

2. Combination Meter System

A: WIRING DIAGRAM

1. COMBINATION METER

<Ref. to WI-163, WIRING DIAGRAM, Combination Meter System.>

B: INSPECTION

1. SELF-DIAGNOSIS

The self-diagnosis (checking of each meter, warning light, indicator, illumination, LCD, buzzer sound) of combination meter can be performed in the following procedure.

- 1) Turn the ignition switch to ON while turning the small light to OFF.
- 2) Turn the small light switch to ON within 3 seconds after step 1), then press the odometer/tripmeter knob three times.
- 3) Turn the small light switch to OFF, and press the odometer/tripmeter knob three times.
- 4) Turn the small light switch to ON, and press the odometer/tripmeter knob three times.

NOTE:

- Perform the steps described in 2) and 4) within 10 seconds after the ignition switch is turned to ON.
- When pressing the odometer/tripmeter knob four times, the display changes to DTC display mode (ECM, TCM, ABSCM/VDCCM). <Ref. to IDI-15, DTC DISPLAY MODE, INSPECTION, Combination Meter System.>When the self-diagnosis function operates, the warning light, indicator, and LCD display checks are performed. After this, operation checks are performed in the order of meter, illumination, and buzzer for each press of the odometer/tripmeter knob button. <Ref. to IDI-5, LIST OF SELF-DIAGNOSIS MODE OPERATION, INSPECTION, Combination Meter System.> Turn the ignition switch to OFF to cancel the self-diagnosis function.
- When the engine starts during diagnosis, the self-diagnosis function is not cancelled, however, once the vehicle starts driving, the self-diagnosis function is deactivated automatically for safety.

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2. LIST OF SELF-DIAGNOSIS MODE OPERATION

Normal meter













Speedometer, tachometer, fuel gauge, engine coolant temperature gauge	Microcomputer running type warning light, indicator light	AT select lever position indicator light	Odo/Trip indicator	SPORT shift indicator	Illumination (indicator needle, plate, ring, LCD)	Buzzer (SPORT shift buzzer)
Step 0. Processing to self-diagnosis function						
Operating initial operation	Initial illuminating	Normal	Normal	Initial illuminating	Initial illuminating	Not beep.
Step 1-1. Check each indication after initial operation						
Repeat the sweep operation (After holding on lowest position for one second, reaches to highest position within 5 seconds, and after holding on highest position for one second, reaches to lowest position within 5 seconds).	Light ON	With the highest brightness, illuminate the position sequentially at a cycle of 1.5 seconds.	Perform the segment check. For the illumination order, refer to the illumination order table.	Perform the segment check. For the illumination order, refer to the illumination order table.	Illuminate at the highest brightness.	Not beep.
Step 1-2. Press the trip knob (trip knob input is not accepted till the meter indicator needle reaches the highest position): sweep complete, AT select lever position indicator display is set						
After completing sweep in step 1-1, back to lowest position.	Light ON	Keep the position indicated when the trip knob is pressed.	Underbar “_” is displayed.	“1” is displayed.	Illuminate at the highest brightness.	Not beep.
Step 2-1. Press the trip knob, and hold it: Check each meter						
All meters are moved simultaneously in every 0.5 sec. from the lowest position to highest position. Speedometer/ Tachometer: Approx. 5 degrees at every movement. Engine coolant temperature / Fuel gauge: Moves approx. 2 degrees at a time.	Light OFF	Keep the position indicated that set in step 1-2.	Display the current meter directing angle on odometer. Ex.) When the speedometer/ tachometer: 135 degrees and engine coolant temperature gauge/fuel gauge: 54 degrees, displays “135054”.	“▼2” is displayed.	Illuminate at the highest brightness.	Not beep.
Step 2-2. Release the trip knob: Specifying the meter directing position						
Stop at directing position when the trip knob is released.	Light OFF	Keep the position indicated that set in step 1-2.	Display the current meter directing angle on odometer.	“2” is displayed.	Illuminate at the highest brightness.	Not beep.

