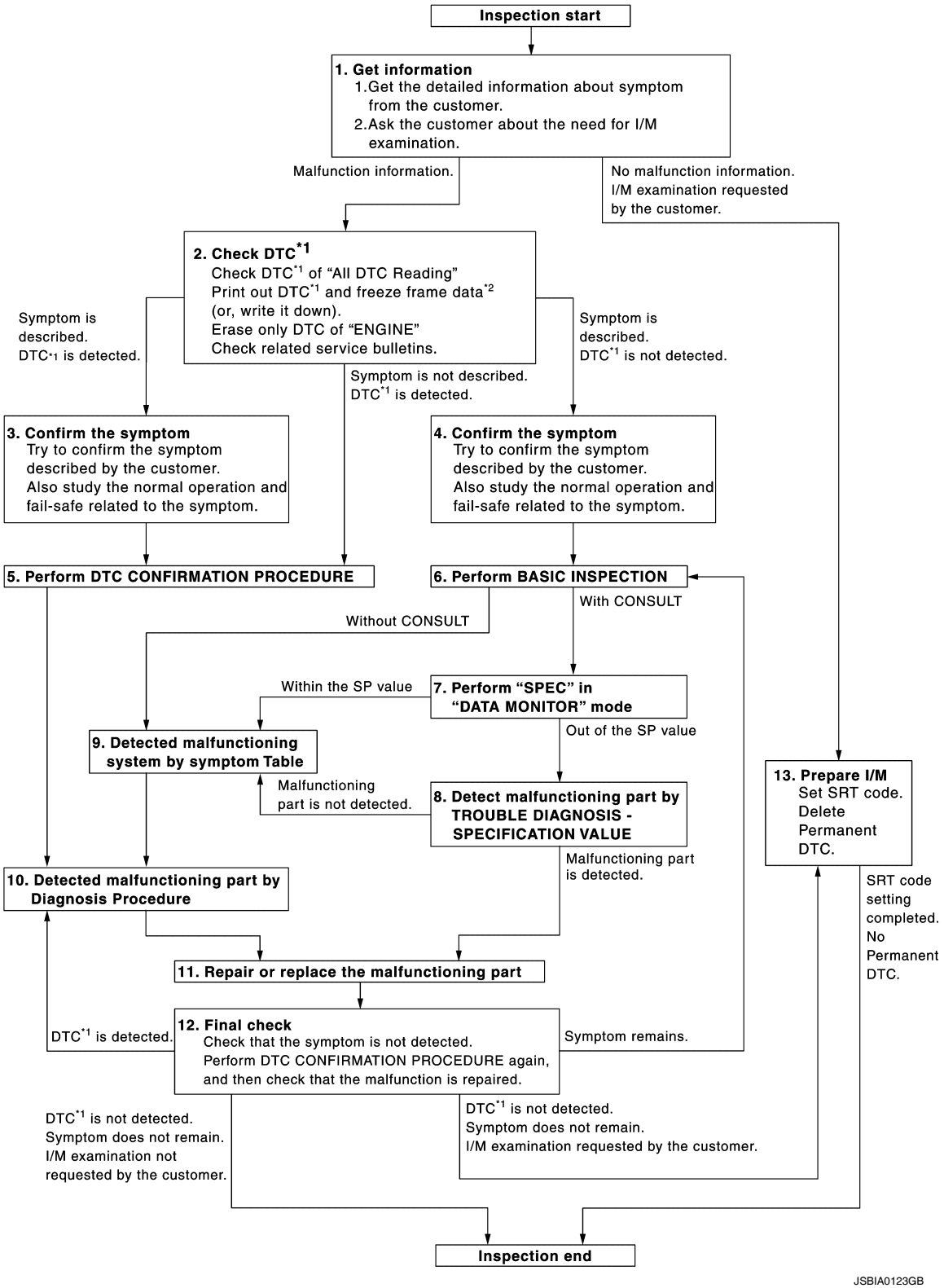
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000007221711

OVERALL SEQUENCE

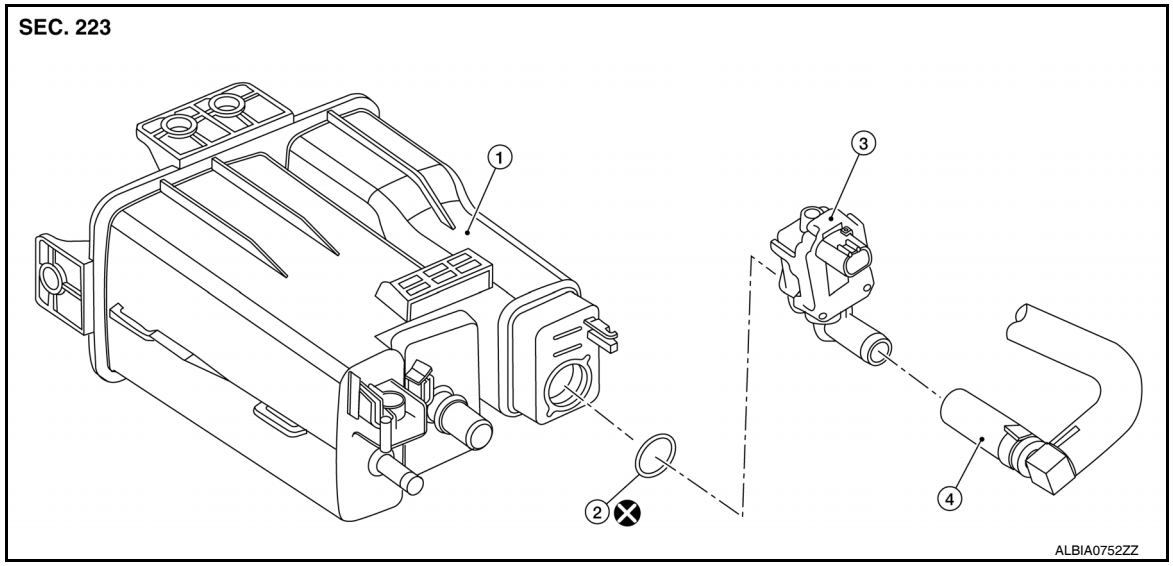


*1: Include 1st trip DTC.
*2: Include 1st trip freeze frame data.

