INSTRUMENTATION DRIVER INFO

1. General Description

A: SPECIFICATION

	Model	Except STi model	STi model	
	Speedometer	Electric pulse type	Stepping motor type	
	Water temperature gauge	Cross coil type	Stepping motor type	
	Fuel gauge	Cross coil type	Stepping motor type	
	Tachometer	Electric pulse type	Stepping motor type	
	Turn signal indicator light	14 V — 1.4 W	LED	
	Charge indicator light	14 V — 1.4 W	LED	
	Oil pressure warning light	LE	D	
	ABS warning light	LE	D	
	Malfunction indicator light	LE	D	
	HI-beam indicator light	14 V — 1.4 W	LED	
	Door open warning light	LED		
	Seat belt warning light	LED		
	Brake fluid and parking brake warning light	14 V — 1.4 W	LED	
Combination meter	AWD indicator light	LED	_	
	AIRBAG warning light	LED		
	Meter illumination light	14 V — 3 W, 14 V — 2 W	LED	
	AT OIL TEMP. warning light	LED	_	
	Security indicator light	LED		
	Cruise set indicator light	14 V — 1.4 W	LED	
	Cruise indicator light	14 V — 1.4 W	LED	
	Low fuel warning light	LE	D	
	AT select lever position indicator light	14 V — 100 mA	—	
	Intercooler water spray warning light	—	LED	
	Rear differential oil temperature warning light	_	LED	
	Driver's control center differential indicator light	—	LED	
	REV indicator light	—	LED	
	Headlight indicator light	—	LED	
	LCD back light	14 V — 1.4 W	LED	

B: CAUTION

- Be careful not to damage the meters and instrument panel.
- Be careful not to damage the meter glasses.
- Make sure that electrical connector is connected securely.
- After installation, make sure that each meter operates normally.
- Use gloves to avoid damage and getting fingerprints on the glass surface and meter surfaces.
- Do not apply excessive force to the printed circuit.
- Do not drop or otherwise apply impact.

C: PREPARATION TOOL

1. GENERAL TOOL

TOOL NAME	REMARKS
Circuit tester	Used for measuring resistance and voltage.

2. Combination Meter System

A: WIRING DIAGRAM

1. COMBINATION METER

<Ref. to WI-150, WIRING DIAGRAM, Combination Meter System.>

2. OUTSIDE TEMPERATURE INDICATOR

<Ref. to WI-162, WIRING DIAGRAM, Outside Temperature Display System.>

B: INSPECTION

CAUTION:

When measuring voltage and resistance of the ECM, TCM, or each 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).

1. SYMPTOM CHART

Symptom	Repair order	Reference
Combination meter assembly does not operate.	(1) Power supply(2) Ground circuit	<ref. check<br="" idi-4,="" to="">POWER SUPPLY AND GROUND CIRCUIT, INSPECTION, Combi- nation Meter System.></ref.>
Speedometer does not operate.	 (1) Vehicle speed sensor (MT model) TCM (AT model) (2) Harness (3) Speedometer 	MT model: <ref. idi-<br="" to="">4, CHECK VEHICLE SPEED SENSOR, INSPECTION, Combi- nation Meter System.> AT model: <ref. idi-<br="" to="">5, CHECK TRANSMIS- SION CONTROL MOD- ULE (TCM), INSPECTION, Combi- nation Meter System.></ref.></ref.>
Tachometer does not operate.	(1) ECM(2) Harness(3) Tachometer	<ref. check<br="" idi-6,="" to="">ENGINE CONTROL MODULE (ECM), INSPECTION, Combi- nation Meter System.></ref.>
Fuel gauge does not operate.	(1) Fuel level sensor(2) Harness(3) Fuel gauge	<ref. check<br="" idi-6,="" to="">FUEL LEVEL SEN- SOR, INSPECTION, Combination Meter System.></ref.>
Water temperature gauge does not operate.	(1) Engine coolant temperature sensor(2) Harness(3) Water temperature gauge	<ref. check<br="" idi-7,="" to="">ENGINE COOLANT TEMPERATURE SEN- SOR, INSPECTION, Combination Meter System.></ref.>
Outside temperature indicator does not operate.	 (1) Ambient sensor (2) Harness (3) Combination meter (4) Auto A/C control unit 	<ref. check<br="" idi-8,="" to="">OUTSIDE TEMPERA- TURE INDICATOR, INSPECTION, Combi- nation Meter System.></ref.>

