKWN	-	UNKIN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKIN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN		_		_	_	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	indivation	NG	UNKWN	_	UNKWN	_	-	_	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indivition	_	UNKWN	UNKWN	_	_	-	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Case 4

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А Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to LAN-191, "Inspection Between ABS Actuator and Electric Unit (Control Unit) and Driver Seat Control Unit Circuit".

						CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	1-11-1	T					Receive	e diagnosis		_			SELE-DIAG	BESUITS
	3010011	lnitial diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	-	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	-	UNKWN	_	UNKWN	_		_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	-	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	-	-	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	-	_	_	UNKWN	_		CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	-	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indivision	NG	UNKWN	-	UNKWN	_	-	-	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indivision	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	_



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Check ECM circuit. Refer to LAN-192, "ECM Circuit Inspection" .

						CA	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	Initial	Transmit					Receive	e diagnosis	5				SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_		_		_		_		_	UNKIN	UNKIN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKIN	_	-	UNKWN		_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	I
Display control unit	-	NG	UNKWN	UNKIN	_	_	_	-	UNKWN	_	UNKWN	_	UNKWN	_	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKIN	-	_	_	-	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKIN	-	_	-	-	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKIN	-	_	-	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKIN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	-	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	_



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Case 6

Check TCM circuit. Refer to LAN-193, "TCM Circuit Inspection" .

						CAI	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	scroon							Receive	e diagnosis	;				SELE-DIAG	BESUITS
SELECTOTOTEM	3010011	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	JELI DIAC	THEODERS
INGINE	-	_	UNKWN	_	UNKIN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
VT	_	NG	UNKWN		_	_		_	_	_	UNKIN	UNK	_	CÂN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	-	-	UNKWN	_	UNKWN	-	UNKWN	-	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	-	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
NTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	-	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
3CM	No indication	NG	UNKWN	UNKWN	_	_	-	_	_	_	UNKWN	_	UNKWN	CÁN COMM CIRCUIT (U1000)	_
IETER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	_	_	_	CÁN COMM CIRCUIT (U1000)	_
NUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	-	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
PDM E/R	No indication	_	UNKWN	UNKWN	_	_	-	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check display control unit circuit. Refer to LAN-193, "Display Control Unit Circuit Inspection" .

						CAI	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	Receive	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKUN	UNKIN	_	_	_	_	UNKIN	_	UNK	_		_	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	-	_	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	-	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	-	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
															PKIC9612E



Case 8

Check AWD control unit circuit. Refer to LAN-194, "AWD Control Unit Circuit Inspection" .

						CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	1	T					Receive	e diagnosis					SELE-DIAG	BESUITS
	boloon	diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	_	UNKWN	_	UNKWN	_		_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_		_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ALL MODE AWD/4WD	-	NG		_	_	_	_	_	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	-	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_		_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	_	-	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check Intelligent Key unit circuit. Refer to LAN-195, "Intelligent Key Unit Circuit Inspection" .

						CA	N DIAG SU	PPORT M	NTR						
	ooroop		_					Receive	e diagnosis						
SELECT STOTEM	Screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	I NEGULIO
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	-	UNKWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indivition	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	-	Ι	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_		_	_	_	_	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKIN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	_	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	_	_	_	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
															PKIC9616E



Case 10

Check data link connector circuit. Refer to LAN-195, "Data Link Connector Circuit Inspection" .

						CAN	I DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen							Receive	diagnosis					SELE-DIAG	BESUITS
SELECT STOTEM	Scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	JELF-DIAC	INEGULIG
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_		_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	-	-	UNKWN	_	UNKWN	-	UNKWN	-	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indivition	_	UNKWN	UNKWN	_	_	-	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indiation	NG	UNKWN	UNKWN	_	_	_	_	-	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	indivition	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	-	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indivition	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	_



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Check BCM circuit. Refer to LAN-196, "BCM Circuit Inspection" .