EVAP CANISTER VENT CONTROL VALVE

Exploded View

INFOID:0000000007759128



1. EVAP canister
2. O-ring
3. EVAP canister vent control valve
4. EVAP canister vent control valve hose

Removal and Installation

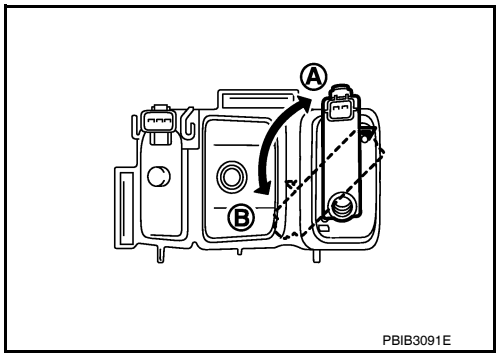
INFOID:0000000007759129

NOTE:
The EVAP canister vent control valve can be removed without removing the EVAP canister.

REMOVAL

1. Remove the EVAP canister protector cover.
2. Disconnect EVAP canister vent control valve hose from EVAP canister.
3. Disconnect EVAP canister vent control valve harness connector.
4. Turn EVAP canister vent control valve counterclockwise.

   A : Lock
   B : Unlock



5. Remove the EVAP canister vent control valve and O-ring.
   CAUTION:
   Discard the O-ring. Do not reuse O-ring.

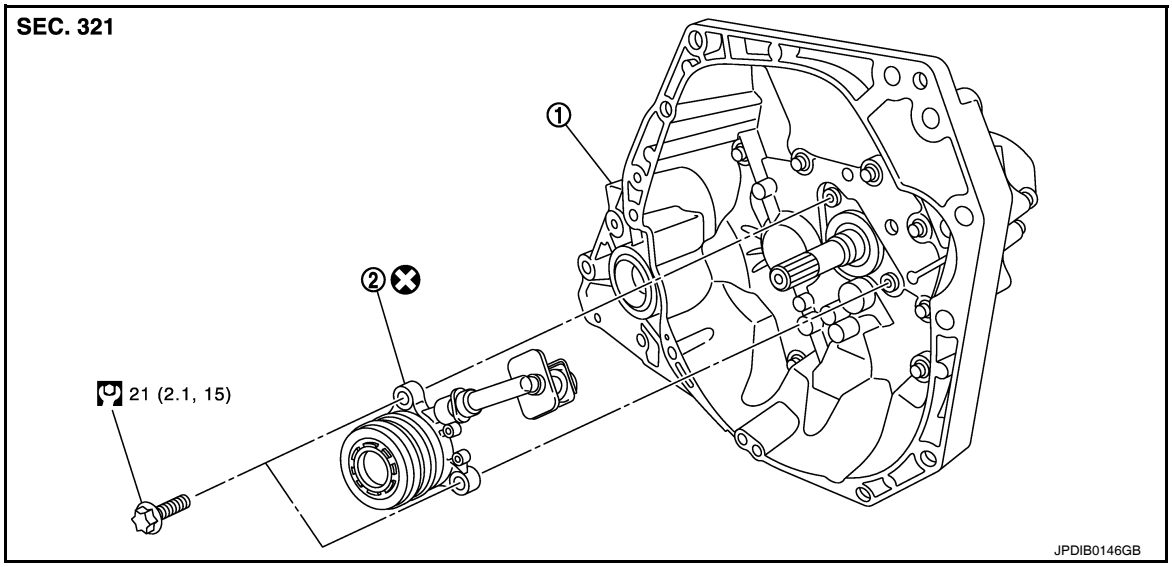
INSTALLATION
Installation is in the reverse order of removal.
CAUTION:
Do not reuse O-ring.

UNIT REMOVAL AND INSTALLATION

CSC (CONCENTRIC SLAVE CYLINDER)

Exploded View

INFOID:0000000007208121



1. Transaxle assembly
2. CSC (concentric slave cylinder)

Removal and Installation

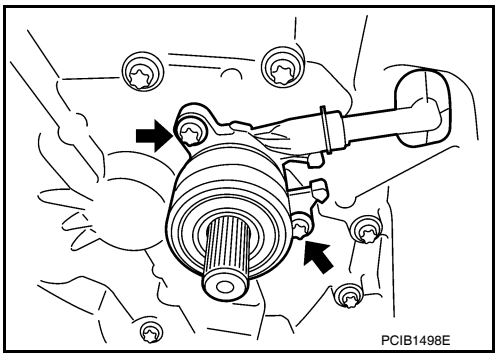
INFOID:0000000007208122

CAUTION:

- **Never reuse CSC (concentric slave cylinder). CSC slides back to the original position every time when removing transaxle assembly. At this time, dust on the sliding parts may damage the seal of CSC and may cause clutch fluid leakage.**
- **Never disassemble CSC.**
- **Do not spill clutch fluid onto painted surfaces. If fluid spills, wipe up immediately and wash the affected area with water.**

REMOVAL

1. Remove transaxle assembly. Refer to TM-23, "Removal and Installation".
2. Remove CSC bolts and the CSC from clutch housing.