2. CHECK POWER SUPPLY AND GROUND CIRCUIT

1	Step	Check	Yes	No
-	-			
1	CHECK POWER SUPPLY FOR COMBINA-	Is the voltage more than 10 V?	Go to step 2.	Check the harness
	TION METER.			for open or short
	1) Remove the combination meter. <ref. th="" to<=""><th></th><th></th><th>between ignition</th></ref.>			between ignition
	IDI-10, REMOVAL, Combination Meter.>			switch and combi-
	Disconnect the combination meter harness			nation meter.
	connector.			
	Turn the ignition switch to ON.			
	Measure the voltage between combination			
	meter connector and chassis ground.			
	Connector & terminal			
	(i11) No. 7 (+) — Chassis ground (–):			
2	CHECK POWER SUPPLY FOR COMBINA-	Is the voltage more than 10 V?	Go to step 3.	Check the harness
	TION METER.			for open or short
	Measure the voltage between combination			between fuse and
	meter connector and chassis ground.			combination
	Connector & terminal			meter.
	(i11) No. 10 (+) — Chassis ground (–):			
3	CHECK GROUND CIRCUIT OF COMBINA-	Is the resistance less than 10	Except STi model:	Repair the wiring
	TION METER.	Ω?	Replace the com-	harness.
	 Turn the ignition switch to OFF. 		bination meter	
	Measure the resistance of harness		printed circuit. STi	
	between combination meter connector and		model: Replace	
	chassis ground.		the meter main	
	Connector & terminal		assembly.	
	(i11) No. 6 — Chassis ground:			

3. CHECK VEHICLE SPEED SENSOR

	Step	Check	Yes	No
1	 CHECK VEHICLE SPEED SENSOR. 1) Lift-up the vehicle and support it with rigid racks. 2) Remove the combination meter with harness connector. 3) Drive the vehicle at a speed greater than 20 km/h (12 MPH). Warning: Be careful not to get caught in the running wheels. 4) Measure the voltage between combination meter connector and chassis ground. <i>Connector & terminal (i11) No. 2 (+) — Chassis ground (-):</i>	Is the voltage less than 1 V ←→ more than 5 V?	Except STi model: Check the speed- ometer. <ref. to<br="">IDI-14, REMOVAL, Speedometer.> STi model: Replace the meter main assembly.</ref.>	Go to step 2.
2	 CHECK VEHICLE SPEED SENSOR POWER SUPPLY. 1) Turn the ignition switch to OFF. 2) Disconnect the vehicle speed sensor harness connector. 3) Turn the ignition switch to ON. 4) Measure the voltage between vehicle speed sensor connector and engine ground. <i>Connector & terminal</i> (B17) No. 3 (+) — Chassis ground (-): 	Is the voltage more than 10 V?	Go to step 3 .	Check the harness for open or short between ignition switch and vehicle speed sensor.

Combination Meter System

	Step	Check	Yes	No
3	 CHECK HARNESS BETWEEN VEHICLE SPEED SENSOR AND ENGINE GROUND. 1) Turn the ignition switch to OFF. 2) Measure the resistance between vehicle speed sensor connector and engine ground. <i>Connector & terminal</i> (B17) No. 2 — Chassis ground: 	Is the resistance less than 10 Ω ?	Go to step 4.	Repair the wiring harness.
4	 CHECK HARNESS BETWEEN VEHICLE SPEED SENSOR AND COMBINATION METER. 1) Disconnect the connector from combination meter. 2) Measure the resistance between vehicle speed sensor harness connector and combi- nation meter harness connector. Connector & terminal (B17) No. 1 — (i11) No. 2: 	Is the resistance less than 10 Ω ?	Replace the vehi- cle speed sensor.	Repair the wiring harness.

