# SECTION LAN SYSTEM

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# CONTENTS

#### CAN

PRECAUTIONS 3	5
Precautions for Supplemental Restraint System	
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	
SIONER"	3
Precautions When Using CONSULT-II	3
CHECK POINTS FOR USING CONSULT-II 3	3
Precautions for Trouble Diagnosis	3
CAN SYSTEM 3	3
Precautions for Harness Repair 4	ł
CAN SYSTEM 4	ł
TROUBLE DIAGNOSES WORK FLOW 5	;
When Displaying CAN Communication System	
Errors	5
WHEN A MALFUNCTION IS DETECTED BY	
CAN COMMUNICATION SYSTEM 5	5
WHEN A MALFUNCTION IS DETECTED	
EXCEPT CAN COMMUNICATION SYSTEM 5	5
TROUBLE DIAGNOSIS FLOW CHART 6	5
Diagnosis Procedure 7	,
SELECTING CAN SYSTEM TYPE (HOW TO	
USE SPECIFICATION TABLE) 7	,
ACQUISITION OF DATA BY CONSULT-II	3
HOW TO USE CHECK SHEET TABLE 9	)
CAN Diagnostic Support Monitor 15	5
DESCRIPTION OF "CAN DIAG SUPPORT	
MNTR" SCREEN FOR ECM 15	5
DESCRIPTION OF "CAN DIAG SUPPORT	
MNTR" SCREEN FOR TCM 16	5
DESCRIPTION OF "CAN DIAG SUPPORT	
MNTR" SCREEN FOR DIFFERENTIAL LOCK	
CONTROL UNIT 16	5
DESCRIPTION OF "CAN DIAG SUPPORT	
MNTR" SCREEN FOR BCM 17	,
DESCRIPTION OF "CAN DIAG SUPPORT	
MNTR" SCREEN FOR METER 18	3
DESCRIPTION OF "CAN DIAG SUPPORT	
MNTR" SCREEN FOR TRANSFER CONTROL	
UNIT	)
DESCRIPTION OF "CAN DIAG SUPPORT	

MNTR" SCREEN FOR ABS ACTUATOR AND	F
ELECTRIC UNIT (CONTROL UNIT)	
DESCRIPTION OF "CAN DIAG SUPPORT	
MNTR" SCREEN FOR IPDM E/R	G
CAN COMMUNICATION	0
System Description22	
Component Parts and Harness Connector Location22	
Schematic	H
Wiring Diagram — CAN —24	
CAN Communication Unit	
TYPE 1/TYPE 3 28	
TYPE 2/TYPE 5 30	
TYPE 4 32	
TYPE 6/TYPE 7 33	1
TVPE 8 36	J
TVPE 0/TVPE 10 37	
TVPE 11 30	
TVDE 12/TVDE 12 /1	LAN
TYDE 1//TYDE 15	
CAN SYSTEM (TYDE 1) 47	
Component Parts and Harness Connector Location 47	L
Schomatic 47	
Wiring Diagram CAN	
Chack Shoot	в. /
	IVI
CAN EXETEM (TYPE 2)	
CAN STSTEM (TTPE 2)	
Component Parts and Harness Connector Location 58	
Schematic	
Wiring Diagram — CAN —	
CHECK SHEET RESULTS (EXAMPLE)	
CAN SYSTEM (TYPE 3)	
Component Parts and Harness Connector Location 71	
Schematic	
Wiring Diagram — CAN —	
Check Sheet	
CHECK SHEET RESULTS (EXAMPLE)	
CAN SYSTEM (TYPE 4)82	
Component Parts and Harness Connector Location 82	
Schematic	

Wiring Diagram — CAN —	82
Check Sheet	83
CHECK SHEET RESULTS (EXAMPLE)	85
CAN SYSTEM (TYPE 5)	93
Component Parts and Harness Connector Location	93
Schematic	93
Wiring Diagram — CAN —	93
Check Sheet	94
CHECK SHEET RESULTS (EXAMPLE)	96
CAN SYSTEM (TYPE 6)	106
Component Parts and Harness Connector Location	106
Schematic	106
Wiring Diagram — CAN —	106
Check Sheet	107
CHECK SHEET RESULTS (EXAMPLE)	109
CAN SYSTEM (TYPE 7)	119
Component Parts and Harness Connector Location	119
Schematic	119
Wiring Diagram — CAN —	119
Check Sheet	120
CHECK SHEET RESULTS (EXAMPLE)	122
CAN SYSTEM (TYPE 8)	133
Component Parts and Harness Connector Location	133
Schematic	133
Wiring Diagram — CAN —	133
Check Sheet	134
CHECK SHEET RESULTS (EXAMPLE)	136
CAN SYSTEM (TYPE 9)	145
Component Parts and Harness Connector Location	145
Schematic	145
Wiring Diagram — CAN —	145
Check Sheet	146
CHECK SHEET RESULTS (EXAMPLE)	148
CAN SYSTEM (TYPE 10)	157
Component Parts and Harness Connector Location	157
Schematic	157
Wiring Diagram — CAN —	157
	158
CHECK SHEET RESULTS (EXAMPLE)	160
CAN SYSTEM (TYPE 11)	1/0
Component Parts and Harness Connector Location	1/0
Schematic	1/0
Wiring Diagram — CAN —	1/0
	1/1
CHECK SHEET RESULTS (EXAMPLE)	173

CAN SYSTEM (TYPE 12)184
Component Parts and Harness Connector Location 184
Schematic184
Wiring Diagram — CAN —184
Check Sheet185
CHECK SHEET RESULTS (EXAMPLE)187
CAN SYSTEM (TYPE 13)198
Component Parts and Harness Connector Location 198
Schematic198
Wiring Diagram — CAN —198
Check Sheet199
CHECK SHEET RESULTS (EXAMPLE)201
CAN SYSTEM (TYPE 14)213
Component Parts and Harness Connector Location 213
Schematic213
Wiring Diagram — CAN —213
Check Sheet214
CHECK SHEET RESULTS (EXAMPLE)216
CAN SYSTEM (TYPE 15)228
Component Parts and Harness Connector Location 228
Schematic228
Wiring Diagram — CAN —228
Check Sheet229
CHECK SHEET RESULTS (EXAMPLE)231
TROUBLE DIAGNOSIS FOR SYSTEM244
Inspection Between TCM and Data Link Connector
Circuit244
Inspection Between Data Link Connector and ABS
Actuator and Electric Unit (Control Unit) Circuit245
ECM Circuit Inspection246
TCM Circuit Inspection247
Differential Lock Control Unit Circuit Inspection247
Steering Angle Sensor Circuit Inspection
Data Link Connector Circuit Inspection248
BCM Circuit Inspection249
Combination Meter Circuit Inspection249
Transfer Control Unit Circuit Inspection250
ABS Actuator and Electric Unit (Control Unit) Circuit
Inspection
IPDM E/R Circuit Inspection251
CAN Communication Circuit Inspection251
IPDM E/R Ignition Relay Circuit Inspection252

# PRECAUTIONS

#### PRECAUTIONS PFP:00001 А Precautions for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT **BELT PRE-TENSIONER**" UKS003L0 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 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. D 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. Е 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 LIKS003L1 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. J If NO, GO TO 5. 2 Is there any indication other than indications relating to CAN communication system in the self-diagnosis results? LAN If YES, GO TO 3. \_ If NO, GO TO 4. 3. Based on self-diagnosis results unrelated to CAN communication, carry out the inspection. Malfunctions may be detected in self-diagnosis depending on control units carrying out CAN communica-4. tion. Therefore, erase the self-diagnosis results. Diagnose CAN communication system. Refer to LAN-5, "TROUBLE DIAGNOSES WORK FLOW" . Μ 5. **Precautions for Trouble Diagnosis** UK\$003L2 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.

• Do not perform bypass wire connections for the repair parts. (The spliced wire will become separated and the characteristics of twisted line will be lost.)



#### Precautions for Harness Repair CAN SYSTEM

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



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[CAN]

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# [CAN]

TROUBLE DIAGNOSES WORK FLOW	PFP:00004	
When Displaying CAN Communication System Errors WHEN A MALFUNCTION IS DETECTED BY CAN COMMUNICATION SYSTEM	UKS003L4	А
CAN communication line is open. (CAN H, CAN L, or both)		В
<ul> <li>CAN communication line is shorted. (Ground, between CAN lines, or other harnesses)</li> </ul>		
<ul> <li>The areas related to CAN communication of unit is malfunctioning.</li> </ul>		
WHEN A MALFUNCTION IS DETECTED EXCEPT CAN COMMUNICATION SYSTEM		С
<ul> <li>Removal and installation of parts: When the units that perform CAN communication or the sense to CAN communication are removed and installed, malfunction may be detected (or DTC other communication may be detected).</li> </ul>	rs related than CAN	D
• Fuse blown out (removed): CAN communication of the unit may be stopped at such time.		
<ul> <li>Low voltage: If the voltage decreases because of battery discharge when IGN is ON, malfunction detected by self-diagnosis according to the units.</li> </ul>	n may be	Е
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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 <u>LAN-7, "SELECTING CAN SYSTEM TYPE (HOW TO USE SPECIFICATION TABLE)"</u>.
- 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-244</u>, "TROUBLE DIAGNOSIS FOR SYSTEM".

# [CAN]

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

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

Body type								Truck								ן ו												
Axle				2WD							4V	VD																
Engine	QR2	5DE						١	/Q40D	E						Check basic specification of the												
Transmission	М/Т А/Т		м	/Т		A/T	A/T		M/T		M/T		A/T			A/T				A/T			A/T				vehicle.	
Brake control	A	3S	ABS	ABL S	ABS	AE	SLS	ABS	AE	BLS	ABS	AE	SLS		C													
Electronic locking rear differential							×			×			×		×	Select "×" if it is model with electronic												
CAN system type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	locking rear differential.												
CAN system trouble diagnosis	8.X.: 8.X	.Q.: .XX	ΣΧ:. ΧΧ.	8.K: 8.K	82.: 88	ų Š	ΣΧ. ΣΧ	XX: XX	.XX:: .XX	28. 88	836 83	8%; 88	-XX; -XX	ΣΧ. ΖΧ	8%: 8%	Which number is selected when sequentially selecting from the top of												
×: Applicable																the specification table? The number is "CAN system type" of the applicable vehicle.												
																In the case of this example: It corresponds to type 14.												

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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.



#### 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.)

- 4. "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.
- 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-13</u>, "Example of Filling in Check Sheet When <u>Initial Conditions Are Not Reproduced</u>".

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				CAN	DIAG S	UPPORT	MNTR		N DIAG S	UPPOR	MNTR	,		
					EN	GINE			EN	IGINE				
						PRSN	PAST			PRSN	T PAST	1		
			(	TRAN	SMIT DIAG	) OK	OK	MET	ER/M&A		OK	1		
				METE	R/M&A	OK	OK	BCM	/SEC	UNKWI		ť		
				BCM/	SEC	UNKWN			0	-	-	1		
			$\rightarrow$	ICC				TCM	-	OK	OK	1		
				HVAC		•	-	EPS		-	-			
				TCM		OK	OK	IPDN	A E/R	OK	OK	{		
				IPDM	F/R	ОК	<u></u>	AWD	/4WD		<u>-</u>	1		
				P	BINT	T	Scroll		PRINT	Scroll U	0	1		
				MOD			COPY	мог		C LIGHT	COPY	1		
					E BAON		10011					]		
	Check sheet table													
						CAN	DIAG SU	PPORT N	INTR					
		coroon		_				Receive	diagnosis					
	SCIEBIL	Initial diagnosis	Transmit diagnosis	ECM	тем	STRC	ВСМ	METER		VDC/TCS	IPDM	SELF-DIAC	I NEGULI G	
			<u> </u>		LOW	10101	onna	/SEC	/M&A	,010,4110	/ABS	E/R		
►	ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
	A/T		NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
►	ВСМ	No inditation	NG	UNKWN	UNKWN	-	-	-	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
	METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	- 1	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
	ALL MODE AWD/4WD	F	NG	UNKWN	UNKWN	UNKWN	-	1	UNKWN	-	UNKWN	I	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	-
	IPDM E/R	No indication	-	UNKWN	UNKWN		-	UNKWN	ELECT S			-	CAN COMM CIRCUIT (U1000)	_
			(		ENG	GINE	T T		A/T					
				i	A	 /Т								
				!	A				AIR B	 AG				
			1	j	AIR	BAG			IPDM	E/R				
					IPDM	IE/R			METE	ĒR				
					ME	TER		ALI	_ MODE A	WD/4WD	,			
			· · · ·	<b>S</b> III										
						Page	Down	Page	e Up					

#### 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 BCM because BCM 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 "BCM/SEC". Put a check mark to it.



3. Confirm the unit name that "UNKWN" is displayed on the copy of "CAN DIAG SUPPORT MNTR" screen of "A/T", "METER", "ALL MODE AWD/4WD", "ABS" and "IPDM E/R" as well as "ENGINE". And then, put a check mark to the check sheet table.

#### NOTE:

- For "A/T", "UNKWN" is displayed on "ICC/e4WD". But, do not put a check mark to their columns of reception diagnosis of the check sheet table because "UNKWN" is not listed.
- For "METER", "UNKWN" is displayed on "BCM/SEC". Put a check mark to it.
- For "ALL MODE AWD/4WD", "UNKWN" is not displayed". Do not put a check mark to it.
- For "ABS", "UNKWN" is displayed on "METER/M&A" and "ICC". But, do not put a check mark to their M columns of reception diagnosis of the check sheet table because "UNKWN" is not listed.
- For "IPDM E/R", "UNKWN" is displayed on "BCM/SEC". Put a check mark to it.

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#### 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.

- 4. Perform system diagnosis for possible causes identified.
- 5. 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-27</u>, "CAN Communication Unit".

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



 See "SELF-DIAG RESULTS" of all units attached to the check sheet. If "CAN COMM CIRCUIT", "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]" is displayed. Put a check mark to it.
- For "A/T", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "BCM", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.
- For "METER", "CAN COMM CIRCUIT [U1000]" is displayed. Put a check mark to it.
- For "ALL MODE AWD/4WD", "NO DTC IS DETECTED" is displayed. Do not put a check mark to it.

**LAN-13** 

- For "ABS", "NO DTC IS DETECTED" is displayed. Do not 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.

# [CAN]

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

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(Example)	CAN DIAG SUPPORT MNTR	
	ENGINE ENGINE	
	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 ICC	
	BCM/SEC OK OK HVAC	
	ICC	
	HVAC EPS	
	TCM OK OK IPDM E/R OK OK	
	EPS	
	IPDM E/R OK OK AWD/4WD OK OK	
	PRINT Scroll Up	
	MODE BACK LIGHT COPY MODE BACK LIGHT COPY	DKICEO

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past	Е
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-		
	VDC/TCS/ABS	Make sure of normal reception from ABS actua- tor and electric unit (control unit). (VDC model/ ABLS model)	OK/UNKWN/-		F
		VDC/TCS/ABS is not diagnosed. (ABS model)	_		G
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN/-		9
	BCM/SEC	Make sure of normal reception from BCM.	OK/UNKWN/-		Н
ENGINE	ICC	ICC is not diagnosed.	-	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/-		I
	e4WD	e4WD is not diagnosed.	_		0
	AWD/4WD	Make sure of normal reception from transfer con- trol unit.	OK/UNKWN/-		LAN

#### **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 OF "CAN DIAG SUPPORT MNTR" SCREEN (Exa

ample)	CAN D	IAG SU	PPORT	MNTR	
• •		A	/T		
			PR	SNT	
	INITIAL	DIAG	0	ĸ	
	TRANSN	1IT DIAG	0	Ϋ́	
	ECM		0	κ	
	VDC/TC	PRSNT ITTIAL DIAG OK RANSMIT DIAG OK CCM OK DC/TCS/ABS OK IETER/M&A OK C/CG44VD UNKWN WD/4WD OK			
	METER/	M&A	0	ĸ	
	ICC/e4W	'D	UNK	(WN	
	AWD/4W	'D	0	ĸ	
	PR	NT			
	MODE	BACK	LIGHT	COPY	SKIB2335E

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
A/T	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit). (VDC model/ ABLS model)	OK/UNKWN
		VDC/TCS/ABS is not diagnosed. (ABS model)	UNKWN
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN
	ICC/e4WD	ICC/e4WD is not diagnosed.	UNKWN
	AWD/4WD	Make sure of normal reception from transfer 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 DIFFERENTIAL LOCK CONTROL UNIT	(Example)	CAN E	DIAG SU	IPPORT LOCK	MNTR		
		INITIAL TRANSI ECM VDC/TC AWD/4W	DIAG MIT DIAG S/ABS VD		SNT K K K K K		
		PR MODE	INT BACK	LIGHT	COPY	PKIE	37196E

"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
DIFF LOCK	ECM	Make sure of normal reception from ECM.	OK/UNKWN
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN
	AWD/4WD	Make sure of normal reception from transfer 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 BCM

mple)	CAN I	DIAG SU	PPORT	MNTR	
		BC	СМ		
		PRSNT			
	INITIAL	INITIAL DIAG OK			
	TRANSI	TRANSMIT DIAG OK			
	ECM		0	к	
	IPDM E/	'R	OK		
	METER	/M&A	1&A OK		
	I-KEY		OK		
	PR	PRINT			
	MODE	BACK	LIGHT	COPY	
					SKIB1625E

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"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
BCM	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
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN
	I-KEY	I-KEY is not diagnosed.	ОК

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 METER**

(Example)	CAN [	DIAG SU	PPORT N	INTR
		ME	TER	
			PRSNT	PAST
	TRANSM	11T DIAG	ОК	OK
	ECM		ок	OK
	TCM		OK	OK
	BCM/SE	C	ок	OK
	VDC/TC8	S/ABS	OK	OK
	IPDM E/F	7	OK	OK
	DISPLAY		*	
	I-KEY		-	-
	EPS		-	-
	PR	INT		Scroll Down
	MODE	BACK	LIGHT	COPY

CAN DIAG SUPPORT MNTR					
	METER				
		PRSNT	PAST		
IPDM E/R		ОК	ОК		
DISPLAY		-	-		
I-KEY		-	-		
EPS		-	-		
AWD/4WD					
e4WD		-	-		
ICC					
LANE KEEP		-	-		
TIRE-P			-		
PRINT		Scroll Up			
MODE BA	ACK	LIGHT	COPY		

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	Past
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN/-	
	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 actua- tor and electric unit (control unit).	OK/UNKWN/-	
	IPDM E/R	Make sure of normal reception from IPDM E/R.	OK/UNKWN/-	
METER	DISPLAY	AY DISPLAY is not diagnosed.		OK/0/1 - 39/-
	I-KEY	I-KEY is not diagnosed.	-	
	EPS	EPS is not diagnosed.	_	
	AWD/4WD	AWD/4WD is not diagnosed.	-	
	e4WD	e4WD is not diagnosed.	_	
	ICC	ICC is not diagnosed.	_	
	LANE KEEP	LANE KEEP is not diagnosed.	_	
	TIRE-P	TIRE-P is not diagnosed.	_	

#### **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 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...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. Keep this condition until resetting it.
- -: Undiagnosed

[CAN]

# DESCRIPTION OF "CAN DIAG SUPPORT MNTR" SCREEN FOR TRANSFER CONTROL UNIT

amnle)	CAN D	IAG SU	PPORT	MNTR			٦	
ampiej	ALL MODE AWD/4WD			WD				А
			PR	SNT				
	INITIAL I	DIAG	0	ĸ				
	TRANSM	AIT DIAG	0	К				
	ECM		0	К				D
	VDC/TC	S/ABS	0	K				D
	TCM		0	ĸ				
	METER/	M&A	0	ĸ				
								С
								0
	PR	INT						
	MODE	BACK	LIGHT	COPY				
			2,3111		PKIC2	2594E	1	
							-	D

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present	D
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG	F
ALL MODE AWD/ 4WD	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN	
	ECM	Make sure of normal reception from ECM.	OK/UNKWN	
	VDC/TCS/ABS	Make sure of normal reception from ABS actuator and electric unit (control unit).	OK/UNKWN	F
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN	
	METER/M&A	Make sure of normal reception from combination meter.	OK/UNKWN	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 ABS ACTUATOR AND ELEC-TRIC UNIT (CONTROL UNIT) ABS model

"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description	Present
	INITIAL DIAG	Make sure that microcomputer in ECU works normally.	OK/NG
ABS	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN
	ECM	Make sure of normal reception from ECM.	OK/UNKWN

Display Results (Present)

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

#### VDC model/ABLS model

CAN D	IAG SU	PPORT	MNTR	
Γ	ABS			l
PRSNT			SNT	
INITIAL [	DIAG	0	ĸ	
TRANSM	1IT DIAG	0	ιK	
ECM	ECM OK			
TCM		OK		
METER/M&A		UNKWN		l
STRG		0	ĸ	
ICC		UNKWN		
AWD/4WD		OK		
DIFF LOCK PRINT		0	ĸ	
MODE	ВАСК	LIGHT	COPY	PKIB7433E
	CAN D INITIAL I TRANSM ECM TCM METER/I STRG ICC AWD/4W DIFF LO PRI MODE	CAN DIAG SU AE INITIAL DIAG TRANSMIT DIAG ECM TCM METER/M&A STRG ICC AWD/4WD DIFF LOCK PRINT MODE BACK	CAN DIAG SUPPORT ABS INITIAL DIAG O TRANSMIT DIAG O ECM O TCM O METER/M&A UNK STRG O ICC UNK AWD/4WD O DIFF LOCK C PRINT MODE BACK LIGHT	CAN DIAG SUPPORT MNTR ABS INITIAL DIAG OK TRANSMIT DIAG OK ECM OK ECM OK STRG OK ICC UNKWN STRG OK ICC UNKWN AWD/4WD OK DIFF LOCK OK PRINT MODE BACK LIGHT COPY

"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
	ТСМ	Make sure of normal reception from TCM.	OK/UNKWN
	METER/M&A	METER/M&A is not diagnosed.	UNKWN
ABS	STRG	Make sure of normal reception from steering angle sensor. (VDC model)	OK/UNKWN
		STRG is not diagnosed. (ABLS model)	UNKWN
	ICC	ICC is not diagnosed.	UNKWN
	AWD/4WD	Make sure of normal reception from transfer control unit.	OK/UNKWN
	DIFF LOCK	Make sure of normal reception from differential lock control unit.	OK/UNKWN

#### Display Results (Present)

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

[CAN]

DESCRIPTION C FOR IPDM E/R	OF "CAN DIAG SUI	PPORT MNTR" SCREEN	(Example)	CAN DIAG SUPPORT MN IPDM E/R PRSNT PA RANSMIT DIAG OK C ECM OK C 3CM/SEC OK C 9RINT HODE BACK LIGHT CC	ТР <u>ST</u> <u>K</u> <u>K</u> <u>K</u> <u>K</u> <u>K</u> <u>K</u> <u>K</u> <u>K</u>	A B C
"SELECT SYSTEM" screen	"CAN DIAG SUPPORT MNTR" screen	Description		Present	Past	D
	TRANSMIT DIAG	Make sure of normal transmission.	OK/UNKWN/-	OK/0/1 – 39/–		
IPDM E/R	ECM	Make sure of normal reception from	OK/UNKWN/-			
	BCM/SEC	Make sure of normal reception from	BCM.	OK/UNKWN/-		
Display Results (P	resent)					F
UNKWN: The diagn	osed unit does not transm	it or receive the applicable data norm	allv			
<ul> <li>–: There is no receiv</li> </ul>	ved unit or the unit is not ir	n the condition that reception diagnosi	s is performed			G
Display Results (P	ast)	,				
OK: Normal						Н
o <b>T</b> I · · · · ·						

- 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

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# **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**



 Differential lock control unit M70 8 (with electronic locking rear differential)

- 10. Air bag diagnosis sensor unit M35
- 11. A/T assembly F9 (with A/T)



UKS0030X

UKS0052Z

<sup>.</sup> Steering angle sensor M47 (with VDC)

# Schematic



UKS00530

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 $\frac{4W}{\Delta}: WITH 4-WHEEL DRIVE$ 

BKWA0667E



[CAN]

# LAN-CAN-02



BKWA0669E

LAN-CAN-03



# **CAN** Communication Unit

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

Body type		Truck														
Axle			2WD							4	VD				В	
Engine	QR2	25DE		VQ40DE												
Transmission	M/T	A/T	M	I/T		A/T			M/T		A/T					0
Brake control	A	BS	ABS	ABL S	ABS	AE	BLS	ABS	AE	BLS	ABS	AE	BLS	VI	C	C
Electronic locking rear differential							×			×			×		×	D
CAN system type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
CAN system trouble diagnosis	<u>LAN-</u> <u>47</u>	<u>LAN-</u> <u>58</u>	<u>LAN-</u> <u>71</u>	<u>LAN-</u> <u>82</u>	<u>LAN-</u> <u>93</u>	<u>LAN-</u> 106	<u>LAN-</u> <u>119</u>	<u>LAN-</u> <u>133</u>	<u>LAN-</u> <u>145</u>	<u>LAN-</u> <u>157</u>	<u>LAN-</u> <u>170</u>	<u>LAN-</u> <u>184</u>	<u>LAN-</u> <u>198</u>	<u>LAN-</u> 213	<u>LAN-</u> 228	E

 $\times$ : Applicable

#### NOTE:

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

Models with 4WD .







#### Models with ABLS

Models with ABLS*		
	_AB3. 0	
	TOTO TOTO	
	MPH A CONTRACT OF A CONTRACT O	
N : CANADA		
<u></u>		
*: Confirm VDC OFF indicator is r	not present.	
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#### • Models with electronic locking rear differential



# TYPE 1/TYPE 3

# System diagram

• Type 1



# Input/output signal chart

T: Tr	ansmit	R:	Receive
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Signals	ECM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	Т				R
Accelerator pedal position signal	Т				

Revision: September 2005

Signals	ECM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R	А
ASCD CRUISE lamp signal	Т		R			
ASCD SET lamp signal	Т		R			В
Cooling fan speed request signal*	Т				R	
Engine coolant temperature signal	Т		R			С
Engine speed signal	Т		R			
Engine status signal	Т	R				
Fuel consumption monitor signal	Т		R			D
Malfunction indicator lamp signal	Т		R			
Power generation command value signal	Т				R	E
A/C switch signal	R	Т				
Blower fan motor switch signal	R	Т				F
Buzzer output signal		Т	R			_ 1
Day time running light request signal		Т	R		R	_
Door switch signal		Т	R		R	G
Front fog light request signal		Т	R		R	_
Front wiper request signal		Т			R	
High beam request signal		Т	R		R	- 11
Horn chirp signal		Т			R	
Ignition switch signal		Т			R	
Low beam request signal		Т			R	
Position light request signal		Т	R		R	_
Rear window defogger switch signal		Т			R	J
Sleep wake up signal		Т	R		R	
Theft warning horn request signal		Т			R	LA
Turn indicator signal		Т	R			
Fuel level sensor signal	R		Т			_
Seat belt buckle switch signal		R	Т			- L
Vehicle speed signal			R	Т		
	R	R	Т			M
ABS warning lamp signal			R	Т		
Brake warning lamp signal			R	Т		
Front wiper stop position signal		R			Т	
High beam status signal	R				Т	-
Low beam status signal	R				Т	
Rear window defogger control signal*	R				Т	

\*: VQ engine models only.