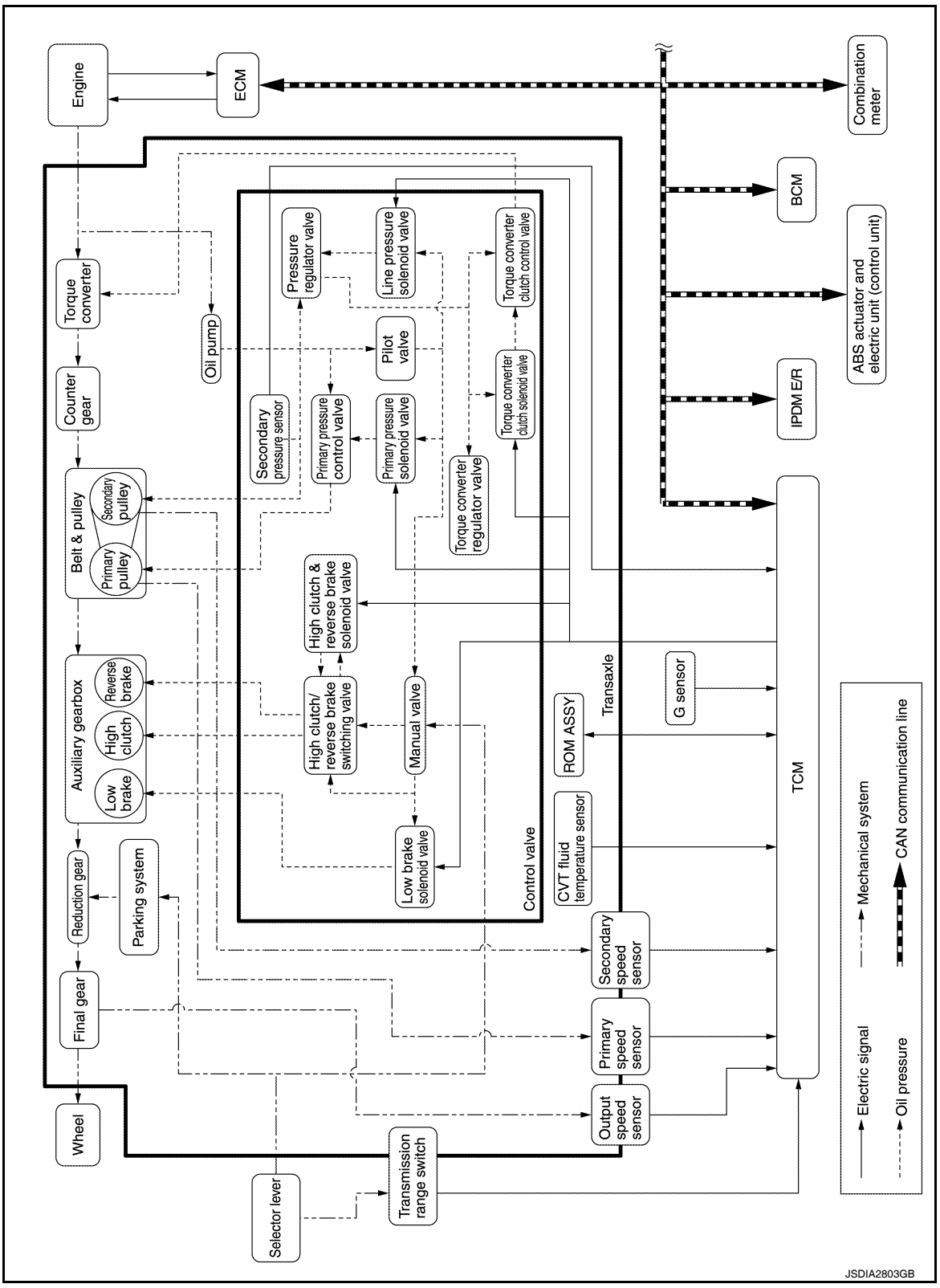
INSTALLATION

1. Install CSC to clutch housing and then tighten CSC bolts to the specified torque.
   CAUTION:
   - **Do not reuse CSC.**
   - **Do not insert and operate CSC when transaxle is removed. Piston and stopper of CSC components may fall off.**
2. Install transaxle assembly. Refer to TM-23, "Removal and Installation".

SYSTEM
CVT CONTROL SYSTEM
CVT CONTROL SYSTEM : System Description

INFOID:0000000007208212

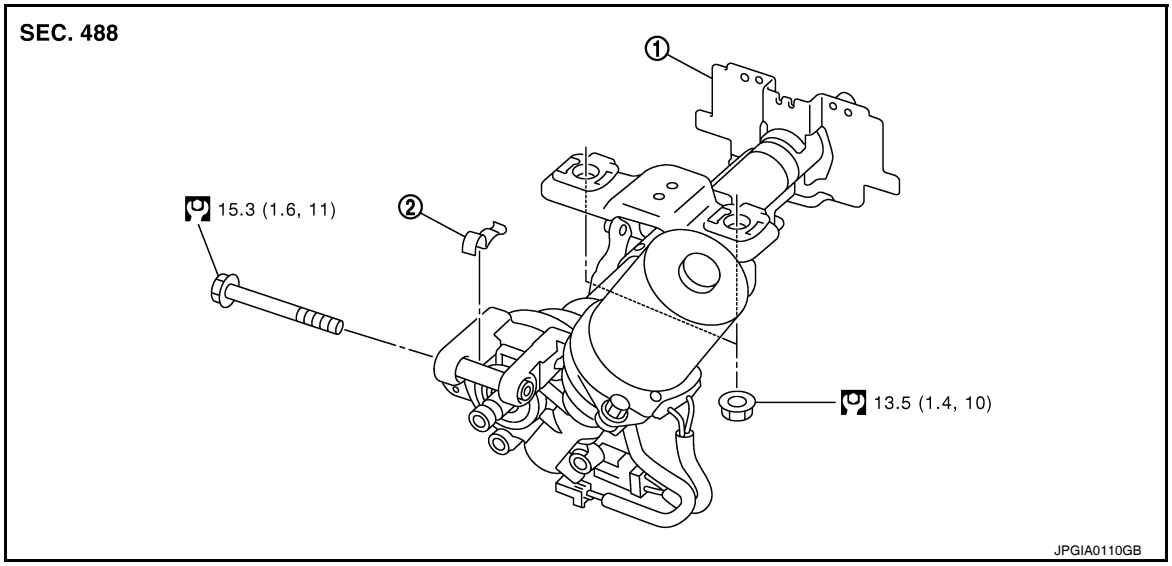
SYSTEM DIAGRAM



STEERING COLUMN

Exploded View

INFOID:0000000007207836



1. Steering column assembly
2. Clamp

Removal and Installation

INFOID:0000000007207837

REMOVAL

CAUTION:

- **Keep steering column assembly away from magnetic sources.**
- **Do not disassemble steering column assembly.**
- **While removing the steering column assembly, do not move the steering gear.**
- **When removing the steering column assembly, be careful not to allow the intermediate shaft to turn.**

1. Set vehicle to the straight-ahead position.
2. Place the steering column tilt to the lowest selection.
3. Remove instrument lower panel LH. Refer to IP-20, "Removal and Installation".
4. Remove driver air bag module. Refer to SR-4, "Removal and Installation".
5. Remove steering wheel. Refer to ST-7, "Exploded View".
6. Remove steering column cover. Refer to IP-15, "Removal and Installation".
7. Remove spiral cable. Refer to SR-7, "Removal and Installation".
8. Remove combination switch. Refer to EXL-85, "Exploded View"
9. Remove the cluster lid A. Refer to IP-19, "Removal and Installation"
10. Disconnect the switch harness connectors.
11. Remove the key cylinder only if the steering column is being replaced. Refer to TM-232, "Removal and Installation".
12. Place the steering column tilt to the middle selection.
    CAUTION:
    Do not change the position of the tilt mechanism until the steerign column is reinstalled.
13. Loosen the steering shaft lower joint bolt.
14. Remove the intermediate shaft upper bolt and separate intermediate shaft from steering column assembly. Refer to ST-11, "Removal and Installation".
    CAUTION:
    - **Place a matching mark on both intermediate shaft and steering column assembly before removing intermediate shaft.**

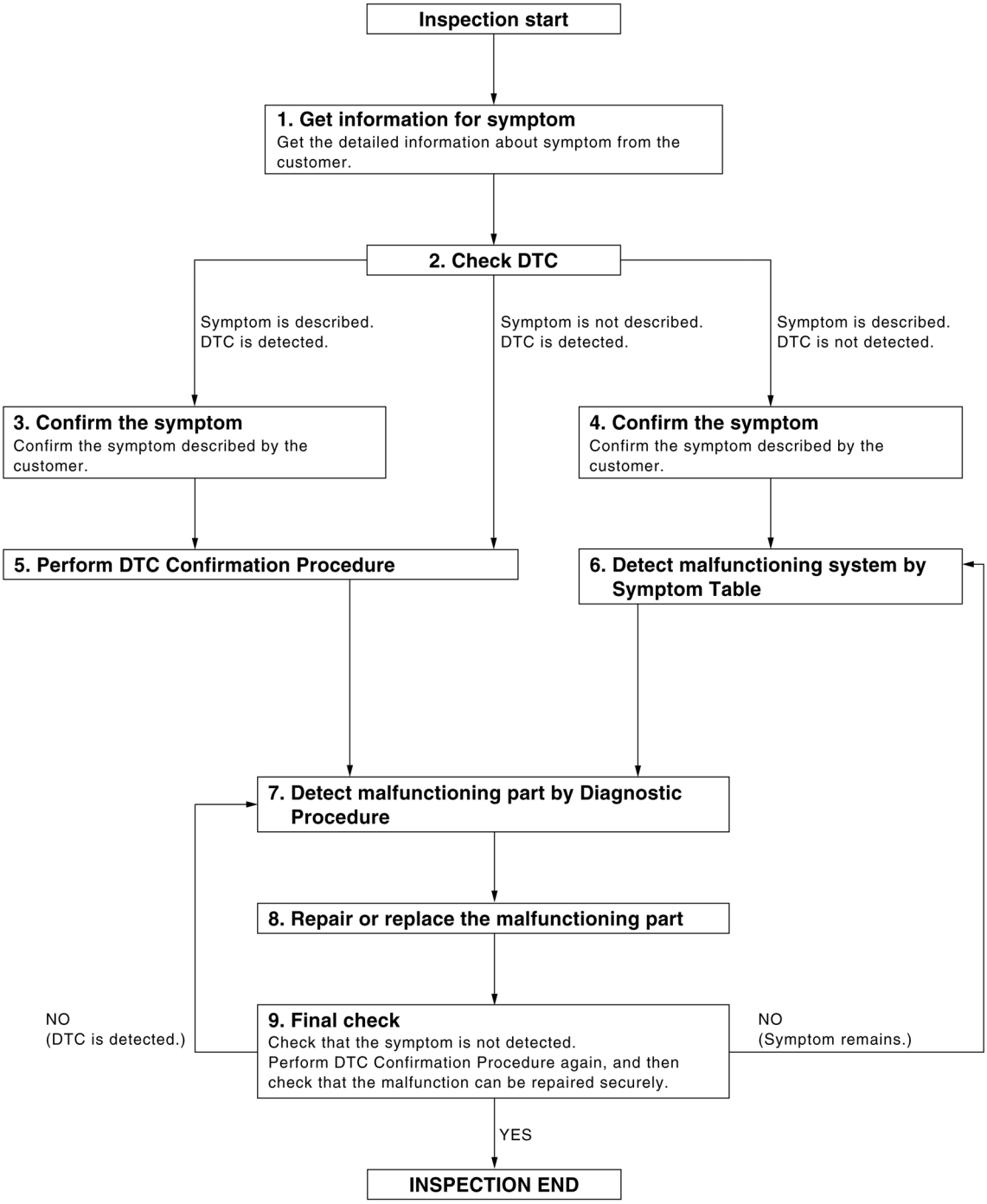
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000007688920