4. CHECK TRANSMISSION CONTROL MODULE (TCM)

1	Step	Check	Yes	No
1	 CHECK TCM SIGNAL. 1) Lift-up the vehicle and support it with rigid racks. 2) Drive the vehicle faster than 10 km/h (6 MPH). 	Is the voltage less than 1 V ←→ more than 5 V?	Go to step 2.	Check the TCM. <ref. to<br="">4AT(D)(diag)-2, Basic Diagnostic Procedure.></ref.>
	Warning: Be careful not to get caught in the running wheels.			
	 3) Measure the voltage between TCM connector and chassis ground. Connector & terminal Non-turbo model: (B55) No. 13 (+) — Chassis ground (-): Turbo model: (B56) No. 17 (+) — Chassis ground (-): 			
2	 CHECK HARNESS BETWEEN TCM AND COMBINATION METER. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from TCM and combination meter. 3) Measure the resistance between TCM har- ness connector and combination meter har- ness connector. Connector & terminal Non-turbo model: (B55) No. 13 — (i11) No. 2: Turbo model: (B56) No. 17 — (i11) No. 2: 	Is the resistance less than 10 Ω?	Check the speed meter. <ref. idi-<br="" to="">14, REMOVAL, Speedometer.></ref.>	Repair the wiring harness.

5. CHECK ENGINE CONTROL MODULE (ECM)

	Step	Check	Yes	No
1	CHECK ECM SIGNAL.	Is the voltage 0 $\leftarrow \rightarrow$ 14 V or	Go to step 2.	Check the ECM.
	1) Start the engine.	more?		<ref. th="" to<=""></ref.>
	Measure the voltage between ECM con-			EN(H4SO)(diag)-
	nector and engine ground.			2, Basic Diagnos-
	Connector & terminal			tic Procedure.> or
	Non-turbo model:			<ref. th="" to<=""></ref.>
	(B134) No. 10 (+) — Chassis ground (–):			EN(H4DOTC)(diag
	Turbo model:)-2, Basic Diag-
	(B137) No. 9 (+) — Chassis ground (–):			nostic Proce-
	STi model:			dure.> or <ref. th="" to<=""></ref.>
	(B134) No. 23 (+) — Chassis ground (–):			EN(STi) section.>
2	CHECK HARNESS BETWEEN COMBINA-	Is the resistance less than 10	Except STi model:	Repair the wiring
	TION METER AND ECM.	Ω?	Check the tachom-	harness.
	 Turn the ignition switch to OFF. 		eter. <ref. idi-<="" th="" to=""><th></th></ref.>	
	Disconnect the connector from ECM and		15, REMOVAL,	
	combination meter.		Tachometer.> STi	
	3) Measure the resistance between ECM har-		model: Replace	
	ness connector and combination meter har-		the meter main	
	ness connector.		assembly.	
	Connector & terminal			
	Non-turbo model:			
	(B134) No. 10 — (i11) No. 5:			
	Turbo model:			
	(B137) No. 9 — (i11) No. 5:			
	STi model:			
	(B134) No. 23 — (i11) No. 5:			

6. CHECK FUEL LEVEL SENSOR

	Step	Check	Yes	No
1	CHECK FUEL LEVEL SENSOR.	Is the resistance 0.5 to 2.5 Ω	Go to step 2.	Replace the fuel
	1) Remove the fuel level sensor. < Ref. to	(FULL) and 50 to 52 Ω		level sensor.
	FU(H4SO)-51, REMOVAL, Fuel Level Sen-	(EMPTY)?		
	sor.>, <ref. fu(h4dotc)-62,="" removal,<="" th="" to=""><th></th><th></th><th></th></ref.>			
	Fuel Level Sensor.> or <ref. fu(sti)="" sec-<="" th="" to=""><th></th><th></th><th></th></ref.>			
	tion.>			
	Measure the resistance between fuel level			
	sensor terminals when setting the float to			
	FULL and EMPTY position.			
	Terminals			
	No. 2 — No. 3:			
2	CHECK FUEL SUB LEVEL SENSOR.	Is the resistance 0.5 to 2.5 Ω	Go to step 3.	Replace the fuel
	 Remove the fuel sub level sensor. <ref. li="" to<=""> </ref.>	(FULL) and 42 to 44 Ω		sub level sensor.
	FU(H4SO)-52, REMOVAL, Fuel Sub Level	(EMPTY)?		
	Sensor.>, <ref. fu(h4dotc)-63,<="" th="" to=""><th></th><th></th><th></th></ref.>			
	REMOVAL, Fuel Sub Level Sensor.> or <ref.< th=""><th></th><th></th><th></th></ref.<>			
	to FU(STi) section.>			
	Measure the resistance between fuel sub			
	level sensor terminals when setting the float to			
1	FULL and EMPTY position.			
1	Terminals			
	No. 1 — No. 2:			