SELECT SYSTEM Survey Initial diagnosis Tansmit for the select s							CA	N DIAG SU	PPORT M	NTR						
DELECTOTOTICIDATION Initial mannament diagnosis ECM TCM DISPLAY AWD /AWD I-KEY BCM /SEC STRG METER /MAA VDC/TCS IPDM CAN COMM CAN CC ENGINE — — UNKWN — UNKWN — UNKWN — UNKWN — UNKWN — UNKWN UNKWN — — — UNKWN UNKWN — ID UNKWN — ID UNKWN ID INKWN ID UNKWN ID	SELECT SYSTEM	scroon							Receive	e diagnosis	;				SELE-DIAC	
ENGINE - - UNKWN - UNKWN - UNKWN - UNKWN - UNKWN UNKWN - - UNKWN - - UNKWN - - UNKWN - - - UNKWN -		3010011	Initial diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		INCOULIO
AT - NG UNKWN UNKWN - - - - UNKWN UNKWN - CAN COMM - - CAN COMM - - - UNKWN UNKWN - CAN COMM - - - UNKWN UNKWN UNKWN - CAN COMM - - - - - - - UNKWN UNKWN - CAN COMM CIRCUIT - - - - - UNKWN - Instruction -	ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_		_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIROUIT (U1001)
Display control unit - NG UNKWN UNKWN - - - UNKWN - UNKWN - UNKWN - UNKWN - - - - - UNKWN - UNKWN - UNKWN - UNKWN - UNKWN - UNKWN - CAN COMM CAN COMM CAN COMM CIRCUIT - <th< td=""><td>A/T</td><td>_</td><td>NG</td><td>UNKWN</td><td>UNKWN</td><td>_</td><td>_</td><td>UNKWN</td><td>_</td><td>_</td><td>_</td><td>UNKWN</td><td>UNKWN</td><td>_</td><td>CAN COMM CIRCUIT (U1000)</td><td>_</td></th<>	A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD - NG UNKWN UNKWN - - - - - UNKWN UNKWN - CAN COMM CIRCUIT - INTELLIGENT KEY NO - UNKWN UNKWN - - - UNKWN - CAN COMM CIRCUIT - INTELLIGENT KEY NO - UNKWN UNKWN - - - UNKWN - - CAN COMM CIRCUIT - BCM Indication NG UNKWN UNKWN - - - - UNKWN - CAN COMM CIRCUIT - BCM Indication NG UNKWN UNKWN - - - - UNKWN CAN COMM CIRCUIT - METER A/C AMP NO ING UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN - - UNKWN - CAN COMM CIRCUIT - (U1000) CAN COMM CIRCUIT - (U1000) CIRCUIT - (U1000) CIRCUIT -	Display control unit	-	NG	UNKWN	UNKWN	-	_	_	-	UNK	_	UNKWN	_	UNKWN	-	_
INTELLIGENT KEY NO INDICATION - UNKWN UNKWN UNKWN - UNKWN CAN COMM BCM NG UNKWN UNKWN UNKWN - UNKWN	ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM NG UNKWN UNKWN - - - - - - - Indication CAN COMM CAN COMM METER A/C AMP NO - UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN - - UNKWN - CAN COMM CIRCUIT - METER A/C AMP NO - UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN - - - UNKWN - CAN COMM CIRCUIT - ABS - NG UNKWN UNKWN UNKWN - UNKWN - - UNKWN - - CAN COMM CIRCUIT - AUTO DRIVE POS. NO NG UNKWN - UNKWN - - - UNKWN - - CIRCUIT - (U1000) (U1000) (U1000) - U1000) <td>INTELLIGENT KEY</td> <td>No indication</td> <td>_</td> <td>UNKWN</td> <td>UNKWN</td> <td>_</td> <td>_</td> <td>-</td> <td>_</td> <td></td> <td>_</td> <td>UNKWN</td> <td>_</td> <td>-</td> <td>CAN COMM CIRCUIT (U1000)</td> <td>_</td>	INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	-	_		_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP No indication - UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN - - UNKWN - CAN COMM CIPUIT (U1000) ABS - NG UNKWN UNKWN UNKWN - - UNKWN - - CAN COMM CIPUIT - ABS - NG UNKWN UNKWN - UNKWN - - UNKWN - - CAN COMM CIRCUIT - AUTO DRIVE POS. NG indication NG UNKWN - UNKWN - - UNKWN - - CAN COMM CIRCUIT - AUTO DRIVE POS. NG UNKWN - UNKWN - - - CAN COMM CIRCUIT - CON COMM - - - - UNKWN - - - CAN COMM CIRCUIT -	BCM	No indivision	NG	UNKWN	UNKWN	-	_	-	-	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS - NG UNKWN UNKWN - UNKWN - - UNKWN - - CAN COMM CIRCUIT (U1000) - AUTO DRIVE POS. No indication NG UNKWN - UNKWN - - - UNKWN - - CAN COMM CIRCUIT (U1000) - - - - - - CAN COMM CIRCUIT (U1000) - - - - - - - CAN COMM CIRCUIT (U1000) - <	METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		_	_	UNKWN	_	CAN COMM CIPCUIT (U1000)	_
AUTO DRIVE POS. No indication NG UNKWN - UNKWN UNKWN - UNKWN CAN COMM CIRCUIT - (U1000)	ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
	AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	_	-	-		-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R NO - UNKWN UNKWN UNKWN CIRCUIT - (U1000)	IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_		_	_	_	_	CAN COMM CIRCUIT (U1000)	_



Case 12

Check steering angle sensor circuit. Refer to LAN-196, "Steering Angle Sensor Circuit Inspection" .

						CAN	I DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	La Mart	T					Receive	e diagnosis					SELE-DIAC	BESULTS
	3010011	Initial diagnosis	diagnosis	ECM	ТСМ	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	-	-	UNKWN	_	UNKWN	_	UNKWN	-	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	-	UNKIN	-	-	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	_	_	_	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check unified meter and A/C amp. circuit. Refer to LAN-197, "Unified Meter and A/C Amp. Circuit Inspection" .

						CAI	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	1	T					Receive	e diagnosis	3				SELE-DIAG	BESUITS
	our our	diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_		UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	_	_	-	_	UNKWN	-		_	UNKWN	-	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	-	_	-	-		UNKWN	Ι	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	-	-	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	-	-	-		_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indivition	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	UNKWN	-	_	Ι	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	-	-	UNKWN	-		_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
															PKIC9624E



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Case 14

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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-198</u>, "ABS Actuator and Electric Unit (<u>Control Unit</u>) <u>Circuit Inspection</u>".

						CAN	I DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	_	UNKWN		UNKWN		UNKWN	_	UNKWN		UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN		_	UNKWN	_	_	_	UNKWN	UNKIN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	UNKWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	_	_	_	-	_	UNKWN	UNKIN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	-	_	-	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKIN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	V		UNKWN		_	UNKIN	_			_	-	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	_	-	UNKWN	_	-	-	_	CAN COMM CIRCUIT (U1000)	—



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Check driver seat control unit circuit. Refer to LAN-199, "Driver Seat Control Unit Circuit Inspection" .

						CA	N DIAG SU	PPORT M	NTR						
								Receive	e diagnosis	;					
SELECT STOLEM	Screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	I NEGULIG
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	-	UNKWN	_	UNKWN	_	UNKWN	-	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	-	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	-	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	_	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	Ng ind ation	NG	UNKWN	_	UNKWN	_	-	-	UNKWN	_	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	_
															PKIC9628E



Case 16

Check IPDM E/R circuit. Refer to LAN-199, "IPDM E/R Circuit Inspection" .

						CAN	N DIAG SU	PPORT M	NTR						
	scroop							Receive	diagnosis					SELE-DIAG	
SELECT STOTEM	scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	JELF-DIAC	THEOULIO
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_		_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	-	_	_	-	UNKWN	_	UNKWN	-		-	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	_		CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	-	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	-	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indivation	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check CAN communication circuit. Refer to LAN-200, "CAN Communication Circuit Inspection" .

						CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	Initial	Tuo no mit					Receive	e diagnosis	3				SELE-DIAG	BESULTS
0112010101011	00.0011	diagnosis	diagnosis	ECM	ТСМ	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_		_	UNKIN	_		_		_	UNKWN	UNKIN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_		_	_	-		UNKVN	-	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKIN	UNKIN	-	_	-	-		-		-	UNKVN	-	_
ALL MODE AWD/4WD	-	NG		_	_	_	-	_	_	-	_	_	_	CAN COMM CIPOUIT (U1000)	_
INTELLIGENT KEY	N/ indivation	_	UNKWN	UNKWN	_	_	-	-	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No individuation	NG	UNKWN	UNKWN	_	_	-	_	_	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indivision	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	V	UNKIN	UNKWN	UNKIN	_		_	_		-	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	N/ inditation	NG	UNKWN	_	UNKWN	_	-	_	UNKWN	-	UNKWN	_	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No individuation	_	UNKWN	UNKWN	_	_	-	_	UNKWN	-	-	_	_	CAN COMM CIRCUIT (U1000)	_

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Case 18

А Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-201, "IPDM E/R Ignition Relay Circuit Inspection"

						CAN	N DIAG SU	IPPORT M	NTR						
	scroop							Receive	e diagnosis	;				SELEDIAG	
SELECT STOTEM	Screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R	JELF-DIAC	INEGULIG
ENGINE	_	-	UNKWN	_	UNKIN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	-	_	-	UNKWN	_	UNKWN	-	UNKWN	-	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	-	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	-	-	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	-	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKIN	_	_	_	UNKWN	_	UNKWN	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-201, "IPDM E/R Ignition Relay</u> <u>Circuit Inspection"</u>.

						CAN	N DIAG SU	PPORT M	NTR						
SELECT SYSTEM	screen	Initial	Tropomit			•		Receive	e diagnosis			•		SELF-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	I-KEY	BCM /SEC	STRG	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMI CIRCUIT (U1001)
A/T	-	NG	UNKWN	_	_	_	_	-	_	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	-	-	UNKWN	_	UNKWN	_	UNKWN	_	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	_	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	-	-	UNKWN	_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	_	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	_	UNKWN	_	-	_	_	_	-	-	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	-	-	UNKWN	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	_

	[CAN]
CAN SYSTEM (TYPE 6)	PFP:23710
Component Parts and Harness Connector Location	A NKS003N1
Refer to LAN-27, "Component Parts and Harness Connector Location"	
Schematic	NKS003N2
Refer to LAN-28, "Schematic"	
Wiring Diagram — CAN —	NKS003N3 C
Refer to LAN-29, "Wiring Diagram — CAN —"	
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Check Sheet

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Check sheet ta	ble	1						DIAG OU								1	
							CAN	DIAG SU	Receive	diagnosis							
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOF	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	I RESULTS
ENGINE	_	_	UNKWN	I	UNKWN		UNKWN	UNKWN	-	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	-	_	-	-	_	UNKWN	_	UNKWN	_	-	UNKWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	-	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	_	UNKWN	_	UNKWN	-	_	_	CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	_	-	_	UNKWN	—	_	—	-	-	CAN COMM CIRCUIT (U1000)	_
Symptoms :																	
									Г								
				Atta SELE	ach cop CT SY	y of STEM				A SEI	ttach c LECT S	opy of	л				
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																	PKIC9498E

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CAN COMM Initial diagnosi CAN CIRC 1 Transmit diagnosi CAN CIRC 2 BCM/SEC	s CAN CIRC 5 sis CAN CIRC 6	METER/M&A
CAN CIRC 1 Transmit diagno: CAN CIRC 2 BCM/SEC	sis CAN CIRC 6	
CAN CIRC 2 BCM/SEC		-
	CAN CIRC 7	IPDM E/R
CAN CIRC 3 ECM	CAN CIRC 8	-
CAN CIRC 4 -	CAN CIRC 9	—
CAN DIAG S	Attach copy of display control unit SUPPORT MONITOR check sheet	

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CHECK SHEET RESULTS (EXAMPLE)

NOTE:

If a check mark is put on "NG" on "INITIAL DIAG (Initial diagnosis)", replace the control unit.

Case 1

Check harness between TCM and data link connector. Refer to <u>LAN-190, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

							CAN	DIAG SU	PPORT N	INTR							
	ooroop								Receive	diagnosis							
	Scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	JELF-DIAG	THEODELIO
ENGINE	-	-	UNKWN	_	UNKWN	_	UNKWN	UNKWN	-	UNWN	_	UNIWN	-	UNION	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	Ι	_	_			UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	_	Ι	UNWN	_			_	UNKWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	-	_	_	_	-	_	_	_	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	_	_	_		UNIWN	_	_	UNIWN	UNIWN	_	CAN COMM CINCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN		-	-	_	_	I	UNKWN	_	UNKWN		_	_	CAN COMM CIPOUIT (U1000)	_
ВСМ	No indication	NG	UNKWN		_	_	_	-		_	_	UNKWN		_	UNKWN	CAN COMM CIRCUIT (U1000)	-
LDW	No indication	-	_		UNIN	_	_	_	I	UNKWN	_	_		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	-	UNKWN					UNKWN	UNKWN	UNKWN	_	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN			_	UNKWN	_	-	-	UNKWN	_	_	_	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNION	-	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN		_	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



Check harness between data link connector and unified meter and A/C amp. Refer to <u>LAN-190</u>, "Inspection A <u>Between Data Link Connector and Unified Meter and A/C Amp. Circuit</u>".

				1			CAN	I DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	G RESULTS
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_		_	UNIWN	UNAWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_		_	UNAWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	-	-	_	_	_	UNKWN	_	UNWWN	-	-	UNKWN	_	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	-	_	-	_	_	-	_	_	_	_	-
ICC	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	-	UNKWN	_	_	UNWN	UNWN	_	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	_	-	UNKWN	_		_	-	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	_		_	I	UNWN	CÂN COMM CIRCUIT (U1000)	-
LDW	No indication	_	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	-	_	UNWN	_	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	indication	1	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	-	CÂN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN		UNIWN	_	UNKWN	_	_	_	UNKWN	_	_	ļ	1	CÂN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	indication	NG	UNKWN	-	UNKWN	-	_	-	-	UNKWN	_	UNKWN	_	_	_	CÂN COMM CIRCUIT (U1000)	-
IPDM E/R	indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	-



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Check harness between unified meter and A/C amp. and ABS actuator and electric unit (control unit). Refer to LAN-190, "Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric Unit (Control Unit) Circuit".

