

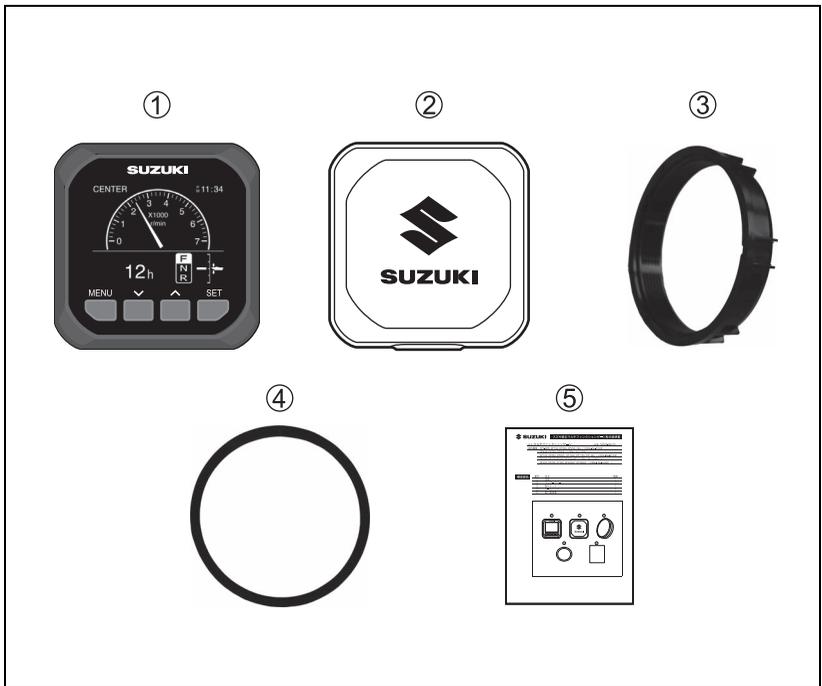
Description: **Multi-Function Gauge**

Part Number: 34200-96L2*

Applications: ELECTRIC FUEL INJECTION MODEL

CONTENTS

Ref.	Description	Q'ty
①	GAUGE ASSEMBLY	1
②	WEATHER COVER	1
③	MOUNTING NUT	1
④	SEAL RING	1
⑤	OPERATION MANUAL	1



INTRO- DUCTION

Thank you very much for purchasing a SUZUKI Genuine Multi-Function Gauge.

[Request to Customers]

- Store this operation manual in a place where it will not be lost or damaged. Always carry this manual with you when the operation is performed and keep this manual close at hand so that you can read it anytime you need it.
- If you transfer this product, give this operation manual to the new owner.

IMPORTANT

▲ **WARNING** / ▲ **CAUTION** / **NOTICE** / **NOTE**

Please read this manual and follow its instructions carefully. To emphasize special information, the symbol ▲ and the words **WARNING**, **CAUTION**, **NOTICE** and **NOTE** have special meanings. These special meanings are applied except when laws or regulations require the signal words to be used with different meanings. Pay special attention to the messages highlighted by these signal words.

▲ **WARNING**

Indicates a potential hazard that could result in death or serious injury.

▲ **CAUTION**

Indicates a potential hazard that could result in minor or moderate injury.

NOTICE

Indicates a potential hazard that could result in damage to the motor or boat.

NOTE:

Indicates special information to make maintenance easier or instructions clearer.

- This manual shall not be reproduced, whether in part or in full, without permission.
- Please note that some part of the product may differ from the contents in the instructions due to specification changes etc.
- If you have any question, find a problem or have a missing part, contact your authorized SUZUKI Marine Dealer where you purchased this product.

**SAFETY
PRE-
CAUT-
IONS**

In “Safety Precautions”, important precautions are described to prevent danger to the operator of this gauge or other persons, or damage to the gauge or boat.

Precautions for Handling The Gauge Assembly

▲ WARNING

Do not disassemble or modify the gauge, otherwise you may get an electric shock, or even the cause of a fire or injury. Ask for repairs from the authorized SUZUKI Marine Dealer.