OVERALL SEQUENCE



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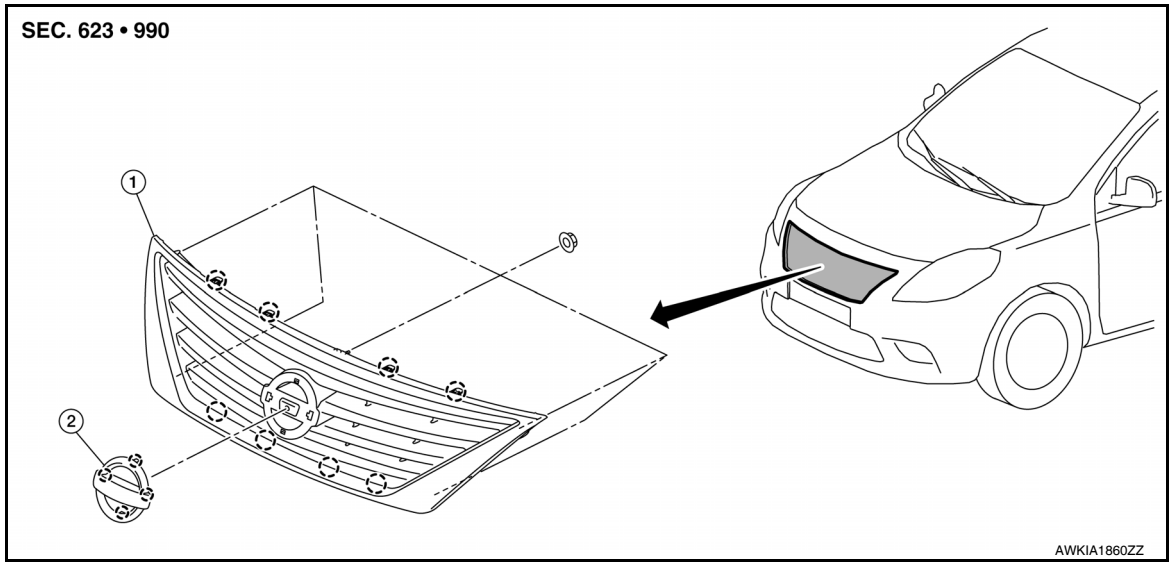
FRONT GRILLE

Exploded View

INFOID:0000000007207407



1. Front grille
2. Front emblem
◌ : Pawl

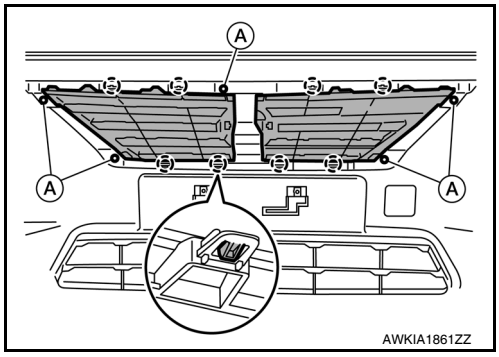
Removal and Installation

INFOID:0000000007207408

REMOVAL

1. Remove front bumper fascia assembly. Refer to EXT-16, "Removal and Installation".
2. Remove front grille nuts (A).
3. Pull front grille out away from vehicle, to disengage pawls and then remove front grille.

◌ : Pawl



4. Remove front emblem from front grille.

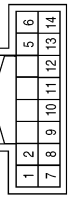
INSTALLATION

Installation is in the reverse order of removal.

Terminal No.	Color of Wire	Signal Name
9	GR	INPUT 2
10	V	INPUT 4
11	LG	INPUT 1
12	R	OUTPUT 1
13	P	INPUT 5
14	G	OUTPUT 2

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
2	Y	OUTPUT 4
5	L	OUTPUT 3
7	W	INPUT 3
8	BR	OUTPUT 5

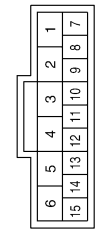
Connector No.	M24
Connector Name	COMBINATION METER (WITH TYPE B)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	R	BAT
3	GR	IGN
8	L	CAN-H
10	P	CAN-L
19	B	ILL CONT OUTPUT
21	B	GND (POWER)
22	B	GND (CIRCUIT)
23	B/W	GND (ILL)

Connector No.	M33
Connector Name	FRONT AIR CONTROL
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
11	W	ILL+
12	B	ILL-

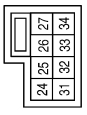
Connector No.	M31
Connector Name	COMBINATION SWITCH
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
23	GR	ILL+

Connector No.	M30
Connector Name	COMBINATION SWITCH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
26	B	ILL-

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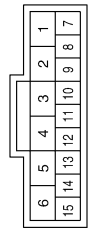
Connector No.	M33
Connector Name	FRONT AIR CONTROL
Connector Color	BLACK

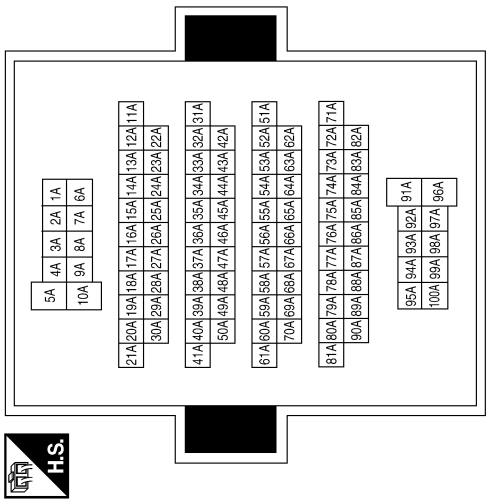
H.S.



Terminal No.	Color of Wire	Signal Name
7	R	R/DEF LED
8	B	GND
10	G	R/DEF SWITCH

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE

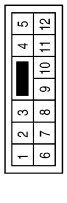
H.S.