							CAN										
							CAN	I DIAG SU	Receive	diagnosis							
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	-	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNIN	UNION	CAN COMM CIRCUIT (U1000)	CAN COMM CINCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	Ι
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	_	_	UNWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	-	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ICC	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	UNWN	UNWN	_	CÁN COMM CINCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	-	-	_	_	_	UNKWN	_	UNKWN	_		_	CAN COMM CIRCUIT (U1000)	1
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	
LDW	No indication	-	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	_	UNIWN	_	CAN COMM CIRCUIT (U1000)	I
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	_	UNIWN	_	CAN COMM CINCUIT (U1000)	-
ABS	-	NG	UNKWN		UNION	_		_	-	_	UNKWN	-	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	indication	NG	UNKWN	_	UNKWN	-	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	indication	-	UNKWN	UNKWN	_	-	_	-	_	UNKWN	_	-	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Case 4

Check harness between ABS actuator and electric unit (control unit) and driver seat control unit. Refer to <u>LAN-</u> <u>191, "Inspection Between ABS Actuator and Electric Unit (Control Unit) and Driver Seat Control Unit Circuit"</u>.

							CAN	DIAG SU	PPORT N	INTR							
	scroon								Receive	diagnosis							
OLLEON ON ON THE	3010011	Initial diagnosis	Iransmit diagnosis	ECM	ТСМ	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		INEGOEI G
ENGINE	_	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	_	UNKWN	UNI	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	-	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	-	UNKWN	-	UNKWN	_	-	UNWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	-	-	_	_	_	-	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	_	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	-	-	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	_	-	_	_	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	_	_	-	_	UNKWN	-	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	UNKWN		-	Ι	UNKWN	_	-	Ι	_	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	indication	NG	UNKWN	_	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	indication	_	UNKWN	UNKWN	_	_	-	-	_	UNKWN	_	_	_	-	_	CAN COMM CIRCUIT (U1000)	_



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Check ECM circuit. Refer to LAN-192, "ECM Circuit Inspection" .

							CAN	I DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen								Receive	diagnosis							BESUITS
0222010101012	ooroon	diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNWN	-	UNIN	_	UNKWN	UNIN	_		_	UNIWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMN CIRCUIT (U1001)
A/T	Ι	NG	UNKWN	UNWN	_	_	UNKWN	UNKWN	_	_	_	UNKWN	Ι	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	1	NG	UNKWN	UNWN	_	_	_	_	_	UNKWN	_	UNKWN		-	UNKWN	_	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNIWN	_	_	_	_	_	-	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	-	NG	UNKWN	UNWN	UNKWN	_	_	-	_	UNKWN	_	-	UNKWN	UNKWN	_	CAN COMM CINCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNWN	-	-	_	-	_	UNKWN	_	UNKWN			_	CAN COMM CIPCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNWN	_	_	_	_	_	_	_	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNWN	UNKWN	_	_	_	_	UNKWN	_			UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_		-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	I	NG	UNKWN	UNWN	UNKWN	_	UNKWN	_	_	_	UNKWN				_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	_	-	_	UNKWN	_	UNKWN	_	—	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNWN	-	-	_	-	_	UNKWN	_	_	_	_	-	CAN COMM CIRCUIT (U1000)	_



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Case 6

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Check TCM circuit. Refer to LAN-193, "TCM Circuit Inspection" .

							CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen	Initial	Transmit						Receive	diagnosis						SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN		UNAWN	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	Ι	NG	UNKWN	UNIWN		_		UNWN	_	_		UNWN		UNIWN	_	CAN COMM CIPCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	_	-	-	-	_	UNKWN	_	UNKWN	_	-	UNKWN	_	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	_	_	-	-	_	-	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNWN	_	_	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CINCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	-	-	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNIWN	_	_	_	_	UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNION	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNION	_	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNION	-	-	-	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check display control unit circuit. Refer to LAN-193, "Display Control Unit Circuit Inspection" .

							CAN										
							UAN	I DIAG OU	Beceive	diagnosis							
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNWN	UNIWN	_	_	_	_	_	บหน่งท	_	UNION	_	-	UNKWN	_	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	_	_	-	_	-	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	_	_	_	-	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	_	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
LDW	No indication	-	-	UNKWN	UNKWN	-	_	-	-	UNKWN	-	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNIN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	CAN COMM CINCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	-	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	-	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



Case 8

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Check AWD control unit circuit. Refer to LAN-194, "AWD Control Unit Circuit Inspection" .

							CAN	DIAG SU	PPORT N	NTR							
	scroon		_						Receive	diagnosis							
OLLEON ON OTHER	3010011	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		INEGOLIG
ENGINE	_	_	UNKWN	-	UNKWN	_		UNKWN	-	UNKWN	-	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNION	UNKWN	Ι			UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	-
Display control unit	-	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	-	-	UNKWN	_	—
ALL MODE AWD/4WD	_	NG		_	_	_	_	_	_	_	_	_	_		_	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_		-	Ι	UNKWN	Ι	Ι	UNKWN	CAN COMM CIRCUIT (U1000)	-
LDW	No indication	_		UNKWN	UNKWN	_	_	_		UNKWN	-	-		UNKWN		CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	UNKWN	-	_	Ι	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	-	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	-	_	-	UNKWN	_	-	-	-	_	CAN COMM CIRCUIT (U1000)	_



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Check ICC unit circuit. Refer to LAN-198, "ICC Sensor Circuit Inspection" .

							CAN	I DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen	1-11-1	T		_		-		Receive	diagnosis					_	SELE-DIAG	BESULTS
022201 01012	oroon	diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNIWN	I	UNKWN	_	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	Ι	_	_	UNKWN	Ι	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	-	UNKWN	_	UNKWN	_	_	UNKWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	—	_	_	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	_	NG	UNKWN	UNWN	UNAWN	_	-	_	_	UNWN	_	_	UNWN	UNIWN	_	CAN COMM CINCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	-	_	_	-	UNKWN	_	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_		-	_	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	_	_	_	I	UNKWN	_			UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	-	-	UNKWN	—	-	-	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	-	_	-	_	UNKWN	_	_	-	-	_	CAN COMM CIRCUIT (U1000)	_



Case 10

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Check Intelligent Key unit circuit. Refer to LAN-195, "Intelligent Key Unit Circuit Inspection" .

							CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen								Receive	diagnosis						SELE-DIAG	RESULTS
OLLOT OTOTLM	ooreen	initiai diagnosis	Iransmit diagnosis	ECM	ТСМ	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN		_	UNKWN	UNKWN			_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	-	-	-	UNKWN	_	UNKWN	_	-	UNKWN	_	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	indication	_	UNKWN	UNKWN	_	-	_	-	_	UNKWN	_	UNKWN	_	-	_	CAN COMM CIPOUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	-	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	_	_	-	_	UNKWN	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	CAN COMM CINCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	_	_	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	-	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check data link connector circuit. Refer to LAN-195, "Data Link Connector Circuit Inspection" .

							CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM	scroon		-						Receive	diagnosis							
GELLOT OTOTEM	3010011	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		INCOULIO
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMN CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	_	-	UNKWN	_	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN		UNKWN	_	CAN COMM CIRCUIT (U1000)	
ICC	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	UNKWN	_	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
INTELLIGENT KEY	indication	_	UNKWN	UNKWN	_	_	_	_	-	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	indication	-	-	UNKWN	UNKWN	-	_	-	-	UNKWN	-	-	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	-	UNKWN	-	-	Ι	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	indication	NG	UNKWN	_	UNKWN	-	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	indication	_	UNKWN	UNKWN	_	-	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Case 12

Check BCM circuit. Refer to LAN-196, "BCM Circuit Inspection" .

							CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen	La Wal	T						Receive	diagnosis						SELE-DIAG	BESUITS
0111010101011	00.001	diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	-	UNKWN	_	UNKWN	UNKWN	_	UNWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	-	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	-	_	_	_	บทางพท	_	UNKWN	_	_	UNKWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	UNWN	-	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	_	_	UNIWN	_	UNKWN	_	-	_	CAN COMM CIPOUIT (U1000)	_
BCM	indication	NG	UNKWN	UNKWN	_	_	-	_	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	-	Ι	UNKWN	UNKWN	-	-	-	-	UNWN	-	-	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNIWN	-	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	-	UNKWN	—	-	Ι	-	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	_	UNION	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	-	_	_	UNKWN	_	_	_	-	_	CAN COMM CIRCUIT (U1000)	_



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Check steering angle sensor circuit. Refer to LAN-196, "Steering Angle Sensor Circuit Inspection" .

							CAN	I DIAG SU	PPORT N	INTR							
	soroon								Receive	diagnosis							
SELECT STSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	INEGULIS
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	Ι	_	Ι	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	-	UNKWN	_	UNKWN	_	_	UNKWN	_	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	-	-	-	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	-	_	-	UNKWN	-	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	_	-	_	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
LDW	No indication	_	_	UNKWN	UNKWN	_		_	I	UNKWN	I	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	-	-	UNKWN	_	_	-	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	-	_	UNKWN	_	-	_	-	_	CAN COMM CIRCUIT (U1000)	_


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Case 14

Check LDW camera unit circuit. Refer to LAN-197, "LDW Camera Unit Circuit Inspection" .

							CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen		-						Receive	diagnosis						SELE-DIAG	RESULTS
OLLOT OT OT OT LIN	ourcon	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	OLLI DINC	
ENGINE	_	_	UNKWN	I	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	-	-	-	UNKWN	_	UNKWN	_	-	UNKWN	-	—
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	_	-	_	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	_	-	_	_	UNKWN	_	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	Ι	_		_	_	_	_	UNKWN		Ι	UNKWN	CAN COMM CIRCUIT (U1000)	—
LDW	indication	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	_	UNKWN	I		I	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	_	_	_	_	UNKWN	_	UNKWN	-	1	—	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_		_		UNKWN			_	_	_]	CAN COMM CIRCUIT (U1000)	_



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Check unified meter and A/C amp. circuit. Refer to LAN-197, "Unified Meter and A/C Amp. Circuit Inspection" .

							CAN	DIAG SU	PPORT N	1NTR							
SELECT SYSTEM	scroon		_						Receive	diagnosis							
SELECTOTOTEM	5010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	JELI-DIAC	THEOULIO
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	UNIWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMI CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_	UNIWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	-	UNKWN	_	UNWN	_	-	UNKWN	_	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	-	_	UNIN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ICC	_	NG	UNKWN	UNKWN	UNKWN	_	-	_	-	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	-	-	UNKWN	_		_	-	_	CAN COMM CIPCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	-	_	_	_		_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	_	_	-	-	UNKWN	_	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	_	UNKWN	_	CAN COMM CINCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	-	-	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	-
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	_	UNKWN	_	UNION	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



CAN SYSTEM (TYPE 6)

Case 16

Check ICC sensor circuit. Refer to LAN-198, "ICC Sensor Circuit Inspection" .

							CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen		+						Receive	diagnosis							RESULTS
OLLEOT OTOTEM	ooroon	lnitial diagnosis	Iransmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	_	UNKWN	-	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMN CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	-	_	-	_	UNKWN	Ι	UNKWN	_	_	UNKWN	-	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	_	_	_	-	_	-	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ICC	_	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	UNKWN	-	-	UNWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	-	_	_	-	UNKWN	_	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	-	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNKWN	_	_	_	-	UNKWN	_	_	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	_	-	_	UNKWN	_	-	_	-	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	-	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-198</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

							CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen	Initial	Transmit						Receive	diagnosis						SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	1	UNKWN	_	UNKWN	UNKWN		UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	-	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	_	_	UNKWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	_	_	_	-	_	UNKWN	_	UNIWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	UNKWN	UNWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	_	_	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	Ι	_	_	_		_	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_		UNKWN	UNKWN	_	_	_	I	UNKWN	_	-	-	UNIWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_			UNIWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	V	UNIN	UNIWN	UNKWN	_	UNKWN	_	-	-	UNKWN	-	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	_	UNKWN	_	UNKWN	-	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	_	_	_	_	UNKWN	_	_	-	_	-	CAN COMM CIRCUIT (U1000)	_



CAN SYSTEM (TYPE 6)

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Case 18

Check driver seat control unit circuit. Refer to LAN-199, "Driver Seat Control Unit Circuit Inspection" .

							CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen								Receive	diagnosis							BESULTS
OLLEOT OTOTEM	ourcon	Initial diagnosis	Iransmit diagnosis	ECM	ТСМ	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		HEODERO
ENGINE	_	_	UNKWN	I	UNKWN	_	UNKWN	UNKWN		UNKWN	-	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN		_	UNKWN	UNKWN	_		_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	-	-	-	-	UNKWN	-	UNKWN	_	-	UNKWN	-	—
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	-	-	_	_	I	-	UNKWN		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	-	-	_	_	UNKWN	_	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	-	UNKWN	UNKWN	_	_	_	-	_	UNKWN	_	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	-	_	_	-	I		UNKWN	_		UNKWN	CAN COMM CIRCUIT (U1000)	-
LDW	No indication	-		UNKWN	UNKWN	-		_		UNKWN	-	-	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	Ι	Ι		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	Ι	UNKWN	_	1	Ι	UNKWN	I		I	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	indication	NG	UNKWN	-	UNKWN	_	-	-	_	UNKWN	-	UNKWN	—	-	—	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	-	-	CAN COMM CIRCUIT (U1000)	_



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Check IPDM E/R circuit. Refer to LAN-199, "IPDM E/R Circuit Inspection" .

							CAN	I DIAG SU	PPORT N	INTR							
SELECT SYSTEM	scroon								Receive	diagnosis							
OLLEOF OF OTOTELM	3010011	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	THEODERO
ENGINE	_	Ι	UNKWN	Ι	UNKWN	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	-	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
Display control unit	_	NG	UNKWN	UNKWN	_	_	-	_	_	UNKWN	_	UNKWN	_	-	UNKWN	_	-
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	-	-	_	_	_	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	-	NG	UNKWN	UNKWN	UNKWN	_	-	-	-	UNKWN	-	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	-	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	I	UNKWN	UNKWN	_	_	_	_	UNKWN	_	_	-	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	indication	_	UNKWN	UNKWN	_	_	-	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_



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Case 20

Check CAN communication circuit. Refer to LAN-200, "CAN Communication Circuit Inspection" .

							CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM	screen	Initial	Transmit						Receive	diagnosis						SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	-		_	UNWN	_	UNION	UNIN	_		_	UNYWN	_	UNAWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNIWN	_	_	UNWWN	UNION	_	_	_	UNYWN	_	UNIN	_	CAN COMM CINCUIT (U1000)	-
Display control unit	-	NG	UNWN	UNWN	—	-	-	-	-	UNWN	—	UNWN	-	-	UNKWN	-	-
ALL MODE AWD/4WD	_	NG	UNWN	_	_	_	_	_	_	_	_	-	_	_	_	CAN COMM CIPCUIT (U1000)	_
ICC	_	NG	UNWN			_	_	_	_		_	-			_	CÀN COMM CINCUIT (U1000)	_
INTELLIGENT KEY	indication	-	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	_	_	_	CÂN COMM CINCUIT (U1000)	_
BCM	indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	indication	-	_	UNKWN	UNKWN	_	_	_	_	UNKWN	_	-	_	UNKWN	_	CAN COMM CINCUIT (U1000)	_
METER A/C AMP	indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	_	UNKWN	_	CAN COMM CINCUIT (U1000)	_
ABS	_	✓	UNIWN	UNION		_	UNKWN	_	_	_	UNKWN	-	_	_	_	CAN COMM CIRCUIT (U1000)	
AUTO DRIVE POS.	indication	NG	UNKWN	_	UNKWN	_	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	indication	_	UNKWN	UNKWN	_	-	_	_	_	UNKWN	_	-	-	_	_	CAN COMM CIRCUIT	_

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-201</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

							CAN	DIAG SU	PPORT N	INTR							
SELECT SYSTEM	scroon								Receive	diagnosis							
	3010011	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		THEODERO
ENGINE	_	_	UNKWN	_	UNION	_	UNKWN	UNKWN	_	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	_	_	UNKWN		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	_	NG	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	-	_	UNKWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	_	_	-	-	_	-	_	UNKWN	_	UNIWN	_	CAN COMM CIRCUIT (U1000)	_
ICC	_	NG	UNKWN	UNKWN	UNAWN	_	_	_	_	UNKWN	_	_	UNKWN	UNWN	_	CAN COMM CINCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	_	_	_	_	_	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	_	_	UNKWN	UNION	_	_	_	_	UNKWN	_	_		UNWN	_	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	_		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	UNKWN	_	UNKWN	_	_	_	UNKWN	—	I		_	CAN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNIN	_	_	_	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
																	PKIC9519E

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-201</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

							CAN	I DIAG SU	PPORT N	NTR							
SELECT SYSTEM	screen	Initial	Transmit						Receive	diagnosis						SELF-DIAC	RESULTS
		diagnosis	diagnosis	ECM	тсм	DISPLAY	AWD /4WD	ICC /e4WD	I-KEY	BCM /SEC	STRG	METER /M&A	ICC SENSOR	VDC/TCS /ABS	IPDM E/R		
ENGINE	_		UNKWN	_	UNKWN	_	UNKWN	UNKWN		UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	_	-	_	_	_		_	_	_	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
Display control unit	-	NG	UNKWN	UNKWN	_	_	-	_	_	UNKWN	_	UNKWN	_	-	UNKWN	_	_
ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	_	-	-	-	-	-	UNKWN	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ICC	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	UNKWN	-	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
INTELLIGENT KEY	No indication	_	UNKWN	UNKWN	-	_	_	_	-	UNKWN	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	-	_	_	-	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
LDW	No indication	-	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	_	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
METER A/C AMP	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	-	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	_	UNKWN	_	_	_	-	_	_	_	_	_	_	CÁN COMM CIRCUIT (U1000)	_
AUTO DRIVE POS.	No indication	NG	UNKWN	_	UNKWN	_	_	-	_	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	_	_	_	_	UNKWN	_	_	_	_	_	CAN COMM CIRCUIT (U1000)	_

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Inspection Between TCM and Data Link Connector Circuit

1. CHECK HARNESS FOR OPEN CIRCUIT

- 1 Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- Disconnect ECM connector and harness connector M82. 3.
- 4 Check continuity between harness connector and data link connector.

Harness con- nector	Terminal	Data link con- nector	Terminal	Continuity
Mgg	14H	M5	6	Yes
10102	15H	CIVI	14	Yes

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .

NG >> Repair harness.