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Speedometer, tachometer, fuel gauge, engine coolant temperature gauge	Microcomputer running type warning light, indicator light	AT select lever position indicator light	Odo/Trip indicator	SPORT shift indicator	Illumination (indicator needle, plate, ring, LCD)	Buzzer (SPORT shift buzzer)
Step 3-1. Press the trip knob, and hold it: Check illumination						
Keep the position that specified at step 2-2.	Light OFF	Varying from the highest brightness (ILL6) to the lowest luminescence (ILL1) every second. After reaching at ILL1, repeat it from ILL6.	Illumination brightness is displayed. (From ILL6 to ILL1)	“▼ 3” is displayed.	Varying from the highest brightness (ILL6) to the lowest luminescence (ILL1) every second. After reaching at ILL1, repeat it from ILL6.	Not beep.
Step 3-2. Release the trip knob: Specifying the illumination brightness						
Keep the position that specified at step 2-2.	Light OFF	Keep the brightness at the time when the trip knob is released.	Displays the brightness level at the time when the trip knob was released.	“3” is displayed.	Keep the brightness at the time when the trip knob is released.	Not beep.
Step 4-1. Press the trip knob: Check the beeping of SPORT shift buzzer (For AT model)						
All meter indicator needle returns to lowest position.	Light OFF	Illuminate at the highest brightness. Keep the position indicated that set in step 1-2.	Illumination brightness is displayed.	“▲▼ 8” is displayed. Blinks with buzzer.	Illuminate at the highest brightness.	SPORT shift buzzer beeps.
Step 4-2. Press the trip knob: Check the VDC indicator light (Model with VDC)						
All meter indicator needle returns to lowest position.	VDC warning light and VDC operation indicator light blink.	Illuminate at the highest brightness. Keep the position indicated that set in step 1-2.	Illumination brightness is displayed.	“4” is displayed.	Illuminate at the highest brightness.	VDC buzzer beeps.
Step 5. Press the trip knob: Complete the self-diagnosis 1 cycle						
All meter indicator needle returns to lowest position, and go back to step 1 after completion.						

• Illuminating order table

Illuminating order	1	2	3	4	5	6	7	8	9	10	11	Go back to 1 and repeat
Trip meter A/B	AB	A	B	A	B	A	B	A	B	A	B	
Odo/trip meter	8888.8 888888	00000 000000	1111.1 111111	22222 222222	3333.3 333333	44444 444444	5555.5 555555	66666 666666	7777.7 777777	88888 888888	9999.9 999999	
SPORT shift indicator	8	1	2	3	4	5	1	2	3	4	5	
												
AT select lever position indicator	P	P	R	R	R	N	N	N	D	D	D	
Display time (sec.)	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