#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

# TYPE 2/TYPE 5 System diagram

• Type 2





# Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ТСМ	BCM	Combination meter	ABS actua- tor and elec- tric unit (control unit)	IPDM E/R
A/C compressor request signal	Т					R
Accelerator pedal position signal	Т	R				
ASCD CRUISE lamp signal	Т			R		
ASCD OD cancel request	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 temperature signal	Т			R		

Revision: September 2005

Signals	ECM	ТСМ	BCM	Combination meter	ABS actua- tor and elec- tric unit (control unit)	IPDM E/R	A
Engine speed signal	Т	R		R			В
Engine status signal	Т		R				-
Fuel consumption monitor signal	Т			R			-
Malfunction indicator lamp signal	Т			R			С
Power generation command value signal	Т					R	
Wide open throttle position signal	Т	R					D
A/T fluid temperature sensor signal		Т		R			-
A/T position indicator lamp signal		Т		R			E
A/T self-diagnosis signal	R	Т					-
O/D OFF indicator signal		Т		R			-
Output shaft revolution signal	R	Т					F
Turbine revolution signal	R	Т					-
A/C switch signal	R		Т				G
Blower fan motor switch signal	R		Т				
Buzzer output signal			Т	R			-
Day time running light request signal			Т	R		R	Н
Door switch signal			Т	R		R	-
Front fog light request signal			Т	R		R	-
Front wiper request signal			Т			R	-
High beam request signal			Т	R		R	-
Horn chirp signal			Т			R	J
Ignition switch signal			Т			R	-
Low beam request signal			Т			R	-
Position light request signal			Т	R		R	LA
Rear window defogger switch signal			Т			R	-
Sleep wake up signal			Т	R		R	
Theft warning horn request signal			Т			R	-
Turn indicator signal			Т	R			-
1st position switch signal		R		Т			M
Fuel level sensor signal	R			Т			-
Overdrive control switch signal		R		Т			-
Seat belt buckle switch signal			R	Т			-
Stop lamp switch signal		R		Т			-
				R	т		-
Vehicle speed signal	R	R	R	Т			-
ABS warning lamp signal				R	Т		_
Brake warning lamp signal				R	Т		_
Front wiper stop position signal			R			Т	_
High beam status signal	R					Т	_
Low beam status signal	R					Т	_
Rear window defogger control signal*	R					Т	

\*: VQ engine models only.

Revision: September 2005

#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

#### TYPE 4

#### System diagram

• Type 4



# Input/output signal chart

#### T: Transmit R: Receive

Signals	ECM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R
A/C compressor request signal	Т				R
Accelerator pedal position signal	Т			R	
ASCD CRUISE lamp signal	Т		R		
ASCD SET lamp signal	Т		R		
Cooling fan speed request signal	Т				R
Engine coolant temperature signal	Т		R		
Engine speed signal	Т		R	R	
Engine status signal	Т	R			
Fuel consumption monitor signal	Т		R		
Malfunction indicator lamp signal	Т		R		
Power generation command value signal	Т				R
A/C switch signal	R	Т			
Blower fan motor switch signal	R	Т			
Buzzer output signal		Т	R		
Day time running light request signal		Т	R		R
Door switch signal		Т	R		R
Front fog light request signal		Т	R		R
Front wiper request signal		Т			R
High beam request signal		Т	R		R
Horn chirp signal		Т			R
Ignition switch signal		Т			R
Low beam request signal		Т			R

Signals	ECM	BCM	Combination meter	ABS actuator and electric unit (control unit)	IPDM E/R	A
Position light request signal		Т	R		R	_
Rear window defogger switch signal		т			R	В
Sleep wake up signal		т	R		R	-
Theft warning horn request signal		Т			R	
Turn indicator signal		Т	R			
Fuel level sensor signal	R		Т			_
Seat belt buckle switch signal		R	Т			D
			R	Т		_
venicie speed signal	R	R	Т			-
ABS warning lamp signal			R	Т		
Brake warning lamp signal			R	Т		_
SLIP indicator lamp signal			R	Т		F
Front wiper stop position signal		R			Т	_
High beam status signal	R				Т	-
Low beam status signal	R				Т	G
Rear window defogger control signal	R				Т	_

#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

# TYPE 6/TYPE 7

# System diagram

• Type 6



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# Input/output signal chart

T: Transmit R: Receive

Signals	ECM	тсм	Differential lock con- trol unit <sup>*</sup>	BCM	Combina- tion meter	ABS actua- tor and electric unit (control unit)	IPDM E/R
A/C compressor request signal	Т						R
Accelerator pedal position signal	Т	R				R	
ASCD CRUISE lamp signal	Т				R		
ASCD OD cancel request	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 temperature signal	Т				R		
Engine speed signal	Т	R			R	R	
Engine status signal	Т			R			
Fuel consumption monitor signal	Т				R		
Malfunction indicator lamp signal	Т				R		
Power generation command value signal	т						R
Wide open throttle position signal	Т	R					
A/T fluid temperature sensor signal		Т			R		
A/T position indicator lamp signal		Т			R	R	
A/T self-diagnosis signal	R	Т					
O/D OFF indicator signal		Т			R		
Output shaft revolution signal	R	Т					
Turbine revolution signal	R	Т					
Differential lock indicator signal			Т			R	
Differential lock switch signal			Т			R	
A/C switch signal	R			Т			

Signals	ECM	ТСМ	Differential lock con- trol unit <sup>*</sup>	BCM	Combina- tion meter	ABS actua- tor and electric unit (control unit)	IPDM E/R	A
Blower fan motor switch signal	R			Т				
Buzzer output signal				Т	R			-
Day time running light request signal				Т	R		R	С
Door switch signal				Т	R		R	-
Front fog light request signal				Т	R		R	
Front wiper request signal				Т			R	D
High beam request signal				Т	R		R	-
Horn chirp signal				Т			R	Е
Ignition switch signal				Т			R	-
Low beam request signal				Т			R	-
Position light request signal				Т	R		R	F
Rear window defogger switch signal				Т			R	-
Sleep wake up signal				Т	R		R	G
Theft warning horn request signal				Т			R	
Turn indicator signal				Т	R			-
1st position switch signal		R			Т			Н
Fuel level sensor signal	R				Т			-
Overdrive control switch signal		R			Т			
Seat belt buckle switch signal				R	Т			
Stop lamp switch signal		R			Т			-
Vohicle speed signal			R		R	Т		J
	R	R		R	Т			
ABS warning lamp signal					R	Т		
Brake warning lamp signal					R	Т		LAN
SLIP indicator lamp signal					R	Т		-
Front wiper stop position signal				R			Т	L
High beam status signal	R						Т	-
Low beam status signal	R						Т	
Rear window defogger control signal	R						Т	IVI

\*: with electronic locking rear differential model only.

#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

## TYPE 8 System diagram



#### Input/output signal chart

T: Transmit R: Receive

Signals	ECM	BCM	Combination meter	Transfer con- trol unit	ABS actua- tor and elec- tric unit (control unit)	IPDM E/R
A/C compressor request signal	Т					R
Accelerator pedal position signal	Т					
ASCD CRUISE lamp signal	Т		R			
ASCD SET lamp signal	Т		R			
Cooling fan speed request signal	Т					R
Engine coolant temperature signal	Т		R			
Engine speed signal	Т		R	R		
Engine status signal	Т	R				
Fuel consumption monitor signal	Т		R			
Malfunction indicator lamp signal	Т		R			
Power generation command value signal	Т					R
A/C switch signal	R	Т				
Blower fan motor switch signal	R	Т				
Buzzer output signal		Т	R			
Day time running light request signal		Т	R			R
Door switch signal		Т	R			R
Front fog light request signal		Т	R			R
Front wiper request signal		Т				R
High beam request signal		Т	R			R
Horn chirp signal		Т				R
Ignition switch signal		Т				R
Low beam request signal		Т				R
Position light request signal		Т	R			R
Rear window defogger switch signal		Т				R

Revision: September 2005
Signals	ECM	BCM	Combination meter	Transfer con- trol unit	ABS actua- tor and elec- tric unit (control unit)	IPDM E/R	ļ
Sleep wake up signal		Т	R			R	E
Theft warning horn request signal		Т				R	
Turn indicator signal		Т	R				
Fuel level sensor signal	R		Т				(
Seat belt buckle switch signal		R	Т				
Vahiala anaod signal			R	R	Т		D
venicie speed signal	R	R	Т				
ABS warning lamp signal			R		Т		
Brake warning lamp signal			R		Т		E
Stop lamp switch signal				R	Т		
Front wiper stop position signal		R				Т	
High beam status signal	R					Т	Γ
Low beam status signal	R					Т	
Rear window defogger control signal	R					Т	C

### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

## **TYPE 9/TYPE 10**

## System diagram

• Type 9



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## Input/output signal chart

T: Transmit R: Receive

Signals	ECM	Differential lock con- trol unit <sup>*</sup>	BCM	Combina- tion meter	Transfer control unit	ABS actua- tor and electric unit (control unit)	IPDM E/R
A/C compressor request signal	Т						R
Accelerator pedal position signal	Т					R	
ASCD CRUISE lamp signal	Т			R			
ASCD SET lamp signal	Т			R			
Cooling fan speed request signal	Т						R
Engine coolant temperature signal	Т			R			
Engine speed signal	Т			R	R	R	
Engine status signal	Т		R				
Fuel consumption monitor signal	Т			R			
Malfunction indicator lamp signal	Т			R			
Power generation command value signal	Т						R
Differential lock indicator signal		Т				R	
Differential lock switch signal		Т				R	
A/C switch signal	R		Т				
Blower fan motor switch signal	R		Т				
Buzzer output signal			Т	R			
Day time running light request signal			Т	R			R
Door switch signal			Т	R			R
Front fog light request signal			Т	R			R
Front wiper request signal			Т				R
High beam request signal			Т	R			R
Horn chirp signal			Т				R
Ignition switch signal			Т				R
Low beam request signal			Т				R
Position light request signal			Т	R			R

Revision: September 2005

Signals	ECM	Differential lock con- trol unit <sup>*</sup>	BCM	Combina- tion meter	Transfer control unit	ABS actua- tor and electric unit (control unit)	IPDM E/R
Rear window defogger switch signal			Т				R
Sleep wake up signal			Т	R			R
Theft warning horn request signal			Т				R
Turn indicator signal			Т	R			
Fuel level sensor signal	R			Т			
Seat belt buckle switch signal			R	Т			
Vahiela spood signal		R		R	R	Т	
venicie speed signal	R		R	Т			
4WD shift switch signal		R			Т		
ABS warning lamp signal				R		Т	
Brake warning lamp signal				R		Т	
SLIP indicator lamp signal				R		Т	
Stop lamp switch signal					R	Т	
Front wiper stop position signal			R				Т
High beam status signal	R						Т
Low beam status signal	R						Т
Rear window defogger control signal	R						Т

\*: with electronic locking rear differential model only.

#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

### TYPE 11 System diagram

• Type 11



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## Input/output signal chart

Signals	ECM	ТСМ	BCM	Combina- tion meter	Transfer control unit	ABS actua- tor and electric unit (control unit)	IPDM E/R
A/C compressor request signal	Т						R
Accelerator pedal position signal	Т	R					
ASCD CRUISE lamp signal	Т			R			
ASCD OD cancel request	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 temperature signal	Т			R			
Engine speed signal	Т	R		R	R		
Engine status signal	Т		R				
Fuel consumption monitor signal	Т			R			
Malfunction indicator lamp signal	Т			R			
Power generation command value signal	Т						R
Wide open throttle position signal	Т	R					
A/T fluid temperature sensor signal		Т		R			
A/T position indicator lamp signal		Т		R	R		
A/T self-diagnosis signal	R	Т					
O/D OFF indicator signal		Т		R			
Output shaft revolution signal	R	Т			R		
Turbine revolution signal	R	Т					
A/C switch signal	R		Т				
Blower fan motor switch signal	R		Т				
Buzzer output signal			Т	R			
Day time running light request signal			Т	R			R
Door switch signal			Т	R			R
Front fog light request signal			Т	R			R
Front wiper request signal			Т				R
High beam request signal			Т	R			R
Horn chirp signal			Т				R
Ignition switch signal			Т				R
Low beam request signal			Т				R
Position light request signal			Т	R			R
Rear window defogger switch signal			Т				R
Sleep wake up signal			Т	R			R
Theft warning horn request signal			Т				R
Turn indicator signal			Т	R			
1st position switch signal		R		Т			

T: Transmit R: Receive

Signals	ECM	ТСМ	BCM	Combina- tion meter	Transfer control unit	ABS actua- tor and electric unit (control unit)	IPDM E/R	A
Fuel level sensor signal	R			Т				
Overdrive control switch signal		R		Т				
Seat belt buckle switch signal			R	Т				C
Stop Jamp switch signal		R		Т				
					R	Т		Г
Vehicle speed signal				R	R	Т		L
venicie speed signal	R	R	R	Т				
ABS warning lamp signal				R		Т		E
Brake warning lamp signal				R		Т		
Front wiper stop position signal			R				Т	
High beam status signal	R						Т	F
Low beam status signal	R						Т	
Rear window defogger control signal	R						Т	(.

#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

## **TYPE 12/TYPE 13**

### System diagram

Type 12 •



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## Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ТСМ	Differen- tial lock control unit <sup>*</sup>	BCM	Combina- tion meter	Transfer control unit	ABS actuator and elec- tric unit (control unit)	IPDM E/ R
A/C compressor request signal	Т							R
Accelerator pedal position signal	Т	R					R	
ASCD CRUISE lamp signal	Т				R			
ASCD OD cancel request	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 temperature signal	Т				R			
Engine speed signal	Т	R			R	R	R	
Engine status signal	Т			R				
Fuel consumption monitor signal	Т				R			
Malfunction indicator lamp signal	Т				R			
Power generation command value signal	т							R
Wide open throttle position signal	Т	R						
A/T fluid temperature sensor signal		Т			R			
A/T position indicator lamp signal		Т			R	R		
A/T self-diagnosis signal	R	Т						
O/D OFF indicator signal		Т			R			
Output shaft revolution signal	R	Т				R		
Turbine revolution signal	R	Т						
Differential lock indicator signal			Т				R	
Differential lock switch signal			Т				R	

Revision: September 2005

Signals	ECM	ТСМ	Differen- tial lock control unit <sup>*</sup>	BCM	Combina- tion meter	Transfer control unit	ABS actuator and elec- tric unit (control unit)	IPDM E/ R	A B
A/C switch signal	R			Т					
Blower fan motor switch signal	R			Т					С
Buzzer output signal				Т	R				0
Day time running light request signal				Т	R			R	
Door switch signal				Т	R			R	D
Front fog light request signal				Т	R			R	
Front wiper request signal				Т				R	
High beam request signal				Т	R			R	
Horn chirp signal				Т				R	
Ignition switch signal				Т				R	F
Low beam request signal				Т				R	
Position light request signal				Т	R			R	
Rear window defogger switch signal				Т				R	G
Sleep wake up signal				Т	R			R	
Theft warning horn request signal				Т				R	Н
Turn indicator signal				Т	R				
1st position switch signal		R			Т				
Fuel level sensor signal	R				Т				
Overdrive control switch signal		R			Т				
Seat belt buckle switch signal				R	Т				J
Stop Jomp quitch gignal		R			Т				
Stop lamp switch signal						R	Т		
Vahiala apaad aignal			R		R	R	Т		LA
venicie speed signal	R	R		R	Т				
4WD shift switch signal			R			Т			1
ABS warning lamp signal					R		Т		
Brake warning lamp signal					R		Т		
SLIP indicator lamp signal					R		Т		M
Front wiper stop position signal				R				Т	
High beam status signal	R							Т	
Low beam status signal	R							Т	
Rear window defogger control signal	R							Т	

\*: with electronic locking rear differential model only.

#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

Revision: September 2005

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## TYPE 14/TYPE 15 System diagram

• Type 14



### Input/output signal chart

T: Transmit R: Receive

Signals	ECM	ТСМ	Differ- ential lock control unit <sup>*</sup>	Steer- ing angle sensor	BCM	Combi- nation meter	Trans- fer con- trol unit	ABS actua- tor and electric unit (control unit)	IPDM E/ R
A/C compressor request signal	Т								R
Accelerator pedal position signal	Т	R						R	
ASCD CRUISE lamp signal	Т					R			
ASCD OD cancel request	Т	R							
ASCD operation signal	Т	R							
ASCD SET lamp signal	Т					R			
Battery voltage signal	Т	R							
Closed throttle position signal	Т	R							

Revision: September 2005

Signals	ECM	ТСМ	Differ- ential lock control unit <sup>*</sup>	Steer- ing angle sensor	BCM	Combi- nation meter	Trans- fer con- trol unit	ABS actua- tor and electric unit (control unit)	IPDM E/ R
Cooling fan speed request signal	Т								R
Engine coolant temperature signal	Т					R			(
Engine speed signal	Т	R				R	R	R	
Engine status signal	Т				R				
Fuel consumption monitor signal	Т					R			
Malfunction indicator lamp signal	Т					R			
Power generation command value signal	т								R
Wide open throttle position signal	Т	R							
A/T fluid temperature sensor signal		Т				R			
A/T position indicator lamp signal		Т				R	R	R	
A/T self-diagnosis signal	R	Т							(
O/D OFF indicator signal		Т				R			
Output shaft revolution signal	R	Т					R		
Turbine revolution signal	R	Т							
Differential lock indicator signal			Т					R	
Differential lock switch signal			Т					R	
Steering angle sensor signal				Т				R	
A/C switch signal	R				Т				
Blower fan motor switch signal	R				Т				,
Buzzer output signal					Т	R			
Day time running light request signal					Т	R			R
Door switch signal					Т	R			R
Front fog light request signal					Т	R			R
Front wiper request signal					Т				R
High beam request signal					Т	R			R
Horn chirp signal					Т				R
Ignition switch signal					Т				R
Low beam request signal					Т				R
Position light request signal					Т	R			R
Rear window defogger switch signal					Т				R
Sleep wake up signal					Т	R			R
Theft warning horn request signal					Т				R
Turn indicator signal					Т	R			
1st position switch signal		R				Т			
Fuel level sensor signal	R					Т			
Overdrive control switch signal		R				Т			
Seat belt buckle switch signal					R	Т			
Stop Jamp switch signal		R				Т			
Stop lamp switch signal							R	Т	

Revision: September 2005

[CAN]

Signals	ECM	тсм	Differ- ential lock control unit <sup>*</sup>	Steer- ing angle sensor	BCM	Combi- nation meter	Trans- fer con- trol unit	ABS actua- tor and electric unit (control unit)	IPDM E/ R
Vehicle speed signal			R			R	R	Т	
venicie spece signal	R	R			R	Т			
4WD shift switch signal			R				Т		
ABS warning lamp signal						R		Т	
Brake warning lamp signal						R		Т	
HDC indicator lamp signal						R		Т	
SLIP indicator lamp signal						R		Т	
VDC OFF indicator lamp signal						R		Т	
Front wiper stop position signal					R				Т
High beam status signal	R								Т
Low beam status signal	R								Т
Rear window defogger control signal	R								Т

\*: with electronic locking rear differential model only.

#### NOTE:

CAN data of the air bag diagnosis sensor unit is not used by usual service work, thus it is omitted.

	[CAN]
CAN SYSTEM (TYPE 1)	PFP:23710
Component Parts and Harness Connector Location	A UKS0054M
Refer to LAN-22, "Component Parts and Harness Connector Location".	
Schematic	UKS0054N
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UKS00540 C
Refer to LAN-24, "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.

				CAN DIA	AG SUPPOF	RT MNTR				
SELECT SYST	EM screen	Initial	Tranemit		1	Receive diag	gnosis		SELF-DIAC	<b>G RESULTS</b>
		diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	-	-	_	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	-	_	-	CAN COMM CIRCUIT (U1000)	-
		A	ttach cop	v of			Atta	ch copy c	of	
		SE	LECT SY	STEM			SELE	CT SYST	EM	
		L				L				



### **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 data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u> <u>245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit"</u>.

							noeie			
SELECT SYST	EM screen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULTS
ENGINE	_		UNKWN		UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMMCIRCUIT (U 1000)	
ABS	-	NG	UNKWN	UNKWN	-		-	-	CAN COMMCIRCUIT (UN00)	
IPDM E/R	inditation		UNKWN	UNKWN	UNKWN	-	-	1	CAN COMMCIRCUIT (UN00)	



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#### Case 2

Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

				CAN DIA	AG SUPPOF	RT MNTR					
	Mscreen				F	Receive diag	gnosis		SELE-DIAG BESULTS		
3000 31310	IN SCIECT	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)		
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)		
ABS	-	NG	UNKWN	UNKWN		-	-	-	CAN COMM CIRCUIT (U 100)		
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN		-	-	CAN COMM CIRCUIT (UN00)		



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#### Case 3

Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYST	FM screen				F	Receive diag	gnosis			RESULTS
00001010101	Livisoreen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	HEODERO
ENGINE		-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
всм	indiation	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	N indication	-	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN					CAN COMM CIRCUIT (U1000)	
IPDM E/R	No inclusion		UNKWN	UNKWN	UNKWN				CAN COMM CIRCUIT (U1000)	



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#### Case 4

Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

				CAN DIA	AG SUPPOF	RT MNTR				
	Ascreen				F	Receive diag	Inosis			RESULTS
	a sereen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	HEODERO
ENGINE	-		UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No inditation	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	
ABS	-	NG	UNKWN	UNKWN		-	-	_	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN		-	-	CAN COMM CIRCUIT (U1000)	



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#### Case 5

Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

				CAN DIA	AG SUPPOF	RT MNTR				
	A screen				F	Receive diag	gnosis			BESUITS
OLLOT OTOTER	a sereen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM/CIRCUIT (UN01)
всм	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indivation	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	—
ABS	-	NG	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 ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-250</u>, "ABS Actuator and Electric Unit <u>(Control Unit) Circuit Inspection</u>".

				CAN DIA	AG SUPPOF	RT MNTR					
	TEM screen				F	Receive diag	gnosis		SELE-DIAG	RESULTS	
00000000	new sereen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC		
ENGINE	_		UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)		
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)		
ABS	-	V	UNKWN	UNKWN			-	-	CAN COMMCIRCUIT (UN00)		
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN		—	_	CAN COMM CIRCUIT (U1000)		



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#### Case 7

Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

				CAN DIA	AG SUPPOP				-	
SELECT SYSTEM	M screen		<b>.</b> .		F	Receive diag	gnosis		SELE-DIA	BESULTS
		diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	CEL DI	
ENGINE	- 1	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	
ABS	-	NG	UNKWN	UNKWN			-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No ind ation	-	UNKWN	UNKWN	UNKWN		-	-	CAN COMM/CIRCUIT (U1000)	-



#### Case 8

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

				CAN DIA	AG SUPPOF	RT MNTR				
SELECT SYSTE	Miscreen				F	Receive diag	gnosis		SELE-DIAG	RESULTS
02220101010		Initial diagnosis	Iransmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DINC	
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM/CIRCUIT (UN01)
всм	No individuation	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No individuation	-	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	and an
ABS	-	V	UNKWN	UNKWN				-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No individuation		UNKWN	UNKWN	UNKWN			-	CAN COMMCIRCUIT (UN00)	-

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#### Case 9

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-252, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CAN DIA	G SUPPOF	RT MNTR					
SELECT SYS	FM screen				F	Receive diag	gnosis			RESULTS	
012101 010	LWBOICON	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TCAN COMM CIRCUIT	
ENGINE		-	UNKWN	-	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)		
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U100)		
ABS		NG	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)		
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN		-	-	CAN COMM CIRCUIT (U1000)		

#### Case 10

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CAN DIA	AG SUPPOF	RT MNTR				
	Ascreen				F	Receive diag	nosis		SELE-DIAG	RESULTS
SELOT STOLEN	scieen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODERO
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN			_	CAN COMM CIRCUIT (U1000)	-

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	[CAN]
CAN SYSTEM (TYPE 2)	PFP:23710
Component Parts and Harness Connector Location	UKS0054Q
Refer to LAN-22, "Component Parts and Harness Connector Location".	
Schematic	UKS0054R
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UK\$0054\$
Refer to LAN-24, "Wiring Diagram — CAN —".	

## **Check Sheet**

### NOTE:

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

				CA	N DIAG SL	JPPORT N	INTR				
SELECT SYSTE	M screen	Initial	Transmit			Receiv	e diagnosis T	3		SELF-DIA	G RESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	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	-	-	UNKWN	-		CAN COMM CIRCUIT (U1000)	
BCM	indication	NG	UNKWN	UNKWN		-	UNKWN	-	UNKWN	(U1000)	-
METER	indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	(U1000)	-
ABS		NG	UNKWN	UNKWN	-	-		-		(U1000)	-
PDM E/R	indication		UNKWN	UNKWN	_	UNKWN	-			(U1000)	-
		s	Attach o	copy of SYSTEM	1			Attack SELEC	n copy o F SYSTE	f EM	

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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-244</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

				CA	N DIAG SU	IPPORT M	NTR				
	l screen					Receive	e diagnosis			SELE-DIAG	RESULTS
OLLOT OTOTER	1 Soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELIPDIAC	
ENGINE	_		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
A/T	—	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMMCIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ABS	_	NG	UNKWN	UNKWN	-	-	-	-	-	CAN COMMCIRCUIT (U 1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMMCIRCUIT (U 1000)	-



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#### Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u>245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

				CA	N DIAG SU	<b>JPPORT M</b>	INTR				
SELECT SYSTEM	1 screen					Receive	e diagnosis	3		SELE-DIAG	BESHITS
SELECTOTOTER	scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE	-		UNKWN		UNKWN	UNKWN	UNKWN	-	UNIWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	—	UNKWN	-		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u>~</u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-		CAN COMM CIRCUIT (U100)	
IPDM E/R	No		UNKWN	UNKWN	-	UNKWN	-	-		CAN COMM CIRCUIT (U1 00)	-





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### Case 3

Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

				CA	N DIAG SU	JPPORT M	NTR				
	l screen		-			Receive	e diagnosis	5		SELE-DIAG	BESHITS
	1 Soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELI DIAC	
ENGINE	_		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMMCIRCUIT (UN00)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	—	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u></u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U N00)	-
ABS	-	NG	UNKWN	UNKWN	-	—	—	-	-	CAN COMMCIRCUIT (U 1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMMCIRCUIT (U 1000)	—



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#### Case 4

Check TCM circuit. Refer to LAN-247, "TCM Circuit Inspection" .