Combination Meter System

	Step	Check	Yes	No
3	 CHECK HARNESS BETWEEN FUEL SUB LEVEL SENSOR AND COMBINATION METER. 1) Disconnect the connector from combination meter. 2) Measure the resistance between fuel sub level sensor harness connector terminal and combination meter harness connector termi- nal. Connector & terminal (R59) No. 1 — (i12) No. 2: 	Is the resistance less than 10 Ω ?	Go to step 4.	Repair the wiring harness.
4	CHECK HARNESS BETWEEN FUEL LEVEL SENSOR AND FUEL SUB LEVEL SENSOR. Measure the resistance between fuel level sen- sor harness connector terminal and fuel sub level sensor harness connector terminal. <i>Connector & terminal</i> (R58) No. 3 — (R59) No. 2:		Go to step 5.	Repair the wiring harness.
5	CHECK FUEL LEVEL SENSOR GROUND CIRCUIT. Measure the resistance between fuel level sen- sor harness connector terminal and chassis ground. Connector & terminal (R58) No. 2 — Chassis ground:	Is the resistance less than 10 Ω ?	Except STi model: Check the fuel gauge. <ref. to<br="">IDI-16, REMOVAL, Fuel Gauge.> STi model: Replace the meter main assembly.</ref.>	Repair the wiring harness.

7. CHECK ENGINE COOLANT TEMPERATURE SENSOR

	Step	Check	Yes	No
1	CHECK ENGINE COOLANT TEMPERATURE SENSOR. Check the engine coolant temperature sensor. <ref. basic="" diagnostic<br="" en(h4so)(diag)-2,="" to="">Procedure.> or <ref. en(h4dotc)(diag)-2,<br="" to="">Basic Diagnostic Procedure.> or <ref. to<br="">EN(STi) section.></ref.></ref.></ref.>	Is the engine coolant tempera- ture sensor OK?	Go to step 2.	Replace the engine coolant temperature sen- sor.
2	 CHECK HARNESS BETWEEN ENGINE COOLANT TEMPERATURE SENSOR AND COMBINATION METER. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from engine coolant temperature sensor and combination meter. 3) Measure the resistance between engine coolant temperature sensor harness connector and combination meter harness connector. Connector & terminal (E8) No. 3 — (i12) No. 9: 	Is the resistance less than 10 Ω?	Except STi model: Check the water temperature gauge. <ref. to<br="">IDI-17, REMOVAL, Water Temperature Gauge.> STi model: Replace the meter main assembly.</ref.>	Repair the wiring harness.

