

3. Combination Meter System

A: WIRING DIAGRAM

Refer to “Combination Meter System” in the wiring diagram. <Ref. to WI-127, 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, TFT) of combination meter can be performed in the following procedure.

1) Start the self-diagnosis display mode. (There are two methods.)

CAUTION:

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

- Method with lighting switch

(1)	Within 3 seconds after turning the ignition switch to ON, set the lighting switch to tail light or headlight position.
(2)	Press the trip meter knob three times.
(3)	Turn the lighting switch to OFF, and press the trip meter knob three times.
(4)	Set the lighting switch to tail light or headlight position again, and press the trip meter knob three times.

- Method with seat belt

(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 TFT 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 TFT. Turn the ignition to OFF (ACC 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.

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2) Go to “Check meter indicator operation”.

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

NOTE:

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

Meter indicator	TFT display, illumination	Warning light/ indicator light
MIN indication ↓ MAX indication	ILL1 (Min. brightness) ↓*3 ILL6 (Max. brightness)	*1, *2
MAX indication ↓ MIN indication	ILL6 (Max. brightness) ↓*3 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: Display for one second for each level.

3) Press the trip meter knob once.

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

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

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 TFT trip display.

Speedometer (km/h)	Tachometer (rpm)	Fuel gauge	Engine coolant temperature gauge	Fuel level warn- ing light	Warning light, indicator light
0	0	Lowest point	Lowest point	Light ON	*1, *2
0	0	E	C	Light ON	
40	1000	1/2	1/2	Light OFF	
100	4000	F	H	Light OFF	
40	1000	1/2	1/2	Light OFF	
0	0	E	C	Light ON	

*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.>

5) Press the trip meter knob once.

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6) Go to “Check TFT display”.
Check the TFT display.

NOTE:

- TFT display switches every 10 seconds.
- After “_S_3” is displayed on the TFT, the TFT display check mode is initiated.
- TFT 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. 8 is displayed in the illumination order, display is repeated from No. 1 again.
- The version display contents of the illumination order No. 1 varies depending on the vehicle.

Order	TFT display
1	Version display & color gradation
2	Black
3	Red
4	Green
5	Blue
6	White
7	Color gradation
8	Cross talking

2. DEMONSTRATION MODE

The demonstration mode screen of the combination meter can be displayed according to the following procedure.

CAUTION:

- While the ignition is OFF (ACC OFF) and the odo/trip meter is not displayed, perform the steps described in 1) through 6) within 10 seconds.
- To avoid battery discharge, perform the operation under the following condition.
 - Perform the operation while the battery is being charged.
 - While performing the operation and displaying the demonstration mode, close all doors and do not operate any electrical parts.
- If the battery voltage is low, the demonstration mode is not initiated.
- To display the demonstration mode, set the “Demonstration mode permission / fault permission” of the user customize mode to “permission”. For operation procedures, refer to the “PC application help for Subaru Select Monitor”.
- When the demonstration mode display is completed, make sure to set “Demonstration mode permission / fault permission” of the user customize mode to “fault permission”. Do not deliver the vehicle to the customer with “Demonstration mode permission / fault permission” set to “permission”.
- Even if the backup fuse is removed, the demonstration mode can be initiated.

1) Press the trip meter knob twice.

NOTE:

When the trip meter knob is pressed once, the odo/trip meter is displayed.

2) Press the i/SET switch three times within three seconds after the operation 1) above is performed.

3) Press the trip meter knob once, and press the i/SET switch three times.

4) Press the trip meter knob once, and press the i/SET switch three times.

5) The “demonstration mode” is initiated.

CAUTION:

If the procedure is not performed properly, stop the operation and wait until the odometer display disappears (for approx. 10 seconds), and then perform the procedure from 1) to 6) again after confirming that the display disappeared.

NOTE:

The demonstration mode will be cancelled in the following condition.

When resuming the operation after cancellation, the demonstration mode is displayed, however, for the model with keyless access, the resuming can only be accepted after approx. 1 minute.

- At the completion of the “goodbye screen” display that is shown 60 minutes after the demonstration mode is initiated
- When the ignition is turned to ON
- When the i/SET switch is turned to ON for two seconds
- When the battery voltage is low
- When the push button ignition switch is pressed with the access key out of the passenger room (model with keyless access)
- When any request switch is pressed with the access key in the passenger room (model with keyless access).

D: INSPECTION

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

E: NOTE

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

- Combination meter assembly: <Ref. to IDI-13, Combination Meter.>
- Speedometer: <Ref. to IDI-16, Speedometer.>
- Tachometer: <Ref. to IDI-17, Tachometer.>
- Fuel gauge: <Ref. to IDI-18, Fuel Gauge.>
- Engine coolant temperature gauge: <Ref. to IDI-19, Engine Coolant Temperature Gauge.>
- Steering switch: <Ref. to IDI-24, Steering Switch.>