				CA	N DIAG SU	JPPORT M	NTR				
SELECT SYSTEM	A screen		<del></del>			Receive	e diagnosis	5		SELE-DIAG	BESHITS
		lnitial diagnosis	Iransmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLEF DIVIC	
ENGINE	-		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMMCIRCUIT (U100)	CAN COMMCIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u>~</u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	
ABS	-	NG	UNKWN	UNKWN	-	—	—	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-



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#### Case 5

Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

				CA	N DIAG SU	JPPORT M	NTR				
SELECT SYS	TEM screen					Receive	e diagnosis	;		SELE-DIAG	BESHITS
BLEEDT BTO		Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELI DIAC	
ENGINE	_		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	—	UNKWN	-		CAN COMM CIRCUIT (U1000)	
BCM	No indivation	NG	UNKWN	UNKWN	-		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u></u>
METER	indication		UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	-	—	—	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indition		UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-



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#### Case 6

Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

				CA	N DIAG SU	JPPORT M	NTR				
	1 screen		_			Receive	e diagnosis	3		SELE-DIAG	BESHITS
OLLOT OTOTER	a soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELINDIAC	
ENGINE	_		UNKWN	_	UNKWN	UNION	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
BCM	indivation	NG	UNKWN	UNKWN	-		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u> </u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	—	-	-	CAN COMM CIRCUIT (U100)	-



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#### Case 7

Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

				CA	N DIAG SU	JPPORT M	NTR				
SELECT SYST	FM screen					Receive	e diagnosis	;		SELEDIAG	BESHITS
ULLUT UTUT		Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GEEFDIAC	
ENGINE			UNKWN		UNKWN	UNKWN	UNIOWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-	—	UNION	-		CAN COMM CIRCUIT (U100)	
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u></u>
METER	indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	
ABS	-	NG	UNKWN	UNKWN	-	—	-	-	-	CAN COMM CIRCUIT (U1000)	<u> </u>
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN		-	-	CAN COMM CIRCUIT (U1000)	



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#### Case 8

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-250</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

				CA	N DIAG SU	JPPORT M	NTR				
SELECT SYSTE	Macroon		_			Receive	e diagnosis	;		SELE-DIAG	BESHITS
occor or or or or	a soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELINDIAC	
ENGINE			UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN	-	—	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u></u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1 0)	
ABS		V	UNION	UNION	-	—	—	-		CAN COMM CIRCUIT (U100)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN		-		CAN COMM CIRCUIT (U1000)	-

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#### Case 9

Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

				CA	N DIAG SU	JPPORT M	NTR				
	Macroon					Receive	e diagnosis	;		SELEDIAG	
SELECT STOLE	W SCIEEN	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE DIAC	THEODERS
ENGINE	-		UNKWN	_	UNKWN	UNKWN	UNKWN	-		CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No inditation		UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM/CIRCUIT (U100)	—



### Case 10

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

				CA	N DIAG SC						
SELECT SYSTEM	A screen	laitial	Transmit			Receive	e diagnosis	s		SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMMCIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	-		CAN COMM CIRCUIT (U100)	
BCM	No inditation	NG	UNKWN	UNKWN	-		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u></u>
METER	No		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	
ABS	-	V	UNKWN	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U100)	
IPDM E/R	No inditation		UNKWN	UNKWN		UNKWN		-		CAN COMM CIRCUIT (U100)	

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#### Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CA	N DIAG SU	JPPORT M	NTR				
	Miscroon					Receive	e diagnosis	5		SELEDIAG	
SELECTOR	IN SCIECT	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODERS
ENGINE			UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1 00)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	—	UNKWN	-		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	-
ABS		NG	UNKWN	UNKWN	-	—	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-		CAN COMM CIRCUIT (U1000)	-

#### Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CA	N DIAG SU	JPPORT M	NTR				
SELECT SYSTEM	screen					Receive	e diagnosis	3		SELE-DIAG	BESHITS
SEECT STOLEN	- Soreen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELI DIAC	
ENGINE			UNKWN	<u> </u>	UNKWN	UNKWN	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	-	—	-	-	-	CAN COMM CIRCUIT (U100)	
BCM	No indication	NG	UNKWN	UNKWN			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U100)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN		-		CAN COMM CIRCUIT (U1000)	-

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CAN SYSTEM (TYPE 3)	PFP:23710
Component Parts and Harness Connector Location	A UKS0054U
Refer to LAN-22, "Component Parts and Harness Connector Location".	
Schematic	UKS0054V
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UKS0054W C
Refer to <u>LAN-24, "Wiring Diagram — CAN —"</u> .	
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## Check Sheet

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### NOTE:

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

Creen c No ndication No ndication No ndication	Initial diagnosis  NG  NG 	Transmit diagnosis UNKWN UNKWN UNKWN UNKWN	ECM UNKWN UNKWN UNKWN	BCM /SEC UNKWN — UNKWN	Receive diag METER /M&A UNKWN UNKWN	nosis VDC/TCS /ABS —	IPDM E/R UNKWN	SELF-DIAG CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT
No ndication ndication 	diagnosis — NG — NG NG —	diagnosis UNKWN UNKWN UNKWN UNKWN	ECM UNKWN UNKWN UNKWN	BCM /SEC UNKWN  UNKWN	METER /M&A UNKWN UNKWN	VDC/TCS /ABS —	ipdm E/r Unkwn	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI
No ndication No ndication No ndication	NG  NG 	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	UNKWN 	UNKWN		UNKWN	U1000)	U1001)
No ndication No 	NG 	UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	UNKWN	UNKWN				
No ndication  No ndication	 NG 	UNKWN UNKWN UNKWN	UNKWN	UNKWN	I		UNKWN	CAN COMM CIRCUIT (U1000)	-
	NG 	UNKWN UNKWN	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
No ndication	-	UNKWN			-	-	-	CAN COMM CIRCUIT (U1000)	
			UNKWN	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	-
					 Г				
	A SEL	ttach cop ₋ECT SY	y of STEM			Attach copy of SELECT SYSTEM		f EM	
		ASEI	Attach cop SELECT SYS	Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM	Attach copy of   SELECT SYSTEM	Attach copy of SELECT SYSTEM	Attach copy of   SELECT SYSTEM


### **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 data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u> 245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

SELECT SYSTE	M screen	Initial	Transmit		1	receive diag	inosis		SELF-DIAG	I RESULTS
		diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
ВСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	I	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	1	1	-	_	CAN COMMCIRCUIT (U 1000)	
IPDM E/R	No inditation		UNKWN	UNKWN	UNKWN		—		CAN COMMCIRCUIT (U1000)	
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#### Case 2

Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

				CAN DIA	AG SUPPOF	RT MNTR				
	Ascroon				F	Receive diag	gnosis			RESINTS
5000000000000	VI SCIEEII	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		INEGOEIG
ENGINE	T	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
BCM	No indication	NG	UNKWN	UNKWN	—	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ABS	-	NG	UNKWN	UNKWN	-	-		-	CAN COMM CIRCUIT (U 100)	
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN			-	CAN COMM CIRCUIT (UN00)	



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#### Case 3

Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

				CAN DIA	AG SUPPOF	RT MNTR				
	FM screen				F	Receive diag	gnosis			RESULTS
occor or or or	LINGOLOGI	Initial diagnosis	Iransmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	HEODERO
ENGINE	-		UNKWN	-	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	indication	-	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN				-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	Ny indiation		UNKWN	UNKWN	UNKWN				CAN COMM CIRCUIT (U1000)	



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#### Case 4

Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

				CAN DIA	AG SUPPOF	RT MNTR				
SELECT SYSTEM	l screen				F	Receive diag	jnosis			RESULTS
occor bronch	1 doreen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOULIO
ENGINE			UNKWN	-	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No inditation	NG	UNKWN	UNKWN	-	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	alian.
ABS	-	NG	UNKWN	UNKWN				-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN			-	CAN COMM CIRCUIT (U1000)	



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#### Case 5

Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

				CAN DIA	AG SUPPOF	RT MNTR				
	A screen				F	Receive diag	gnosis			BESUITS
OLLOT OTOTER	a sereen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM/CIRCUIT (UN01)
всм	No indication	NG	UNKWN	UNKWN	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indivation	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	—
ABS	-	NG	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 ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-250</u>, "ABS Actuator and Electric Unit <u>(Control Unit) Circuit Inspection</u>".

				CAN DIA	G SUPPOF	RT MNTR				
SELECT SYSTE	M screen		+ "		F	Receive diag	Inosis		SELE-DIAG	RESULTS
	W Solcen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	_		UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ABS	-	V	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (UN 00)	
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	



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#### Case 7

Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

				CAN DIA	AG SUPPOF				-	
SELECT SYSTE	M screen		<b>.</b> .		F	Receive diag	inosis		SELE-DIA	<b>BRESULTS</b>
		diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	CEL DI	
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U 101)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMMICIRCUIT (UN00)	
ABS		NG	UNKWN	UNKWN		-	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No ind ation	-	UNKWN	UNKWN	UNKWN	-	-	_	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No individuation		UNKWN	UNKWN	UNKWN	_		-		



#### Case 8

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

				CAN DIA	AG SUPPOF	RT MNTR				
SELECT SYST	-M scroon				F	Receive diag	gnosis			RESULTS
outor or or or		Initial diagnosis	Iransmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE		-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM/CIRCUIT (UN01)
всм	No ind ation	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indivation	-	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ABS	-	V	UNKWN	UNKWN			-	-	CAN COMMCIRCUIT (UN00)	
IPDM E/R	No indivation		UNKWN	UNKWN	UNKWN			-	CAN COMMCIRCUIT (UN00)	-

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#### Case 9

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-252, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CAN DIA	G SUPPOF	T MNTR				
SELECT SYST	FM screen				F	Receive diag	jnosis			RESULTS
00001010101	LWBOICON	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOULIU
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	
ABS	-	NG	UNKWN	UNKWN	-	-	-	1	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN		_	_	CAN COMM CIRCUIT (U1000)	

#### Case 10

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CAN DIA	G SUPPOF	RT MNTR				
	l screen				F	Receive diag	nosis		SELE-DIAG	RESULTS
OLLOT OTOTEN	1 doreen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	HEODERO
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	1	I	-	I	CAN COMMCIRCUIT (U 1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	UNKWN	-		-	CAN COMM CIRCUIT (U1000)	-

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	[CAN]
CAN SYSTEM (TYPE 4)	PFP:23710
Component Parts and Harness Connector Location	UKS0054Y
Refer to LAN-22, "Component Parts and Harness Connector Location".	
Schematic	UKS0054Z
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UK\$00550
Refer to LAN-24, "Wiring Diagram — CAN —".	

### **Check Sheet**

### NOTE:

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

SELECT SYSTEM BCROON       Receive diagnosis       SELF-DIAG RESULTS         NGINE       -       -       UNKWN       -       UNKWN       UNKWN       UNKWN       CAN COMM CIRCUIT CAN COMM CIRCUIT         NGINE       -       -       UNKWN       -       UNKWN       UNKWN       UNKWN       UNKWN       CAN COMM CIRCUIT       CAN COMM CIRCUIT       CAN COMM CIRCUIT         CM       MG       UNKWN       -       UNKWN       -       UNKWN       -       UNKWN       CAN COMM CIRCUIT       CAN COMM CIRCUIT         CM       MG       UNKWN       UNKWN       -       UNKWN       -       UNKWN       CAN COMM CIRCUIT       -         BS       -       NG       UNKWN       UNKWN       -       -       -       CAN COMM CIRCUIT       -         Ibidiation       -       UNKWN       UNKWN       -       -       -       CAN COMM CIRCUIT       -         Ibidiation       -       UNKWN       UNKWN       -       -       -       CAN COM CIRCUIT       -         Ibidiation       -       UNKWN       UNKWN       UNKWN       -       -       -       CAN COM CIRCUIT       -         Ibidiation	SELECT SYSTEM screen     nelal     Transmitt     Transmitt     Transmitt     SELF-DIAG RESULTS       NGINE     -     -     UNKWN	SELECT SYSTEM scriver     SELF-DIAG RESULTS       Indial     Targenal     Targenal     Self     Self     Self       NG/NE     -     -     UNKOW				1	CAN DI	AG SUPPOR	T MNTR			_	
diagnosis     diagnosis     ECM     BCM     METER     VDC/TCS     IPDM       NGINE     -     -     UNKWN     -     UNKWN     UNKWN </th <th>dogroup         dogroup         ECM         BCM         METRER         PD/CTCS         IPUM           NGINE         -         -         UNKWN         -         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         -         UNKWN         UNKWN         -         UNKWN         UNKWN         -         UNKWN         -         UNKWN         -         -         -         CAM COMM CIRCUIT         -         -         -         -         0         -</th> <th>Image:         Image:         Image:&lt;</th> <th>SELECT SYSTEM</th> <th>/l screen</th> <th>Initial</th> <th>Transmit</th> <th></th> <th>Recei</th> <th>ve diagnosis</th> <th></th> <th></th> <th>SELF-DIAG</th> <th><b>G</b>RESULTS</th>	dogroup         dogroup         ECM         BCM         METRER         PD/CTCS         IPUM           NGINE         -         -         UNKWN         -         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         -         UNKWN         UNKWN         -         UNKWN         UNKWN         -         UNKWN         -         UNKWN         -         -         -         CAM COMM CIRCUIT         -         -         -         -         0         -	Image:         Image:<	SELECT SYSTEM	/l screen	Initial	Transmit		Recei	ve diagnosis			SELF-DIAG	<b>G</b> RESULTS
NGINE          UNKWN          UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         CAN COMM CIRCUIT (J1000)         CAN COMM CIRCUIT (J1001)         CAN COMM CIRCUIT (J1001)           UNKWN          UNKWN          UNKWN          UNKWN          UNKWN          UNKWN          UNKWN          UNKWN           UNKWN              CAN COMM CIRCUIT             CAN COMM CIRCUIT            CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT            CAN COM CIRCUIT	NGINE         -         -         UNKWN         -         UNKWN         UNKWN	NGINE         -         -         UNKWN         UNKWN </th <th></th> <th></th> <th>diagnosis</th> <th>diagnosis</th> <th>ECM</th> <th>BCM /SEC</th> <th>METER /M&amp;A</th> <th>VDC/TCS /ABS</th> <th>IPDM E/R</th> <th></th> <th></th>			diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
CM     NG     UNKWN     UNKWN     -     UNKWN     -     UNKWN       ETER     Indication     -     UNKWN     UNKWN     -     UNKWN     UNKWN     -       BS     -     NG     UNKWN     UNKWN     -     -     -     CAN COMM CIRCUIT (U1000)     -       BS     -     NG     UNKWN     UNKWN     -     -     -     -     CAN COMM CIRCUIT (U1000)     -       BS     -     NG     UNKWN     UNKWN     -     -     -     -     CAN COMM CIRCUIT (U1000)     -       I'DM E/R     No     -     UNKWN     UNKWN     -     -     -     CAN COMM CIRCUIT (U1000)     -       ymptoms :     -     -     UNKWN     UNKWN     UNKWN     -     -     -     CAN COMM CIRCUIT (U1000)     -	ICM NG NG UNKWN UNKWN - UNKWN - UNKWN CAN UNKWN - UNKWN CAN COM CIPCUT - HETER MG - UNKWN UNKWN UNKWN - UNKWN UNKWN CAN CAN COM CIPCUT - HISS - NG UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG - UNKWN UNKWN UNKWN UNKWN CAN COM CIPCUT - 20M E/R MG UNKWN UNKWN UNKWN UNKWN	No.       No.       UNKWN        UNKWN        UNKWN                    000000000000000000000000000000000000	INGINE	-		UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
ETER       No       -       UNKWN       -       -       -       -       CAN COMM CIRCUIT       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       CAN COMM CIRCUIT       -       -       -       -       CAN COMM CIRCUIT       -       -       -       -       CAN COMM CIRCUIT       -       -       -       -       -       CAN COMM CIRCUIT       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <td>ETER       Indication        UNKWN       UNKWN         UNKWN       UNKW</td> <td>TER       No        UNKWN       UNKWN        UNKWN       UNKWN          CAN COMM CIRCUIT          BS        NG       UNKWN       UNKWN           CAN COMM CIRCUIT           CAN COMM CIRCUIT            CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COM MILLING         CAN COM MILLING         CAN COM MILLING          CAN COM MILLING          CAN COM MILLING          CAN COM MILLING          CAN COM MILLING           CAN COM MILLING</td> <td>СМ</td> <td>No indication</td> <td>NG</td> <td>UNKWN</td> <td>UNKWN</td> <td>-</td> <td>UNKWN</td> <td>-</td> <td>UNKWN</td> <td>CAN COMM CIRCUIT (U1000)</td> <td></td>	ETER       Indication        UNKWN       UNKWN         UNKWN       UNKW	TER       No        UNKWN       UNKWN        UNKWN       UNKWN          CAN COMM CIRCUIT          BS        NG       UNKWN       UNKWN           CAN COMM CIRCUIT           CAN COMM CIRCUIT            CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT           CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COM MILLING         CAN COM MILLING         CAN COM MILLING          CAN COM MILLING          CAN COM MILLING          CAN COM MILLING          CAN COM MILLING           CAN COM MILLING	СМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
BS     -     NG     UNKWN     -     -     -     -     CAN COMM CIRCUIT     -       IDM E/R     Indication     -     UNKWN     UNKWN     UNKWN     -     -     -     CAN COMM CIRCUIT     -   ymptoms :	BS	as     Image: Mage: Ma	IETER	No	_	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
IDM E/R No - UNKWN UNKWN UNKWN CAN COMM CIRCUIT - ymptoms : Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	POMER No - UNKWN UNKWN CAN COM CIRCUIT -	POM ER No - UNKWN UNKWN CAN COMM CIRCUIT -	ABS	-	NG	UNKWN	UNKWN		-	-	-	CAN COMM CIRCUIT (U1000)	
ymptoms : Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	Symptoms : Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	Symptoms : Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	PDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_	_	-	CAN COMM CIRCUIT	-
Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM	Symptoms :										
Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM     Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM     Attach copy of SELECT SYSTEM											
						Attach c SELECT S	opy of YSTEM			Attach c SELECT S	opy of SYSTEM		

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### Revision: September 2005

### 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 data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u>245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

				CAN DI	AG SUPPOR	Г MNTR				
SELECT SYSTEM	screen	Initial	Transmit		Receiv	ve diagnosis			SELF-DIAG	RESULTS
		diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	_	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM/CIRCUIT (UN00)	_
ABS	-	NG	UNKWN	UNKWN	_	_	—	_	CAN COMM/CIRCUIT (UN00)	_
IPDM E/R	No inditation	_	UNKWN	UNKWN	UNKWN	_	-	_		-
										PKIC5874E



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#### Case 2

Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

				CAN D	AG SUPPOR	T MNTR				
	Maaroon				Recei	ve diagnosis				
SELECT STATE	W SCIEEN	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		I NEGOLI G
ENGINE	-	_	UNKWN	_	UNKWN		UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
BCM	No indication	NG	UNKWN	UNK	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKAN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	_	—	-	—	CAN COMMCIRCUIT (UN00)	-
IPDM E/R	No indication	_	UNKWN	UNKAVN	UNKWN	—	-	_	CAN COMM CIRCUIT (U1000)	-
										PKIC5875E



#### Case 3

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Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

				CAN DI	AG SUPPOR	Γ MNTR				
SELECT SYSTEM	screen				Receiv	ve diagnosis				BESULTS
	ocroom	lnitial diagnosis	Iransmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No inditation	NG	UNKWN	UNKWN	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No individual	_	UNKWN	UNKWN	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No inditation	_	UNKWN	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_



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#### Case 4

Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

				CAN D	AG SUPPOR	T MNTR				
	Miscroop				Recei	ve diagnosis				
	W SCIECT	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKIN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
BCM	No inditation	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKIVN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	_	—	-	_	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKIVN	_	-	_	CAN COMM CIRCUIT (UN00)	_
										PKIC5877E



#### Case 5

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Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

			r mntr	AG SUPPORT	CAN DI				
			/e diagnosis	Receiv				screen	SELECT SYSTEM
	IPDM E/R	VDC/TCS /ABS	METER /M&A	BCM /SEC	ECM	Iransmit diagnosis	Initial diagnosis	0010011	OLLEOT OTOTEM
CAN COMM CIRCUIT CAN COMM CIRCUIT (U1000) (U1001)	UNKWN	UNKWN	UNKVN	UNKWN	_	UNKWN	_	_	ENGINE
CAN COMM CIRCUIT (U1000) —	UNKWN	_	UNKIN	_	UNKWN	UNKWN	NG	No indication	BCM
CAN COMM CIRCUIT (U V00) -	UNKWN	UNKWN	_	UNKWN	UNKWN	UNKWN	_	Individual	METER
CAN COMM CIRCUIT (U1000)	_	_	_	_	UNKWN	UNKWN	NG	_	ABS
CAN COMM CIRCUIT	_	_	-	UNKWN	UNKWN	UNKWN	_	No indication	IPDM E/R



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#### Case 6

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-250</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

				CAN D	IAG SUPPOR	T MNTR				
SELECT SYSTE	M screen	1.50	- ··		Recei	ve diagnosis	_		SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKOVN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKOVN	UNKWN	CAN COMM CIRCUIT (UN00)	—
ABS	_	N/	UNKOVN	UNKOVN	_	-	_	_	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_
					1		1		1 (*****	L



#### Case 7

Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

				CAN DI	AG SUPPORT	Г MNTR				
SELECT SYSTEM	screen				Receiv	ve diagnosis				BESULTS
JELEOT OT STER		Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNK	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
BCM	No indication	NG	UNKWN	UNKWN	_	UNKWN	_	UNKOVN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	_	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKOVN	CAN COMM CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	—	—	—	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indivation	_	UNKWN	UNKWN	UNKWN	_	_	_	CAN COMM CIRCUIT	_



#### Case 8

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

				CAN DI	AG SUPPOR	T MNTR				
SELECT SYSTEM	A screen				Recei	ve diagnosis			SELE-DIAG	BESULTS
		Initial diagnosis	lransmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKOVN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	indication	_	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	_
ABS	-	V	UNKINN	UNKIVN	-	—	—	_	CAN COMM CIRCUIT (UV00)	_
IPDM E/R	No indivation	_	UNKWN	UNKWN	UNKWN	-	_	_	CAN COMM CIRCUIT (UN00)	—
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#### Case 9

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-252, "IPDM E/R Ignition Relay Circuit Inspection" .

				CAN DI	AG SUPPOR	T MNTR					
	Ascreen				Recei	ve diagnosis				BESULTS	
SELECT STOLE	1 3010011	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R			
ENGINE	-	_	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)	
всм	No indication	NG	UNKWN	UNKWN	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_	
METER	No indication	_	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	_	
ABS	-	NG	UNKWN	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	—	
IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_	
	•										

#### Case 10

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-252, "IPDM E/R Ignition Relay Circuit Inspection"

				CAN D	AG SUPPOR	T MNTR				
	EM scroop				Recei	ve diagnosis				RESULTS
366601 3131		Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	_	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	_	NG	UNKWN	_	_	_	-	_	CAN COMM CIRCUIT (UN00)	_
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 UKS00552
Refer to LAN-22, "Component Parts and Harness Connector Location".	
Schematic	UKS00553
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UKS00554 C
Refer to <u>LAN-24, "Wiring Diagram — CAN —"</u> .	
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### Check Sheet

#### UKS00555

#### NOTE:

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

				CA	N DIAG SU	<b>JPPORT M</b>	NTR				
SELECT SYST	FM screen					Receive	e diagnosis	3			RESULTS
	Lin Scicen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELFDIAC	
ENGINE	-		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN		-	UNKWN	-		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN		-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	-	-		-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN		-		CAN COMM CIRCUIT (U1000)	

Symptoms :



Attach copy of SELECT SYSTEM



### 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-244, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

				CA	N DIAG SU	JPPORT M	NTR				
SELECT SYSTEM	screen		_			Receive	e diagnosis	5		SELE-DIAG	BESHITS
	1 Sorcen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELI DIAC	
ENGINE			UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	—	UNKWN	-	-	CAN COMMCIRCUIT (U N00)	
BCM	No indication	NG	UNKWN	UNKWN			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u>~</u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	-	-	—	-	-	CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMMCIRCUIT (U1000)	-



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#### Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u> 245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

				CA	N DIAG SU	<b>JPPORT M</b>	NTR				
SELECT SYSTEM	screen		_			Receive	e diagnosis	;		SELE-DIAG	BESHITS
OLLOT OTOTEN	ourcen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELI DIAC	
ENGINE			UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
A/T		NG	UNKWN	UNKWN	-		UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	UNHWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U100)	
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U100)	
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-	-		CAN COMM CIRCUIT (U100)	



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#### Case 3

Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

				CA	N DIAG SL	JPPORT M	NTR				
SELECT SYSTEM	l screen					Receive	e diagnosis	3		SELE-DIAG	BESHITS
beeconorone	1 Soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELINDIAC	
ENGINE			UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMMCIRCUIT (UN00)	CAN COMMCIRCUIT (U101)
A/T	_	NG	UNKWN	UNKWN	-	—	UNKWN	-	-	CAN COMM CIRCUIT (U N00)	
BCM	No indication	NG	UNKWN	UNKWN			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u>~</u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMMCIRCUIT (U N00)	-
ABS	_	NG	UNKWN	UNKWN		—	-	-		CAN COMMCIRCUIT (U 1000)	
PDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	—	-	-	CAN COMMCIRCUIT (U 1000)	-



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#### Case 4

Check TCM circuit. Refer to LAN-247, "TCM Circuit Inspection" .