Terminal No.	Color of Wire	Signal Name
91A	G	–

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
5	V	–
12	B	–

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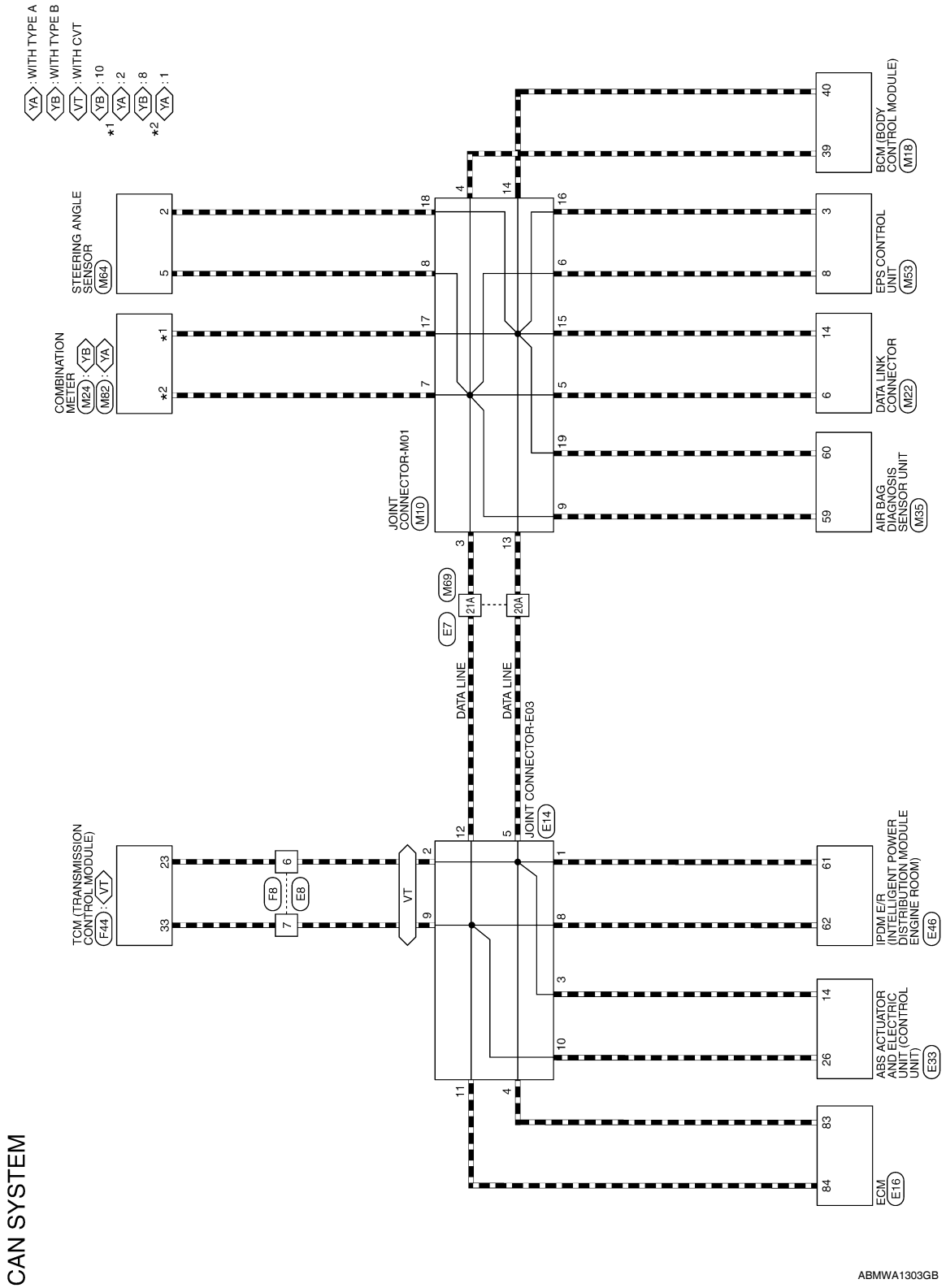
WIRING DIAGRAM

