QUICK REFERENCE CHART Q70

FRONT WHEEL ALIGNMENT 2WD

ELS0003X

Item			Standard	
Wheel size			18 inch	20 inch
		Minimum	–0° 55′ (–0.91°)	-1° 00′ (-1.00°)
Camber		Nominal	–0° 10′ (–0.17°)	-0° 15′ (-0.25°)
Degree minut	te (Decimal degree)	Maximum	0° 35′ (0.58°)	0° 30′ (0.50°)
		Left and right difference	0° 33′ (0.5	5°) or less
		Minimum	3° 10′ (3.17°)
Caster		Nominal	4° 30′ (4.50°)	
Degree minute (Decimal degree)		Maximum	5° 50′ (5.83°)	
		Left and right difference	0° 39′ (0.65°) or less	
		Minimum	6° 25′ (6.42°)	6° 30′ (6.50°)
Kingpin inclin	ation te (Decimal degree)	Nominal	7° 10′ (7.17°)	7° 15′ (7.25°)
g	(Maximum	7° 55′ (7.91°)	8° 00′ (8.00°)
		Minimum	Out 1 mm (Out 0.03 in)	
Toe-in	Iotal toe-in Distance	Nominal	In 1 mm (In 0.04 in)	
		Maximum	In 3 mm (In 0.11 in)	
		Minimum	Out 0° 04' 48" (Out 0.08°)	
	Iotal toe-angle Degree minute (Decimal degree)	Nominal	In 0° 04′ 48′	" (In 0.08°)
		Maximum	ln 0° 14′ 24′	" (In 0.24°)

Measure value under unladen* conditions.

*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

AWD

	Item	Standard	
		Minimum	-0° 50′ (-0.83°)
Camber		Nominal	-0° 05′ (-0.08°)
Degree minu	ute (Decimal degree)	Maximum	0° 40′ (0.66°)
		Left and right difference	0° 33′ (0.55°) or less
		Minimum	2° 40′ (2.67°)
Caster		Nominal	4° 00′ (4.00°)
Degree minute (Decimal degree)		Maximum	5° 20′ (5.33°)
		Left and right difference	0° 39′ (0.65°) or less
		Minimum	6° 20′ (6.34°)
Kingpin inclii Dearee minu	nation ite (Decimal degree)	Nominal	7° 05′ (7.08°)
- 3		Maximum	7° 50′ (7.83°)
		Minimum	Out 1 mm (Out 0.03 in)
Toe-in	Total toe-in Distance	Nominal	In 1 mm (In 0.04 in)
		Maximum	In 3 mm (In 0.11 in)
		Minimum	Out 0° 04' 48" (Out 0.08°)
	Iotal toe-angle Degree minute (Decimal degree)	Nominal	In 0° 04′ 48″ (In 0.08°)
		Maximum	In 0° 14′ 24″ (In 0.24°)

Measure value under unladen* conditions.

*: Fuel, engine coolant and lubricant are full. Spare tire, jack, hand tools and mats are in designated positions.

< HOW TO USE THIS MANUAL >

Relation between Illustrations and Descriptions

INFOID:000000010101868

The following sample explains the relationship between the part description in an illustration, the part name in the text and the service procedures.



Components

INFOID:000000010101869

• THE LARGE ILLUSTRATIONS are exploded views (see the following) and contain tightening torques, lubrication points, section number of the **PARTS CATALOG** (e.g. SEC. 440) and other information necessary to perform repairs.

The illustrations should be used in reference to service matters only. When ordering parts, refer to the appropriate **PARTS CATALOG**.

Components shown in an illustration may be identified by a circled number. When this style of illustration is used, the text description of the components will follow the illustration.

FUEL INJECTOR AND FUEL TUBE

< REMOVAL AND INSTALLATION >

- Check that O-ring and its mating part are free of foreign material.
- When installing Ö-ring, be careful not to scratch it with tool or fingernails. Also be careful not to twist or stretch O-ring. If O-ring was stretched while it was being attached, never insert it quickly into fuel rail.
- Insert new O-ring straight into fuel rail. Never decenter or twist it.
- Always install the back up ring (1) in the right direction as instructed.