				CA	N DIAG SU	PPORT M	NTR				
	Miscreen		_			Receive	e diagnosis	;		SELE-DIAG	RESULTS
5000000	IN SCIECT	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	_		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMMCIRCUIT (U100)	CAN COMMCIRCUIT (U1001)
A/T	—	NG	UNKWN	UNKWN	-	—	UNKWN	-	-	CAN COMM CIRCUIT (U100)	
BCM	No indication	NG	UNKWN	UNKWN			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	_
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	—



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#### Case 5

Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

				CA	N DIAG SU	PPORT M	NTR				
SELECT SYST	FM screen		_			Receive	e diagnosis	;		SELE-DIAG	BESHITS
ULLUT UTUT		Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELI-DIAC	
ENGINE	-		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
BCM	inditation	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	inditation		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indition		UNKWN	UNKWN	-	UNKWN		-		CAN COMM CIRCUIT (U1000)	-





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#### Case 6

Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

				CA	N DIAG SU	<b>JPPORT M</b>	NTR				
SELECT SYS	TEM screen		_			Receive	e diagnosis			SELE-DIAG	RESULTS
362201 313	I LIW SCIECT	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE			UNKWN		UNKWN	UNION	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	-	—	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
BCM	No inditation	NG	UNKWN	UNKWN			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u>~</u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	
ABS		NG	UNKWN	UNKWN	-	-	-	-	—	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U100)	



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#### Case 7

Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

				CA	N DIAG SU	JPPORT M	NTR				
SELECT SYSTEM	l screen		_			Receive	e diagnosis	5		SELE-DIAG	RESULTS
	1 Soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GEEFDIAC	
ENGINE	-		UNKWN		UNKWN	UNKWN	UNIOWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (UN01)
A/T	_	NG	UNKWN	UNKWN	-	—	UNKWN	-	-	CAN COMM CIRCUIT (U100)	
BCM	No indication	NG	UNKWN	UNKWN			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u> </u>
METER	indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	-
ABS	-	NG	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 ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-250</u>, "ABS Actuator and Electric Unit <u>(Control Unit) Circuit Inspection</u>".

				CA	N DIAG SU	PPORT M	NTR				
	1 scroon					Receive	e diagnosis	5		SELEDIAG	
SELECT STOLEN	scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODERS
ENGINE	-		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	-	-	UNKWN	-		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	—	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U100)	
ABS	-	V	UNION	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U100)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN		-	-	CAN COMM CIRCUIT (U1000)	-



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#### Case 9

#### Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

				CA	N DIAG SU	JPPORT M	NTR				
SELECT SYSTEM	l screen		<b></b>			Receive	e diagnosis	3		SELE-DIAG	BESHITS
	1 Soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	GELI DIAC	
ENGINE	-		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U 1001)
A/T	_	NG	UNKWN	UNKWN	-	—	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u> </u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	
ABS	-	NG	UNKWN	UNKWN	-	—	-	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indivition	-	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U100)	



#### Case 10

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

				CA	N DIAG SU	JPPORT M	NTR				
SELECT SYSTEM	A screen	1	<b></b>			Receive	e diagnosis	3		SELE-DIAG	BESHITS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-		UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U100)	
BCM	No inditation	NG	UNKWN	UNKWN			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u>~</u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	
ABS	-	V	UNKWN	UNKWN	-	—	-	-		CAN COMM CIRCUIT (U100)	
IPDM E/R	No inditation		UNKWN	UNKWN	-	UNKWN	—	-		CAN COMM CIRCUIT (U100)	-

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#### Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-252, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CA	N DIAG SU	PPORT M	NTR				
	1 scroon					Receive	e diagnosis	;		SELE-DIAG	
SELOTSTOLEN	i screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE			UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U100)	CAN COMMCIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	-		UNKWN	-		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U100)	-
ABS	_	NG	UNKWN	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	

#### Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CAI	N DIAG SU	IPPORT M					
SELECT SYSTEM	1 screen	1	·•			Receive	e diagnosis			SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	0221 0110	
ENGINE			UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U100)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u></u>
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ABS	_	NG	UNKWN	UNKWN	-	-	-	-	-	CAN COMM CIRCUIT (U100)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN		-	-	CAN COMM CIRCUIT (U1000)	-

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CAN SYSTEM (TYPE 6)	PFP:23710
Component Parts and Harness Connector Location	UK\$00556
Refer to LAN-22, "Component Parts and Harness Connector Location".	
Schematic	UKS00557
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UK\$00558
Refer to LAN-24, "Wiring Diagram — CAN —".	

### **Check Sheet**

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### NOTE:

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

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTEM screen		Initial	Receive diagnosis						SELF-DIAG	G RESULTS	
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
GINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
т	_	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
;м	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
ETER	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
3S	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
DM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_
			Attach	n copy of				Attach co	py of		
			SELECT	SYSTEM	Л		SI	ELECT SY	STEM		


### **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-244</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

				CA	AN DIAG SU	PPORT MN	TR				
	screen					Receive dia	ignosis				
SELECT STOLEN	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	I NEGOLI G
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U101)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	_
ABS	-	NG	UNKWN	UNKWN	UNKIN	_	_	-	_	CAN COMMCIRCUIT (UN00)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	_	UNKWN	_	_	_		—



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Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u>245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

				C/	AN DIAG SU	PPORT MN	TR				
SELECT SYSTE	Ascreen					Receive	diagnosis			SELE-DIAG	BESUITS
	a sereen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	_
ABS	-	NG	UNKWN			-	-	-	_	CAN COMMCIRCUIT (UN00)	_
IPDM E/R	No indivation	-	UNKWN	UNKWN	-	UNKWN	-	-	_	CAN COMMCIRCUIT (UN00)	_
	Indication										



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### Case 3

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Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

			TR	PPORT MN	AN DIAG SU	CA				
SELE-DIAG RESULTS			diagnosis	Receive					screen	
	IPDM E/R	VDC/TCS /ABS	METER /M&A	BCM /SEC	тсм	ECM	Transmit diagnosis	Initial diagnosis	3016611	SELECT STOLEN
CAN COMMICIRCUIT (U100) (U1001)	UNKWN	UNKWN	UNKAVN	UNKWN	UNKWN	_	UNKWN	_	-	ENGINE
	_	UNKWN	UNKWN	_	_	UNKWN	UNKWN	NG	_	A/T
CAN COMM CIRCUIT	UNKWN	_	UNKWN	_	_	UNKWN	UNKWN	NG	No indication	BCM
CAN COMM/CIRCUIT	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	_	No indication	METER
	-	-	_	_	UNKWN	UNKWN	UNKWN	NG	-	ABS
CAN COMM/CIRCUIT	-	-	-	UNKWN	-	UNKWN	UNKWN	_	No indication	IPDM E/R



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### Case 4

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Check TCM circuit. Refer to LAN-247, "TCM Circuit Inspection" .

				C/	AN DIAG SU	PPORT MN	TR				
SELECT SYSTEM	A screen					Receive	diagnosis	_		SELE-DIAG	RESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	—	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	_	CAN COMMCIRCUIT (UN00)	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	-	_	CAN COMMICIRCUIT (UN00)	-
IPDM E/R	No indication	—	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (U1000)	—



#### Case 5

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Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

			TR	PPORT MN	AN DIAG SU	CA				
SELE-DIAG BESULTS			diagnosis	Receive					screen	SELECT SYSTEM
	IPDM E/R	VDC/TCS /ABS	METER /M&A	BCM /SEC	тсм	ECM	diagnosis	diagnosis	0010011	
CAN COMM CIRCUIT CAN COMM CIRCUI (U1000) (U1001)	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	_	UNKWN	-	-	ENGINE
CAN COMM CIRCUIT	-	UNKWN	UNKWN	-	-	UNKWN	UNKWN	NG	-	A/T
CAN COMM CIRCUIT (U1000)	UNKWN	-	UNKWN	_	_	UNKWN	UNKWN	NG	Notindivation	BCM
CAN COMM CIRCUIT (U1000) —	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	_	No indivation	METER
CAN COMM CIRCUIT (U1000) —	_	-	_	_	UNKWN	UNKWN	UNKWN	NG	-	ABS
CAN COMM CIRCUIT (U1000)	_	-	-	UNKWN	_	UNKWN	UNKWN		Not individual individual	IPDM E/R



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Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

				C/	AN DIAG SU	PPORT MN	TR				
SELECT SYSTEM	A screen					Receive	diagnosis			SELE-DIAG	RESULTS
	a soleen	Initial diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	_	UNKWN	_	UNKWN	UNION	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
всм	No indivation	NG	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	Ι
ABS	-	NG	UNKWN	UNKWN	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	—	UNKWN	UNKWN	-	UNIWN	—	-	-	CAN COMM CIRCUIT (U 000)	-
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#### Case 7

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Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR				
	screen					Receive	diagnosis				
SELECT STOLEN	13016611	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		I NEGOLIO
ENGINE	-	-	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	_
ABS	-	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 ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-250</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTE	Miscreen					Receive	diagnosis			SELE-DIAG	BESUITS
	Soleen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	UNYWN	_	CAN COMM CIRCUIT	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	_	UNWN	UNKWN	CAN COMM CIRCUIT (U 100)	_
ABS	-	N	UNKWN	UNKWN	UNWWN	_	-	-	-	CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	-	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_



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### Case 9

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Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR				
	Ascreen					Receive	diagnosis				
	a scieen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNYWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	Ng ind <b>N</b> ation	—	UNKWN	UNKWN	_	UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	_



### Case 10

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

				C/	AN DIAG SU	PPORT MN	TR				
	Mecreen					Receive	diagnosis				
	W Screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		TEODEIO
ENGINE	-	—	UNKWN	_	UNIWN	UNKWN	UNKWN	UNWN	UNWN	CAN COMM CIRCUIT (UN00)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (UN00)	-
всм	No individuation	NG	UNKWN	UNKWN	_	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No individuation	_	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	-
ABS	-	V	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U 100)	_
IPDM E/R	No individuation	-	UNKWN	UNKWN	-	UNKWN	-	-	-	CAN COMM CIRCUIT (UN00)	_
											PKIC5894E

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#### Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-252, "IPDM E/R Ignition Relay Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTE	Miscreen					Receive	diagnosis				BESUITS
		Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	_

### Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-252, "IPDM E/R Ignition Relay Circuit Inspection"

				C	AN DIAG SU	PPORT MN	TR				
SELECT SYSTE	VI screen	1.00.1	<b>T</b>			Receive	diagnosis			SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	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	-	CAN COMM CIRCUIT (UN00)	_
всм	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	_	UNKWN	_	_	_	_	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	_	CAN COMM CIRCUIT (U1000)	_
											PKIC5896E

	[CAN]
CAN SYSTEM (TYPE 7)	PFP:23710
Component Parts and Harness Connector Location	A UKS0055A
Refer to LAN-22, "Component Parts and Harness Connector Location".	
Schematic	UKS0055B
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UKS0055C C
Refer to LAN-24, "Wiring Diagram — CAN —".	
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## Check Sheet

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

					CAN DIA	G SUPPOF	RT MNTR					
SELECT STOL	EM screen	Initial diagnosis	Transmit diagnosis	ECM	ТСМ	DIFF	BCM		VDC/TCS	IPDM E/B	SELF-DIAG	RESULTS
NGINE		_	UNKWN		UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT	CAN COMM CIRC
т	-	NG	UNKWN	UNKWN	_	_	_	UNKWN	UNKWN	_	CAN COMM CIRCUIT	(01001)
IFF LOCK	-	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	CAN COMM CIRCUIT	_
СМ	No	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT	_
ETER	No	-	UNKWN	UNKWN	UNKWN	_	UNKWN	_	UNKWN	UNKWN	CAN COMM CIRCUIT	_
BS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
DM E/R	No indication	_	UNKWN	UNKWN	_	_	UNKWN	_	_	_	CAN COMM CIRCUIT (U1000)	
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			Atta	ich copy	of			At	tach cop	y of		
			SELE	CT SYS	ΓEM			SEL	ECT SYS	STEM		

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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-244, "Inspection Between TCM and Data</u> <u>Link Connector Circuit"</u>.

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen	1-141-1	T			Rec	eive diagn	osis			SELE-DIAG	RESULTS
	0010011	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	_	UNKWN	—	UNKWN	_			UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U101)
A/T	-	NG	UNKWN	UNKWN	—	—	—		UNKWN	_	CAN COMMCIRCUIT (U1000)	_
DIFF LOCK	_	NG	UNKWN	UNKWN	—	_	—	—	UNKWN	-	CAN COMMCIRCUIT (U100)	_
BCM	No indication	NG	UNKWN	UNKWN	—	—	—	UNKWN	—	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN		—	UNKWN	—	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	—
ABS	-	NG	UNKWN	UNKWN		UNKWN	_	-	-	-	CAN COMMCIRCUIT (U1000)	—
IPDM E/R	No indication	—	UNKWN		—	—	UNKWN	_	—	—	CAN COMM/CIRCUIT (U1000)	_
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#### Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u> 245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN DIA	G SUPPOR	RT MNTR					
	1 screen					Rec	eive diagn	osis			SELE-DIAG	RESULTS
SELECT STOLEN	i aureen	Initial diagnosis	lransmit diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	THEODERO
ENGINE	-	-	UNKWN	-	UNKWN	_	UNKWN	UNKWN			CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	_	NG	UNKWN	UNKWN	-	_	-	UNKWN		-	CAN COMM CIRCUIT (U100)	_
DIFF LOCK	_	NG	UNKWN	UNKWN	_	_	-	_		_	CAN COMMCIRCUIT (U100)	-
BCM	No indication	NG	UNKWN	UNKWN		_	-	UNKWN	_		CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	_			CAN COMMCIRCUIT (U100)	_
ABS	-	NG	UNKWN		UNKWN	UNKVN	-	_	-	_	CAN COMMCIRCUIT (U1000)	_
IPDM E/R	No inclusion	_	UNKWN	UNKWN	_	_	UNKWN	_	-	_	CAN COMM CIRCUIT (U1000)	_



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Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
	Macroon		-			Red	ceive diagn	osis				RESULTS
SELECTOTOTOTE	W SCIEGH	Initial diagnosis	lransmit diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	_	UNKWN	_		_	UNKWN	UNI	UNKWN		CAN COMMCIRCUIT (U100)	CAN COMM/CIRCUI (U1001)
A/T	-	NG	UNKWN		-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
DIFF LOCK	_	NG	UNKWN	UNKWN	_	_	_	_	UNKWN	_	CAN COMMCIRCUIT (U100)	_
BCM	No indication	NG	UNKWN		_	_	_	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN		UNKWN	—	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	_
ABS	_	NG	UNKWN		UNKWN	UNKWN	_	_	_	_	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	_	UNKWN	UNKWN	—	_	UNKWN	—	_	_	CAN COMM/CIRCUIT (U100)	_



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#### Case 4

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Check TCM circuit. Refer to LAN-247, "TCM Circuit Inspection" .

					CAN DIA	G SUPPOF	RT MNTR					
	screen		-			Rec	eive diagn	osis				BESUITS
SELECTION	i acreen	Initial diagnosis	lransmit diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R		
ENGINE	_	-	UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	CAN COMM/CIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	-		UNKWN	-	CAN COMM CIRCUIT (U100)	_
DIFF LOCK	_	NG	UNKWN	UNKWN	_	_	-	_	UNKWN	_	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN		—	UNKWN	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	-
ABS	_	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 differential lock control unit circuit. Refer to LAN-247, "Differential Lock Control Unit Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
	A screen					Red	ceive diagn	osis				BESUITS
	a serveri	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLEI DIRC	
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)	_
DIFF LOCK	-	NG	UNKWN	UNKWN	—	—	_	_	UNKWN	_	CAN COMM/CIRCUIT (U100)	_
ВСМ	No indication	NG	UNKWN	UNKWN	_	_	_	UNKWN	_	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN	—	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	_	_	-	—	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	—	—	UNKWN	—	-	-	CAN COMM CIRCUIT (U1000)	_



#### Case 6

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Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

					CAN DIA	G SUPPOF	RT MNTR					
SELECT SYSTEM	screen	1.10.1				Rec	eive diagn	osis				BESUITS
	Screen	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	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	_	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
DIFF LOCK	_	NG	UNKWN	UNKWN	—	_	-		UNKWN	_	CAN COMM CIRCUIT (U1000)	_
всм	No indivision	NG	UNKWN	UNKWN	—	-	-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indivision	-	UNKWN	UNKWN	UNKWN	_	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ABS	-	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-249, "BCM Circuit Inspection" .

					CAN DIA	G SUPPOI	RT MNTR					
	EM screen					Red	ceive diagn	osis				BESUITS
SELECT STOP		Initial diagnosis	lransmit diagnosis	ECM	ТСМ	DIFF LOCK	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODERS
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCL (UN01)
A/T		NG	UNKWN	UNKWN				UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
DIFF LOCK		NG	UNKWN	UNKWN					UNKWN		CAN COMM CIRCUIT (U1000)	
ВСМ	No indivision	NG	UNKWN	UNKWN				UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-		-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN			UNKWN		-	-	CAN COMMCIRCUIT (U1000)	



#### Case 8

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Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

				RT MNTR	G SUPPOR	CAN DIA					
			osis	eive diagn	Rec					scroon	
	IPDM E/R	VDC/TCS /ABS	METER /M&A	BCM /SEC	DIFF LOCK	тсм	ECM	Iransmit diagnosis	Initial diagnosis	1 aureen	SELECT STOLEM
CAN COMM CIRCUIT CAN COMM/CIRCUIT (U1000) (U1001)	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-	ENGINE
CAN COMM CIRCUIT (UN000) —		UNKWN	UNKWN			-	UNKWN	UNKWN	NG		A/T
CAN COMM CIRCUIT (U1000)		UNKWN	—	-	-	-	UNKWN	UNKWN	NG	-	DIFF LOCK
CAN COMM CIRCUIT (U1000)	UNKWN	-	UNKWN	-		-	UNKWN	UNKWN	NG	No indication	BCM
CAN COMMICIRCUIT (UT00)	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	-	No indication	METER
CAN COMM CIRCUIT (U1000)		-	-	-	UNKWN	UNKWN	UNKWN	UNKWN	NG	-	ABS
CAN COMM CIRCUIT (U1000) —	-	-		UNKWN			UNKWN	UNKWN	-	No indication	IPDM E/R



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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-250</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTE	M screen					Red	eive diagn	osis			SELE-DIAG	RESULTS
	a solution	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOULIU
ENGINE	-	-	UNKWN	-	UNKWN		UNKWN	UNKWN	UNIWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-			UNKWN	UNIWN	-	CAN COMM CIRCUIT (U 000)	-
DIFF LOCK	-	NG	UNKWN	UNKWN			-	—	UNIWN		CAN COMM CIRCUIT (U 000)	
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNHWN	UNKWN	CAN COMM/CIRCUIT (U1000)	
ABS	-	V	UNION	UNION	UNIWN	UNIWN	-	-	-	-	CAN COMMCIRCUIT (U1V00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN			UNKWN		-		CAN COMM CIRCUIT (U1000)	-



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### Case 10

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Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

					CAN DIA	G SUPPOF	RT MNTR					
SELECT SYSTEM	screen					Rec	eive diagn	osis			SELE-DIAC	RESULTS
GLEOTOTOTEN	bleen	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOULIU
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	Ι	_	—	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
DIFF LOCK	-	NG	UNKWN	UNKWN	1	1	-	—	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
всм	No indication	NG	UNKWN	UNKWN	I	-		UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No indication	-	UNKWN	UNKWN	UNKWN	1	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indition	-	UNKWN	UNKWN	1	-	UNKWN	-	-		CAN COMMCIRCUIT (U1000)	



#### Case 11

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

					CAN DIA	G SUPPOF	RT MNTR					
SELECT SYSTEM	/ screen					Rec	eive diagn	osis				BESUITS
022201 01012		diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNIWN		UNKWN	—	UNKIN	UNKIVN	UNKWN	UNKWN	CAN COMM CIRCUIT (U N00)	CAN COMMCIRCUIT (UN01)
A/T	_	NG	UNKWN	UNKWN	-			UNKOVN	UNKWN		CAN COMM CIRCUIT (U N00)	_
DIFF LOCK	_	NG	UNHWN	UNKWN		-	_	_	UNIOWN		CAN COMM CIRCUIT (U1000)	
всм	indivation	NG	UNKWN	UNKWN				UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indivation	-	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ABS	-	V	UNIWN	UNKWN	UNION	UNIWN	-	-	-	-	CAN COMM CIRCUIT (U N00)	_
IPDM E/R	No indivation	_	UNKWN	UNKWN	-		UNKWN	-	-		CAN COMMCIRCUIT (U1000)	

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOF	RT MNTR					
	Mecroon					Rec	eive diagn	osis				RESULTS
SELECT STOLE	VISCIEBII	Initial diagnosis	Transmit diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEOLIG
ENGINE		-	UNKWN	-		—	UNKWN	UNKWN		UNKWN	CAN COMMCIRCUIT (U 1000)	CAN COMMCIRCL (UN01)
A/T	-	NG	UNKWN	UNKWN	-			UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	_
DIFF LOCK	-	NG	UNKWN	UNKWN		_	_	_	UNIOWN		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN				UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN			UNKWN		UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		_	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication		UNKWN	UNKWN		_	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	-

### Case 13

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOI	RT MNTR					
SELECT SYSTEM	/ screen					Red	ceive diagn	osis				BESUITS
	a boreen	lnitial diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	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	-	CAN COMMCIRCUIT (U N00)	
DIFF LOCK	-	NG	UNKWN	UNKWN	—			—	UNKWN		CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	-	UNKWN		-	-	-	-	CAN COMM CIRCUIT (U N00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN		-	UNKWN	_	-	-	CAN COMM CIRCUIT (U1000)	_
												PKIC5910E

	[CAN]
CAN SYSTEM (TYPE 8)	PFP:23710
Component Parts and Harness Connector Location	A UKS0055E
Refer to LAN-22, "Component Parts and Harness Connector Location" .	
Schematic	UKS0055F
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UKS0055G C
Refer to LAN-24, "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.

			r	CA	N DIAG SU	IPPORT MN	TR				
SELECT SYSTEM	screen	Initial	Transmit			Receive	diagnosis		r	SELF-DIAC	G RESULTS
		diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
зсм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	_		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD		NG	UNKWN	UNKWN		UNKWN		UNKWN		CAN COMM CIRCUIT (U1000)	·
ABS		NG	UNKWN	UNKWN	-	_		-		CAN COMM CIRCUIT (U1000)	
PDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	_	-	_	_	CAN COMM CIRCUIT (U1000)	
		•••••••				••••••		•			·
Symptoms :											
		·····					·				
			Attach	n copy of				Attach co	py of		
			SELEC	I SYSTEN	Λ		SI	ELECT S	ISTEM		



### **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 data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u> 245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTEM	l screen		<b>–</b>			Receive	diagnosis			SELE-DIAG	RESULTS
	loncen	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOULIU
ENGINE		-	UNKWN	1	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	ł	UNKIN	UNKWN	CAN COMMCIRCUIT (U N00)	—
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	+	CAN COMMCIRCUIT (UN00)	—
ABS		NG	UNKWN	UNKWN	-	-	-	-	—	CAN COMMCIRCUIT (U N00)	-
IPDM E/R	No indivation	-	UNKWN	UNKWN	UNKWN	—	1	-	1	CAN COMM/CIRCUIT (U N00)	—
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### Case 2

Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

				Cł	AN DIAG SU	PPORT MN	TR				
SELECT SYSTEM	Iscreen	la Mart	Terrentit			Receive	diagnosis			SELE-DIAG	RESULTS
	0010011	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	
ENGINE	-	_	UNKWN	-	UNKWN	UNKIN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U1001)
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKIN	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKVN	—	UNKWN	-	UNKWN	—	CAN COMMCIRCUIT (UN00)	—
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	CAN COMMCIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKIN	UNKWN	-	1	-	-	CAN COMM CIRCUIT (U N00)	-



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Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

[				C/	AN DIAG SU	IPPORT MN	TR				
						Receive	diagnosis				
SELECT STOTEW	rscreen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	A RESULIS
ENGINE		-	UNKWN		UNKWN	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
всм	No inditation	NG	UNKWN	UNKWN		UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditation	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN		-	-	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No inditation	-	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
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### Case 4

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Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTEM	Iscreen	1.11.1	<b>-</b>			Receive	diagnosis			SELE-DIAG	RESULTS
ollor of offeren	bolcon	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	_		UNKWN	-	UNKIN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U1001)
всм	No inditation	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	1	UNKWN	UNKWN	UNKIN	-	ł	UNKWN	UNKWN	CAN COMMCIRCUIT (U N00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	—	NG	UNKWN	UNKWN	-	-	-	-	—	CAN COMM CIRCUIT (U1000)	-
PDM E/R	No indication	-	UNKWN	UNKWN	UNKIVN	-	1	-	1	CAN COMMCIRCUIT (U N00)	_



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### Case 5

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Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR				
	screen					Receive	diagnosis				BESUITS
ULLOT UTUTEI	Scieen	Initial diagnosis	lransmit diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TIESOEIS
ENGINE	-	-	UNKWN	-	UNKWN	UNKIN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U1V01)
всм	No indication	NG	UNKWN	UNKWN	-	UNKIN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No inditation	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	UNKIN	-	UNKWN		CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	—	—	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_
											PKIC5783E



#### Case 6

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Check transfer control unit circuit. Refer to LAN-250, "Transfer Control Unit Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTEM	/ screen	1.11.1	<b>T</b>			Receive	diagnosis			SELE-DIAG	RESULTS
		diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-		UNKWN		UNKWN	UNKWN	UNKIN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	-	UNKIN	-	UNKIN	-	CAN COMMCIRCUIT (UN00)	_
ABS	-	NG	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-250</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

				CA	AN DIAG SU	PPORT MN	TR				
	l screen					Receive	diagnosis				RESULTS
SELECT STOLEN	1 Scieen	lnitial diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOULIS
ENGINE			UNKWN		UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKIN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (U1000)	-
ABS	-	V	UNKWN	UNKWN	-	-	-	-	-	CAN COMMCIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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### Case 8

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Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

				CA	AN DIAG SU	PPORT MN	TR					
SELECT SYSTEM	1.11.1	+			Receive	SELE-DIAG RESULTS						
	1 Screen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEEF DIAG TIESGETS		
ENGINE			UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)	
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)		
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	_	
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	_	CAN COMM CIRCUIT (U1000)	_	
IPDM E/R	No indivation		UNKWN	UNKWN	UNKWN	_	-	-		CAN COMM CIRCUIT (U1000)	_	



#### Case 9

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

[				C/	N DIAG SU	PPORT MN	TR					
SELECT SYSTEM	Iscreen	1.11.1	<b>T</b>			Receive	diagnosis				RESULTS	
	00.001	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R			
ENGINE	-	-	UNKWN	-	UNKWN	UNKIN	UNKWN	-	UNKAN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U1001)	
ВСМ	No inditation	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
METER	No inditation	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	—	
ALL MODE AWD/4WD	-	NG	UNKIVN	UNKWN	-	UNKOVN	-	UNKIN	-	CAN COMMCIRCUIT (UN00)	-	
ABS	—	V	UNKIN	UNKWN	-	-	-	—	-	CAN COMMCIRCUIT (UN00)	-	
IPDM E/R	No inditation	-	UNKWN	UNKWN	UNKWN	-	1	+	1	CAN COMM CIRCUIT (U1000)	-	
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### Case 10

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-252, "IPDM E/R Ignition Relay Circuit Inspection" .