3. LIST OF SELF-DIAGNOSIS MODE OPERATION

Meter with multi information display

Speedometer, tachometer, fuel gauge, engine coolant temperature gauge, ECO gauge	Microcomputer running type warning light, indicator light	AT select lever position indicator light	Multi information display	Illumination (indicator needle, plate, ring, LCD)	Buzzer (SPORT shift buzzer, VDC buzzer, speed warning)
Step 0. Processing to self-diagnosis function					
Operating initial operation	Initial illuminating	Normal	TRIP: Normal ODO: Normal	Initial illuminating	Not beep.
Step 1-1. Check each indication after initial operation					
Repeat the sweep operation (After holding on lowest position for one second, reaches to highest position within 5 seconds, and after holding on highest position for one second, reaches to lowest position within 5 seconds).	Light ON	Perform the segment check. For the illumination order, refer to the table 1 of illumination order tables.	STEP 1 is displayed. White illumination: 6 seconds. Yellow illumination: 6 seconds.	Illuminate at the highest brightness.	Not beep.
Step 1-2. Press the trip knob: sweep completes, AT select lever position indicator display is set					
After quitting sweep in step 1-1, back to lowest position. (Until back to lowest position, ignore trip input.)	Light ON	Keep the position indicated when the trip knob is released.	Keep the illumination color indicated when the trip knob is released.	Illuminate at the highest brightness.	Not beep.
Step 2-1. Press the trip knob, and hold it: Check each meter					
Perform the indicator needle check. For the illumination order, refer to the table 2 of illumination order tables.	Light OFF (Low fuel warning light follows the table 2 of tables.)	For the illumination order, refer to the table 2 of illumination order tables.	STEP 2 is displayed. White illumination: 12.5 seconds. Yellow illumination: 12.5 seconds.	Illuminate at the highest brightness.	Not beep.
Step 2-2. Release the trip knob: Specifying the meter directing position					
Stop at directing position when the trip knob is released. (Indicator needle stops moving after movement is completed.)	Light OFF	Keep the position indicated when the trip knob is released.	Keep the illumination color at the time when the trip knob is released.	Illuminate at the highest brightness.	Not beep.
Step 3-1. Press the trip knob, and hold it: Check illumination					
Keep the position that specified at step 2-2.	Light OFF	Keep the position that specified at step 2-2.	STEP 3 is displayed, and illumination brightness is displayed. (from ILL6 to ILL1)	Varying from the highest brightness (ILL6) to the lowest luminescence (ILL1) every second. After reaching at ILL1, repeat it from ILL6.	Not beep.
Step 3-2. Release the trip knob: Specifying the illumination brightness					

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Speedometer, tachometer, fuel gauge, engine coolant temperature gauge, ECO gauge	Microcomputer running type warning light, indicator light	AT select lever position indicator light	Multi information display	Illumination (indicator needle, plate, ring, LCD)	Buzzer (SPORT shift buzzer, VDC buzzer, speed warning)
Keep the position that specified at step 2-2.	Light OFF	Keep the position that specified at step 2-2.	Keep the position indicated when the trip knob is pressed.	Keep the brightness at the time when the trip knob is released.	Not beep.
Step 4-1. Press the trip knob: Check the beeping of multi buzzer					
All meter indicator needle returns to lowest position.	Light OFF	P is displayed in white illumination.	STEP 3 WN BUZZER is displayed. White illumination: 1 seconds. Yellow illumination: 1 seconds.	Illuminate at the highest brightness.	Buzzer beeps when multi information display is yellow illumination.
Step 4-2. Press the trip knob: Check the beeping of SPORT shift buzzer (For AT model only, while for MT model, go to the next)					
All meter indicator needle returns to lowest position.	Light OFF	Shift display blinks with buzzer.	STEP 4 SS BUZZER is displayed.	Illuminate at the highest brightness.	SPORT shift buzzer beeps.
Step 4-3. Press the trip knob: Check the beeping of VDC buzzer (For the model with VDC only, while for other models, go to the next)					
All meter indicator needle returns to lowest position.	VDC warning light and VDC operation blink with buzzer.	P is displayed in white illumination.	STEP 4 VDC BUZZER is displayed.	Illuminate at the highest brightness.	VDC buzzer beeps.
Speed meter indicates the start position of speed warning while other meters indicate the lowest position.	Light OFF	P is displayed in white illumination.	STEP 4 SP BUZZER is displayed.	Illuminate at the highest brightness.	VDC buzzer beeps.
Step 5. Press the trip knob: Complete the self-diagnosis 1 cycle					
All meter indicator needle returns to lowest position, and go back to step 1 after completion.					