Inspection Between Data Link Connector and Unified Meter and A/C Amp. Circuit

TROUBLE DIAGNOSIS FOR SYSTEM

1. CHECK HARNESS FOR OPEN CIRCUIT

- Turn ignition switch OFF. 1.
- 2. Disconnect the battery cable from the negative terminal.
- Disconnect ECM connector and unified meter and A/C amp. connector. 3.
- Check continuity between data link connector and unified meter 4 and A/C amp. harness connector.

Data link con- nector	Terminal	Unified meter and A/C amp. connector	Terminal	Continuity
M5	6	M55	1	Yes
1015	14	IVIJJ	11	Yes

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .

NG >> Repair harness.

Inspection Between Unified Meter and A/C Amp. and ABS Actuator and Electric **Unit (Control Unit) Circuit** NK\$0038V

1. CHECK CONNECTOR

- Turn ignition switch OFF. 1.
- 2. Disconnect the battery cable from the negative terminal.
- Check following terminals and connectors for damage, bend and loose connection (connector side and 3. harness side).
- Harness connector M41
- Harness connector E211

OK or NG

OK >> GO TO 2.









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NK\$0038T

2. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect unified meter and A/C amp. connector and harness connector M41. 1.
- 2. Check continuity between unified meter and A/C amp. harness connector (A) and harness connector (B).

	A		В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M55	1	M41	29G	Yes
WI35	11	10141	18G	Yes

OK or NG

OK >> GO TO 3.

NG >> Repair harness.

3. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect ABS actuator and electric unit (control unit) connector.
- 2 Check continuity between harness connector (A) and ABS actuator and electric unit (control unit) harness connector (B).

	AB		В	Continuity
Connector	Terminal	Connector	Terminal	Continuity
F211	29G	F 56	11	Yes
LZII	18G	L30	15	Yes

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" .

NG >> Repair harness.

Inspection Between ABS Actuator and Electric Unit (Control Unit) and Driver Seat Control Unit Circuit NKS0038W

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- L Check following terminals and connectors for damage, bend and loose connection (connector side and 3. harness side).
- Harness connector E205
- Harness connector B5

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.





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$\overline{2}$. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect ABS actuator and electric unit (control unit) connector and harness connector E205.
- 2. Check continuity between ABS actuator and electric unit (control unit) harness connector (A) and harness connector (B).

A		В		Continuity
Connector	Terminal	Connector	Terminal	Continuity
E 56	11	E205	4	Yes
200	15	L205	10	Yes

OK or NG

OK >> GO TO 3.

NG >> Repair harness.

3. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect harness connector B8.
- 2. Check continuity between harness connector (A) and harness connector (B).

	A B		Continuity	
Connector	Terminal	Connector	Terminal	Continuity
B5	4	RQ	10	Yes
5	10	Во	9	Yes

OK or NG

OK >> Connect all the connectors and diagnose again. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW".

NG >> Repair harness.

ECM Circuit Inspection

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check terminals and connector of ECM for damage, bend and loose connection (control module side and harness side).

OK or NG

- OK >> GO TO 2.
- NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect ECM connector.
- 2. Check resistance between ECM harness connector terminals.

ECM connector	Terminals		Resistance (Approx.)
M90	94 86		108 – 132 Ω

<u>OK or NG</u>

OK >> Replace ECM.

NG >> Repair harness between ECM and harness connector M82.



[CAN]

NKS0038X



[CAN] **TCM Circuit Inspection** NKS0038Y А 1. CHECK CONNECTOR 1. Turn ignition switch OFF. В 2. Disconnect the battery cable from the negative terminal. Check following terminals and connectors for damage, bend and loose connection (control module side 3. and harness side). A/T assembly connector Harness connector F102 Harness connector M82 OK or NG OK >> GO TO 2. NG >> Repair terminal or connector. F 2. CHECK HARNESS FOR OPEN CIRCUIT 1. Disconnect A/T assembly connector. F 2. Check resistance between A/T assembly harness connector ter-minals. A/T assembly connector A/T assembly con-Resistance Terminals nector (Approx.) .3 F44 54 - 66 Ω 3 8 8 Н OK or NG OK >> Replace control valve with TCM. Ω NG >> Repair harness between A/T assembly and display control unit. SKIA6866E **Display Control Unit Circuit Inspection** NKS00387 1. CHECK CONNECTOR Turn ignition switch OFF. 1. LAN 2. Disconnect the battery cable from the negative terminal. Check terminals and connector of display control unit for damage, bend and loose connection (control unit 3 side and harness side). L OK or NG OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect display control unit connector.
- Check resistance between display control unit harness connec-2. tor terminals.

Display control unit connector	Terminals		Resistance (Approx.)
M76	25 26		54 – 66 Ω

OK or NG

OK >> Replace display control unit.

>> Repair harness between display control unit and har-NG ness connector M82.



AWD Control Unit Circuit Inspection

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check terminals and connector of AWD control unit for damage, bend and loose connection (control unit side and harness side).

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect AWD control unit connector.
- Check resistance between AWD control unit harness connector terminals.

AWD control unit connector	Term	ninals	Resistance (Approx.)
M92	8	16	54 – 66 Ω

OK or NG

- OK >> Replace AWD control unit.
- NG >> Repair harness between AWD control unit and harness connector M82.

ICC Unit Circuit Inspection

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check terminals and connector of ICC unit for damage, bend and loose connection (unit side and harness side).

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect ICC unit connector.
- 2. Check resistance between ICC unit harness connector terminals.

ICC control unit	Term	ninals	Resistance (Approx.)
M88	14	5	54 – 66 Ω

OK or NG

OK >> Replace ICC unit.

NG >> Repair harness between ICC unit and harness connector M82.



AWD control unit connector

NKS00391





[CAN]



BCM Circuit Inspection

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check terminals and connector of BCM for damage, bend and loose connection (control module side and harness side).

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect BCM connector.
- 2. Check resistance between BCM harness connector terminals.

BCM connector	Term	ninals	Resistance (Approx.)
M3	39	40	54 – 66 Ω

OK or NG

- OK >> Replace BCM. Refer to <u>BCS-15, "Removal and Installa-</u> tion of <u>BCM"</u>
- NG >> Repair harness between BCM and data link connector.



1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check terminals and connector of steering angle sensor for damage, bend and loose connection (sensor side and harness side).