SELECT SYSTEM screen     Transmit diagnosis     Receive diagnosis     SELF-DIAG RESULTS       ENGINE     -     UNKWN     METER /M&A     AWD/4WD     VDC/TCS / IPDM /ABS     IPDM /E/R     SELF-DIAG RESULTS       ENGINE     -     UNKWN     -     UNKWN     UNKWN     UNKWN     CAN COMM CIRCUIT (U1000)     CAN COMM CIRCUIT (U1001)       BCM     No indication     NG     UNKWN     UNKWN     -     UNKWN     -     UNKWN     CAN COMM CIRCUIT (U1001)     -       METER     No indication     -     UNKWN     UNKWN     -     UNKWN     UNKWN     CAN COMM CIRCUIT (U1001)     -       ALL MODE AWD/4WD     -     NG     UNKWN     UNKWN     -     UNKWN     -     CAN COMM CIRCUIT (U1001)     -       ABS     -     NG     UNKWN     UNKWN     -     -     -     CAN COMM CIRCUIT (U1000)     -       IPDM F/B     No     -     INKWN     UNKWN     -     -     -     CAN COMM CIRCUIT (U1000)     -					CA	AN DIAG SU	PPORT MN	TR				
SELECT OF OF DEFENSION   Initial diagnosis   Irransmit diagnosis   Irransmit diagnosis   ECM   BCM /SEC   METER /M&A   AWD/4WD   VDC/TCS   IPDM /ABS   IPDM //ABS   SELECT OF ACT RESOLTS     ENGINE   -   -   UNKWN   -   UNKWN   UNKWN   UNKWN   -   UNKWN   CAN COMM CIRCUIT (U1000)   (U1001)     BCM   No indication   NG   UNKWN   UNKWN   -   UNKWN   -   UNKWN   CAN COMM CIRCUIT (U1000)   -     METER   No indication   -   UNKWN   UNKWN   -   -   UNKWN   CAN COMM CIRCUIT (U1000)   -     METER   No indication   -   UNKWN   UNKWN   -   -   UNKWN   CAN COMM CIRCUIT (U1000)   -     ALL MODE AWD/4WD   -   NG   UNKWN   UNKWN   -   UNKWN   -   CAN COMM CIRCUIT (U1000)   -     ABS   -   NG   UNKWN   UNKWN   -   -   -   CAN COMM CIRCUIT (U1000)   -     IPDM F/B   No   -   UNKWN   -   -   -   -   CAN COMM CIRCUIT (U1000)		screen					Receive	diagnosis				
ENGINE   -   UNKWN   UNKWN   UNKWN   UNKWN   -   UNKWN   CAN COMM CIRCUIT (U1000)   CAN COMM CIRCUIT (U1001)     BCM   NG   UNKWN   UNKWN   -   UNKWN   -   UNKWN   CAN COMM CIRCUIT (U1001)   CAN COMM CIRCUIT (U1001)     BCM   No   -   UNKWN   UNKWN   -   UNKWN   CAN COMM CIRCUIT (U1001)   -     METER   No   -   UNKWN   UNKWN   UNKWN   -   -   UNKWN   CAN COMM/CIRCUIT (U1001)   -     ALL MODE AWD/4WD   -   NG   UNKWN   UNKWN   -   UNKWN   -   CAN COMM/CIRCUIT (U1000)   -     ABS   -   NG   UNKWN   UNKWN   -   -   -   CAN COMM/CIRCUIT (U1000)   -     IPDM E/B   No   -   UNKWN   -   -   -   -   CAN COMM/CIRCUIT (U1000)   -	SELECT STOTEM	3010011	Initial diagnosis	Iransmit diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	THEODERS
BCM   No indication   NG   UNKWN   UNKWN   —   UNKWN   —   UNKWN   CAN COMM CIRCUIT (U1000)   —     METER   No indication   —   UNKWN   UNKWN   —   —   UNKWN   CAN COMM CIRCUIT (U1000)   —     ALL MODE AWD/4WD   —   NG   UNKWN   UNKWN   —   —   UNKWN   —   CAN COMM CIRCUIT (U1000)   —     ABS   —   NG   UNKWN   UNKWN   —   —   —   CAN COMM CIRCUIT (U1000)   —     IPDM E/B   No   —   UNKWN   UNKWN   —   —   —   CAN COMM CIRCUIT (U1000)   —	ENGINE	-		UNKWN	-	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
METER No indication - UNKWN UNKWN UNKWN - - UNKWN UNKWN CAN COMMCIRCUIT (U MOO) -   ALL MODE AWD/4WD - NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMMCIRCUIT (U MOO) -   ABS - NG UNKWN UNKWN - - - - CAN COMMCIRCUIT (U MOO) -   IPDM E/B No - LINKWN - - - - CAN COMM CIRCUIT (U MOO) -	всм	No indication	NG	UNKWN	UNKWN	-	UNKWN	1	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD      NG     UNKWN      UNKWN      UNKWN      CAN COMMCIRCUIT (UN00)        ABS      NG     UNKWN        CAN COMMCIRCUIT (UN00)        IPDM E/B     No      LINKWN       CAN COMMCIRCUIT (U1000)	METER	No indication	_	UNKWN	UNKWN	UNKWN	-	-	UNKIN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ABS     -     NG     UNKWN     -     -     -     -     CAN COMM CIRCUIT (U1000)     -       UPDM E/B     No     -     -     -     -     -     CAN COMM CIRCUIT (U1000)     -	ALL MODE AWD/4WD	ł	NG	UNKWN	UNKWN	-	UNKWN	+	UNKIN	—	CAN COMMCIRCUIT (U N00)	-
	ABS	-	NG	UNKWN	UNKWN	-	-	-	-	—	CAN COMM CIRCUIT (U1000)	-
indication (U1000)	IPDM E/R	No indication	_	UNKWN	UNKWN	UNKWN	-	-	-	_	CAN COMM CIRCUIT (U1000)	-

### Case 11

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-252, "IPDM E/R Ignition Relay Circuit Inspection"

				C/	AN DIAG SU	PPORT MN	TR				
SELECT SYSTEM	Iscreen					Receive					
	bolcon	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	_		UNKWN		UNKWN	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	—	UNKWN	-	UNKWN	—	CAN COMM CIRCUIT (U1000)	—
ABS	-	NG	UNKWN	-	-	-	-	—	—	CAN COMMCIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	-
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--	---------------										
CAN SYSTEM (TYPE 9)	PFP:23710										
Component Parts and Harness Connector Location	A UKS00551										
Refer to LAN-22, "Component Parts and Harness Connector Location".											
Schematic	UK\$0055J										
Refer to LAN-23, "Schematic".											
Wiring Diagram — CAN —	UKS0055K C										
Refer to LAN-24, "Wiring Diagram — CAN —".											
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## Check Sheet

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### NOTE:

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

				C/	AN DIAG SU	PPORT MN	TR			-	
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	Receive METER /M&A	diagnosis AWD/4WD	VDC/TCS /ABS	IPDM E/B	SELF-DIAC	G RESULTS
ENGINE	_	_	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUI
BCM	No	NG	UNKWN	UNKWN	_	UNKWN	_		UNKWN	CAN COMM CIRCUIT	
METER	No	_	UNKWN	UNKWN	UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT	
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	_	UNKWN		UNKWN		CAN COMM CIRCUIT	
ABS	-	NG	UNKWN	UNKWN	-		UNKWN			CAN COMM CIRCUIT	
IPDM E/R	No	-	UNKWN	UNKWN	UNKWN	_	_	_		CAN COMM CIRCUIT	_
	Indication		I			1	1	1	1		<b>I</b>
Symptoms :											
		r			1		[				
			• · · · •					•			
			Attach SELEC	1 COPY OF	л		S	Attach co	py of YSTEM		
		L			]		L				
											PKIC5790E



### **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 data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u> 245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

				CA	AN DIAG SU	PPORT MN	TR				
	scroon					Receive	diagnosis			SELEDIAG	
OLLOT OT OT OT	1 SUICEII	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	TILOULIO
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U N01)
всм	No indication	NG	UNKWN	UNKWN	-	UNKWN		-	UNKIN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	—	UNKWN	UNKIN	CAN COMMCIRCUIT (U1000)	—
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	-	UNKWN	-	UNKIN	-	CAN COMMCIRCUIT (UN00)	—
ABS	-	NG	UNKWN	UNKIN	-	-	UNKIN	-	-	CAN COMMCIRCUIT (UN00)	-
IPDM E/R	No indivision	-	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (UN00)	-
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#### Case 2

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Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

				CA	AN DIAG SU	IPPORT MN	TR				
SELECT SYSTEM	screen		<b>-</b> .			Receive	diagnosis				RESULTS
BLEET OT BTEN	Succerr	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOULIO
ENGINE	-	-	UNKIN		UNKWN	UNKWN	UNKOVN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
BCM	No indication	NG	UNKWN	UNKIN		UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKIVN	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	—	CAN COMM CIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKVN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNKIN	UNKWN	-	-		-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	indication	_	UNKWN	UNKIVN	UNKWN	_		_	-	(U <b>10</b> 00)	



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Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

				C/	AN DIAG SU	PPORT MN	TR			1	
						Receive	diagnosis				
SELECT STOLEN	rscreen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	RESULIS
ENGINE		-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No inditation	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditation	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No inditation	-	UNKWN	UNKWN	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	-
	•	•••••••			•			••••••	•		
											PKIC5793E



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### Case 4

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Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

SELECT SYSTEM         Initial diagnosis         Transmit diagnosis         Transmit diagnosis         Receive diagnosis         VDC/TCS         IPDM LPM         SELF-DIAG RESULTS           ENGINE          UNKWN         BCM         MCTER         AWD/4WD         VDC/TCS         IPDM LPM         CAN COMM CIRCUIT         CUNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         CAN COMM CIRCUIT         CAN COMM CIRCUIT         CAN COMM CIRCUIT         CUNKUN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         CAN COMM CIRCUIT         CAN COMM CIRCUIT         CAN COMM CIRCUIT					CA	AN DIAG SU	PPORT MN	TR				
Delete of of other and diagnosis       Iransmit diagnosis       Iransmit diagnosis       Iransmit ecm       BCM /SEC       METER /M&A       AWD/4WD       VDC/TCS /ABS       IPDM IPDM       Output the Sector of other and the Sector of the	SELECT SYSTEM	l screen		<b>-</b>			Receive	diagnosis				RESULTS
ENGINE        UNKWN       UNKWN       UNKWN       UNKWN       UNKWN       UNKWN       CAN COMM CIRCUIT (L1000)         UNKWN       UNKWN        UNKWN        UNKWN        UNKWN       CAN COMM CIRCUIT (L1000)         UNKWN        UNKWN        UNKWN        UNKWN       CAN COMM CIRCUIT (L1000)         UNKWN        <	OLLOTOTOTO	1 Soreen	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		THEODERO
BCM     NG indication     NG     UNKWN     UNKWN     —     UNKWN     —     UNKWN     CAN COMM CIRCUIT (U1000)     —       METER     No indication     —     UNKWN     UNKWN     —     —     UNKWN     UNKWN     CAN COMM CIRCUIT (U1000)     —       ALL MODE AWD/4WD     —     NG     UNKWN     UNKWN     —     UNKWN     —     CAN COMM CIRCUIT (U1000)     —       ARS     —     NG     UNKWN     UNKWN     —     UNKWN     —     CAN COMM CIRCUIT (U1000)     —	ENGINE		-	UNKWN	_	UNKIN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
METER     No indication     —     UNKWN     UNKWN     UNKWN     —     —     UNKWN     UNKWN     CAN COMMCIRCUIT (U NO0)     —       ALL MODE AWD/4WD     —     NG     UNKWN     UNKWN     —     UNKWN     —     CAN COMM CIRCUIT (U NO0)     —       ARS     —     NG     UNKWN     UNKWN     —     UNKWN     —     CAN COMM CIRCUIT (U 1000)     —	BCM	No inditation	NG	UNKWN	UNKWN	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD - NG UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT -	METER	No indication	-	UNKWN	UNKWN	UNKIN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	—
	ALL MODE AWD/4WD	_	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	Ι	CAN COMM CIRCUIT (U1000)	-
	ABS	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	—
IPDM E/R No _ UNKWN UNKWN UNKWN CAN COMMCIRCUIT _ (UN00)	IPDM E/R	No indication	-	UNKWN	UNKWN	UNKIN	-	-	-	-	CAN COMM CIRCUIT (U1000)	—



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Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

[				C/	AN DIAG SU	PPORT MN	TR				
	l sereen					Receive	diagnosis			SELEDIAG	
SELECTOTOTOTE	1 SULCEIT	Initial diagnosis	lransmit diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILSUEIS
ENGINE	-	-	UNKWN	-	UNKWN	UNKIN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
всм	No indication	NG	UNKWN	UNKWN	-	UNKIVN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditation	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	-
										-	
											PKIC5795E



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#### Case 6

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Check transfer control unit circuit. Refer to LAN-250, "Transfer Control Unit Circuit Inspection" .

				CA	AN DIAG SU	IPPORT MN	TR				
	l sereen					Receive	diagnosis			SELEDIAG	
SELECTOTOTOTEM	1 SUICEIT	Initial diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI DIAC	TILSOLIS
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKIN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
ЗСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	_
VIETER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	UNKIN	-	UNKWN	-	CAN COMMCIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	-		UNKIN	-	-	CAN COMMCIRCUIT (U1000)	_
PDM 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-250</u>, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection".

				CA	AN DIAG SU	PPORT MN	TR				
	scroon					Receive	diagnosis				
SELECTOTOTOTEM	Screen	Initial diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	TILSOLIS
ENGINE	<u> </u>	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCU (UN01)
ЗСМ	No indication	NG	UNKWN	UNKWN	-	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	<u> </u>
VIETER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (UN00)	
ABS		V	UNKIN	UNKIN	-	-	UNKIN	-	-	CAN COMMCIRCUIT (UN00)	
PDM E/R	No indication		UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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#### Case 8

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Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

SELECT SYSTEM scree										
DELECT CTOTEM SCIEC		I			Receive	diagnosis			SELE-DIAG	RESULTS
	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	TILSOLIS
ENGINE -	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
BCM N indic	on NG	UNKWN	UNKWN	-	UNKWN		-	UNKIN	CAN COMM CIRCUIT (U1000)	
METER Nindic	on —	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U100)	_
ALL MODE AWD/4WD -	NG	UNKWN	UNKWN	I	UNKWN	I	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS -	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	_
IPDM E/R		UNKWN	UNKWN	UNKWN	-		-	-	CAN COMMCIRCUIT	



#### Case 9

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

				C/	N DIAG SU	PPORT MN	TR				
	1 screen					Receive	diagnosis			SELEDIAG	RESULTS
BEECHORDER	Soreen	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOULIO
ENGINE	-	-	UNKIN	-	UNKVN	UNKIN	UNKIN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
всм	No inditation	NG	UNKWN	UNKWN	1	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No inditation	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	—
ALL MODE AWD/4WD	-	NG	UNKINN	UNKWN	I	UNKIN	-	UNKWN	1	CAN COMM CIRCUIT (UN00)	-
ABS	-	V	UNKIN	UNKWN	-	-	UNKIN	-	-	CAN COMMCIRCUIT (UN00)	-
IPDM E/R	No inditation	-	UNKWN	UNKWN	UNKWN	_	_	-	-	CAN COMMCIRCUIT (UN00)	-
											PKIC5799E

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Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

				CA	AN DIAG SU	PPORT MN	TR				
SELECT SYSTEM	screen		<b>-</b> 1			Receive	diagnosis				RESULTS
SELECT CTOTES	0010011	diagnosis	diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIRC	
ENGINE	—	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKIN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	+	UNKWN	UNKWN	UNKWN	-	-	UNKVN	UNKWN	CAN COMM CIRCUIT (UT00)	-
ALL MODE AWD/4WD	—	NG	UNKWN	UNKWN	-	UNKWN	-	UNKIN	-	CAN COMM CIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

### Case 11

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

r		r								0	
				C/	AN DIAG SU	PPORT MN	IR diamania				
SELECT SYSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIAG	B RESULTS
ENGINE		-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
BCM	No indication	NG	UNKWN	UNKWN		UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
ABS	-	NG	UNKWN	-	-	-	-	-	-	CAN COMM CIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
											PKIC5801E

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CAN SYSTEM (TYPE 10)	PFP:23710
Component Parts and Harness Connector Location	A UKS0055M
Refer to LAN-22, "Component Parts and Harness Connector Location" .	
Schematic	UKS0055N
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UK\$00550 C
Refer to LAN-24, "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					CAN DIA	G SUPPOR	RT MNTR					
	screen		_			Rec	eive diagn	osis			SELE-DIAC	
	screen	Initial diagnosis	Transmit diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	GELI -DIAC	I NEGOLIS
ENGINE		-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
DIFF LOCK	-	NG	UNKWN	UNKWN	I	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
всм	No indication	NG	UNKWN	UNKWN	_	_	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN		_	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-
Symptoms :												
			Atta	ch copy	of			At	tach cop	vof		
			SELE	CT SYST	ΓEM			SEL	ECT SY	STEM		



### **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 data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u> 245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN DIA	G SUPPO	RT MNTR					
	screen					Rec	eive diagno	osis			SELE-DIAG	RESULTS
OLLEOTOTOTEM	3010011	Initial diagnosis	lransmit diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
DIFF LOCK	-	NG	UNKWN	UNKWN	—		-	UNKWN	UNKWN	-	CAN COMMCIRCUIT (U1000)	
всм	No indication	NG	UNKWN	UNKWN	—	-	UNKWN	-	-		CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN		CAN COMMICIRCUIT (U1000)	—
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-		UNKWN	-	UNKWN	—	CAN COMMCIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 1000)	
IPDM E/R	No inditation	-	UNKWN	UNKWN	—	UNKWN	—	—	-	—	CAN COMMCIRCUIT (U1000)	—
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#### Case 2

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Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	screen	1.20.1				Rec	eive diagn	osis			SELE-DIAG	BESULTS
	5510011	diagnosis	diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-		UNKWN	UNKIN		UNKON	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
DIFF LOCK		NG	UNKWN	UNKWN				UNKWN	UNKWN		CAN COMMCIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN			UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	-	UNKWN		-	UNKWN	UNKWN	CAN COMMICIRCUIT (U 100)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-		UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (U100)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMMCIRCUIT (U 1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMMCIRCUIT (U 100)	



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Check differential lock control unit circuit. Refer to LAN-247, "Differential Lock Control Unit Circuit Inspection" .

					CAN DIA	G SUPPO	RT MNTR					
	screen					Rec	eive diagn	osis			SELE-DIAG	RESULTS
SEECT STOLEN	1 SUCCIT	Initial diagnosis	diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-	-	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
DIFF LOCK		NG	UNKWN	UNKWN				UNKWN	UNKWN		CAN COMMCIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN		UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-		UNKWN		UNKWN		CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		CAN COMMCIRCUIT (U 1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-	-	-		CAN COMM CIRCUIT (U1000)	



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Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

				RT MNTR	G SUPPOR	CAN DIA					
SELE-DIAG BESULTS			osis	eive diagno	Rec			T	1	screen	SELECT SYSTEM
	IPDM E/R	VDC/TCS /ABS	AWD/4WD	METER /M&A	BCM /SEC	DIFF LOCK	ECM	diagnosis	diagnosis	5010011	
CAN COMM CIRCUIT CAN COMM CIRCUI (U1000) (U1001)	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN	-		ENGINE
CAN COMM CIRCUIT		UNKWN	UNKWN	-	-		UNKWN	UNKWN	NG	-	DIFF LOCK
CAN COMM CIRCUIT (U1000)	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	NG	No indication	BCM
CAN COMM CIRCUIT (U1000) —	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	-	No indivation	METER
CAN COMM CIRCUIT (U1000)		UNKWN	-	UNKWN		-	UNKWN	UNKWN	NG	-	ALL MODE AWD/4WD
CAN COMM CIRCUIT		-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	NG	-	ABS
CAN COMM CIRCUIT	—	-	-	-	UNKWN	—	UNKWN	UNKWN		No individuation	IPDM E/R



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Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

					CAN DIA	G SUPPO	RT MNTR					
	soroon					Rec	eive diagn	osis			SELE DIAG	
SELECT STSTEM	screen	Initial diagnosis	Transmit diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAG	I NEGOLI G
ENGINE	-	-	UNKWN			UNKVN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMICIRCU (UN01)
DIFF LOCK	-	NG	UNKWN	UNKWN				UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
BCM	No indition	NG	UNKWN	UNKWN	-		UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN		UNKUN	-		UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN			UNKWN		UNKWN		CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN			CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKVN	-	_	-		CAN COMMCIRCUIT (UN00)	



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Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen	1.201.1				Rec	eive diagno	osis			SELE-DIAG	RESULTS
	Soreen	diagnosis	diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIVIC	
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKIN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
DIFF LOCK	-	NG	UNKWN	UNKWN	-			UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	1			-		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No inditation	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-		UNKIN	-	UNKWN		CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN		-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	<u> </u>		-	CAN COMM CIRCUIT (U1000)	



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Check transfer control unit circuit. Refer to LAN-250, "Transfer Control Unit Circuit Inspection" .

					CAN DIA	G SUPPO	RT MNTR					
	screen					Rec	eive diagn	osis			SELE-DIAG	BESUITS
SEECT STOLEN	Soleen	Initial diagnosis	diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	JELI DIAC	
ENGINE	-	-	UNKWN			UNKWN	UNKWN	UNKIN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
DIFF LOCK	-	NG	UNKWN	UNKWN				UNKWN	UNKWN		CAN COMMCIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN		UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKIN	-		UNKVN		UNKIN		CAN COMMCIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		CAN COMM CIRCUIT (U 1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	—	UNKWN	—		_	—	CAN COMM CIRCUIT (U1000)	



### [CAN]

#### Case 8

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Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-250</u>, "ABS Actuator and Electric Unit <u>(Control Unit) Circuit Inspection</u>".

					CAN DIA	G SUPPO	RT MNTR					
	screen					Rec	eive diagn	osis				BESUITS
	Soreen	diagnosis	diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-	-	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKVN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
DIFFLOCK	-	NG	UNKWN	UNKWN				UNKWN	UNKVN		CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKVN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKVN		CAN COMM CIRCUIT (U1000)	_
ABS	-	V	UNKWN	UNKVN		-		UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	



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#### Case 9

#### Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

					CAN DIA	G SUPPO	RT MNTR					
	screen					Rec	eive diagno	osis			SELE-DIAG	RESULTS
GEEDTGTGTEN	Soleen	Initial diagnosis	diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-	-	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
DIFF LOCK	-	NG	UNKWN	UNKWN				UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	-	UNKIN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKIN	CAN COMMCIRCUIT (U 1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-		UNKWN		UNKWN		CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No inditation	-	UNKWN	UNKWN	—	UNKWN	-	-		—	CAN COMMCIRCUIT (U1000)	



### Case 10

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

		-										
					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen	1.00.1	÷			Rec	eive diagno	osis			SELE-DIAG	BESUITS
		diagnosis	diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	-	UNKWN	UNKIN	UNKOVN	UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
DIFF LOCK	-	NG				1	1	UNKWN	UNKIN	ł	CAN COMM/CIRCUIT (U100)	-
всм	No inditation	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditation	-	UNKWN	UNKWN	—	UNKWN	-	+	UNKWN	UNKWN	CAN COMMICIRCUIT (U1000)	—
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-	-	UNKIN	ł		1	CAN COMM CIRCUIT (U1000)	-
ABS	-	V	UNKWN	UNKOVN	UNKWN	-	-	UNKWN	-	-	CAN COMMCIRCUIT (UN00)	-
IPDM E/R	No indivision	—	UNKWN	UNKWN	—	UNKWN	—	-	-	—	CAN COMMCIRCUIT (U1000)	—
												PKIC5921E

## [CAN]

#### Case 11

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

					CAN DIA	G SUPPO	RT MNTR					
	soroon					Rec	eive diagn	osis			SELE-DIAC	
SELECTOTOTEM	Screen	Initial diagnosis	Transmit diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	TIEGOEIG
ENGINE	-	-	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U1001)
DIFF LOCK	-	NG	UNKWN	UNKWN	-			UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	-	UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U100)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	-		UNKWN	-	UNKWN		CAN COMMCIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	—	-	UNKWN	-	—	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN		-	-		CAN COMM CIRCUIT (U1000)	

### Case 12

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOI	RT MNTR					
	screen					Rec	eive diagno	osis			SELE-DIAG	BESUITS
	3010011	Initial diagnosis	Iransmit diagnosis	ECM	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-	-	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
DIFF LOCK		NG	UNKWN	UNKWN			-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN			UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	-		-	-	-	-	-	CAN COMMCIRCUIT (U 1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	—	—	CAN COMM CIRCUIT (U1000)	—
												PKIC5923E

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	[CAN]
CAN SYSTEM (TYPE 11)	PFP:23710
Component Parts and Harness Connector Location	UKS0055Q
Refer to LAN-22, "Component Parts and Harness Connector Location"	
Schematic	UKS0055R
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UK\$0055\$
Refer to LAN-24, "Wiring Diagram — CAN —".	