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- Illuminating order table
- Display Contents 1

Illuminating order	1	2	3	4	5	6	7	8	9	10	Go back to 1 and repeat
											
AT select lever position indicator	P	N	R	D	All lights ON	1	2	3	4	5	
Display time (sec.)	1	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5	0.5	
Back-up light	White light ON										

Display Contents 2

Illuminating order	1	2	3	4	5	6	7	8	9	10	Go back to 1 and repeat
Speedometer	0	0	40	60	80	100	80	60	40	0	
Tachometer	0	0	1000	2000	3000	4000	3000	2000	1000	0	
Fuel gauge	Lowest position	EMPTY	Warning light illumination position	1/2	FULL	High-est position	FULL	1/2	Warning light illumination position	EMPTY	
Engine coolant temperature gauge	Lowest position	C	at the first scale	1/2	at the third scale	over the fourth scale (approx 120°C)	at the third scale	1/2	at the first scale	C	
ECO gauge	–Max	0	+Max	0	–Max	0	+Max	0	–Max	0	
Low fuel warning light	Light ON	Light ON	Light ON	Light OFF	Light OFF	Light OFF	Light OFF	Light OFF	Light ON	Light ON	
AT select lever position indicator	P	N	R	D	All lights ON	▲ 1	▼ 2	▲ 3	▼ 4	▲ 5	
Multi meter	STEP 2 is displayed.										
Display time (sec.)	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	
Back-up light (SS of AT model)	White light ON										
Back-up light (Multi information display LCD)	White light ON					Yellow light ON					

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4. SYMPTOM CHART

Symptom	Repair order	Reference
Combination meter assembly does not operate.	1. Power supply 2. Ground circuit 3. Combination meter	<Ref. to IDI-11, CHECK POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Combination Meter System.>
Speedometer does not operate.	1. ABSCM or VDCCM 2. Harness 3. Combination meter	<Ref. to IDI-12, CHECK ABSCM OR VDCCM, INSPECTION, Combination Meter System.>
Tachometer does not operate.	1. ECM 2. Harness 3. Combination meter	<Ref. to IDI-12, CHECK ENGINE CONTROL MODULE (ECM), INSPECTION, Combination Meter System.>
Fuel gauge does not operate.	1. Communication circuit 2. Fuel level sensor 3. Harness 4. Combination meter	<Ref. to IDI-13, CHECK FUEL LEVEL SENSOR, INSPECTION, Combination Meter System.>
Engine coolant temperature gauge does not operate.	1. Communication circuit 2. Engine coolant temperature sensor 3. Harness 4. Combination meter	<Ref. to IDI-14, CHECK ENGINE COOLANT TEMPERATURE SENSOR, INSPECTION, Combination Meter System.>
ECO gauge does not operate.	1. Communication circuit 2. Combination meter	<Ref. to IDI-7, LIST OF SELF-DIAGNOSIS MODE OPERATION, INSPECTION, Combination Meter System.> NOTE: After trip meter is reset, average fuel economy is not displayed within 1 km and ECO gauge does not operate.
Error display is shown on the odo/trip meter. (Except for meter with MID)	Communication circuit	<Ref. to IDI-15, COMMUNICATION ERROR DISPLAY, INSPECTION, Combination Meter System.>

CAUTION:

When measuring the voltage and resistance of each control module or sensor, use a tapered pin with a diameter of less than 0.64 mm (0.025 in) in order to avoid poor contact. Do not insert the pin more than 2 mm (0.08 in).

5. CHECK POWER SUPPLY AND GROUND CIRCUIT

Step	Check	Yes	No
1 CHECK POWER SUPPLY FOR COMBINATION METER. 1) Remove the combination meter. <Ref. to IDI-19, REMOVAL, Combination Meter.> 2) Disconnect the combination meter harness connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between combination meter connector and chassis ground. Connector & terminal <i>(i10) No. 1 (+) — Chassis ground (-):</i> <i>(i10) No. 3 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 2.	Check the harness for open or short between the ignition switch and combination meter.
2 CHECK POWER SUPPLY FOR COMBINATION METER. Measure the voltage between combination meter connector and chassis ground. Connector & terminal <i>(i10) No. 1 (+) — Chassis ground (-):</i> <i>(i10) No. 3 (+) — Chassis ground (-):</i>	Is the voltage 10 V or more?	Go to step 3.	Check the harness for open or short between the fuse and combination meter.
3 CHECK GROUND CIRCUIT OF COMBINATION METER. 1) Turn the ignition switch to OFF. 2) Measure the resistance of harness between combination meter connector and chassis ground. Connector & terminal Normal meter model: <i>(i10) No. 11 — Chassis ground:</i> <i>(i10) No. 12 — Chassis ground:</i> Multi information display model: <i>(i10) No. 11 — Chassis ground:</i> <i>(i10) No. 12 — Chassis ground:</i>	Is resistance less than 10 Ω ?	Replace the meter case assembly.	Repair the wiring harness.