8. CHECK OUTSIDE TEMPERATURE INDICATOR

	Step	Check	Yes	No
1	CHECK AIR CONDITIONER TYPE.	Is the vehicle equipped with auto A/C?	Go to step 6.	Go to step 2.
2	 CHECK POWER SUPPLY FOR AMBIENT SENSOR. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from combination meter. 3) Turn the ignition switch to ON. 4) Measure the voltage between combination meter terminal and chassis ground. Connector & terminal (i10) No. 11 (+) — Chassis ground (-): 	Is the voltage more than 4 V?	Go to step 3 .	Except STi model: Replace the com- bination meter printed circuit. STi model: Replace the meter main assembly.
3	 CHECK HARNESS BETWEEN AMBIENT SENSOR AND COMBINATION METER. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from ambient sensor. 3) Measure the resistance between ambient sensor harness connector terminal and combi- nation meter harness connector terminal. Connector & terminal (F78) No. 1 — (i10) No. 11: 	Is the resistance less than 10 Ω ?	Go to step 4.	Repair the wiring harness.
	(F78) No. 2 — (i10) No. 8:			
4	 CHECK AMBIENT SENSOR. 1) Remove the ambient sensor. 2) Check the ambient sensor. <ref. ambient="" idi-18,="" inspection,="" sensor.="" to=""></ref.> 	Is the ambient sensor OK?	Go to step 5.	Replace the ambi- ent sensor.
5	 CHECK OUTSIDE TEMPERATURE INDICATOR. 1) Connect the combination meter harness connector. 2) Connect a resistor (2.2 kΩ) between terminals of ambient sensor harness connector. 3) Turn the ignition switch to ON and check the outside temperature indicator display. 	Is the outside temperature indi- cator indicating 25°C (77°F)?		Except STi model: Replace the com- bination meter printed circuit. STi model: Replace the meter main assembly.
6	 CHECK POWER SUPPLY FOR COMBINA- TION METER. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from auto A/C control module. 3) Turn the ignition switch to ON. 4) Measure the voltage between auto A/C control module terminal and chassis ground. <i>Connector & terminal</i> (B282) No. 11 (+) — chassis ground (-): 	Is the voltage more than 4 V?	Go to step 7.	Replace the auto A/C control mod- ule.
7	 CHECK HARNESS BETWEEN AUTO A/C CONTROL MODULE AND COMBINATION METER. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from combination meter. 3) Measure the resistance between auto A/C control module harness connector terminal and combination meter harness connector ter- minal. Connector & terminal (B282) No. 11 — (i10) No. 12: 	Is the resistance less than 10 Ω?	Go to step 8.	Repair the wiring harness.

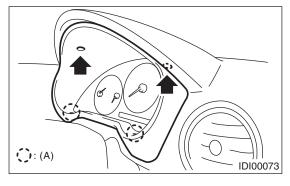
Combination Meter System

	Step	Check	Yes	No
8	 CHECK POWER SUPPLY FOR AMBIENT SENSOR. 1) Turn the ignition switch to ON. 2) Measure the voltage between auto A/C control module terminal and chassis ground. Connector & terminal (B283) No. 9 (+) — chassis ground (-): 	Is the voltage more than 4 V?	Go to step 9 .	Replace the auto A/C control mod- ule.
9	 CHECK HARNESS BETWEEN AMBIENT SENSOR AND COMBINATION METER. 1) Turn the ignition switch to OFF. 2) Disconnect the connector from ambient sensor. 3) Measure the resistance between ambient sensor harness connector terminal, combina- tion meter harness connector terminal and auto A/C control module harness connector terminal. Connector & terminal (F78) No. 1 — (i10) No. 11: (F78) No. 1 — (B283) No. 9: (F78) No. 2 — (i10) No. 8: 	Is the resistance less than 10 Ω?	Go to step 10.	Repair the wiring harness.
10	 CHECK AMBIENT SENSOR. 1) Remove the ambient sensor. 2) Check the ambient sensor. <ref. ambient="" idi-18,="" inspection,="" sensor.="" to=""></ref.> 	Is the ambient sensor OK?	Go to step 11.	Replace the ambi- ent sensor.
11	 CHECK OUTSIDE TEMPERATURE INDICATOR. 1) Connect the combination meter and auto A/C control module harness connector. 2) Connect a resistor (2.2 kΩ) between terminals of ambient sensor harness connector. 3) Turn the ignition switch to ON and check the outside temperature indicator display. 	Is the outside temperature indi- cator indicating 25°C (77°F)?	Repair the poor contact of ambient sensor harness connector.	Except STi model: Replace the com- bination meter printed circuit. STi model: Replace the meter main assembly.

3. Combination Meter

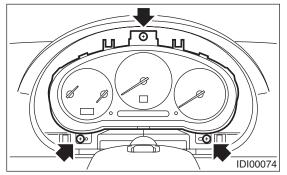
A: REMOVAL

- 1) Disconnect the ground cable from battery.
- 2) Set the tilt steering at lowest position.
- 3) Remove the screws and detach the meter visor.