- 4. Install fuel injector (1) to fuel rail (2) as per the following:
 - 3 : O-ring (blue)
 - 4 : Back up ring
- a. Install fuel injector holder (5) to fuel injector. **CAUTION:**
 - Never reuse holder. Replace it with a new one.
 - Be careful to keep fuel injector holder from interfering with O-ring. If interference occurs, replace O-ring.
- b. Insert fuel injector into fuel rail with fuel injector holder attached.
 - Insert it while matching it to the axial center.
 - Insert so that protrusion (A) of fuel injector is aligned to cutout (B).
- c. Check that installation is complete by checking that fuel injector does not rotate or come off.
 - Check that protrusions of fuel injectors and fuel rail are aligned with cutouts of clips after installation.



- 5. Insert insulator into mounting hole of fuel injector of cylinder head.
 - Install fuel rail and fuel injector assembly to cylinder head.
 - Tighten mounting bolts and nuts in two steps in numerical order as shown in the figure.

 $\ \, \textbf{ : Engine front}$

6.

 1st step
 D: 10.0 N·m (1.0 kg-m, 7.4 ft-lb)

 2nd step
 D: 20.5 N·m (2.1 kg-m, 15 ft-lb)

- 7. Connect injector harness connector.
- 8. Install fuel feed tube (bank side) to fuel rail. CAUTION:
 - Never reuse fuel feed tube (bank side).
 - When installing fuel feed tube (bank side) to fuel rail, press the flange part to install the tube.
 - Handle O-ring with bare hands. Never wear gloves.



P0451 EVAP CONTROL SYSTEM PRESSURE SENSOR [VQ37VHR FOR USA AND CANADA]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Replace EVAP control system pressure sensor. Refer to <u>FL-14, "EXCEPT FOR MEXICO :</u> <u>Exploded View"</u>.

9. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:000000010096343

1.CHECK EVAP CONTROL SYSTEM PRESSURE SENSOR

- 1. Turn ignition switch OFF.
- 2. Remove EVAP control system pressure sensor with its harness connector. Always replace O-ring with a new one.
- 3. Install a vacuum pump to EVAP control system pressure sensor.
- 4. Turn ignition switch ON and check output voltage between ECM harness connector terminals under the following conditions.

ECM			Condition		
Connector	+ -		[Applied vacuum kPa (kg/cm ² , psi)]	Voltage (V)	
Connector	Terminal	Terminal	[, , , , , , , , , , , , , , , , , , ,		
M107	102	11.0	Not applied	1.8 - 4.8	
101107	102	112	-26.7 (-0.272, -3.87)	2.1 to 2.5 lower than above value	

CAUTION:

- Always calibrate the vacuum pump gauge when using it.
- Never apply below -93.3 kPa (-0.952 kg/cm², -13.53 psi) or pressure over 101.3 kPa (1.033 kg/cm², 14.69 psi).

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace EVAP control system pressure sensor. Refer to <u>FL-14, "EXCEPT FOR MEXICO :</u> <u>Exploded View"</u>.

[VK56VD FOR USA AND CANADA]

< SYSTEM DESCRIPTION >





The evaporative emission system is used to reduce hydrocarbons emitted into the atmosphere from the fuel system. This reduction of hydrocarbons is accomplished by activated charcoals in the EVAP canister. The fuel vapor in the sealed fuel tank is led into the EVAP canister which contains activated carbon and the vapor is stored there when the engine is not operating or when refueling to the fuel tank.

The vapor in the EVAP canister is purged by the air through the purge line to the intake manifold when the engine is operating. EVAP canister purge volume control solenoid valve is controlled by ECM. When the engine operates, the flow rate of vapor controlled by EVAP canister purge volume control solenoid valve is proportionally regulated as the air flow increases.

EVAP canister purge volume control solenoid valve also shuts off the vapor purge line during decelerating and idling.