▲ CAUTION

- **Use navigation information, such as Distance and Fuel Consumption indicated on this gauge as a general reference only.
When exact navigation information is required, use nautical charts and dedicated navigation instruments.**
- **Do not operate this gauge while steering the boat or you might cause a maritime accident.
When using this gauge while the boat is stopped, check around the boat to be sure it is safe.**
- **Do not use the power source other than the specified one.
Doing so might cause heating, inflammation or failure.**

NOTICE

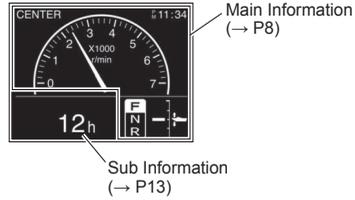
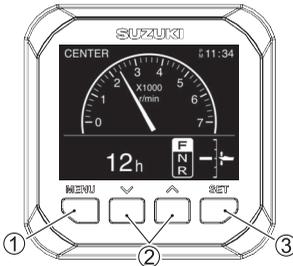
- **Before installation, take care not to splash water on the back side of the gauge.
After installation, it is still only water resistant and not completely waterproof if completely submerged in water.
Take care not to dip this gauge in water.**
- **Do not to apply excessive force to the display face for it may be damaged if it is exposed to such force.**
- **To clean the display face use a piece of soft cloth and lightly wiping the display face.**

Contents

	Page
1. Function	6
2. Gauge Screen	7 - 14
2-1 Main Information	8 - 12
(1) Engine Speed Display Screen	8
(2) Speed / Fuel Display Screen	9
(3) Fuel Display Screen	10
(4) All Items Display Screen	11
(5) Troll Mode	12
2-2 Sub Information	13 - 14
3. Troll Mode Operation	15 - 17
4. Menu Screen Operation	18
4-1 Illumination	19
4-2 Diagnosis	20 - 22
4-3 Display	23 - 24
4-4 Device List	25
4-5 Initial Setting	26 - 28
(1) Unit	27
(2) Time	28
5. Alarm	29 - 31
6. Gauge Screen List	32
7. Specifications	33

1. Function

Locations



Function of Each Button

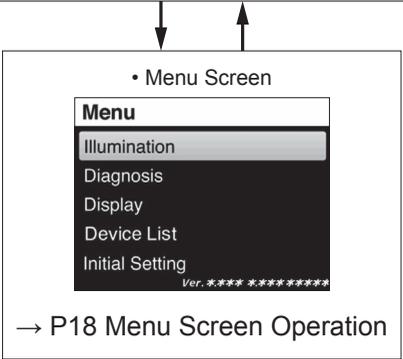
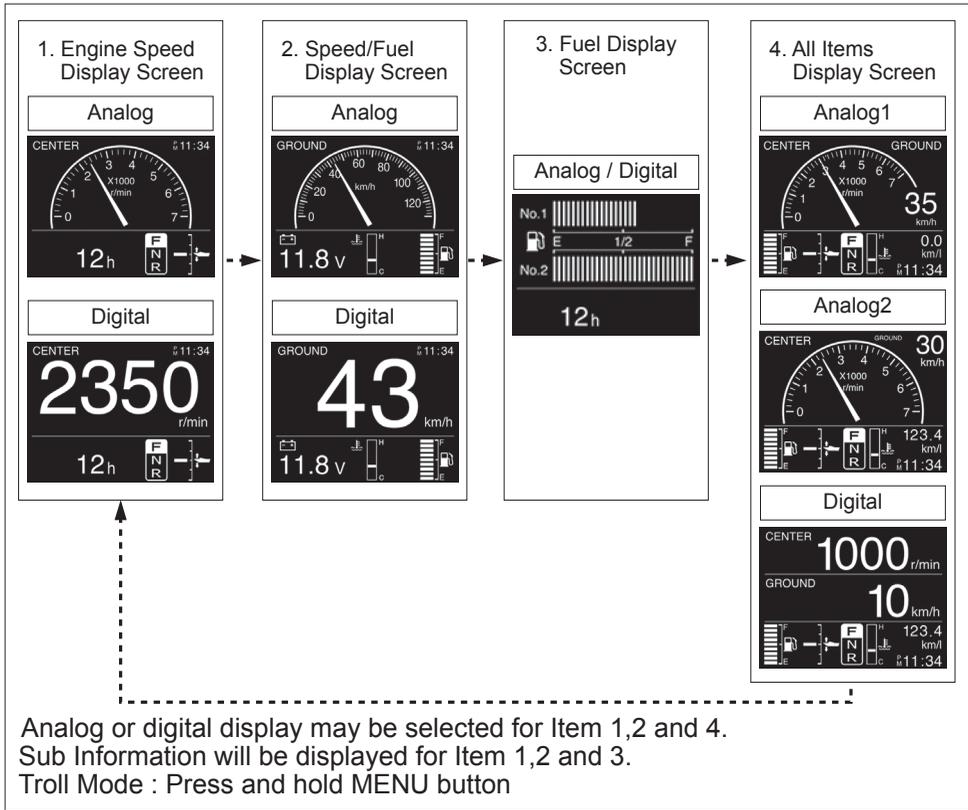
		• Gauge screen	• Menu screen
①	MENU button	a) Change to the menu screen b) Press and hold button (→ P15 Troll Mode)	Change to the previous / Gauge screen
②	∨ ^ buttons	a) Change to Sub Information b) Press and hold either of the buttons (→ P14 Reset the display value) c) *Press and hold both buttons (→ P21 Data Output)	Move the cursor
③	SET button	a) Change to Main Information b) Press and hold button (→ P19 Day or Night)	Proceed / Confirm