CAN SYSTEM

Wiring Diagram

INFOID:0000000007206362



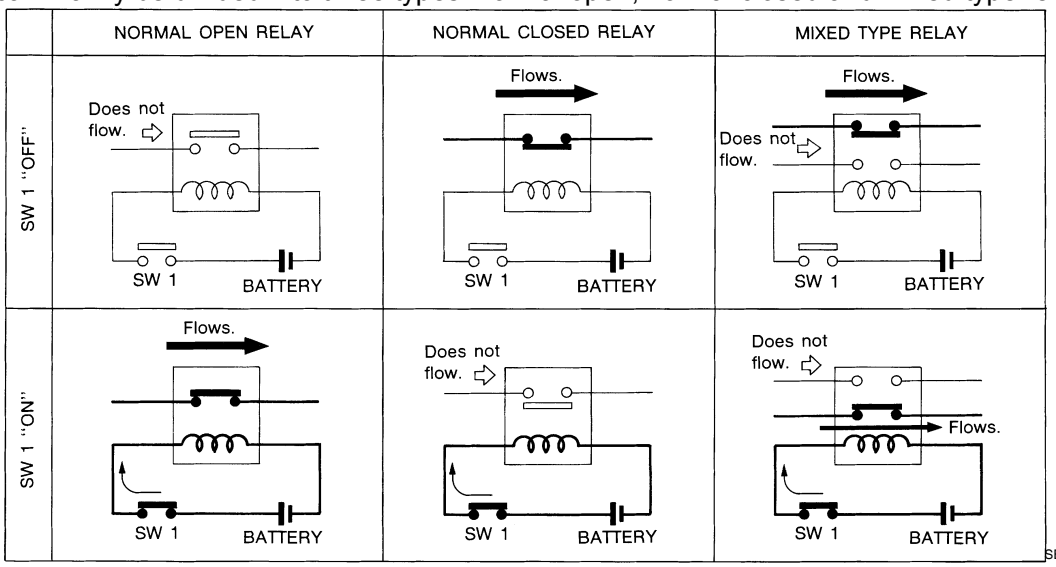
STANDARDIZED RELAY

Description

INFOID:0000000007790698

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

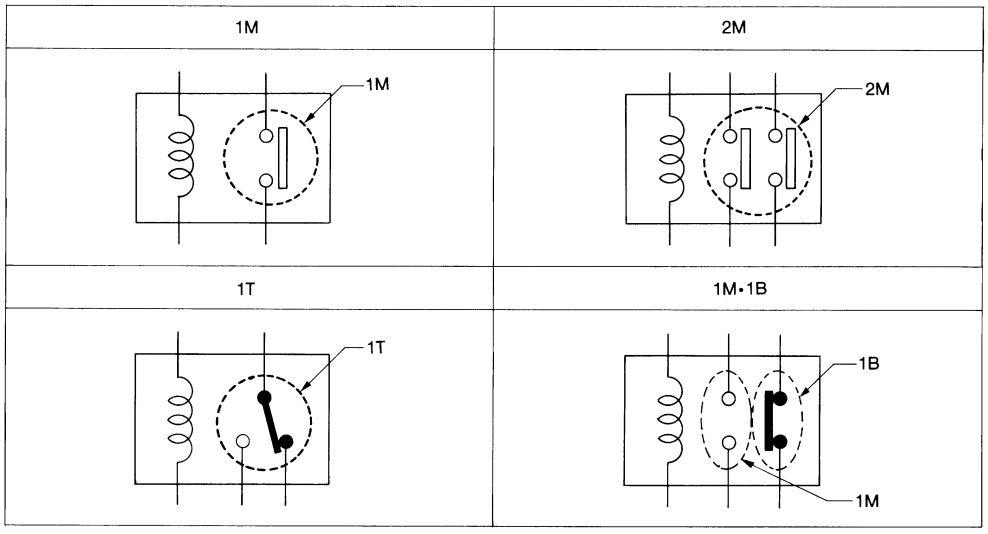
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

TYPE OF STANDARDIZED RELAYS

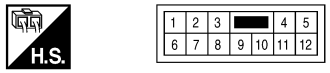
1M	1 Make	2M	2 Make
1T	1 Transfer	1M·1B	1 Make 1 Break



SEL882H

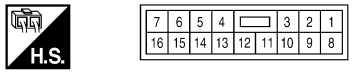
BASE AUDIO SYSTEM CONNECTORS

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Color	WHITE



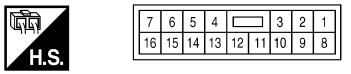
Terminal No.	Color of Wire	Signal Name
4	GR	–
5	P	–

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Color	WHITE



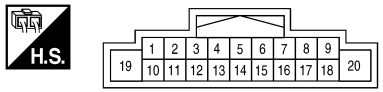
Terminal No.	Color of Wire	Signal Name
10	Y	–
11	L	–

Connector No.	M15
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	R	–
14	W	–

Connector No.	M43
Connector Name	AUDIO UNIT (WITH BASE AUDIO SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	–	–
2	GR	FR SP LH (+)
3	P	FR SP LH (-)
4	W	RR SP LH (+)
5	R	RR SP LH (-)
6	–	–
7	L	ACC
8	B	ILL(-)

Terminal No.	Color of Wire	Signal Name
9	LG	ILL (+)
10	–	–
11	O	FR SP RH (+)
12	V	FR SP RH (-)
13	L	RR SP RH (+)
14	Y	RR SP RH (-)
15	–	–
16	–	–
17	–	–
18	–	–
19	Y	BAT
20	–	–

ABNIA3109GB

REAR DOOR SPEAKER

Description

INFOID:0000000007687110

The AV control unit sends audio signals to the rear door speakers using the rear door speaker circuits.

Diagnosis Procedure

INFOID:0000000007687111

Regarding Wiring Diagram information, refer to AV-104, "Wiring Diagram".

1.CONNECTOR CHECK

Check the AV control unit and speaker connectors for the following:
- Proper connection
- Damage
- Disconnected or loose terminals

Is the inspection result normal?

YES >> GO TO 2
NO >> Repair the terminal and connector.

2.HARNESS CHECK

1. Disconnect AV control unit connector M70 and suspect speaker connector.
2. Check continuity between AV control unit harness connector M70 terminal and suspect speaker harness connector terminal.

Connector	Terminal	Connector	Terminal	Continuity
M70	4	D207	1	Yes
	5		2	
	13	D307	1	
	14		2	

3. Check continuity between AV control unit harness connector M70 terminal and ground.

Connector	Terminal	—	Continuity
M70	4	Ground	No
	5		
	13		
	14		

Are continuity results as specified?

YES >> GO TO 3
NO >> Repair or replace harness or connector.

3.REAR SPEAKER SIGNAL CHECK

1. Connect AV control unit connector M70 and rear speaker connector.
2. Turn ignition switch to ACC.
3. Push AV control unit POWER switch.
4. Check the signal between AV control unit harness connector M70 terminals with CONSULT or oscilloscope.

PERIODIC MAINTENANCE

Introduction of Periodic Maintenance

INFOID:0000000007733883

Two different maintenance schedules are provided, and should be used, depending upon the conditions in which the vehicle is mainly operated. **After 60,000 miles (96,000 km) or 48 months, continue the periodic maintenance at the same mileage/time intervals.**

Schedule 1	Follow Periodic Maintenance Schedule 1 if the driving habits frequently includes one or more of the following driving conditions: • Repeated short trips of less than 5 miles (8 km). • Repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing. • Operating in hot weather in stop-and-go “rush hour” traffic. • Extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use. • Driving in dusty conditions. • Driving on rough, muddy, or salt spread roads. • Towing a trailer, using a camper or a car-top carrier.	Emission Control System Maintenance	MA-8
		Chassis and Body Maintenance	MA-8
Schedule 2	Follow Periodic Maintenance Schedule 2 if none of the driving conditions shown in Schedule 1 apply to the driving habits.	Emission Control System Maintenance	MA-10
		Chassis and Body Maintenance	MA-10

Schedule 1

INFOID:0000000007733884

Emission Control System Maintenance

Abbreviations: R = Replace. I = Inspect. Correct or replace if necessary. [ ]: At the mileage intervals only