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6. CHECK ABSCM OR VDCCM

Step	Check	Yes	No
1 CHECK VEHICLE SPEED SIGNAL. 1) Lift up the vehicle and support it with rigid racks. 2) Drive the vehicle faster than 10 km/h (6 MPH). WARNING: Be careful not to be dragged in by the rotating wheel. 3) Measure the voltage between combination meter connector and chassis ground. Connector & terminal (i10) No. 19 (+) — Chassis ground (-):	Is the voltage less than 1 V \longleftrightarrow 5 V or more?	Replace the meter case assembly.	Go to step 2.
2 CHECK HARNESS BETWEEN ABSCM OR VDCCM AND COMBINATION METER. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from ABSCM or VDCCM and combination meter. 3) Measure the resistance between ABSCM or VDCCM harness connectors and the combination meter harness connector. Connector & terminal Model without VDC (B301) No. 23 — (i10) No. 19: Model with VDC (B310) No. 33 — (i10) No. 19:	Is resistance less than 10 Ω ?	Model without VDC: Check the ABSCM. <Ref. to ABS(diag)-2, Basic Diagnostic Procedure.> Model with VDC: Check the VDCCM. <Ref. to VDC(diag)-2, Basic Diagnostic Procedure.>	Repair the wiring harness.

7. CHECK ENGINE CONTROL MODULE (ECM)

Step	Check	Yes	No
1 CHECK ECM SIGNAL. 1) Start the engine. 2) Measure the voltage between ECM connector and chassis ground. Connector & terminal (B136) No. 22 (+) — Chassis ground (-):	Is the voltage 0 \longleftrightarrow 14 V or more?	Go to step 2.	Inspect the ECM. <Ref. to EN(H4SO)(diag)-2, Basic Diagnostic Procedure.> <Ref. to EN(H4DOTC)(diag)-2, Basic Diagnostic Procedure.> <Ref. to EN(H6DO)(diag)-2, Basic Diagnostic Procedure.>
2 CHECK HARNESS BETWEEN COMBINATION METER AND ECM. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from ECM and combination meter. 3) Measure the resistance between ECM harness connector and combination meter harness connector. Connector & terminal (B136) No. 22 — (i10) No. 20:	Is resistance less than 10 Ω ?	Replace the meter case assembly.	Repair the wiring harness.