*All items Display Screen only.

2. Gauge Screen

- The following figures show the display screen and the operation flow.

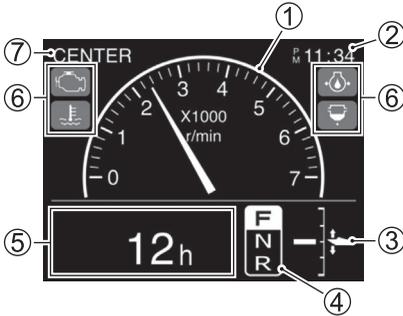
• MENU button operation	:	→
• SET button operation	:	→
• ∇ \blacktriangle buttons operation	:	∇ \blacktriangle



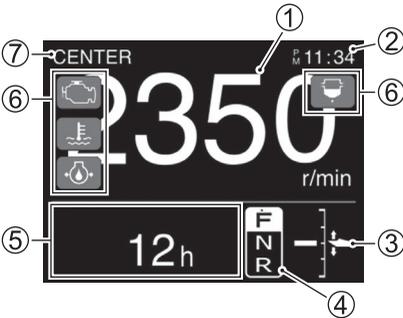
2-1. Main Information

(1) Engine Speed Display Screen

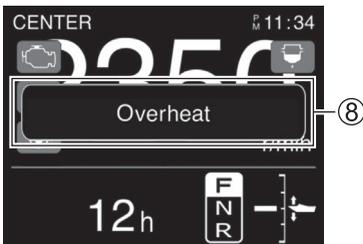
[Analog]



[Digital]



[Caution message]



• Display information

- ① Engine speed
- ② Clock (→ P26 Initial Setting)
- ③ Trim position

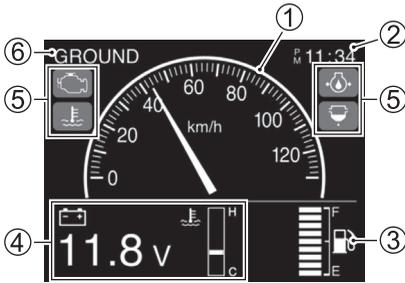
④ Shift position		Forward	Neutral	Reverse
Shift Position Sensor	with	F N R	F N R	F N R
	without		N	

- ⑤ Sub Information (→ P13 Sub Information) (→ P26 Initial Setting)
- ⑥ Caution alarm icon (→ P29 Alarm)
- ⑦ Engine position

- ⑧ Caution message (→ P29 Alarm)

(2) Speed / Fuel Display Screen

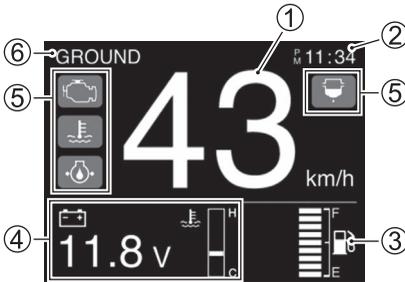
[Analog]