AIR CONDITIONING CUT CONTROL

AIR CONDITIONING CUT CONTROL : System Diagram

Crankshaft position sensor Engine speed* Camshaft position sensor Κ Engine coolant temperature Engine coolant temperature sensor Accelerator pedal position Accelerator pedal position sensor Air conditioner Battery voltage cut control Batterv IPDM E/R ECM Refrigerant pressure Refrigerant pressure sensor M Power steering operation Power steering pressure sensor A/C relay Compressor Vehicle speed Combination meter Ν Air conditioner ON signal A/C auto amp. *: ECM determines the start signal status by the signals of engine speed and battery voltage. JSBIA0528GE

AIR CONDITIONING CUT CONTROL : System Description

INFOID:000000010097001

INFOID:000000010097000

INPUT/OUTPUT SIGNAL CHART

< DTC/CIRCUIT DIAGNOSIS >

	VVEL control module			VVEL actuator motor		Continuity
DIC NO.	Bank	Connector	Terminal	Connector	Terminal	Continuity
		E15	12		1	Existed
P100A	1		12	F73	2	Not existed
	I		25 2	175	1	Not existed
					2	Existed
				2 1 F71 2 1 1	1	Existed
P100B	2				E71 2	2
	2		45		1	Not existed
			15		2	Existed

4. Also check harness for short to ground and power.

Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 2.

2. DETECT MALFUNCTIONING PART

Check the following.

• Harness for open or short between VVEL actuator motor and VVEL control module

Loose or poor connection for each connector and harness

>> Repair open circuit, short to ground or short to power in harness or connectors.

3.CHECK VVEL ACTUATOR MOTOR

Refer to EC-1409, "Component Inspection (VVEL ACTUATOR MOTOR)".

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.REPLACE VVEL ACTUATOR SUB ASSEMBLY

Replace VVEL actuator sub assembly. Refer to EM-253, "Exploded View".

>> INSPECTION END

5.CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace.

6.REPLACE VVEL CONTROL MODULE

Replace VVEL control module. Refer to EC-1567, "Removal and Installation".

>> GO TO 7.

7.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Erase 1st trip DTC.
- 3. Perform DTC Confirmation Procedure. See <u>EC-1407</u>, "<u>DTC Logic</u>".

Is the DTC P100A or P100B displayed again?

YES >> GO TO 8.

NO >> INSPECTION END

P0137, P0157 HO2S2

< DTC/CIRCUIT DIAGNOSIS >



	+	_	Condition	Voltage	
Connector	Terminal	Terminal			
E111	96 [HO2S2 (bank 1)]	100	Revving up to 4,000 rpm under no load at	The voltage should be above 0.74 V at least once during this procedure.	,
F111	87 [HO2S2 (bank 2)]	100	least 10 times	The voltage should be below 0.18 V at least once during this procedure.	ŀ

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 4.

4.CHECK HEATED OXYGEN SENSOR 2-II

Check the voltage between ECM harness connector terminals under the following conditions.

	ECM				
Connector	+	-	Condition	Voltage	Ν
Connector	Terminal	Terminal]		
F111 -	96 [HO2S2 (bank 1)]	100	The voltage should be above 0.7 least once during this procedure		C
	87 [HO2S2 (bank 2)]	100	Keeping engine at lote for To minutes	The voltage should be below 0.18 V at least once during this procedure.	F

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 5.

5.CHECK HEATED OXYGEN SENSOR 2-III

Check the voltage between ECM harness connector terminals under the following conditions.

L

Μ

SYSTEM

< SYSTEM DESCRIPTION >

- Determine required line pressure, shifting point, lock-up operation, etc.
- Transmit required output signals to the respective solenoids.

A/T CONTROL SYSTEM : Fail-Safe

INFOID:0000000010098789

[7AT: RE7R01A]

TCM has the electrical fail-safe mode. The mode is divided into a maximum of 3 phases (1st fail-safe, 2nd failsafe and final fail-safe) and functions so that the operation can be continued even if the signal circuit of the main electronically controlled input/output parts is damaged.

Even if the electronic circuit is normal, the fail-safe mode may start under special conditions (such as when the brake pedal is depressed suddenly from a hard wheel spin status to stop the rotation of wheels). In this case, turn the ignition switch OFF and back to ON after 5 seconds to resume the normal shift pattern.

Consequently, the customer's vehicle may already return to the normal condition. Refer to TM-93, "Work Flow".

1st fail-safe	The mode that the vehicle can stop safely, to prompt the driver to stop if the malfunction occurs and to shift to 2nd fail-safe early. It shifts to 2nd fail-safe or final fail-safe after the vehicle stopped.
2nd fail-safe	The mode that the vehicle shifts to final fail-safe without changing the behavior, by identifying the malfunction- ing parts in the condition that the driving force required for the driving is secured.
Final fail-safe	 Selects the shifting pattern that the malfunctioning parts identified at 1st fail-safe and 2nd fail-safe are not used, and then secure the driving force that is required for the driving. The mode that the shifting performance does not decrease by normal shift control.