8. CHECK FUEL LEVEL SENSOR

Step	Check	Yes	No
1 CHECK COMMUNICATION ERROR DISPLAY. 1) Turn the ignition switch to ON. 2) Check that the error code is displayed in odo/trip meter. (Except for meter with MID)	Is the error code "Er xx" displayed on odo/trip meter? (Except for meter with MID) Or is the DTC of low speed LAN system detected?	Check the communication circuit. <Ref. to IDI-15, COMMUNICATION ERROR DISPLAY, INSPECTION, Combination Meter System.>	Go to step 2.
2 CHECK COMBINATION METER. 1) Remove the fuel sub level sensor. <Ref. to FU(H4SO)-53, REMOVAL, Fuel Sub Level Sensor.> <Ref. to FU(H4DOTC)-63, REMOVAL, Fuel Sub Level Sensor.> <Ref. to FU(H6DO)-52, REMOVAL, Fuel Sub Level Sensor.> 2) Short the fuel sub level sensor connector terminal to the chassis ground using a suitable lead line wire with 2 — 6 Ω resistance connected between connector terminal and chassis ground. 3) Turn the ignition switch to ON. Terminals (R59) No. 1 — Chassis ground:	Is the fuel gauge display in combination meter changed to FULL?	Go to step 3.	Check harness for open or short circuits, and if normal, replace the meter case assembly.
3 CHECK FUEL LEVEL SENSOR. 1) Remove the fuel level sensor. <Ref. to FU(H4SO)-52, REMOVAL, Fuel Level Sensor.> <Ref. to FU(H4DOTC)-62, REMOVAL, Fuel Level Sensor.> <Ref. to FU(H6DO)-51, REMOVAL, Fuel Level Sensor.> 2) Measure the resistance between fuel level sensor terminals when the float is in FULL or EMPTY position. Terminals (R58) No. 1 — No. 4:	Is the resistance 1.0 to 3.0 Ω (FULL) and 31 to 33 Ω (EMPTY)?	Go to step 4.	Replace the fuel level sensor.
4 CHECK FUEL SUB LEVEL SENSOR. 1) Remove the fuel sub level sensor. <Ref. to FU(H4SO)-53, REMOVAL, Fuel Sub Level Sensor.> <Ref. to FU(H4DOTC)-63, REMOVAL, Fuel Sub Level Sensor.> <Ref. to FU(H6DO)-52, REMOVAL, Fuel Sub Level Sensor.> 2) Measure the resistance between fuel sub level sensor terminals when the float is in FULL or EMPTY position. Terminals (R59) No. 1 — No. 2:	Is the resistance 1.0 to 3.0 Ω (FULL) and 61 to 63 Ω (EMPTY)?	Go to step 5.	Replace the fuel sub level sensor.
5 CHECK HARNESS BETWEEN FUEL SUB-LEVEL SENSOR AND BODY INTEGRATED UNIT. 1) Disconnect the connector from body integrated unit. 2) Check harness for open or short circuits between fuel sub level sensor harness connector terminal and body integrated unit harness connector terminal. Connector & terminal (R59) No. 1 — (B281) No. 19:	Is harness normal?	Go to step 6.	Repair the wiring harness.

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Step	Check	Yes	No
6 CHECK HARNESS BETWEEN FUEL LEVEL SENSOR AND FUEL SUB LEVEL SENSOR. Check harness for open or short circuits between fuel level sensor harness connector terminal and fuel sub level sensor harness connector terminal. Connector & terminal (R58) No. 1 — (R59) No. 2:	Is harness normal?	Go to step 7.	Repair the wiring harness.
7 CHECK FUEL LEVEL SENSOR GROUND CIRCUIT. Check harness for open or short circuits between fuel level sensor harness connector terminal and chassis ground harness connector terminal. Connector & terminal (R58) No. 4 — Chassis ground:	Is harness normal?	Replace the meter case assembly.	Repair the wiring harness.

9. CHECK ENGINE COOLANT TEMPERATURE SENSOR

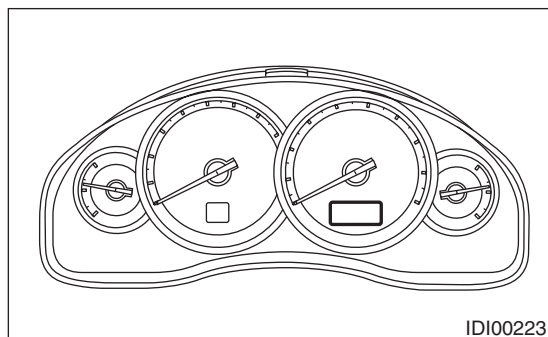
Step	Check	Yes	No
1 CHECK COMMUNICATION ERROR DISPLAY. 1) Turn the ignition switch to ON. 2) Check that the error code is displayed in odo/trip meter. (Except for meter with MID)	Is the error code "Er xx" displayed on odo/trip meter? (Except for meter with MID) Or is the DTC of low speed LAN system detected?	Check the communication circuit. <Ref. to IDI-15, COMMUNICATION ERROR DISPLAY, INSPECTION, Combination Meter System.>	Go to step 2.
2 CHECK ENGINE COOLANT TEMPERATURE SENSOR. Check the engine coolant temperature sensor. <Ref. to EN(H4SO)(diag)-2, Basic Diagnostic Procedure.> <Ref. to EN(H4DOTC)(diag)-2, Basic Diagnostic Procedure.> <Ref. to EN(H6DO)(diag)-2, Basic Diagnostic Procedure.>	Is the engine coolant temperature sensor OK?	Replace the meter case assembly.	Replace the engine coolant temperature sensor.