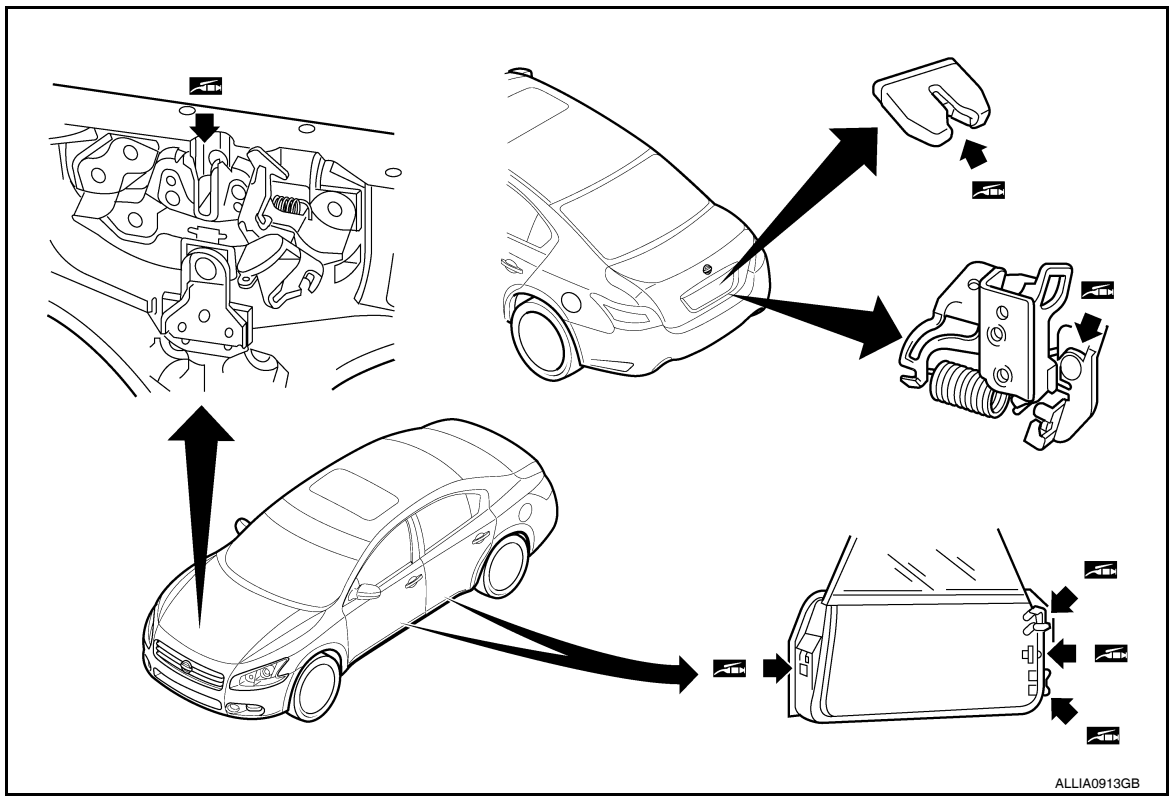
MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference Section - Page or - Content Title
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	3.75 (6) 3	7.5 (12) 6	11.25 (18) 9	15 (24) 12	18.75 (30) 15	22.5 (36) 18	26.25 (42) 21	30 (48) 24	
Drive belt	NOTE (1)									MA-14
Air cleaner filter	NOTE (2)								[R]	MA-19
EVAP vapor lines									I*	MA-24
Fuel lines									I*	MA-19
Fuel filter	NOTE (3)									—
Engine coolant*	NOTE (4)									MA-15
Engine oil		R	R	R	R	R	R	R	R	MA-20
Engine oil filter (Use Genuine NISSAN oil filter or equivalent)		R	R	R	R	R	R	R	R	MA-21
Spark plugs		Replace every 105,000 miles (168,000 km)								MA-22
Intake and exhaust valve clearance*	NOTE (5)									EM-76

Abbreviations: R = Replace. I = Inspect. Correct or replace if necessary. [ ]: At the mileage intervals only

MAINTENANCE OPERATION		MAINTENANCE INTERVAL								Reference Section - Page or - Content Title
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000 (km x 1,000) Months	33.75 (54) 27	37.5 (60) 30	41.25 (66) 33	45 (72) 36	48.75 (78) 39	52.5 (84) 42	56.25 (90) 45	60 (96) 48	
Drive belt	NOTE (1)								I*	MA-14
Air cleaner filter	NOTE (2)								[R]	MA-19
EVAP vapor lines									I*	MA-24
Fuel lines									I*	MA-19

LOCKS, HINGES AND HOOD LATCH : Lubricating

INFOID:0000000007206046



Body grease

SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS

SEAT BELT, BUCKLES, RETRACTORS, ANCHORS AND ADJUSTERS : Inspection

INFOID:0000000007206047

Check the seat belt buckles, webbing, retractors, anchors and adjusters. Replace any seat belt assembly as necessary. Refer to SB-4, "Inspection".

- Check the seat belt anchors for loose bolts, damage, or excessive wear.
- Check the seat belt webbing for any damage, cuts, fraying, or excessive wear.
- Check the retractor for smooth operation.
- Check the function of the buckles by inserting the seat belt tongue and checking for proper engagement of the buckle and press the button on the buckle to check for proper release of the seat belt tongue.

CAUTION:

- **After any collision, inspect all seat belt assemblies, including retractors and other attached components, such as the guide rail set. NISSAN recommends replacing all seat belt assemblies in use during a collision, unless they are not damaged and are inspected to confirm they are operating properly after a minor collision.**
  Also inspect all seat belt assemblies that are not in use during a collision, and replace any components if damaged or not operating properly. The seat belt pre-tensioner should be replaced even if the seat belts are not in use during a frontal collision where the driver and passenger air bags have been deployed.
- **If any component of the seat belt assembly is suspected of being damaged or not operating properly, do not repair the component. Replace the components as an assembly.**
- **If the seat belt webbing is cut, frayed, or damaged then replace the seat belt assembly.**
- **Never lubricate the seat belt buckle or tongue.**
- **When replacing any seat belt assembly always use a Genuine NISSAN seat belt assembly.**