FAIL-SAFE FUNCTION

DTC	Vehicle condition	Vehicle behavior for 1st fail- safe	Vehicle behavior for 2nd fail- safe	Vehicle behavior for final fail- safe
P0615	—	Starter is disabled	—	Starter is disabled
P0705		 Fixed in the "D" position (The shifting can be per- formed) Lock-up is prohibited when 30 km/h (19 MPH) or less The shifting between the gears of 3 - 4 - 5 - 6 - 7 can be performed Manual mode is prohibited Shift position indicator is switched OFF Starter relay is switched OFF (starter is disabled) Back-up lamp is OFF Large shift shock 		 Fixed in the "D" position (The shifting can be per- formed) Lock-up is prohibited when 30 km/h (19 MPH) or less The shifting between the gears of 3 - 4 - 5 - 6 - 7 can be performed Manual mode is prohibited Shift position indicator is switched OFF Starter relay is switched OFF (starter is disabled) Back-up lamp is OFF Large shift shock
P0710	Between the gears of 1 - 2 - 3 Between the gears of 4 - 5 - 6	 The shifting between the gears of 1 - 2 - 3 can be performed Manual mode is prohibited Fix the gear while driving 	_	 The shifting between the gears of 1 - 2 - 3 can be performed Manual mode is prohibited
	-7	Manual mode is prohibited	—	
P0717	Between the gears of 1 - 2 - 3	 The shifting between the gears of 1 - 2 - 3 can be performed Manual mode is prohibited 	_	 The shifting between the gears of 1 - 2 - 3 can be performed
	Between the gears of 4 - 5 - 6 - 7	Fix the gear while drivingManual mode is prohibited	_	Manual mode is prohibited

< REMOVAL AND INSTALLATION >

REAR DRIVE SHAFT

Exploded View

INFOID:000000010100262



- <⊐: Wheel side
- 1: NISSAN genuine grease or an equivalent.
- 2: Apply paste [service parts (440037S000)].

Refer to <u>GI-4, "Components"</u> for symbols not described on the above.



< PREPARATION >

PREPARATION PREPARATION

Special Service Tools

INFOID:000000010098629

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.



Commercial Service Tools

INFOID:000000010098630

	Tool name	Description
Engine ear	SIIA0995E	Locates the noise
Suction lifter	PIIB1805J	Holds the windshield glass, side window glass and back door window glass
Remover tools	JAG JAJ JMKIA3050ZZ	Removes the clips, pawls and metal clips

B2756, B2757, B2758 MODE DOOR MOTOR (DRIVER SIDE)

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect A/C auto amp. harness connector.
- 3. Check continuity between mode door motor LH harness connector and A/C auto amp. harness connector.

Mode door mo	otor LH	A/C auto amp.		Continuity
Connector Terminal		Connector	Terminal	Continuity
M316 (with Forest Air)	4			
M317 (without Forest Air)	5	M304	71	Existed

Is the inspection result normal?

YES >> GO TO 15.

NO >> Repair harness or connector.

13. CHECK MODE DOOR MOTOR (DRIVER SIDE) PBR GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect A/C auto amp. harness connector.
- 3. Check continuity between mode door motor LH harness connector and A/C auto amp. harness connector.

Mode door mo	otor LH	A/C auto amp.		Continuity	
Connector	Terminal	Connector	Terminal	al	
M316 (with Forest Air)	5				
M317 (without Forest Air)	7	M304	79	Existed	

Is the inspection result normal?

YES >> GO TO 14.

NO >> Repair harness or connector.

14.CHECK MODE DOOR MOTOR (DRIVER SIDE) PBR

Check mode door motor (driver side) PBR. Refer to HAC-113. "Component Inspection (PBR)".

Is the inspection result normal?

YES >> GO TO 15.

NO >> Replace mode door motor (driver side). Refer to <u>HAC-183, "MODE DOOR MOTOR : Removal</u> and Installation".

15. CHECK INTERMITTENT INCIDENT

Refer to GI-47, "Intermittent Incident".

Is the inspection result normal?

- YES >> Replace A/C auto amp. Refer to <u>HAC-175</u>, "Removal and Installation".
- NO >> Repair or replace malfunctioning parts.