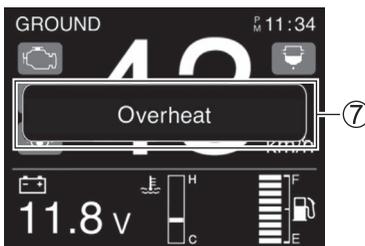
• Display information

- ① Speed (→ P26 Initial Setting)
- ② Clock (→ P26 Initial Setting)
- ③ Remaining fuel volume
Indicates the total remaining fuel volume of the connected tank.
- ④ Sub Information
(→ P13 Sub Information)
(→ P26 Initial Setting)
- ⑤ Caution alarm icon
(→ P29 Alarm)
- ⑥ a) GROUND: Ground speed
b) WATER: Water speed

[Digital]



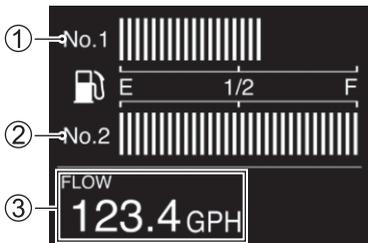
[Caution message]



- ⑦ Caution message
(→ P29 Alarm)

(3) Fuel Display Screen

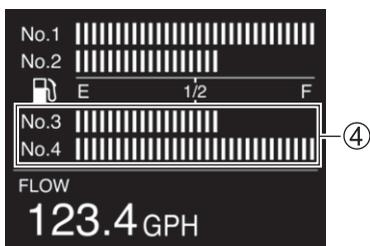
[Single engine]



• Display information

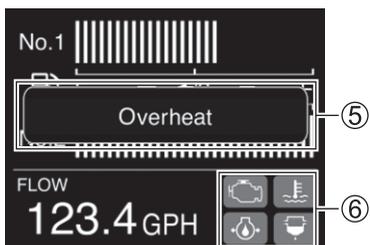
- ① Remaining fuel volume (Tank 1)
- ② Remaining fuel volume (Tank 2)
- ③ Sub Information
(→ P13 Sub Information)
(→ P26 Initial Setting)

[Multiple engine]



- ④ Remaining fuel volume (Tank 3)
Remaining fuel volume (Tank 4)
*In case of single engine, you can set up dual tank.
In case of multiple engines, you can set up quadruple tank.

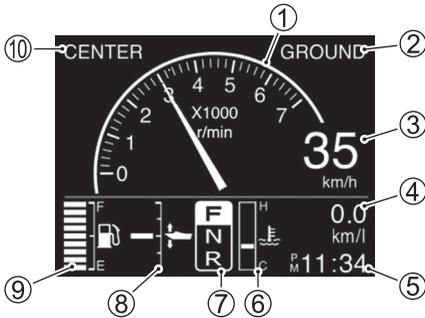
[Caution message]



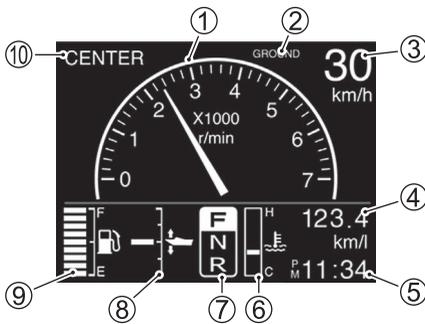
- ⑤ Caution message
(→ P29 Alarm)
- ⑥ Caution alarm icon
(→ P29 Alarm)

(4) All Items Display Screen

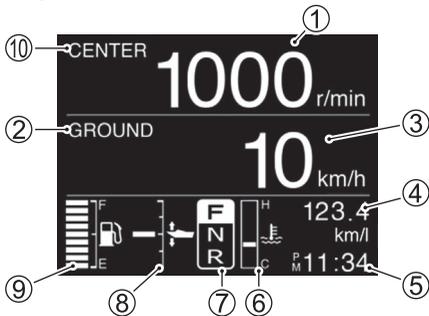
[Analog1]



[Analog2]