## **Check Sheet**

## NOTE:

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

SELECT SYSTEM screen         Initial diagnosis         Transmit (serve)         Transmit (serve)         Transmit (serve)         Transmit (serve)         SELF-DIAG RESULTS           AGINE         -         -         UNKWN         -         UNKWN         UNKWN         UNKWN         -         UNKWN         UNKWN         -         UNKWN         UNKWN         UNKWN         UNKWN         -         UNKWN         UNKWN         -         UNKWN         UNKWN         -         -         UNKWN         UNKWN         -         -         UNKWN         UNKWN         -         -         UNKWN         UNKWN         -         -         UNKWN         UNKWN         -         -         -         -         -         -         -         -         -         -         0.00000000000000000000000000000000000	SELECT SYSTEM         Initial disprose         Tanenti disprose         Total         SCC         Mithe Market Marke	SELECT SYSTEM screen         Initial degressi         Tuncent screen         Initial converter         Tuncent screen         Initial converter         SELF-DIAG RESULTS           SCIECT SYSTEM screen         -         -         Unixern         Initial screen         -         Unixern         -         Unixern         Unixern         -         Unixern         -         Unixern         -         Unixern         -         -         -         -         CAN COMM CIRCUIT         -         -         -         CAN COM/CIRCUIT         -         -         -         -         CAN COM/CIRCUIT         -         -         -         -         CAN COM/CIRCUIT         -         -         -         -         C	SELECT SYSTEN	Screen	Initial diagnosis NG NG NG NG 	Transmit diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	ECM UNKWN UNKWN UNKWN UNKWN UNKWN	TCM UNKWN — UNKWN UNKWN —	BCM /SEC UNKWN  UNKWN  UNKWN	UNKWN	AWD/4WD UNKWN UNKWN 	VDC/TCS /ABS   UNKWN	IPDM E/R UNKWN — UNKWN	SELF-DIAC CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) –
diagnosis         diagnosis         ECM         TCM         BC/M ECM         Mile H Mile	diagnosis         diagnosis         ECM         TCM         BCM ER         MAIL EM         ANDAUAUD         VILCUS         ECM         ECM           NCINE         -         -         UNKWN         UNKWN         UNKWN         UNKWN         -         UNKWN         UNKWN         UNKWN         UNKWN         -         UNKWN         UNKWN         -         -         CAN COMM CIRCUIT         -         UNKWN         UNKWN         -         -         UNKWN         UNKWN         -         -         -         -         -         -         -         -         -         -         -         CM         CM         CM         CM         CM         CM         CM         CM         -         -         -         -         -         -         -         -         CM         C	Image:         Historics         ECM         TCM         BC/M         MMD/M0         VLX/UC/CS         IP/M           NGINE         -         -         UNKWN         -         UNKWN         UNKWN         UNKWN         UNKWN         -         UNKWN         UNKWN         UNKWN         UNKWN         -	VGINE T CM ETER LL MODE AWD/4WD 3S DM E/R /mptoms :	 No indication  No indication	diagnosis	diagnosis UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN	ECM UNKWN UNKWN UNKWN UNKWN UNKWN	TCM UNKWN — UNKWN UNKWN — —	UNKWN	UNKWN UNKWN UNKWN UNKWN UNKWN	AWD/4WD UNKWN UNKWN  	UNKWN		CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) — —
INGINE          UNKWN          UNKWN         UNKWN         UNKWN         UNKWN          UNKWN          UNKWN         UNKWN         UNKWN         UNKWN          UNKWN          UNKWN	NGINE        UNKWN       UNKWN       UNKWN       UNKWN       UNKWN       CAN COMM CIFCUT (1000)       CAN COMM CIFCUT (1000)         /T        NG       UNKWN       UNKWN         CAN COMM CIFCUT (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)        (1000)         (1000)         (1000)         (1000)         (1000)         (1000)              CAN COMM CIFCUT         CAN COM CIFCUT         CAN COM CIFCUT         CAN COM CIFCUT         CAN COM CIFCUT <td>NGINE          UNKWN          UNKWN         UNKWN         UNKWN          UNKWN          UNKWN         UNKWN          UNKWN          UNKWN           UNKWN           UNKWN           UNKWN           UNKWN           UNKWN            UNKWN           CAK         CAK         COM         UNKWN         UNKWN            CAK         CAK         COM         CIRCUT           CAK         CAK         COM         CIRCUT           CAK         CAK         COM         CIRCUT           UNKWN             CAK         CAM         CULUT               CAK         CAK         CAK         CAK         CAK         CAK         CAK         CAK         <th< td=""><td>NGINE VT GCM METER ALL MODE AWD/4WD ABS PDM E/R</td><td>No indication No indication  No indication</td><td>NG NG NG NG </td><td>UNKWN UNKWN UNKWN UNKWN UNKWN</td><td>UNKWN UNKWN UNKWN UNKWN UNKWN</td><td>UNKWN </td><td>UNKWN UNKWN</td><td>UNKWN UNKWN UNKWN UNKWN</td><td>UNKWN UNKWN </td><td></td><td>UNKWN  UNKWN</td><td>CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)</td><td>CAN COMM CIRCUIT (U1001) — —</td></th<></td>	NGINE          UNKWN          UNKWN         UNKWN         UNKWN          UNKWN          UNKWN         UNKWN          UNKWN          UNKWN           UNKWN           UNKWN           UNKWN           UNKWN           UNKWN            UNKWN           CAK         CAK         COM         UNKWN         UNKWN            CAK         CAK         COM         CIRCUT           CAK         CAK         COM         CIRCUT           CAK         CAK         COM         CIRCUT           UNKWN             CAK         CAM         CULUT               CAK         CAK         CAK         CAK         CAK         CAK         CAK         CAK <th< td=""><td>NGINE VT GCM METER ALL MODE AWD/4WD ABS PDM E/R</td><td>No indication No indication  No indication</td><td>NG NG NG NG </td><td>UNKWN UNKWN UNKWN UNKWN UNKWN</td><td>UNKWN UNKWN UNKWN UNKWN UNKWN</td><td>UNKWN </td><td>UNKWN UNKWN</td><td>UNKWN UNKWN UNKWN UNKWN</td><td>UNKWN UNKWN </td><td></td><td>UNKWN  UNKWN</td><td>CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)</td><td>CAN COMM CIRCUIT (U1001) — —</td></th<>	NGINE VT GCM METER ALL MODE AWD/4WD ABS PDM E/R	No indication No indication  No indication	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	CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001) — —
UT        NG       UNKWN       UNKWN         UNKWN       UNKWN         CAN COMM CIRCUIT          ICM       NO       NG       UNKWN       UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN             CAN COMM CIRCUIT         0.0	T       -       NG       UNKWN       UNKWN       -       -       -       CM       CM       CM       CM       UNKWN	π       -       NG       UNKWN       -       -       UNKWN       -       -       CAN       COMM CIRCUIT       -         CM       NG       NG       UNKWN       UNKWN       -       -       UNKWN       -       -       CAN       CAN <td>VT BCM METER ALL MODE AWD/4WD ABS PDM E/R Symptoms :</td> <td>No indication No indication  No indication</td> <td>NG NG NG NG</td> <td>UNKWN UNKWN UNKWN UNKWN UNKWN</td> <td>UNKWN UNKWN UNKWN UNKWN UNKWN</td> <td>UNKWN UNKWN —</td> <td> UNKWN </td> <td>UNKWN UNKWN  UNKWN</td> <td>UNKWN </td> <td> UNKWN</td> <td> UNKWN</td> <td>CAN COMM CIRCUIT (U1000) CAN COMM CIRCUIT (U1000)</td> <td>-</td>	VT BCM METER ALL MODE AWD/4WD ABS PDM E/R Symptoms :	No indication No indication  No indication	NG NG NG NG	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)	-
ICM INO NG UNKWN UNKWN - UNKWN - UNKWN - UNKWN - UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT Indication - UNKWN UNKWN UNKWN UNKWN UNKWN UNKWN - CAN COMM CIRCUIT INGIN - NG UNKWN UNKWN UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT 20M E/R NO 20M E/R NO SELECT SYSTEM Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	CM         ING         UNKWN         UNKWN         -         -         -         UNKWN         -         -         UNKWN         -         -         UNKWN         CAN COMM CIRCUIT         -           BS         -         NG         UNKWN         UNKWN         -         -         -         -         CAN COMM CIRCUIT         -         -         -         CAN COM CIRCUIT         -         -         CAN COM CIRCUIT         -         -         -         CAN COM CIRCUIT         -         -         -         CAN COM CIRCUIT         -         UNCON CIRCUIT         -         -	OM         NG         UNKWN         UNKWN         -         -         UNKWN         -         -         UNKWN         CAN COMM CIRCUIT         -           ETER         MG         -         UNKWN         UNKWN         UNKWN         -         -         UNKWN         UNKWN         -         -         UNKWN         UNKWN         -         -         UNKWN         CAN COMM CIRCUIT         -           LL MODE AWD/WD         -         NG         UNKWN         UNKWN         -         -         UNKWN         -         CAN COMM CIRCUIT         -         -         CAN COM CIRCUIT         -         -         CAN COM CIRCUIT         -         CAN COM CIRCUIT         -         - <td>3CM METER ALL MODE AWD/4WD BS PDM E/R Symptoms :</td> <td>No indication No indication  No indication</td> <td>NG  NG </td> <td>UNKWN UNKWN UNKWN UNKWN</td> <td>UNKWN UNKWN UNKWN UNKWN</td> <td> UNKWN UNKWN </td> <td> UNKWN </td> <td>UNKWN  UNKWN</td> <td>-</td> <td> UNKWN</td> <td>UNKWN</td> <td>CAN COMM CIRCUIT (U1000)</td> <td>_</td>	3CM METER ALL MODE AWD/4WD BS PDM E/R Symptoms :	No indication No indication  No indication	NG  NG 	UNKWN UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN UNKWN	 UNKWN UNKWN 	 UNKWN 	UNKWN  UNKWN	-	 UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
Attach copy of SELECT SYSTEM         Attach copy of SELECT SYSTEM         Attach copy of SELECT SYSTEM	Implementation        UNKWN       UNKWN       UNKWN         UNKWN       UNKWN         UNKWN       UNKWN         UNKWN       UNKWN         UNKWN       UNKWN         UNKWN       UNKWN         UNKWN        UNKWN        CAN COMM CIRCUIT  CAN COMM CIRCUIT            CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COMM CIRCUIT          CAN COM CIRCUIT	ETER       In Non       -       UNKWN       UNKWN       UNKWN       UNKWN       -       -       UNKWN       UNKWN       UNKWN       UNKWN       UNKWN       -       -       UNKWN       UNKWN       UNKWN       -       -       -       UNKWN       UNKWN       UNKWN       -       -       -       UNKWN       UNKWN       -       -       -       UNKWN       -       <	ALL MODE AWD/4WD NBS PDM E/R	No indication  No indication	 NG NG	UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	UNKWN UNKWN 	UNKWN 			UNKWN		(0,000)	
NULL MODE       ANG       UNKWN       UNKWN       -       UNKWN       -       CAN COMM CIPCUT       -         NBS       -       NG       UNKWN       UNKWN       -       -       -       CAN COMM CIPCUT       -         PDM E/R       NG       UNKWN       UNKWN       -       -       -       -       CAN COMM CIPCUT       -         PDM E/R       NG       -       UNKWN       -       -       -       -       CAN COMM CIPCUT       -         PDM E/R       -       UNKWN       -       UNKWN       -       -       -       CAN COMM CIPCUT       -         Symptoms :       -       UNKWN       -       UNKWN       -       UNKWN       -       -       -       CAN COMM CIPCUT       -         Symptoms :       -       UNKWN       -       UNKWN       -       UNKWN       -       -       CAN COMM CIPCUT       -         Symptoms :       -       -       -       -       -       -       CAN COMM CIPCUT       -       CAN COM CIPCUT       CAN COM CIPCUT       -       <	LLI MODE AMDUND - NG UNKUN UNKUN - UNKUN - UNKUN - UNKUN - CAN COM CIRCUT - BS - NG UNKUN UNKUN CAN COM CIRCUT - PDM E/R No Indication - UNKUN UNKUN - UNKUN CAN COM CIRCUT - ymptoms : Attach copy of SELECT SYSTEM Attach copy of	LL MODE AWDJAWNO - NG UNKWN UNKWN UNKWN - UNKWN - UNKWN - UNKWN - CAN COMM CIRCUIT - BS - NG UNKWN UNKWN CAN COMM CIRCUIT - DM E/R NO INKWN UNKWN UNKWN - UNKWN - UNKWN CAN COMM CIRCUIT - U1000) ymptoms : Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	ALL MODE AWD/4WD ABS PDM E/R Symptoms :	No No indication	NG NG	UNKWN UNKWN UNKWN	UNKWN UNKWN UNKWN	UNKWN 	-	UNKWN			UNKWN	CAN COMM CIRCUIT	-
IES - NG UNKWN UNKWN CAN COMM CIRCUT 100 E/R No - UNKWN UNKWN - UNKWN CAN COMM CIRCUT 10000) - Wmptoms : Mitach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	BS       -       NG       UNKWN       UNKWN       -       -       -       -       -       CAN COMM CIRCUIT       -         rbm E/R       NO       -       UNKWN       UNKWN       -       UNKWN       -       -       -       -       CAN COMM CIRCUIT       -         ymptoms :       -       -       -       -       -       -       -       CAN COMM CIRCUIT       -         ymptoms :       -       -       -       -       -       -       CAN COMM CIRCUIT       -         ymptoms :       -       -       -       -       -       CAN COMM CIRCUIT       -         ymptoms :       -       -       -       -       -       CAN COMM CIRCUIT       -         ymptoms :       -       -       -       -       -       CAN COMM CIRCUIT       -         Ymptoms :       -       -       -       -       -       -       CAN COMM CIRCUIT       -         Ymptoms :       -       -       -       -       -       -       -       CAN COMM CIRCUIT       -         Ymptoms :       -       -       -       -       -       -       -       C	as       -       NG       UNKWN       UNKWN       -       -       -       -       CAN COMM CIRCUIT       -         DM E/R       No       -       UNKWN       UNKWN       -       UNKWN       -       -       -       -       CAN COMM CIRCUIT       -         ymploms :       -       -       -       -       -       -       -       -       CAN COMM CIRCUIT       -         ymploms :       -       -       -       -       -       -       -       CAN COMM CIRCUIT       -         ymploms :       -       -       -       -       -       -       -       CAN COMM CIRCUIT       -         ymploms :       -       -       -       -       -       -       -       CAN COMM CIRCUIT       -         ymploms :       -       -       -       -       -       -       -       CAN COM CIRCUIT       -         Ymploms :       -       -       -       -       -       -       -       CAN COM CIRCUIT       -         SELECT SYSTEM       -       -       -       -       -       -       -       -       -       -       -       -	BS PDM E/R ymptoms :	 No indication	NG 	UNKWN	UNKWN UNKWN	-	-			UNKWN		CAN COMM CIRCUIT	-
POM E/R No - UNKWN UNKWN - UNKWN CAN COMM CIRCUIT -	PDM E/R No - UNKWN UNKWN - UNKWN CAN COMM CIRCUIT -	IDM ER No - UNKWN UNKWN - UNKWN CAN COUNT -	PDM E/R	No indication	_	UNKWN	UNKWN	-		-	_	-		CAN COMM CIRCUIT	
Symptoms : Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	ymptoms : Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	ymptoms : Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	Symptoms :		I	I			UNKWN		_	_		CAN COMM CIRCUIT	
Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM	Attach copy of SELECT SYSTEM													
						Atta SELE	ICH COPY	of TEM			At SEL	tach cop ECT SY	y of STEM		
					L				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

Check harness between TCM and data link connector. Refer to <u>LAN-244</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen		···· ··			Rece	eive diagno	sis			SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-		UNKVN	UNKIN	-		CAN COMMCIRCUIT (UN00)	
всм	No indication	NG	UNKWN		-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN		CAN COMM CIRCUIT (U 1000)	
ABS	-	NG	UNKWN	UNKWN	-	-	_	-	-		CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN		-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (UN00)	



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Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u>245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN DIA	G SUPPOR	RT MNTR					
	screen					Rece	eive diagno	sis			SELE-DIAG	RESULTS
GELEOT OTOTEM	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	THEODER'S
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCU (UN01)
A/T		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN			CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	-			CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKIN		CAN COMMCIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKIN		CAN COMMCIRCUIT (UN00)	
ABS		NG	UNKWN	UNKON	-			-	-	-	CAN COMMCIRCUIT (U 100)	
IPDM E/R	No indivation	-	UNKWN	UNKWN	-	UNKWN		-		-	CAN COMMCIRCUIT (UN00)	



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#### Case 3

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Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen	1	· · · · · · · · ·			Rece	eive diagno	sis			SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKIN	-	UNKWN	UNKWN	UNKWN	UNKIN	-	UNKIN	CAN COMM CIRCUIT (U 1000)	CAN COMMCIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-		UNKWN	UNKWN	-	-	CAN COMM CIRCUIT (UN00)	
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKIN	UNKWN	UNKWN			UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U 1000)	
ABS		NG	UNKWN	UNKIN	-			-	-	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKOVN	-	UNKWN	-		-	-	CAN COMMCIRCUIT (UN00)	<u></u>
	•				•	•		•			•	



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Check TCM circuit. Refer to LAN-247, "TCM Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAG	BESUITS
SELECT STOTEW	13010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE		-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMMCIRCUIT (U 1000)	CAN COMMCIRCUI (UN01)
A/T		NG	UNKWN	UNKWN	-		UNKWN	UNKWN			CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKIN	UNKWN			UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKIN	-	UNKWN	-	UNKWN		CAN COMM CIRCUIT (U 1000)	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-		CAN COMM CIRCUIT (U1000)	—
IPDM E/R	No indication		UNKWN	UNKWN		UNKWN		-			CAN COMM CIRCUIT (U1000)	-



#### Case 5

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Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen	1	· · · · · · · · · · ·			Rece	eive diagno	sis			SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	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)	-
BCM	No inditation	NG	UNKWN	UNKWN	-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No inditiation		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN	-	UNKWN		UNKWN	-	CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	-	-	-	-	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No inditation	-	UNKWN	UNKWN	-	UNKWN	-	-		-	CAN COMM CIRCUIT (U1000)	



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Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
	soroop					Rece	eive diagno	sis			SELEDIAG	
SELECT STOTEM	Screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	INCOULO
ENGINE	-	-	UNKWN	-	UNKWN	UNKIN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRC (U1001)
A/T		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN			CAN COMM CIRCUIT (U1000)	_
всм	No inditation	NG	UNKWN	UNKWN	-	_	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	UNKIN		-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	-			-	-		CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMMCIRCUIT (U100)	-



#### Case 7

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Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen	1	······			Rece	eive diagno	sis			SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE		-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-		CAN COMMCIRCUIT (U100)	-
всм	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No inditation		UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	
ABS		NG	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 transfer control unit circuit. Refer to LAN-250, "Transfer Control Unit Circuit Inspection" .

	CAN DIAG SUPPORT MNTR											
SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	Receive diagnosis							SELE-DIAG RESULTS	
				ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE		-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-		CAN COMMCIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD		NG	UNKIN	UNKWN	UNKIN		UNKWN	-	UNKOVN		CAN COMMCIRCUIT (U N00)	
ABS		NG	UNKWN	UNKWN	-			-	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-	-		-	CAN COMM CIRCUIT (U1000)	


### [CAN]

#### Case 9

А Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-250, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAG	BESUITS
GLEEOT OTOTEM	5010011	Initial diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIA	
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)	
всм	No indication	NG	UNKWN	UNKWN	-	_	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN				UNKWN	CAN COMMCIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-		-	CAN COMMCIRCUIT (U N00)	
ABS	-	V	UNKIN	UNKWN	-	-	_	-	-	-	CAN COMMCIRCUIT (UN00)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN		-		-	CAN COMM CIRCUIT (U1000)	



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Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAG	RESULTS
SELECT STOTEM	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEEPDIAC	THEODER'S
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN			CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	-	-	_	-	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No inditation		UNKWN	UNKWN	-	UNKWN		-			CAN COMM CIRCUIT (U 1000)	



### Case 11

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAG	
	3010611	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	JELI DIAC	TILOULIO
ENGINE		-	UNKWN	—	UNKWN	UNKIN	UNKWN	UNKIN	-	UNKWN	CAN COMM CIRCUIT (U N00)	CAN COMMCIRCUIT (U 101)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKIN	-		CAN COMM CIRCUIT (UN00)	-
всм	No inditiation	NG	UNKWN	UNKWN	-		UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No inditation	-	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKIN	UNKWN				-	UNKWN		CAN COMMCIRCUIT (U100)	
ABS		V	UNKWN		-			-	-		CAN COMMCIRCUIT (UN00)	—
IPDM E/R	No inditiation	-	UNKWN	UNKWN	-	UNKWN	-	+		_	CAN COMM CIRCUIT (UN00)	—
												PKIC5840E

### [CAN]

### Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection"</u>.

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIA(	BESUITS
GLEEOF OF OF OFFER	3010611	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE		-	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U NO0)	CAN COMM CIRCUI (U N01)
A/T		NG	UNKWN	UNKWN	-		UNKWN	UNKWN			CAN COMM CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKIN	UNKWN		-	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN		-	UNKWN	-	UNKWN		CAN COMM CIRCUIT (U100)	
ABS	-	NG	UNKWN	UNKWN	-			-	-		CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	

### Case 13

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

[					CAN DIA	G SUPPOR	T MNTR				[	
	screen					Rece	eive diagno	sis			SELE-DIAG	
	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	HEODERO
ENGINE	-		UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T		NG	UNKWN	—	-	-	-	-	-	-	CAN COMMCIRCUIT (UN00)	—
всм	No indication	NG	UNKWN	UNKWN	-		UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	—	-			-	-		CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication	—	UNKWN	UNKWN	—	UNKWN	_	-	_	—	CAN COMM CIRCUIT (U1000)	
												PKIC5842E

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# CAN SYSTEM (TYPE 12)

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CAN SYSTEM (TYPE 12)	PFP:23710
Component Parts and Harness Connector Location	UK\$0055U
Refer to LAN-22, "Component Parts and Harness Connector Location".	
Schematic	UKS0055V
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UK\$0055W
Refer to LAN-24, "Wiring Diagram — CAN —".	

## **Check Sheet**

#### UKS0055X

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### NOTE:

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

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	l screen	Initial	Transmit			Rece	eive diagno	sis	1		SELF-DIAG	<b>G</b> RESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
INGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
/T	-	NG	UNKWN	UNKWN	-	_	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	<u> </u>
3CM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN	-		CAN COMM CIRCUIT (U1000)	
PDM E/R	No	-	UNKWN	UNKWN	-	UNKWN	-		_	-	CAN COMM CIRCUIT (U1000)	-
			Atta SELE	ich copy CT SYS1	of ΓEM			At	ttach cop	v of		
								SEL	ECT SYS	STEM		
								SEL	ECT SY:	ŚТЕМ		
								SEL	ECT SY	ŚTEM		

## CAN SYSTEM (TYPE 12)



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# **CAN SYSTEM (TYPE 12)**

### **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-244</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

					CAN DIA	G SUPPOR	AT MNTR					
SELECT SYSTEM	screen		···· ··			Rece	eive diagno	sis			SELE-DIAC	BESUITS
022201 010121	0010011	diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIK	
ENGINE		-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKIN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	—	UNKVN	UNKIN	UNKIN		CAN COMM/CIRCUIT (U1000)	_
всм	No indication	NG	UNKWN		-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKIN		UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN				UNKWN	-	UNKWN		CAN COMM CIRCUIT (UN00)	
ABS		NG	UNKWN	UNKOVN	UNKOVN	—		UNKWN	-		CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN	-		-	-	CAN COMM CIRCUIT (UN00)	-



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Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u>245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAG	RESULTS
022201 010121	5510011	diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DI C	
ENGINE		-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN		UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
<b>A</b> /T	-	NG	UNKWN	UNKWN	-		UNKWN	UNKWN	UNKVN		CAN COMMCIRCUIT (UN00)	_
ЗСМ	No indication	NG	UNKWN	UNKWN	-		UNKWN	-	-		CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN		-		UNKIN	CAN COMMCIRCUIT (UN00)	-
all mode awd/4wd	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKIN		CAN COMM CIRCUIT (U 1000)	
ABS	-	NG	UNKWN	UNKIN				UNKIN	-		CAN COMMCIRCUIT (U 100)	
PDM E/R	No indivation		UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (UN00)	-



# CAN SYSTEM (TYPE 12)

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#### Case 3

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Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen	La Wal	· · · · · · · ·			Rece	eive diagno	sis			SELE-DIAC	BESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKIN	-	UNKWN	UNKWN	UNKWN	UNKWN		UNKIN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	—	CAN COMM/CIRCUIT (UN00)	
ВСМ	No indication	NG	UNKWN		-		UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKIN	UNKWN	UNKWN		-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	—
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN		CAN COMM CIRCUIT (U N00)	
ABS	-	NG	UNKWN		UNKWN	-		UNKWN	-		CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication		UNKWN		-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (UN00)	-



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Check TCM circuit. Refer to LAN-247, "TCM Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAG	BESUITS
GELEOT GTOTEM	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE	-	-	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMMCIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-		UNKWN	UNKWN	UNKIN		CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	-		UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKIN	UNKWN			UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN			UNKWN	-	UNKWN		CAN COMM CIRCUIT (U 1000)	
ABS	-	NG	UNKWN	UNKWN	UNKIN			UNKWN	-		CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication		UNKWN	UNKWN	-	UNKWN		-		-	CAN COMM CIRCUIT (U1000)	



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Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

					CAN DIA	G SUPPOF	RT MNTR					
SELECT SYSTEM	screen	1	· · · · · · · · · · ·			Rece	eive diagno	sis			SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	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)	-
всм	No inditation	NG	UNKWN	UNKWN	1	1	UNKWN	1	I	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditation	—	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN		UNKWN	-	CAN COMM CIRCUIT (U1000)	<del></del>
ABS	-	NG	UNKWN	UNKWN	UNKWN	-		UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No inditation		UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	



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Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
	soroop					Rece	eive diagno	sis			SELEDIAG	
SELECT STATEM	screen	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELF-DIAC	I NESOLI S
ENGINE	-	-	UNKWN	-	UNKWN	UNKIN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM/CIRCL (U N01)
A/T		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ВСМ	No inditation	NG	UNKWN	UNKWN			UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	UNKIN		-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	UNKWN			UNKWN	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-		-	CAN COMMCIRCUIT (UN00)	



# **CAN SYSTEM (TYPE 12)**

#### Case 7

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Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

					CAN DIA	G SUPPOF	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAG	BESULTS
	5510011	diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE		-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U100)	
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	<u> </u>	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No individual	-	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN		UNKWN		CAN COMM CIRCUIT (U1000)	_
ABS		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 transfer control unit circuit. Refer to LAN-250, "Transfer Control Unit Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAG	BESUITS
OLLEOT OTOTEN	blicon	Initial diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	THEODERO
ENGINE	_	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U 1001)
A/T	-	NG	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	-	NG	UNKIN	UNKWN	UNKIN		UNKWN	-	UNKWN		CAN COMMCIRCUIT (U N00)	
ABS		NG	UNKWN	UNKWN	UNKWN			UNKIN	-		CAN COMMCIRCUIT (UN00)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	



### [CAN]

#### Case 9

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А Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-250, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAC	BESUITS
022201 010121	0010011	diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLL DIA	
ENGINE		-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
А/Т		NG	UNKWN	UNKWN	-		UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U100)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-		UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKIN	UNKWN	CAN COMMCIRCUIT (U1000)	-
ALL MODE AWD/4WD	1	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN		CAN COMM CIRCUIT (UN00)	
ABS	-	V.	UNKIN	UNKWN	UNKIN			UNKIN	-		CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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### Case 10

#### Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

					CAN DIA	G SUPPOR	RT MNTR					
	screen					Rece	eive diagno	sis				RESULTS
SELECT STOTEM	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (U1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	_	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	_	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN	-		CAN COMM CIRCUIT (U1000)	
IPDM E/R	No inditation	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U 1000)	



#### Case 11

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

					CAN DIA	G SUPPOF	RT MNTR					
	screen					Rece	eive diagno	sis			SELE-DIAG	BESUITS
	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	TILOULIO
ENGINE	-	-	UNKWN	I	UNKWN	UNKVN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM/CIRCUIT (U 1001)
A/T	-	NG	UNKWN	UNKWN	-	-	UNKWN	UNKAN	UNKWN	-	CAN COMM CIRCUIT (UN00)	-
всм	No inditiation	NG	UNKWN	UNKWN	-		UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No inditation	-	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	—
ALL MODE AWD/4WD	-	NG	UNKIN	UNKWN		-	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (U N00)	
ABS		V	UNKWN	UNKWN					-		CAN COMMCIRCUIT (UN00)	-
IPDM E/R	No inditiation	-	UNKWN	UNKWN	-	UNKWN		-		-	CAN COMM CIRCUIT (U1000)	_
												PKIC5854E

### [CAN]

### Case 12

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

					CAN DIA	G SUPPO	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAG	BESUITS
GELEOT OTOTEM	3010011	Initial diagnosis	Transmit diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE BIAC	
ENGINE	-		UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-		UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	-		UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKIN	UNKWN		-	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN		—	UNKWN	I	UNKWN	—	CAN COMMCIRCUIT (U100)	
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN	-		CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-

### Case 13

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Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN DIA	G SUPPOF	RT MNTR					
SELECT SYSTEM	screen					Rece	eive diagno	sis			SELE-DIAG	BESUITS
022201 010121	5510011	diagnosis	diagnosis	ECM	тсм	BCM /SEC	METER /M&A	AWD/4WD	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	—	CAN COMMCIRCUIT (UN00)	—
ВСМ	No indication	NG	UNKWN	UNKWN	1	1	UNKWN	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	-	UNKWN			-	-		CAN COMM CIRCUIT (UN00)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	UNKWN	ŀ	-	-	-	CAN COMM CIRCUIT (U1000)	-

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# CAN SYSTEM (TYPE 13)

	[CAN]
CAN SYSTEM (TYPE 13)	PFP:23710
Component Parts and Harness Connector Location	UKS0055Y
Refer to LAN-22, "Component Parts and Harness Connector Location".	
Schematic	UKS0055Z
Refer to LAN-23, "Schematic"	
Wiring Diagram — CAN —	UKS00560
Refer to LAN-24, "Wiring Diagram — CAN —".	