Component Inspection (Motor)

INFOID:0000000010099470

1.CHECK MODE DOOR MOTOR (DRIVER SIDE)

- 1. Turn ignition switch OFF.
- 2. Disconnect the mode door motor LH harness connector.
- 3. Supply mode door motor (driver side) terminals with battery voltage and check by visually and operation sound that mode door motor (driver side) operates.

Terr	Operation direc-	
+	_	tion
1	2	VENT
2	1	DEF

Is the inspection result normal?

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Componen	t Function	Check				INFOID:000000010099613
1.снеск ги	JNCTION					
1. Select "LI 2. Check lift	FT FR SW-UP ing switch (fror	", "LIFT FR SW- nt) signal under t	DN" in "Da he followir	ata monitor ng condition	" mode with COI	NSULT.
Mor	nitor item		Con	dition		Status
		Lifting owitch front	(110)	Operate		ON
LIFT FR SW-UP		Lining Switch from	(up)	Release		OFF
		Lifting owitch front	(down)	Operate		ON
LIFT FR SW	-DN	Lining switch from	(down)	Release		OFF
NO >> P Diagnosis 1.CHECK LII	erform diagnos Procedure FTING SWITC ion switch OFF	H (FRONT) SIG	efer to <u>AD</u> NAL	<u>P-79. "Diac</u>	gnosis Procedur	e".
Turn ignit	ion switch ON. Itage between	power seat swit	ch harness	s connecto	r and ground.	
	Power s	eat switch		- (-)	Voltage (V) (Approx.)	
Со	nnector	Termina	ls			(//pp/ox./
	B518 17		Ground		12	
<u>s the inspecti</u> YES >> G NO >> G	On result norm O TO 3. O TO 2.					
. Turn ignit . Disconne . Check co nector.	ion switch OFF ct driver seat c ntinuity betwee	control unit conne control unit conne en driver seat co	ector. ntrol unit h	narness co	nnector and pow	ver seat switch harness con-
	Driver seat control unit Power seat switch Continuity				Continuity	
Conne	ector	Terminal	Con	nector	Terminal	
B51	14	17 18	B	518	17 18	Existed
. Check co	ntinuity betwee	en driver seat co	ntrol unit h	arness cor	nnector and grou	und.
	Driver sea	t control unit				Continuity
Со	nnector	Termina	al	1	Cround	Continuity
		17		Ground		

Is the inspection result normal?

B514

YES >> Replace driver seat control unit. Refer to <u>ADP-145, "Removal and Installation"</u>.

18

Not existed

DIAGNOSIS SYSTEM (BCM)

< SYSTEM DESCRIPTION >

CONSULT screen item	Indication/Unit	Description					
Vehicle Speed	km/h	Vehicle speed of the moment a particular DTC is detected					
Odo/Trip Meter	km	Total mileage (Odometer value) of the moment a particular DTC is detected					
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*)	В			
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)	С			
	LOCK>ACC		While turning power supply position from "LOCK" *to "ACC"				
	ACC>ON	-	While turning power supply position from "ACC" to "IGN"				
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopping and selector lever is except P position.)	D			
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)	E			
	RUN>URGENT		While turning power supply position from "RUN" to "ACC" (Emer- gency stop operation)	(Emer- F * G (ING" y posi-			
	ACC>OFF	-	While turning power supply position from "ACC" to "OFF"				
	OFF>LOCK		While turning power supply position from "OFF" to "LOCK"*				
Vehicle Condition	OFF>ACC	Power position status of the moment a particular	While turning power supply position from "OFF" to "ACC"				
	ON>CRANK	DTC is detected*	While turning power supply position from "IGN" to "CRANKING"				
	OFF>SLEEP	-	While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode				
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply posi- tion is "LOCK"*.) to low power consumption mode				
	LOCK		Power supply position is "LOCK" (Ignition switch OFF with steer- ing is locked.)*				
	OFF		Power supply position is "OFF" (Ignition switch OFF with steering is unlocked.)	ring J ne PW			
	ACC		Power supply position is "ACC" (Ignition switch ACC)				
	ON	-	Power supply position is "IGN" (Ignition switch ON with engine stopped)				
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)				
	CRANKING	-	Power supply position is "CRANKING" (At engine cranking)	L			
IGN Counter	0 - 39	 The number of times that ignition switch is turned ON after DTC is detected The number is 0 when a malfunction is detected now. The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition switch OFF → ON. The number is fixed to 39 until the self-diagnosis results are erased if it is over 39. 					