[Digital]



[Caution message]



• Display information

- ① Engine speed
- ② a) GROUND: Ground speed
b) WATER: Water speed
- ③ Speed (→ P26 Initial Setting)
- ④ Total instantaneous fuel flow (→ P26 Initial Setting)
- ⑤ Clock (→ P26 Initial Setting)
- ⑥ Cooling water temperature

⑦ Shift position		Forward	Neutral	Reverse
Shift Position Sensor	with	F N R	F N R	F N R
	without		N	

- ⑧ Trim position
- ⑨ Remaining fuel volume
Indicates the total remaining fuel volume of the connected tank.
- ⑩ Engine position

- ⑪ Caution message (→ P29 Alarm)
- ⑫ Caution alarm icon (→ P29 Alarm)

(5) Troll Mode

When the troll mode of the outboard motor is set to ON, the display of the "Engine speed display" and "All items display" change to an exclusive troll mode digital display screen.

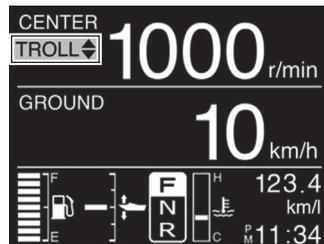
On the gauge screen, "TROLL" with a diamond symbol will be indicated.

→ P15 Troll Mode Operation.

- Engine Speed Display Screen



- All Items Display Screen



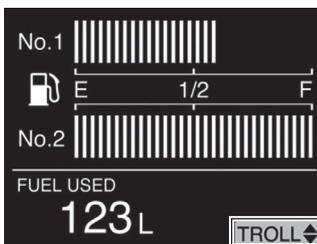
- Speed / Fuel Display Screen [Analog]



- [Digital]



- Fuel Display Screen



2-2. Sub Information

• The following figures below show the display screens and the operation flow. (→ P26 Initial Setting)

- MENU button operation : 
- SET button operation : 
-   buttons operation :  



- The detail is as follows.

Types of Sub Information		
Display screen	Item	Description
	Total operating hours	The total operating hours from brand-new engine are displayed.
	Trip time	This screen indicates the trip time since it was reset last time.
	Trip distance	This screen indicates the trip distance since it was reset last time. *Separate GPS module or water speed sensor is required.
	Battery voltage / Cooling water temperature	The cooling water temperature and battery voltage are displayed.
	Instantaneous fuel flow	This screen indicates the instantaneous fuel flow of each outboard motor.
	Total instantaneous fuel flow	This screen indicates the instantaneous total fuel flow of all outboard motor.
	Instantaneous fuel economy	This screen indicates the total instantaneous fuel economy of all outboard motors installed. *Separate GPS module or water speed sensor is required.
	Average fuel economy	This screen indicates the total average fuel economy of all outboard motors installed. *Separate GPS module or water speed sensor is required.
	Total fuel used	This screen indicates the total fuel used of all outboard motors installed.
	Latitude / Longitude	The latitude and longitude of current boat position are displayed. *Separate GPS module is necessary.

- Reset the display value

The display value of the Trip time, Trip distance, Average fuel economy and total fuel used can be reset by press and hold the  or  button until a buzzer sound is heard, except menu screen.