10.COMMUNICATION ERROR DISPLAY

NOTE:

Communication error display is not displayed on the meter with multi information display.

When the following error code is displayed in the odo/trip meter, inspect the communication circuit since the communication failure is generated between each control module. <Ref. to LAN(diag)-2, Basic Diagnostic Procedure.>



Error code	Remarks
Er IU	Malfunction in integrated module
Er —	Simultaneous malfunction of high/low speed CAN communication
Er HC	High speed CAN communication failure
Er LC	Low-speed CAN communication failure
Er EG	EGI Communication failure
Er TC	TCM Communication failure
Er Ab	ABSCM/VDCCM communication failure
Er SP	ABSCM/VDCCM DTC information and vehicle speed pulse malfunction
Er SS	Wheel speed data malfunction

11.DTC DISPLAY MODE

Check of DTC can be easily performed by means of combination meter by performing the following procedures.

- 1) Turn the ignition switch to ON while turning the small light to OFF.
- 2) Turn the small light switch to ON within 3 seconds after step 1), then press the odo/tripmeter knob three times.
- 3) Turn the small light switch to OFF, and press the odo/trip meter knob four times.

- 4) Turn the small light switch to ON, and press the odo/trip meter knob four times.

NOTE:

- Perform the steps described in 2) and 4) within 10 seconds after the ignition switch is turned to ON.
- Turn the ignition switch to OFF to deactivate simple DTC display mode.
- When the engine starts during diagnosis, the self-diagnosis function is not cancelled, however, once the vehicle starts driving, the self-diagnosis function is deactivated automatically for safety.

NOTE:

When the DTC display mode operates, {ECM}, {TCM}, {ABSCM/VDCCM} is displayed cyclically in this order for every three seconds or every press of the trip knob. DTC is displayed in the following table according to type of control module, receiving DTC, DTC detected, No DTC. If CAN communication has some trouble, “-----” is displayed.

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- Meter without multi information display

Control module	Condition	Display
ECM	Receiving DTC	Trip "A" + "P (Blink)"
	DTC detected	Trip "A" + "P xxxx"
	No DTC	Trip "A" + "P ----"
TCM	Receiving DTC	Trip "B" + "P (Blink)"
	DTC detected	Trip "B" + "P xxxx"
	No DTC	Trip "B" + "P ----"
ABS/VDCCM	Receiving DTC	Trip "A" + "C (Blink)"
	DTC detected	Trip "A" + "C xxxx"
	No DTC	Trip "A" + "C ----"
When CAN communication error is occurred	—	" ---- "

- Meter without multi information display

Control module	Condition	Display
ECM	Receiving DTC	Trip "A" + "P (Blink)"
	DTC detected	Trip "A" + "P xxxx"
	No DTC	Trip "A" + "P ----"
TCM	Receiving DTC	Trip "B" + "P (Blink)"
	DTC detected	Trip "B" + "P xxxx"
	No DTC	Trip "B" + "P ----"
ABS/VDCCM	Receiving DTC	Trip "A" + "C (Blink)"
	DTC detected	Trip "A" + "C xxxx"
	No DTC	Trip "A" + "C ----"