

Combination Meter System

INSTRUMENTATION/DRIVER INFO

3. Combination Meter System

A: WIRING DIAGRAM

Refer to “Combination Meter System” in the wiring diagram. <Ref. to WI-110, WIRING DIAGRAM, Combination Meter System.>

B: ELECTRICAL SPECIFICATION

1. COMBINATION METER ASSEMBLY

Refer to “Control Module I/O Signal” of “INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS)” section. <Ref. to IDI(diag)-7, ELECTRICAL SPECIFICATION, Control Module I/O Signal.>

C: OPERATION

1. SELF-DIAGNOSIS DISPLAY MODE

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

CAUTION:

Perform the steps described in 1) through 4) within 10 seconds.

- 1) Unfasten → fasten the driver's seat belt within 3 seconds after the ignition switch is turned to ON.
- 2) With the driver's seat belt fastened, press the trip meter knob three times.
- 3) Unfasten the driver's seat belt, and then press the trip meter knob three times.
- 4) Fasten the driver's seat belt again, and then press the trip meter knob three times.

NOTE:

- When the self-diagnosis function operates, the warning light, indicator light, and LCD display checks are performed. After this, the buzzer will sound for 0.5 seconds every time the trip meter knob is pressed, and operation checks are performed in the order of meter indicator needle operation, meter indicator needle indication, and LCD. 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.
- 5) Go to “Check meter indicator operation”.

Check meter operation, warning light, indicator light, illumination and LCD.

NOTE:

- After “_S_1” is displayed on the LCD, the meter indicator operation check mode is initiated.
- Each of the meter indicator operation display and LCD display switches every 6 seconds.

Meter indicator	LCD display, illumination	Warning light/ indicator light
MIN indication ↓ MAX indication	ILL1 (Min. brightness) ↓*4 ILL6 (Max. brightness)	*1, *2, *3
MAX indication ↓ MIN indication	ILL6 (Max. brightness) ↓*4 ILL1 (Min. brightness)	

*1: Warning lights and indicator lights controlled by the meter drive circuit are illuminated. <Ref. to IDI-2, SPECIFICATION, General Description.>

*2: Warning lights and indicator lights controlled by other module are turned on/off according to the module control. <Ref. to IDI-2, SPECIFICATION, General Description.>

*3: Engine coolant temperature warning light illuminates in red.

*4: Display for one second for each level.

6) Press the trip meter knob once.

Combination Meter System

INSTRUMENTATION/DRIVER INFO

7) Go to “Meter Indicator Needle Indication Check”.

Check meter operation, warning light, indicator light, and LCD.

NOTE:

- Meter indicator switches every 1.5 seconds for each indication.
- ILL indication illuminates at the same brightness as when entering “Meter Indicator Needle Indication Check”.
- During operation, “_S_2” is displayed on the LCD trip display.

Speedometer (km/h)	Tachometer (rpm)	ECO gauge	Warning light/ indicator light
0	0	Lowest point	*1, *2, *3
0	0	–Max	
40	1000	0	
100	4000	+Max	
40	1000	0	
0	0	–Max	

*1: Warning lights and indicator lights controlled by the meter drive circuit go off. <Ref. to IDI-2, SPECIFICATION, General Description.>

*2: Warning lights and indicator lights controlled by other module are turned on/off according to the module control. <Ref. to IDI-2, SPECIFICATION, General Description.>

*3: Engine coolant temperature indicator light illuminates in blue.

8) Press the trip meter knob once.

9) Go to “Check LCD display”.

Check the LCD display.

NOTE:

- After “_S_3” is displayed on the LCD, the LCD display check mode is initiated.
- LCD display switches every 1 second.
- Warning lights and indicator lights controlled by the meter drive circuit go off. <Ref. to IDI-2, SPECIFICATION, General Description.>
- Warning lights and indicator lights controlled by other module are turned on/off according to the module control. <Ref. to IDI-2, SPECIFICATION, General Description.>
- The meter indication remains at the same level as “Meter Indicator Needle Indication Check”.
- ILL indication illuminates at ILL6 level (max. brightness).
- After No. 14 is displayed in the illumination order, display is repeated from No. 1 again.

Combination Meter System

INSTRUMENTATION/DRIVER INFO

Models without EyeSight

ORDER	AT/SS	CRUISE/SET	X/S/I/S#	TRIP/ODO	FUEL METER	LFW
1						OFF
2		OFF	OFF			ON
3		OFF	OFF			ON
4		OFF				OFF
5		OFF	OFF			OFF
6		OFF	OFF			OFF
7						OFF
8		OFF	OFF			OFF
9			OFF			OFF
10		OFF				OFF
11		OFF	OFF			OFF
12		OFF	OFF			OFF
13						ON
14		OFF	OFF			OFF

IDI00667

Combination Meter System

INSTRUMENTATION/DRIVER INFO

Models with EyeSight

ORDER	AT/SS	EyeSight CRUISE/SET/READY	X/S/I/S#	TRIP/ODO	FUEL METER	LFW
1						OFF
2			OFF			ON
3			OFF			ON
4						OFF
5			OFF			OFF
6			OFF			OFF
7						OFF
8			OFF			OFF
9			OFF			OFF
10						OFF
11			OFF			OFF
12			OFF			OFF
13						ON
14			OFF			OFF

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D: INSPECTION

Refer to “Basic Diagnostic Procedure” of “INSTRUMENTATION/DRIVER INFO (DIAGNOSTICS)” section.
<Ref. to IDI(diag)-2, Basic Diagnostic Procedure.>

Combination Meter System

INSTRUMENTATION/DRIVER INFO

E: NOTE

For procedure of each component in the combination meter system, refer to the respective section.

- Combination meter assembly: <Ref. to IDI-18, Combination Meter.>
- Speedometer: <Ref. to IDI-21, Speedometer.>
- Tachometer: <Ref. to IDI-22, Tachometer.>
- FUEL meter: <Ref. to IDI-23, Fuel Gauge.>
- ECO gauge: <Ref. to IDI-24, ECO Gauge.>