## **Check Sheet**

## NOTE:

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

			r		CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	Initial	Transmit				Receive	diagnosis	r			SELF-DIAC	<b>G RESULTS</b>
		diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
NGINE		-	UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
ЛТ	-	NG	UNKWN	UNKWN	١	1	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
NFF LOCK	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
СМ	No indication	NG	UNKWN	UNKWN	ł	I	-	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
1ETER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
LL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	1	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BS		NG	UNKWN	UNKWN	UNKWN	UNKWN	-		UNKWN		-	CAN COMM CIRCUIT (U1000)	
PDM E/R	No indication		UNKWN	UNKWN		-	UNKWN					CAN COMM CIRCUIT (U1000)	
Symptoms :													
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		_											
			Δ.	tach co	av of				<b>A ##</b> @		of		
			SEL	ECT SY	STEM				SELE	CT SYS	TEM		

## CAN SYSTEM (TYPE 13)



# **CAN SYSTEM (TYPE 13)**

### **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-244</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
	boreen	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	_	UNKWN	UNKIN	UNKWN		UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (U1001)
A/T		NG	UNKWN	UNKWN	-	-		UNK	UNKWN	UNKIN	-	CAN COMMCIRCUIT (UN00)	_
DIFF LOCK		NG	UNKWN	UNKWN	-	_	-	—	UNKWN	UNKWN	-	CAN COMMCIRCUIT (UN00)	_
BCM	No indication	NG	UNKWN	UNKWN	_			UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKIN	—	UNKWN			UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNION	UNKIN	-	-	UNKWN		UNKWN	-	CAN COMM CIRCUIT (UN00)	
ABS		NG	UNKWN	UNKWN	UNKIN	UNKWN			UNKWN		-	CAN COMMCIRCUIT (UN00)	
IPDM E/R	No indication	-	UNKWN	UNKWN		-	UNKWN				-	CAN COMM CIRCUIT (UN00)	



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Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u>245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					BESUITS
offer of other	boreen	initial diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE		-	UNKWN	-	UNKWN	_	UNKWN	UNKWN	UNKWN	UNKAVN		CAN COMM CIRCUIT (U1000)	CAN COMMCIRCU (UN01)
A/T		NG	UNKWN	UNKWN	-		1	UNKWN	UNKWN	UNKIVN	I	CAN COMMCIRCUIT (U N00)	-
DIFF LOCK	-	NG	UNKWN	UNKWN	-	—	—	-	UNKWN	UNKWN	-	CAN COMMCIRCUIT (UN00)	—
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN		-		CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	—	UNKWN		—	UNKAVN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	+	UNKWN			1	CAN COMM CIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	UNKIN		-	-			-	CAN COMMCIRCUIT (UN00)	
IPDM E/R	No inditiation		UNKWN	UNKWN		-	UNKWN					CAN COMM CIRCUIT (U N00)	



# CAN SYSTEM (TYPE 13)

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### Case 3

Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
	screen						Receive	diagnosis				SELE-DIAG	RESULTS
SEECT STOLEN	3016611	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	
ENGINE	-	-	UNKWN	-	UNKVN	_		UNKWN	UNKWN		UNKWN	CAN COMMCIRCUIT (U N00)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	_	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMMCIRCUIT (UN00)	-
DIFF LOCK	—	NG	UNKWN	UNKWN	-	—	-	-	UNKWN	UNKWN	-		-
BCM	No indication	NG	UNKWN	UNKWN	-	-	1	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	—	—	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	+	UNKWN		UNKWN	I	CAN COMM CIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	—	UNKWN	-	-	CAN COMMCIRCUIT (UN00)	
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN	-			-	CAN COMM CIRCUIT (UN00)	



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Check TCM circuit. Refer to LAN-247, "TCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
	0010011	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE		-	UNKWN	-	UNKIN	_	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMMCIRCUIT (U N00)	CAN COMMCIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN		-	1	UNKWN	UNKWN		1	CAN COMMCIRCUIT (U N00)	-
DIFF LOCK	—	NG	UNKWN	UNKWN	-	-	-	—	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	—	UNKWN	UNKWN		-	UNKWN			UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKIN	1	+	UNKWN		UNKWN	I	CAN COMM CIRCUIT (UN00)	
ABS	-	NG	UNKWN	UNKWN	UNKIN	UNKWN	-	-	UNKWN		-	CAN COMMCIRCUIT (U N00)	
IPDM E/R	No indication		UNKWN	UNKWN		-	UNKWN		-		-	CAN COMM CIRCUIT (U1000)	



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### Case 5

Check differential lock control unit circuit. Refer to LAN-247, "Differential Lock Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
	screen						Receive	diagnosis				SELE-DIAG	RESULTS
SEECT STOLEN	NE -			ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
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)	-
DIFF LOCK	-	NG		UNKWN	-	—	-	_	UNKWN	UNKIN	-	CAN COMMCIRCUIT (UN00)	-
BCM	No indication	NG	UNKWN	UNKWN	-	_	-	UNKWN	_	_	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	—	UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN		UNKWN	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN		-	CAN COMMCIRCUIT (UN00)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	1		-	CAN COMM CIRCUIT (U1000)	



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Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1-21-1					Receive	diagnosis				SELE-DIAG	BESUITS
042401 01012	0010011	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
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)	-
DIFF LOCK	-	NG	UNKWN	UNKWN	—	—	—	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	ł
всм	No inditiation	NG	UNKWN	UNKWN	1	-	1	UNKWN	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditation	-	UNKWN	UNKWN	UNKWN		UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		-	UNKWN	-	UNKWN	1	CAN COMM CIRCUIT (U1000)	H
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No inditiation	-	UNKWN	UNKWN	-	_	UNKWN	-		_	-	CAN COMM CIRCUIT (U1000)	-



# CAN SYSTEM (TYPE 13)

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### Case 7

Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
	screen						Receive	diagnosis				SELE-DIAG	RESULTS
SELECT STOLEN	3016611	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		THEODERS
ENGINE	-	-	UNKWN	-	UNKWN		UNKIN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
DIFF LOCK	—	NG	UNKWN	UNKWN	-	—	—	—	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	—	UNKWN	UNKWN	CAN COMMCIRCUIT (U 1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	1	-	UNKWN		UNKWN	I	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	1	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN		-	UNK	-			-	CAN COMMCIRCUIT (U 1000)	



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Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	BESUITS
offer of other	boreen	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	THEODERO
ENGINE	-	-	UNKWN	-	UNKWN		UNKWN	UNKVN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCU (UN01)
A/T		NG	UNKWN	UNKWN	-	-	-	UNKVN	UNKWN	UNKWN	-	CAN COMMCIRCUIT (UN00)	—
DIFF LOCK	-	NG	UNKWN	UNKWN	-	—	—	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKVN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditation	-	UNKWN	UNKWN	UNKWN	—	UNKWN	-	—	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	_	UNKWN	I	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	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 transfer control unit circuit. Refer to LAN-250, "Transfer Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
	screen						Receive	diagnosis				SELE-DIAG	RESULTS
SELECT STOLEN	3016611	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKIN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN	UNKWN	—	CAN COMMCIRCUIT (UN00)	
DIFF LOCK	—	NG	UNKWN	UNKWN	-	-	-	—		UNKWN	—	CAN COMMCIRCUIT (U N00)	_
BCM	No indication	NG	UNKWN	UNKWN	_	_	-	UNKWN		_	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	—		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKIN	UNKVN	UNKWN	1	-	UNKWN			1	CAN COMMCIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-		-	-	CAN COMMCIRCUIT (UN00)	
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-250</u>, "ABS Actuator and Electric Unit (<u>Control Unit</u>) <u>Circuit Inspection</u>".

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					BESUITS
offer of other	boreen	initial diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKOVN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCU (UN01)
A/T		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKIN	-	CAN COMMCIRCUIT (U N00)	—
DIFF LOCK	—	NG	UNKWN	UNKWN	-	—	-	-	UNKWN	UNKIN	—	CAN COMMCIRCUIT (U N00)	-
всм	No indication	NG	UNKWN	UNKWN	-			UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN		—		UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	1	-	UNKWN			1	CAN COMMCIRCUIT (UN00)	-
ABS	-	V	UNKIN	UNKIN	UNKWN	UNKIN	-	-			-	CAN COMMCIRCUIT (UN00)	
IPDM E/R	No indication		UNKWN	UNKWN		-	UNKWN	-	-		-	CAN COMM CIRCUIT (U1000)	



# CAN SYSTEM (TYPE 13)

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### Case 11

Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
	boreen	initial diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKIN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)
A/T		NG	UNKWN	UNKWN	-	-		UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
DIFF LOCK	—	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN		-	UNKIN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	—	UNKWN	—		UNKWN	UNKIN	CAN COMMCIRCUIT (U 1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN		UNKWN	I	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No inditiation	-	UNKWN	UNKWN		-	UNKWN			-	-	CAN COMMCIRCUIT (UN00)	



### Case 12

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

					CAN	DIAG SU	PPORT	INTR					
SELECT SYSTEM S	creen						Receive	diagnosis				SELE-DIAG	RESULTS
offer of offer and	010011	initial diagnosis	diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	-	UNKWN	-	UNKIN	-	UNKWN	UNKWN	UNKWN		UNKIN	CAN COMM CIRCUIT (U 1000)	CAN COMMCIRCUIT (UN01)
A/T		NG	UNKWN	UNKVN	—	1			UNKWN	UNKIN	-	CAN COMMCIRCUIT (UN00)	—
DIFF LOCK	—	NG	UNKWN	UNKVN	—	-	—	—	UNKWN	UNKWN	—	CAN COMMCIRCUIT (U 1000)	-
BCM	No nditation	NG	UNKWN	UNKWN	-	1	-	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No ndivation	-	UNKWN	UNKWN	UNKWN	-	UNKWN		—	UNKWN	UNKWN	CAN COMMCIRCUIT (U 1000)	-
ALL MODE AWD/4WD	ł	NG		UNKVN	UNKIN	1	-	UNKWN			I	CAN COMMCIRCUIT (U 100)	-
ABS	-	V		UNKIN	UNKIN		-	-	UNION		-	CAN COMMCIRCUIT (U 100)	
IPDM E/R	No ndNation	-	UNKWN	UNKWN	-	-	UNKWN				-	CAN COMMCIRCUIT (U 100)	

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### Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to LAN-252, "IPDM E/R Ignition Relay Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
SELECT STOLEN	3016611	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI-DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN		UNKWN	CAN COMM CIRCUIT (U N00)	CAN COMMCIRCUI (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	I	CAN COMM CIRCUIT (U1000)	-
DIFF LOCK	-	NG	UNKWN	UNKWN	-	—	-	-	UNKWN	UNKWN	-	CAN COMMCIRCUIT (U N00)	_
BCM	No indication	NG	UNKWN	UNKWN	-	-		UNKWN	_	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN		-	UNKWN	-	-		UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKIN	1	-	UNKWN	I		1	CAN COMMCIRCUIT (U N00)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN		-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN	-				CAN COMM CIRCUIT (U1000)	

### Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to LAN-252, "IPDM E/R Ignition Relay Circuit Inspection"

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					
OLLEOT OT OT LW	3016611	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DIFF LOCK	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	JELI -DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
A/T	-	NG	UNKWN	-	-	-	-	-	-	UNKWN	-	CAN COMMCIRCUIT (UN00)	—
DIFF LOCK	-	NG	UNKWN	UNKWN	-	—	-	—	UNKWN	UNKWN	—	CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	-		UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	—
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	1	-	UNKWN	-	UNKWN	1	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	-	UNKWN	-		-			-	CAN COMMICIRCUIT (UN00)	-
IPDM E/R	No indication	—	UNKWN	UNKWN	-	-	UNKWN	_	-	-	-	CAN COMM CIRCUIT (U1000)	
													PKIC5938E

# CAN SYSTEM (TYPE 14)

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CAN SYSTEM (TYPE 14)	PFP:23710	
Component Parts and Harness Connector Location	UK\$00562	ł
Refer to LAN-22, "Component Parts and Harness Connector Location".		
Schematic	UKS00563	3
Refer to LAN-23, "Schematic".		
Wiring Diagram — CAN —	UK\$00564	2
Refer to LAN-24, "Wiring Diagram — CAN —".		
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## **Check Sheet**

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

SELECT SYSTEM screen         SELF-DIAG RESULTS           Initial diagnose         Transmit diagnose         ECM         TCM         STRg         Peeck         MIXEM         VDC/TCS         IPDM         SELF-DIAG RESULTS           ENGINE         -         -         UNKWN         -         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         CAN COMM CIRCULT CAN COMM CIRCULUT CAN COMM CIRULUT C						CAN	DIAG SU	PPORT N	INTR					
diagnosis         ECM         TCM         STRG         PECC         MARA         Munopublic Size         ECM           ENGINE         -         -         UNKWN         -         UNKWN         UNKWN <td>SELECT SYSTEM</td> <td>screen</td> <td>Initial</td> <td>Transmit</td> <td></td> <td></td> <td></td> <td>Receive</td> <td>diagnosis</td> <td></td> <td>UDOTOO</td> <td>IDOM</td> <td>SELF-DIAG</td> <td>RESULTS</td>	SELECT SYSTEM	screen	Initial	Transmit				Receive	diagnosis		UDOTOO	IDOM	SELF-DIAG	RESULTS
ENGINE         -         -         UNKWN         -         UNKWN			diagnosis	diagnosis	ECM	тсм	STRG	/SEC	/M&A	AWD/4WD	/ABS	E/R		
ATT         -         NG         UNKWN         UNKWN <td>ENGINE</td> <td></td> <td></td> <td>UNKWN</td> <td>-</td> <td>UNKWN</td> <td>—</td> <td>UNKWN</td> <td>UNKWN</td> <td>UNKWN</td> <td>UNKWN</td> <td>UNKWN</td> <td>CAN COMM CIRCUIT (U1000)</td> <td>CAN COMM CIRCU (U1001)</td>	ENGINE			UNKWN	-	UNKWN	—	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (U1001)
BCM       No       No       UNKWN       UNKWN       -       -       -       UNKWN       UNKWN       UNKWN       -       -       UNKWN       UNKWN       UNKWN       -       -       -       UNKWN       -       -       UNKWN       -       -       -       -       -       -       -       -       -       -	A/T		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
WETER       No        UNKWN       UNKWN       UNKWN         UNKWN       UNKWN       UNKWN         UNKWN       UNKWN         UNKWN       UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN         UNKWN          CAN COMM CIRCUIT          PDM E/R       No       UNKWN       UNKWN       UNKWN           CAN COMM CIRCUIT          CAN COMM CIRCUIT	ВСМ	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD NG UNKWN UNKWN UNKWN UNKWN UNKWN GAN COMM CIRCUIT UNKWN UNKWN CAN COMM CIRCUIT UNKWN UNKWN CAN COMM CIRCUIT UNKWN UNKWN GAN COMM CIRCUIT UNKWN	METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ABS       -       NG       UNKWN       UNKWN       -       -       UNKWN       -       -       CAN COMM CIRCUIT       -         PDM E/R       NO       UNKWN       UNKWN       -       -       -       -       CAN COMM CIRCUIT       -         Symptoms :       -       -       UNKWN       -       -       -       -       CAN COMM CIRCUIT       -         Symptoms :       -       -       -       -       -       -       CAN COMM CIRCUIT       -         Symptoms :       -       -       -       -       -       CAN COMM CIRCUIT       -         Symptoms :       -       -       -       -       -       -       CAN COMM CIRCUIT       -         Symptoms :       -       -       -       -       -       CAN COMM CIRCUIT       -         Symptoms :       -       -       -       -       -       -       CAN COMM CIRCUIT       -         Attach copy of SELECT SYSTEM       -	ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN	-		UNKWN		UNKWN	-	CAN COMM CIRCUIT (U1000)	
PDM E/R No UNKWN UNKWN UNKWN GAN COMM CHCUIT -	ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN		-	CAN COMM CIRCUIT (U1000)	
Symptoms : Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	PDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN	_			-	CAN COMM CIRCUIT (U1000)	
Symptoms : Attach copy of SELECT SYSTEM Attach copy of SELECT SYSTEM	<b>_</b>			•			L	I					<b>u</b> i	L
				AI SEL	tach co ECT SY	py of STEM				Atta SELE	ch copy CT SYS	of TEM		

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## CAN SYSTEM (TYPE 14)



## **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-244</u>, "Inspection Between TCM and Data <u>Link Connector Circuit</u>".

					CAN	DIAG SU	PPORT N	INTR					
	Rereen						Receive	diagnosis			SELE-DIAG RESI		RESULTS
GELEOT OT OT EN SCIERT		lnitial diagnosis	Iransmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	1	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMIN CIRCUIT (U 101)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	1	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	—	—	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U 1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	—	-	CAN COMY CIRCUIT (U 100)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	_	UNKWN	—	_	-	-		_
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#### Case 2

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to LAN-245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		· '.				Receive	diagnosis				SELE-DIAC	BESUITS
SELECT STOLEN	3010011	Initial diagnosis	Iransmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SELI -DIAC	TIEGOEIG
ENGINE	—		UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN			CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 100)	-
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN	1	UNKWN	-	I	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		-	CAN COMM CIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN		-			-	CAN COMM CIRCUIT (U 100)	
IPDM E/R	Ng inchation	-	UNKWN	UNKWN			UNKWN		-	-	-	CAN COMM CIRCUIT (U 000)	



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Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
SELECT OF OTHER	3018611	Initial diagnosis	lransmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI -DIAC	TILOULIU
ENGINE	-		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	CAN COMIN CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	—	UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	1	CAN COMM CIRCUIT (U 000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U 000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-	_	UNKWN	—			_	CAN COMM CIRCUIT (U 1000)	



#### CAN SYSTEM (TYPE 14)

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#### Case 4

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Check TCM circuit. Refer to LAN-247, "TCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
offeren of other	ooreen	lnitial diagnosis	diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	TILOULIO
ENGINE		-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (UV01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	1	CAN COMIC CIRCUIT (U 000)	_
BCM	No indication	NG	UNKWN	UNKWN	-	1	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	1	-	UNKWN	-	UNKWN	ł	CAN COMICIRCUIT (U 000)	
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN		-	CAN COMICIRCUIT (U 000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-		-	-	CAN COMM CIRCUIT (U1000)	_



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Check steering angle sensor circuit. Refer to LAN-248, "Steering Angle Sensor Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
	screen						Receive	diagnosis					
SELECTOTOTEM	3016611	Initial diagnosis	Iransmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		TILOULIO
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCL (U1001)
A/T	-	NG	UNKWN	UNKWN	-			UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN			UNKWN	-	UNKWN		CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN			CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN		-	-		CAN COMM CIRCUIT (U1000)	—



#### CAN SYSTEM (TYPE 14)

#### Case 6

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Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen	1-11-1					Receive	diagnosis				SELE-DIAG	BESUITS
	Soroon	diagnosis	diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
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)	-
BCM	Ng ind ation	NG	UNKWN	UNKWN	-		-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	+	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN	—	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	_
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	—	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No inclustion	—	UNKWN	UNKWN	-	—	UNKWN	1		—	-	CAN COMM CIRCUIT (U1000)	-



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Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis					RESULTS
OLLEOT OTOTEN	sorcen	Initial diagnosis	Iransmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	THEODERO
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKIN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCL (UV01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	
BCM	No individual	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN		-	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-		UNKWN		-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	_	UNKWN	UNKWN	-	-	UNKOVN		—		-	CAN COMIC CIRCUIT (U 000)	4



#### CAN SYSTEM (TYPE 14)

#### Case 8

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Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen		-				Receive	diagnosis				SELE-DIAG	BESUITS
SEECT OF STER		initiai diagnosis	diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DINC	
ENGINE			UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMINCIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	_	-		UNKWN	UNKWN	-	CAN COMIN CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	N ind ation		UNKWN	UNKWN	UNKWN	_	UNKWN	—	-	UNKWN	UNKWN	CAN COMICIRCUIT (U 100)	
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	
ABS		NG	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	—	UNKWN	UNKWN	-	-	UNKWN	—	-	-	—	CAN COMM CIRCUIT (U1000)	-
													DKIOSCO4E



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Check transfer control unit circuit. Refer to LAN-250, "Transfer Control Unit Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	BESUITS
OLLEOT OTOTEM	0010011	lnitial diagnosis	lransmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-	—	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCU (UN01)
A/T	-	NG	UNKWN	UNKWN	-	-	-	UNKWN	UNIWN	UNKWN	-	CAN COMM CIRCUIT (U 000)	—
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	_	UNKWN	UNKWN	UNKWN	—	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-		UNKWN	-		_	CAN COMM CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNIOWN	-	-	CAN COMM CIRCUIT (U 100)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN		-	1	1	CAN COMM CIRCUIT (U1000)	—



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#### Case 10

А Check ABS actuator and electric unit (control unit) circuit. Refer to LAN-250, "ABS Actuator and Electric Unit (Control Unit) Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	RESULTS
OLLEOT OTOTEM	3010011	Initial diagnosis	Iransmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-		UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UV01)
A/T		NG	UNKWN	UNKWN	—			UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U 1000)	
BCM	No indication	NG	UNKWN	UNKWN	-			UNKWN			UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	—	UNKWN	UNKWN	UNKWN	-	UNKWN	-		UNKWN	UNKWN	CAN COMICIRCUIT (U 100)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		-	UNKWN	-	UNKWN	-	CAN COMIN CIRCUIT (U 1000)	_
ABS	-	V	UNKWN	UNKWN	UNKWN	UNKWN		-			-	CAN COMICIRCUIT (U 000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN		_	UNKWN		-		-	CAN COMM CIRCUIT (U1000)	



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Check IPDM E/R circuit. Refer to LAN-252, "IPDM E/R Ignition Relay Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	Iscreen		ł				Receive	diagnosis				SELE-DIAG	RESULTS
SELECT STOLEN	13010011	Initial diagnosis	Iransmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	
ENGINE	-	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
<b>A</b> /T	_	NG	UNKWN	UNKWN	-	—	-	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	-
ЗСМ	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN			UNKWN	UNION	CAN COMICIRCUIT (U 100)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN		UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	ł	CAN COMM CIRCUIT (U1000)	-
PDM E/R	No inclustion	—	UNKWN	UNKWN		—	UNKWN	-	-	-	—	CAN COMIC CIRCUIT (U 1000)	-



#### Case 12

Check CAN communication circuit. Refer to LAN-251, "CAN Communication Circuit Inspection" .

					CAN	DIAG SU	PPORT N	INTR					
SELECT SYSTEM	screen						Receive	diagnosis				SELE-DIAG	BESUITS
	0010011	initiai diagnosis	diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	TEODEIO
ENGINE		-	UNKWN	-	UNKWN	-	UNKVN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (U 101)
A/T		NG	UNKWN	UNKWN	-		-		UNKWN	UNKWN		CAN COMM CIRCUIT (U 100)	
всм	No inclusion	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	—
METER	No indivation	-	UNKWN	UNKWN	UNKWN	-	UNKWN			UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN		UNKWN		CAN COMMCIRCUIT (UN00)	
ABS	-	V	UNKWN	UNKWN	UNKWN	UNKWN	-		UNION	-	-	CAN COMM CIRCUIT (UN 00)	
IPDM E/R	No inclustion		UNKWN	UNKWN	-	-	UNKWN			1		CAN COMM CIRCUIT (U 1000)	-

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#### Case 13

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

					CAN	DIAG SU	IPPORT N	INTR					
SELECT SYSTEM	scroon						Receive	diagnosis				SELE-DIAC	BESHITS
OLLEOT OTOTEM	Soreen	Initial diagnosis	lransmit diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIA	
ENGINE			UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U 100)	CAN COMM CIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	-	_	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	-		-	UNKWN		-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U 1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U 1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-		UNKWN	-	-	-	1	CAN COMM CIRCUIT (U1000)	-

#### Case 14

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

					CAN	DIAG SL	PPORT N	INTR					
SELECT SYSTEM	screen	latial	Transmit				Receive	diagnosis				SELE-DIAG	
SEECT STOLEN	0010011	diagnosis	diagnosis	ECM	тсм	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIVIC	
ENGINE	-		UNKWN	-	UNKWN		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (U1001)
<b>A/</b> T	-	NG	UNKWN	-	-		-	-	-	UNKWN	-	CAN COMIC CIRCUIT (U 1000)	-
BCM	No indication	NG	UNKWN	UNKWN	-		-	UNKWN	-		UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indication	-	UNKWN	UNKWN	UNKWN	—	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN		-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
ABS	-	NG	UNKWN	-	UNKWN		-	-	-	-	-	CAN COMIN CIRCUIT (U 1000)	-
IPDM E/R	No indication		UNKWN	UNKWN	-		UNKWN	-	-		-	CAN COMM CIRCUIT (U1000)	-
													PKIC5697E

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#### CAN SYSTEM (TYPE 15)

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CAN SYSTEM (TYPE 15)	PFP:23710
Component Parts and Harness Connector Location	UK\$00566
Refer to LAN-22, "Component Parts and Harness Connector Location".	
Schematic	UKS00567
Refer to LAN-23, "Schematic".	
Wiring Diagram — CAN —	UKS00568
Refer to LAN-24, "Wiring Diagram — CAN —".	