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect steering angle sensor connector.
- Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminals		Resistance (Approx.)
M14	4	5	54 – 66 Ω

OK or NG

- OK >> Replace steering angle sensor.
- NG >> Repair harness between steering angle sensor and data link connector.



BAT

NKS00395

SKIA6869E

BAT

BCM connector

Ω

Steering angle sensor connector

Ω

PKIA9864E

[CAN] LDW Camera Unit Circuit Inspection NKS00396 А 1. CHECK CONNECTOR 1. Turn ignition switch OFF. В 2. Disconnect the battery cable from the negative terminal. 3. Check following terminals and connectors for damage, bend and loose connection (unit side and harness side). LDW camera unit connector Harness connector R1 Harness connector M31 OK or NG OK >> GO TO 2. NG >> Repair terminal or connector. F 2. CHECK HARNESS FOR OPEN CIRCUIT 1. Disconnect LDW camera unit connector. E BAT 2 Check resistance between LDW camera unit harness connector H.S. terminals. LDW camera unit connector LDW camera unit Resistance 5 Terminals 10 connector (Approx.) R9 10 5 $54 - 66 \Omega$ Н OK or NG Ω OK >> Replace LDW camera unit. NG >> Repair harness between LDW camera unit and data link SKIB2333 connector. Unified Meter and A/C Amp. Circuit Inspection NKS00397 1. CHECK CONNECTOR 1. Turn ignition switch OFF. 2. Disconnect the battery cable from the negative terminal. LAN Check terminals and connector of unified meter and A/C amp. for damage, bend and loose connection 3. (meter side and harness side). OK or NG L OK >> GO TO 2. NG >> Repair terminal or connector. Μ 2. CHECK HARNESS FOR OPEN CIRCUIT Disconnect unified meter and A/C amp. connector. 1. 2. Check resistance between unified meter and A/C amp. harness connector terminals. Unified meter and Unified meter and Resistance A/C amp.connector Terminals A/C amp. connec-(Approx.) tor M55 1 11 $54 - 66 \Omega$ OK or NG

OK >> Replace unified meter and A/C amp.

NG >> Repair harness between unified meter and A/C amp. and harness connector M41.



ICC Sensor Circuit Inspection

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- Disconnect the battery cable from the negative terminal. 2.
- 3. Check terminals and connector of ICC sensor for damage, bend and loose connection (sensor side and harness side).

OK or NG

OK >> GOTO2

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect ICC sensor connector. 1.
- 2. Check resistance between ICC sensor harness connector terminals.

ICC sensor con- nector	Terminals		Resistance (Approx.)
E39	3	6	54 – 66 Ω

OK or NG

OK >> Replace ICC sensor.

NG >> Repair harness between ICC sensor and ABS actuator and electric unit (control unit).



ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

NKS00399

1. CHECK CONNECTOR

- Turn ignition switch OFF. 1.
- 2. Disconnect the battery cable from the negative terminal.
- Check terminals and connector of ABS actuator and electric unit (control unit) for damage, bend and loose 3. connection (control unit side and harness side).

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect ABS actuator and electric unit (control unit) connector.
- 2. Check resistance between ABS actuator and electric unit (control unit) harness connector terminals.

ABS actuator and electric unit (con- trol unit) connector	Terminals		Resistance (Approx.)
E56	11 15		54 – 66 Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) and harness connector E205.



				[CAN]
Driver Seat Contended Contende	ontrol Unit Ci NECTOR	rcuit Inspe	ection	NKS0039A
I. Turn ignition s	witch OFF.			
2. Disconnect the	e battery cable from	m the negative	e terminal.	
 Check followir harness side). 	ng terminals and c	onnectors for	damage, bend and	d loose connection (control unit side and
Driver seat co	ntrol unit connecto	r		
Harness conn	ector B151			
Harness conn	ector B8			
DK or NG				
OK >> GO TO	O 2.			
NG >> Repai	r terminal or conne	ector.		
2. CHECK HARI	NESS FOR OPEN	CIRCUIT		
. Disconnect dr	iver seat control u	nit connector.		
2. Check resista	nce between drive	r seat control	unit harness con-	
nector termina	als.			
Driver seat control	Termin	als	Resistance	Driver seat control unit connector
unit connector		15	(Approx.)	
B152	14	15	54 – 66 Ω	
DK or NG				
OK >> Repla NG >> Repai ness o	ce driver seat cont r harness between connector B5.	rol unit. driver seat co	ontrol unit and har-	
	nuit Inonactio	n		SKIA6882E
	cuit inspectio	n		NK\$0039B

1. CHECK CONNECTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check following terminals and connectors for damage, bend and loose connection (control module side and harness side).

LAN-199

- **IPDM E/R connector** _
- Harness connector E205
- Harness connector B5 _
- OK or NG
 - OK >> GO TO 2.
- NG >> Repair terminal or connector.

2006 FX35/FX45

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$\overline{2}$. CHECK HARNESS FOR OPEN CIRCUIT

- Disconnect IPDM E/R connector. 1.
- 2. Check resistance between IPDM E/R harness connector terminals.

IPDM E/R connec- tor	Terminals		Resistance (Approx.)
E9	48	49	54 – 66 Ω

OK or NG

OK >> Replace IPDM E/R.

NG >> Repair harness between IPDM E/R and harness connector B8.

CAN Communication Circuit Inspection 1. CHECK CONNECTOR

- Turn ignition switch OFF. 1.
- 2. Disconnect the battery cable from the negative terminal.
- Disconnect the harness connector for each unit on the CAN network and check terminals for deformation, 3. disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

2. CHECK HARNESS FOR SHORT CIRCUIT

With all module and control unit connectors disconnected, Check continuity between data link connector terminals.

Data link connec- tor	Terminals		Continuity
M5	6	14	No

OK or NG

OK >> GO TO 3.

NG >> • Repair harness

> · Change harness if shielded lines are used for the harness

3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminal and ground.

Data link connec- tor	Terminal	Ground	Continuity
M5	6		No
	14		

OK or NG

NG

OK >> GO TO 4.

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- >> Repair harness
 - · Change harness if shielded lines are used for the harness





2006 FX35/FX45

PKIA9872F



NKS0039C



Data link connector



[CAN]