NOTE:

*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met.

- · Closing door
- Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at P "LOCK".

RETAIND PWR

RETAIND PWR : CONSULT Function (BCM - RETAINED PWR)

Data monitor

INFOID:000000010169571

Ν

Ο

TCU BRANCH LINE CIRCUIT

Diagnosis Procedure

1.CHECK CONNECTOR

- 1. Turn the ignition switch OFF.
- 2. Disconnect the battery cable from the negative terminal.
- 3. Check the following terminals and connectors for damage, bend and loose connection (unit side and connector side).
- TCU
- Harness connector M26 and PCB harness side connector

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair the terminal and connector.

2. CHECK HARNESS FOR OPEN CIRCUIT

- 1. Disconnect the connector of TCU.
- 2. Check the resistance between the TCU harness connector terminals.

Connector No. Terminal No. Terminal No. M216 9 10 Approx. 54 – 66		Posistanco (O)		
M216 9 10 Approx. 54 – 66	Connector No.	Terminal No.		
	M216	9	10	Approx. 54 – 66

Is the measurement value within the specification?

YES >> GO TO 3.

NO >> GO TO 4.

3.CHECK POWER SUPPLY AND GROUND CIRCUIT

Check the power supply and the ground circuit of the TCU. Refer to <u>AV-395, "TCU : Diagnosis Procedure"</u>. Is the inspection result normal?

YES (Present error)>>Replace the TCU. Refer to AV-404, "Removal and Installation".

YES (Past error)>> Error was detected in the TCU branch line.

NO >> Repair the power supply and the ground circuit.

4.CHECK HARNESS CONTINUITY (OPEN CIRCUIT)

1. Disconnect the harness connector M26.

2. Check the continuity between the TCU harness connector and the harness connector.

TCU harness connector		Harness connector		Continuity
Connector No.	Terminal No.	Connector No.	Terminal No.	Continuity
M216	9	M26	242	Existed
IVIZ TO	10		262	Existed

Is the inspection result normal?

YES >> Replace the PCB harness.

NO >> Repair the harness between the TCU harness connector M216 and the harness connector M26.

INFOID:000000010101319

DTC/CIRCUIT DIAG	GNOSIS >		[CA	N SYSTEM (TYPE 51)]
IAIN LINE BET	WEEN DLC A	ND ADP CIRC	UIT	
iagnosis Proced	ure			INFOID:00000001028615
.CHECK CONNECT	OR			
 Turn the ignition s Disconnect the ba Check the followir and harness side) Harness connecto Harness connecto Harness connecto 	witch OFF. ttery cable from the ne ng terminals and conr r M20 and PCB harne r M7 r B1	egative terminal. nectors for damage, ess side connector	bend and loose co	nnection (connector side
YES >> GO TO 2. NO >> Repair the	e terminal and connect	or.		
CHECK HARNESS	CONTINUITY (OPEN	I CIRCUIT)		
Disconnect the ha	rness connector M20. ity between the data li	nk connector and th	e PCB harness conr	nector.
Data link	connector	PCB harn	ess connector	Continuity
	13	leni	24	Existed
M182	12	27		Existed
Disconnect the ha	rness connectors M7 ity between the harne	and B1. ss connectors.		
Harness	connector	Harnes	s connector	Continuity
Connector No.	Ierminal No.	Connector No.	Ierminal No.	Evistod
M20	27	M7	35	Existed
s the inspection result YES >> GO TO 4. NO >> Repair the 1. CHECK HARNESS Check the continuity b	normal? main line between th CONTINUITY (OPEN etween the harness co	e harness connecto I CIRCUIT) onnector terminals.	rs M20 and M7.	
Connector No.		Terminal No.		Continuity
D1	34	34		Existed
DI	35		33	Existed
s the inspection result YES (Present error)> YES (Past error)>>Er control un	<u>normal?</u> >Check CAN system for the system of the sys	type decision again. ne main line betwee	n the data link conn	ector and the driver sea

MAIN LINE BETWEEN DLC AND ADP CIRCUIT