(A) Hook

4) Remove the screws of combination meter and pull out the meter toward you.



5) Disconnect the connector in the upper area of combination meter to remove the meter.

CAUTION:

• Be careful not to damage the meter or instrument panel.

• Pay particular attention to avoid damaging the meter glass.

B: INSTALLATION

Install in the reverse order of removal.

CAUTION:

- Make sure that electrical connector is connected securely.
- Make sure that each meter operates normally.

C: DISASSEMBLY

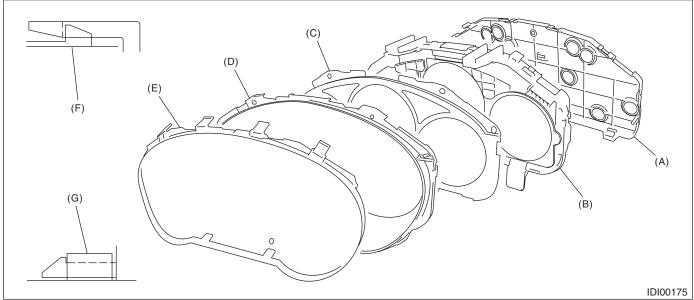
1. EXCEPT STI MODEL

CAUTION:

Use gloves to avoid damage and getting fingerprints on the glass surface and meter surfaces.

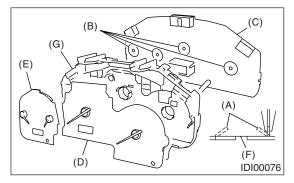
1) Disengage the claw (F) to remove the inner case (B) from back cover (A).

2) Disengage the claw (G) to remove the meter glass (E), reflector (D), and window plate (C) from inner case (B).



3) Pull up the claw (A) in portion (B) of combination meter printed circuit (C) with combination pliers. Push out the speedometer and tachometer assembly (D) and fuel gauge and water temperature gauge assembly (E) using hole (F).

4) Pull up the claw in center of combination meter printed circuit (C), and remove the printed circuit from case (G).

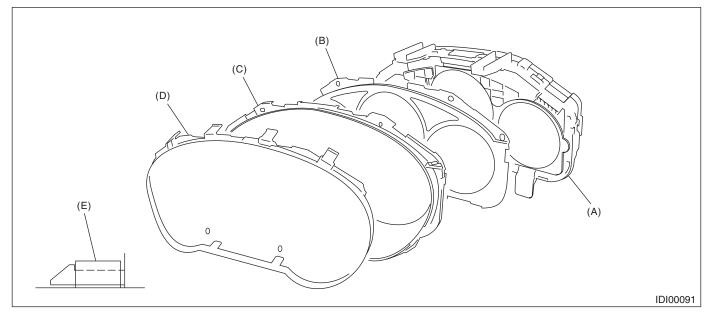


2. STi MODEL

CAUTION:

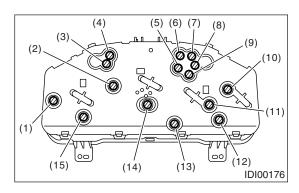
- Use gloves to avoid damage and getting fingerprints on the glass surface and meter surfaces.
 Do not disassemble the meter main assembly for STi model.

Disengage the claw (E) to remove the meter glass (D), reflector (C), and window plate (B) from meter main assembly (A).



3. BULB REPLACEMENT

• EXCEPT STI MODEL



- (1) Tachometer (Non-turbo model) or speedometer (Turbo model)
- (2) Speedometer and tachometer
- (3) Turn signal indicator light (RH)
- (4) HI-beam indicator light
- (5) Speedometer (Non-turbo model) or tachometer (Turbo model)
- (6) Cruise set indicator light
- (7) Cruise indicator light
- (8) Turn signal indicator light (LH)
- (9) Brake fluid and parking brake warning light
- (10) Fuel gauge
- (11) Temperature gauge
- (12) LCD (Outside temperature indicator)
- (13) Charge warning light
- (14) LCD (Odometer and tripmeter) (Non-turbo model)
- (15) LCD (Odometer and tripmeter) (Turbo model)

• STi MODEL

Replace the meter main assembly of STi model if it does not function properly, because the warning light and indicator light are made from LED.