#### **Check Sheet**

#### NOTE:

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

					C	AN DIAC	SUPPC	ORT MNTI	٦					
SELECT SYSTEM	screen	Initial	Transmit				Rec	eive diagr	nosis			r	SELF-DIAG	G RESULTS
		diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
NGINE			UNKWN	-	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUI (U1001)
Г	-	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
FF LOCK		NG	UNKWN	UNKWN		-	-	-	-	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	_
м	No Indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
ETER	No indication		UNKWN	UNKWN	UNKWN	-		UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
LL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN		—	-	UNKWN	-	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
BS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-		UNKWN	-	_	CAN COMM CIRCUIT (U1000)	-
PDM E/R	No indication		UNKWN	UNKWN	-	-		UNKWN		-	1	-	CAN COMM CIRCUIT (U1000)	-
			s	Attach	copy o SYSTE	f EM				Attac SELEC	h copy T SYS	of TEM		
														PKIC5857E

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#### CAN SYSTEM (TYPE 15)



#### **CAN SYSTEM (TYPE 15)**

#### **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 LAN-244, "Inspection Between TCM and Data Link Connector Circuit" .

					C	AN DIAC	SUPPC	RT MNT	R					
SELECT SYSTEM	screen	1-22-1	<b>-</b>				Rec	eive diag	nosis				SELE-DIAG	BESULTS
SELECT STOTEM	Borcerr	Initial diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE	-		UNKWN	-	UNKWN		-	UNK		UNKUN	UNKVN	UNKVN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
A/T		NG	UNKWN	UNKWN	-	-	-	-	UNKWN		UNKVN	-	CAN COMM CIRCUIT (UN00)	-
DIFF LOCK	-	NG	UNKWN	UNKWN			-	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (UN00)	-
BCM	No indication	NG	UNKWN		-	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKIN	UNKWN	—	-	UNKWN	1	—	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKAN	UNKWN		-	-	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (UN00)	
ABS	-	NG	UNKWN	UNKWN	UNKIN	UNKWN	UNKWN		1	UNKWN	-	-	CAN COMMCIRCUIT (UN00)	
IPDM E/R	No indication	-	UNKWN		-	-	-	UNKWN	-	_	-	-	CAN COMMCIRCUIT (UN00)	



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Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to <u>LAN-</u>245, "Inspection Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit) Circuit".

					C	AN DIAG	G SUPPC	RT MNT	R					
SELECT SYSTEM	screen	1	<b>T</b>				Rec	eive diag	nosis				SELE-DIAG	BESUITS
OLLOT OT OT LINT		diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN		UNKVN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	—	-	-	-	UNKWN	UNKWN		-	CAN COMM CIRCUIT (UN00)	—
DIFF LOCK	-	NG	UNKWN	UNKWN	-	I	-	-	١	UNKWN	UNKIN	-	CAN COMM CIRCUIT (UN00)	-
всм	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	1	UNK	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	-		UNK	CAN COMMCIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	—		—	CAN COMMCIRCUIT (UN00)	
ABS	-	NG	UNKWN	UNKWN		UNK	UNKWN	-	Ι	UNK	1	-	CAN COMM CIRCUIT (UN00)	_
IPDM E/R	No inditation	-	UNKWN	UNKWN	_	-	-	UNKWN	-		-	-	CAN COMMCIRCUIT (UN00)	



#### CAN SYSTEM (TYPE 15)

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#### Case 3

Check ECM circuit. Refer to LAN-246, "ECM Circuit Inspection" .

					C	CAN DIAC	SUPPC	RT MNT	R					
SELECT SYSTEM	scroon						Rec	eive diag	nosis				SELE-DIAG	RESULTS
GELLOT GTOTEM	soreen	Initial diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
ENGINE		-	UNKWN		UNKIVN		-	UNK	UNKVN		UNKVN		CAN COMMCIRCUIT (UN00)	CAN COMM CIRCUI (U 1001)
A/T		NG	UNKWN		-	—	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMMCIRCUIT (UN00)	
DIFF LOCK	-	NG	UNKWN		-		-	-	-	UNKWN	UNKWN	-	CAN COMMCIRCUIT (UN00)	-
BCM	No indication	NG	UNKWN	UNKIVN	-	-	-	-	UNKWN	Ι	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN		UNKWN	—	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	
ALL MODE AWD/4WD	-	NG	UNKWN		UNKWN	—		-	UNKWN	-	UNKWN	-	CAN COMMCIRCUIT (UN00)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	-	CAN COMMCIRCUIT (UN00)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (UN00)	



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Check TCM circuit. Refer to LAN-247, "TCM Circuit Inspection" .

					C	AN DIAC	SUPPC	RT MNT	R					
SELECT SYSTEM	scroon						Rec	eive diagi	nosis				SELE-DIAG	RESULTS
	ooroon	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKAN			UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMMCIRCUIT (U 1000)	CAN COMMCIRCUIT (U1001)
A/T	-	NG	UNKWN		-	-	-	—	UNK	UNKWN		1	CAN COMM CIRCUIT (UN00)	-
DIFF LOCK	-	NG	UNKWN	UNKWN	-	-	-	-	I	UNKWN	UNKWN	I	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKAVN	-	-	UNKWN	1	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN				-	UNKWN	-	UNKWN	I	CAN COMM CIRCUIT (UN00)	_
ABS	-	NG	UNKWN	UNKWN	UNKVN	UNKWN	UNKWN	-	-	UNKWN	-	-	CAN COMMCIRCUIT (U 100)	—
IPDM E/R	No indication		UNKWN	UNKWN	-		-	UNKWN	_		-	-	CAN COMM CIRCUIT (U1000)	
														PKIC5861E



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#### Case 5

Check differential lock control unit circuit. Refer to LAN-247, "Differential Lock Control Unit Circuit Inspection" .

					C	AN DIAC	SUPPC	RT MNT	R					
SELECT SYSTEM	screen	1-22-1	<b>-</b>				Rec	eive diag	nosis				SELE-DIAG	BESULTS
	0010011	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
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)	—
DIFF LOCK	-	NG		UNKIN	-	I	-	-	-	UNKWN	UNKVN	1	CAN COMM CIRCUIT (UN00)	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN	-	-	—	UNKWN	-	UNKWN	1	CAN COMM CIRCUIT (U1000)	
ABS	-	NG	UNKWN	UNKWN	UNKWN		UNKWN	-	-	UNKWN	1	1	CAN COMMCIRCUIT (UN00)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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#### Case 6

Check steering angle sensor circuit. Refer to LAN-248, "Steering Angle Sensor Circuit Inspection" .

					C	AN DIAC	3 SUPPO	RT MNT	R					
SELECT SYSTEM	screen	1.00.1	<b></b>				Recr	eive diag	nosis				SELE-DIAG	BESHITS
	5010011	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DI C	
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)	—
DIFF LOCK		NG	UNKWN	UNKWN	_	—	—	-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
ВСМ	No indication	NG	UNKWN	UNKWN		-		- 1	UNKWN	· - ·	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication		UNKWN	UNKWN	UNKWN	_		UNKWN	-		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN				UNKWN		UNKWN	—	CAN COMM CIRCUIT (U1000)	
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKIN		-	UNKWN	-	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No Indication		UNKWN	UNKWN		_	_	UNKWN	-	_	—	-	CAN COMM CIRCUIT (U1000)	



Check data link connector circuit. Refer to LAN-248, "Data Link Connector Circuit Inspection" .

					C	AN DIAG	SUPPC	ORT MNT	R					
	ecroop						Rec	eive diag	nosis					BESHITS
GLEOTOTOTEM	Soreen	lnitial diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIAC	
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)	-
DIFF LOCK	-	NG	UNKWN	UNKWN	-	I	-	-	-	UNKWN	UNKWN	I	CAN COMM CIRCUIT (U1000)	-
всм	No inditation	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditation	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN		UNKWN	-	CAN COMM CIRCUIT (U1000)	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	+	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No.	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	



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Check BCM circuit. Refer to LAN-249, "BCM Circuit Inspection" .

					C	AN DIAC	SUPPC	RT MNT	R					
SELECT SYSTEM	screen	Initial	T				Rec	eive diag	nosis	-	-		SELE-DIAG	BESULTS
		diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN	-	UNKWN	-	-	UNKIN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	—	-	-	—	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	—
DIFF LOCK	-	NG	UNKWN	UNKWN	-	I	-	-	-	UNKWN	UNKWN	I	CAN COMM CIRCUIT (U1000)	-
всм	No inditation	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNK	-		UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN		UNKWN	1	CAN COMM CIRCUIT (U1000)	—
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	1	1	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indication	_	UNKWN	UNKWN	_		-	UNKWN	-	-	-	-	CAN COMMCIRCUIT (U1000)	



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#### Case 9

Check combination meter circuit. Refer to LAN-249, "Combination Meter Circuit Inspection" .

					C	AN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	scroon						Rec	eive diag	nosis				SELE-DIAG	RESULTS
SELECT STOTEM.	Boreen	lnitial diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE DIAC	
ENGINE	-		UNKWN	-	UNKWN	-		UNKWN	UNKVN	UNKWN	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	—	NG	UNKWN	UNKWN	-	-	—	—	UNKIN	UNKWN	UNKWN	-	CAN COMMCIRCUIT (U1000)	—
DIFF LOCK	-	NG	UNKWN	UNKWN	ł	I	-	-	-	UNKWN	UNKWN	I	CAN COMM CIRCUIT (U1000)	-
ВСМ	No indication	NG	UNKWN	UNKWN	-	1	-	-	UNKWN	-	1	UNKWN	CAN COMM CIRCUIT (U1000)	-
METER	No inditation	-	UNKWN	UNKWN	UNKWN	I	-	UNKWN	-		UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN	1		—	UNKVN	-	UNKWN	I	CAN COMM CIRCUIT (U1000)	—
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	I	-	CAN COMM CIRCUIT (U1000)	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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#### Case 10

Check transfer control unit circuit. Refer to LAN-250, "Transfer Control Unit Circuit Inspection" .

					C	AN DIAG	3 SUPPO	RT MNT	R						
SELECT SYSTEM	screen						Rece	eive diagr	nosis				SELE-DIAG	BESUITS	
	SOLCELL	Initial diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R			
ENGINE	—	-	UNKWN	_	UNKWN			UNKWN	UNKWN		UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUI (UN01)	
A/T	—	NG	UNKWN	UNKWN	—	-	-	—	UNKWN	UNKVN	UNKWN	—	CAN COMM/CIRCUIT (U1000)	-	
DIFF LOCK	—	NG	UNKWN	UNKWN	-	-	-		-	UNKVN	UNKWN	-	CAN COMMCIRCUIT (U1000)	-	
всм	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	—	UNKWN	CAN COMM CIRCUIT (U1000)	-	
METER	No indication	-	UNKWN	UNKWN	UNKWN	-	—	UNKWN	-	—	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	_	
ALL MODE AWD/4WD		NG	UNKIN	UNKIN	UNKIN	_		-	UNK	-		—	CAN COMMCIRCUIT (U100)		
ABS	_	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN		-	UNKVN	—	_	CAN COMMCIRCUIT (UN00)	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	_		-	UNKWN	-	-	—	_	CAN COMM CIRCUIT (U1000)	_	



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#### Case 11

Check ABS actuator and electric unit (control unit) circuit. Refer to <u>LAN-250</u>, "ABS Actuator and Electric Unit <u>(Control Unit) Circuit Inspection</u>".

					С	AN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	screen	1	<b>T</b>				Rec	eive diagr	nosis				SELE-DIAG	BESUITS
	ooroon	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIRC	
ENGINE	-	—	UNKWN	—	UNKWN	—	—	UNKWN	UNKWN	UNKWN	UNKIN	UNKWN	CAN COMM CIRCUIT (U1000)	CAN COMMCIRCUIT (UN01)
<b>V</b> T	-	NG	UNKWN	UNKWN	-	-	-		UNKWN	UNKWN	UNKVN	-	CAN COMMCIRCUIT (UN00)	-
DIFF LOCK	-	NG	UNKWN	UNKWN	-	-	-	-	-	UNKWN	UNKVN	-	CAN COMMCIRCUIT (UN00)	_
ВСМ	No indication	NG	UNKWN	UNKWN	—	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKWN	—	-	UNKWN	1	-	UNKVN	UNKWN	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	-		—	UNKWN	-	UNKIN	-	CAN COMM/CIRCUIT (UN00)	_
ABS	-	V	UNKVN	UNKIN	UNKVN	UNKVN	UNKIN	-	Ι	UNKIN	-	-	CAN COMMCIRCUIT (UN00)	
PDM E/R	No indication	-	UNKWN	UNKWN	-		-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-



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#### Case 12

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#### Check IPDM E/R circuit. Refer to LAN-251, "IPDM E/R Circuit Inspection" .

					C	AN DIAG	SUPPC	RT MNT	R					
SELECT SYSTEM	screen	1	<b>T</b>				Rec	eive diag	nosis				SELE-DIAG	BESUITS
	0010011	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	OLLI DIRC	
ENGINE	-		UNKWN	-	UNKWN	-		UNKWN	UNKWN	UNKWN	UNKWN		CAN COMM CIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN	UNKWN	—	-	-	—	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
DIFF LOCK	-	NG	UNKWN	UNKWN	-	I	-	-	-	UNKWN	UNKWN	I	CAN COMM CIRCUIT (U1000)	-
всм	No indication	NG	UNKWN	UNKWN	—	-	—	-	UNKWN	-	-		CAN COMM CIRCUIT (U1000)	-
METER	No indication	-	UNKWN	UNKWN	UNKWN	ł	-	UNKWN		-	UNKWN		CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD	-	NG	UNKWN	UNKWN	UNKWN	1		-	UNKWN		UNKWN	I	CAN COMM CIRCUIT (U1000)	—
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	I	-	CAN COMM CIRCUIT (U1000)	-
IPDM E/R	No indivision	-	UNKWN	UNKWN	-	-	-	UNKWN	-	_	—	-	CAN COMMCIRCUIT	_



#### Case 13

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					C	AN DIAC	SUPPC	ORT MNT	R					
	Peroon						Rec	eive diag	nosis				SELE-DIAG	BESHITS
SELECTOTOTEM	3010011	Initial diagnosis	Iransmit diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R	SEE -DIAC	THEODERO
ENGINE	-	-	UNKVN	-	UNKVN	-	—	UNK	UNKAN				CAN COMMCIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
A/T	-	NG	UNKWN		1	-	-	-	UNKWN		UNKVN	1	CAN COMMCIRCUIT (U 1000)	—
DIFF LOCK	-	NG	UNKWN	UNKAN	-	ł	-	-	-		UNKVN	-	CAN COMMCIRCUIT (UN00)	-
всм	No indivition	NG	UNKWN	UNKWN	-	—	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	_
METER	No indivision	-	UNKWN	UNKWN	UNKWN	ł	-	UNKWN			UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	_
ALL MODE AWD/4WD	-	NG	UNKOVN			-	-	-	UNKIN	-		1	CAN COMMCIRCUIT (UN00)	—
ABS	-	V	UNKVN	UNK	UNKVN	UNKVN	UNKIN	-	-	UNK	1	1	CAN COMMCIRCUIT (UN00)	—
IPDM E/R	No indivision	—	UNKWN	UNKWN	-		-	UNKWN	-	-	-	-	CAN COMMCIRCUIT (UN00)	
														PKIC5870E

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#### Case 14

Check IPDM E/R ignition relay circuit continuously sticks "OFF". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>A</u> <u>Circuit Inspection</u>".

					C	AN DIAG	G SUPPC	ORT MNT	R					
SELECT SYSTEM	screen	1	<b>-</b>				Rec	eive diag	nosis				SELE-DIAG	BESUITS
	0010011	diagnosis	diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	VDC/TCS /ABS	IPDM E/R		
ENGINE	-	-	UNKWN		UNKVN	-	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	CAN COMMCIRCUIT (U1000)	CAN COMM CIRCUIT (UN01)
<b>4</b> /T	-	NG	UNKWN	UNKWN	-	1	-	-	UNKWN	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-
DIFF LOCK	-	NG	UNKWN	UNKWN	-		-	-	-	UNKWN	UNKVN	-	CAN COMMCIRCUIT (UN00)	_
ВСМ	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	
METER	No indication	-	UNKWN	UNKWN	UNKVN	-	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMMCIRCUIT (UN00)	-
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKIN	-	-	-	UNKWN	-	UNKIN	1	CAN COMMCIRCUIT (UN00)	—
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	1	CAN COMM CIRCUIT (U1000)	_
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	_

#### Case 15

Check IPDM E/R ignition relay circuit continuously sticks "ON". Refer to <u>LAN-252</u>, "IPDM E/R Ignition Relay <u>Circuit Inspection</u>".

r													1		
					С	AN DIAC	SUPPC	DRT MNT	R						
SELECT SYSTEM	screen						Rec	eive diagi	nosis				SELE-DIAG		
SEEDT OT STEM	3010011	lnitial diagnosis	lransmit diagnosis	ECM	тсм	DIFF LOCK	STRG	BCM /SEC	METER /M&A	AWD/4WD	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	1	CAN COMMCIRCUIT (U1000)	-	
DIFF LOCK	-	NG	UNKWN	UNKWN	-	+		-	-	UNKWN	UNKWN	-	CAN COMM CIRCUIT (U1000)	-	
всм	No indication	NG	UNKWN	UNKWN	—	—	-	-	UNKWN	-	-	UNKWN	CAN COMM CIRCUIT (U1000)	-	
METER	No indication	-	UNKWN	UNKWN	UNKWN	ł	-	UNKWN	-	-	UNKWN	UNKWN	CAN COMM CIRCUIT (U1000)	-	
ALL MODE AWD/4WD		NG	UNKWN	UNKWN	UNKWN	-	—	-	UNKWN		UNKWN	1	CAN COMM CIRCUIT (U1000)	_	
ABS	-	NG	UNKWN		UNKWN	-	-	-	-	-	I	1	CAN COMMCIRCUIT (U 100)	_	
IPDM E/R	No indication	—	UNKWN	UNKWN	_		—	UNKWN	-	-	-	-	CAN COMM CIRCUIT (U1000)	-	
														PKIC5872E	

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#### TROUBLE DIAGNOSIS FOR SYSTEM

#### TROUBLE DIAGNOSIS FOR SYSTEM

#### Inspection Between TCM and Data Link Connector Circuit

#### 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 (connector side and harness side).
- Harness connector F14
- Harness connector E5
- Harness connector E152
- Harness connector M31

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

# 2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect A/T assembly connector and harness connector F14.
- 2. Check continuity between A/T assembly harness connector and harness connector.

A/T assemb	ly connector	Harness	connector	Continuity
Connector	Terminal	Connector	Terminal	Continuity
EQ	3	E14	2	Yes
19	8	1 14	3	Yes

OK or NG

OK >> GO TO 3.

NG >> Repair harness.

## 3. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect harness connector E152.
- 2. Check continuity between harness connector and SMJ harness connector.

Harness	connector	SMJ harnes	ss connector	Continuity
Connector	Terminal	Connector	Terminal	Continuity
E5	2	E152	52G	Yes
LJ	3		51G	Yes

#### OK or NG

OK >> GO TO 4.

NG >> Repair harness.





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#### 4. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between SMJ harness connector and data link connector.

SMJ harnes	ss connector	Data link	connector	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M21	52G	Maa	6	Yes
	51G	10122	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 ABS Actuator and Electric Unit (Control Unit) Circuit

#### 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 (connector side and harness side).
- Harness connector M91
- Harness connector E26

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

#### 2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect harness connector M91.
- 2. Check continuity between data link connector and harness connector.

Data link	connector	Harness	connector	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M22	6	MQ1	11	Yes
IVIZZ	14		10	Yes

OK or NG

OK >> GO TO 3.

NG >> Repair harness.





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Revision: September 2005

## 3. CHECK HARNESS FOR OPEN CIRCUIT

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

Harness	connector	ABS actuator a (control uni	and electric unit t) connector	Continuity
Connector	Terminal	Connector	Terminal	
E26	11	E125	11	Yes
L20	10		15	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

- Turn ignition switch OFF. 1.
- 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).
- M/T model
- ECM connector
- Harness connector E152
- Harness connector M31
- A/T model
- ECM connector
- Harness connector E2
- Harness connector F32

#### 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	Terr	Resistance (Approx.)	
E16	94	86	108 – 132 Ω

#### OK or NG

OK >> Replace ECM. NG

>> • M/T model

- Repair harness between ECM and data link connector.
- A/T model
- Repair harness between ECM and A/T assembly.





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#### TROUBLE DIAGNOSIS FOR SYSTEM

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#### **Steering Angle Sensor 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 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.
- 2. Check resistance between steering angle sensor harness connector terminals.

Steering angle sensor connector	Terminal		Resistance (Approx.)
M47	4	5	54 – 66 Ω

#### OK or NG

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



#### Data Link Connector Circuit Inspection 1. CHECK CONNECTOR

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

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

#### 2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector terminals.

Da cor	ata link nnector	Terminal		Resistance (Approx.)
l	M22 6 14		54 – 66 Ω	
OK or N	<u>NG</u>			
OK	>> Diag NOS	nose again. Ref ES WORK FLOV	er to <u>LAN-5, "T</u> / <u>"</u> .	ROUBLE DIAG-
NG	>> Repa	air harness betwe	en data link conn	ector and BCM.



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#### TROUBLE DIAGNOSIS FOR SYSTEM

#### Revision: September 2005

#### 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	Terr	ninal	Resistance (Approx.)
M18	39	40	54 – 66 Ω

#### OK or NG

- OK >> Replace BCM. Refer to <u>BCS-26, "Removal and Installa-</u> tion".
- NG >> Repair harness between BCM and data link connector.

#### **Combination Meter 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 combination meter for damage, bend and loose connection (meter side and harness side).

**LAN-249** 

#### OK or NG

OK >> GO TO 2.

NG >> Repair terminal or connector.

#### 2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect combination meter connector.
- 2. Check resistance between combination meter harness connector terminals.

Combination meter connector	Terminal		Resistance (Approx.)
M24	12	11	54 – 66 Ω

#### OK or NG

- OK >> Replace combination meter.
- NG >> Repair harness between combination meter and data link connector.



# Combination meter connector

negative terminal.



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#### **Transfer 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 transfer 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 transfer control unit connector.
- 2. Check resistance between transfer control unit harness connector terminals.

Transfer control unit connector	Terminal		Resistance (Approx.)
M152	1	2	54 – 66 Ω

#### OK or NG

- OK >> Replace transfer control unit.
- NG >> Repair harness between transfer control unit and data link connector.



#### ABS Actuator and Electric Unit (Control Unit) Circuit Inspection

#### 1. CHECK CONNECTOR

UKS0052V

PKIC1656E

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check terminals and connector of ABS actuator and electric unit (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 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	Terminal		Resistance (Approx.)
E125	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 IPDM E/R.



[CAN]

#### TROUBLE DIAGNOSIS FOR SYSTEM

#### [CAN]



 Replace harness if shielded lines are used for the harness.

## 3. CHECK HARNESS FOR SHORT CIRCUIT

Check continuity between data link connector terminals and ground.			
Data link connector	Terminal	_	Continuity
M22	6	Ground	No
	14		No

. . . .

#### OK or NG

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OK >> GO TO 4.

NG >> • Repair harness.

 Replace harness if shielded lines are used for the harness.

#### 4. ECM AND IPDM E/R INTERNAL CIRCUIT INSPECTION

#### 1. Remove ECM and IPDM E/R from vehicle.

2. Check resistance between ECM terminals.

	Terminal		Resistance (Approx.)	
	94	86	108 – 132 Ω	
3.	. Check resistance between IPDM E/R terminals.			
	Terminal		Resistance (Approx.)	

Terr	ninal	Resistance (Approx.)
39	40	108 – 132 Ω

#### OK or NG

OK >> GO TO 5.

NG >> Replace ECM and/or IPDM E/R.

#### CHECK SYMPTOM

- 1. Fill in described symptoms on the column "Symptom" in the check sheet.
- 2. Connect all connectors, and then make sure that the symptom is reproduced.

#### Check results

Reproduced>>GO TO 6.

Not reproduced>>Refer to LAN-13, "Example of Filling in Check Sheet When Initial Conditions Are Not Reproduced".

#### **6. UNIT REPRODUCIBILITY INSPECTION**

Perform the following procedure for each unit on the CAN network, and then perform reproducibility test.

- 1. Turn ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Disconnect the unit connector.
- 4. Connect the battery cable to the negative terminal.
- Make sure that the symptom filled in the "Symptom" of the check sheet is reproduced. 5. NOTE:

Malfunction (related to a unit that the connector is disconnected) is reproduced. Do not confuse the malfunction with the symptom filled in the column of "Symptom" on the check sheet.

#### Inspection results

Reproduced>>Connect the disconnected connector. Check other units applying the above procedure. Not reproduced>>Replace the unit that the connector is disconnected.

#### **IPDM E/R Ignition Relay Circuit Inspection**

Check the following. If no malfunction is found, replace the IPDM E/R.

#### LAN-252

2006 Frontier







UKS0052Y
## TROUBLE DIAGNOSIS FOR SYSTEM

IPDM E/R power supply circuit. Refer to PG-31, "	PDM E/R Powe	r/Ground Circui	t Inspection".	[]
gnition power supply circuit. Refer to <u>PG-14, "I</u>	GNITION POW	ER SUPPLY —	IGNITION SW	<u>IN ON</u>