D: ASSEMBLY

Assemble in the reverse order of disassembly.

4. Speedometer

A: REMOVAL

NOTE:

Main meter assembly of STi model cannot be disassembled. Do not remove or inspect the speedometer as a single unit.

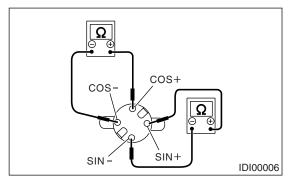
Disassemble the combination meter, and then remove the speedometer and tachometer assembly. <Ref. to IDI-11, DISASSEMBLY, Combination Meter.>

B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

Measure the speedometer resistance.



Terminal	Resistance
Terminals SIN+ and SIN-	200±8 Ω
Terminals COS+ and COS-	200±8 Ω

If NG, replace the speedometer and tachometer assembly.

5. Tachometer

A: REMOVAL

NOTE:

Main meter assembly of STi model cannot be disassembled. Do not remove or inspect the tachometer as a single unit.

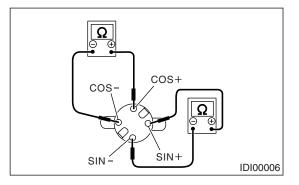
Disassemble the combination meter, and then remove the speedometer and tachometer assembly. <Ref. to IDI-11, DISASSEMBLY, Combination Meter.>

B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

Measure the tachometer resistance.



Terminal	Resistance
Terminals SIN+ and SIN-	200±8 Ω
Terminals COS+ and COS-	200±8 Ω

If NG, replace the speedometer and tachometer assembly.

6. Fuel Gauge

A: REMOVAL

NOTE:

Main meter assembly of STi model cannot be disassembled. Do not remove or inspect the fuel gauge as a single unit.

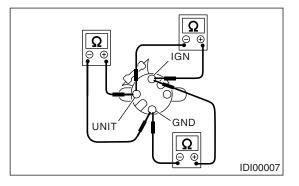
Disassemble the combination meter, and then remove the water temperature gauge and fuel gauge assembly. <Ref. to IDI-11, DISASSEMBLY, Combination Meter.>

B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

Measure the fuel gauge resistance.



Terminal	Resistance
Terminals IGN and GND	170±10 Ω
Terminals IGN and UNIT	35±10 Ω
Terminals UNIT and GND	136±10 Ω

If NG, replace the water temperature gauge and fuel gauge assembly.

7. Water Temperature Gauge

A: REMOVAL

NOTE:

Main meter assembly of STi model cannot be disassembled. Do not remove or inspect the water temperature gauge as a single unit.

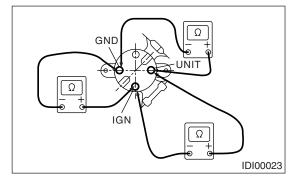
Disassemble the combination meter, and then remove the tachometer and water temperature gauge and fuel gauge assembly. <Ref. to IDI-11, DISASSEMBLY, Combination Meter.>

B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

Measure the water temperature gauge resistance.



Terminal	Resistance
Terminals IGN and GND	208±10 Ω
Terminals IGN and UNIT	56±10 Ω
Terminals UNIT and GND	264±10 Ω

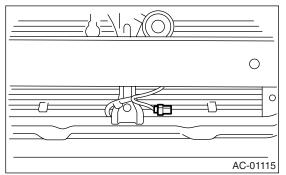
If NG, replace the water temperature gauge and fuel gauge assembly.

8. Ambient Sensor

A: REMOVAL

Disconnect the ground cable from battery.
 Disconnect the ambient sensor connector.

3) Remove the ambient sensor from radiator lower panel.

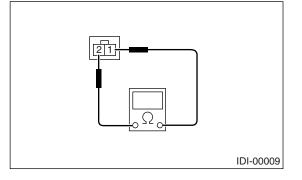


B: INSTALLATION

Install in the reverse order of removal.

C: INSPECTION

Measure the ambient sensor resistance.



Terminal	Resistance
1 and 2	2.2 kΩ/25°C (77°F)

If NG, replace the ambient sensor.