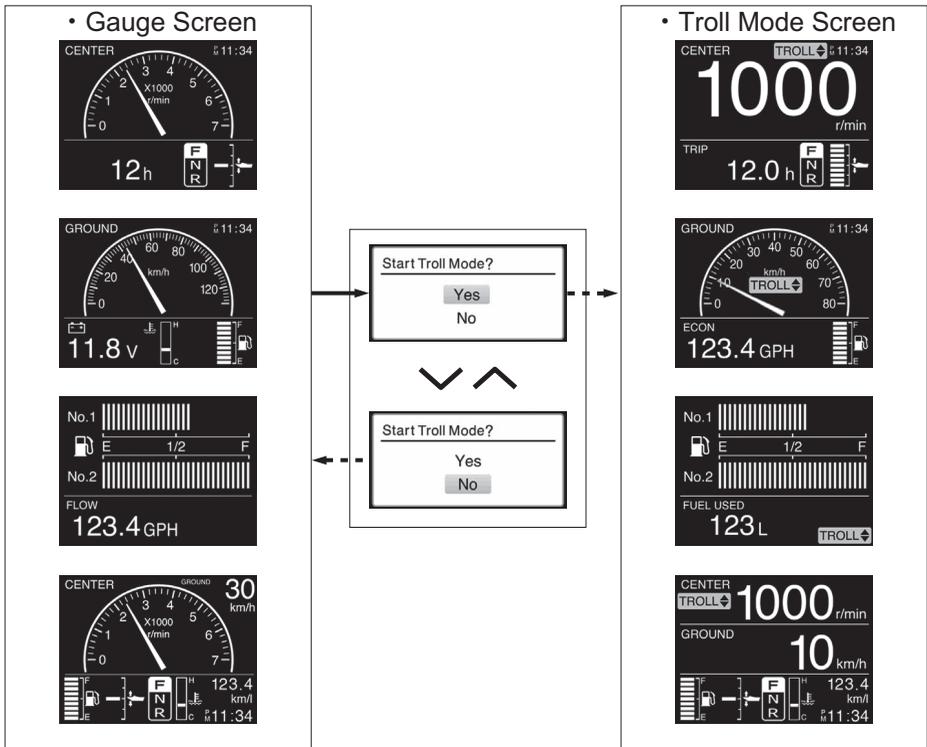
(Display values other than those displayed will also be reset at the same time.)

3. Troll Mode Operation

How to use the Troll.

• MENU button operation	: →
• SET button operation	: - - - →
• ∨ ∨ buttons operation	: ∨ ∨

- Shift into forward or reverse gear and make sure that the throttle is fully closed (in-gear idle speed).
- Select Gauge Screen then, press and hold the MENU button.
- Confirmation screen to draw your attention will be displayed.
- Select Yes and push SET button. Then, one beep sounds. The beep sound tells you that troll mode is activated. The display switches to an exclusive troll mode and “TROLL ⬆” is displayed on the screen.
- When gauge screen is displayed “Engine Speed Screen” and “All Items Screen”, Engine speed switches analog to digital display.



By operating ∇ or \blacktriangle buttons, you can set and maintain a desired trolling speed in a range from in-gear idle speed up to upper limit r/min.

NOTE:

- This system will not function properly until engine is at normal operating temperature.
- The troll mode system will not operate if the button is pressed when the remote control lever is in the neutral position.
- For the multiple engines:
If the throttle of all engines are fully closed and one of engines is in-gear, it shifts to the troll mode when the button is pressed.
- For the multiple engines:
In-gear idle speed of all engines is controlled at the same time.

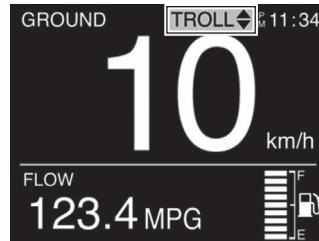
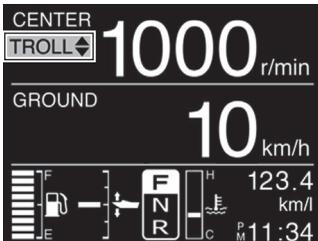


• This icon appears on the screen of the Multi-Function Gauge that was operated to get into the troll mode, and shows operatable Multi-Function Gauge of the troll mode.

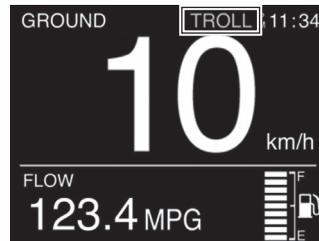
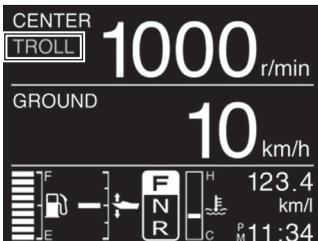


• This icon appears on the screen of the Multi-Function Gauge(s) that did not be operated to get into the troll mode.
This icon appears on the screen of the Multi-Function Gauge(s) that cannot operate the troll mode.

Example of the troll mode display on the Multi-Function Gauge that can operate the troll mode.



Example of the troll mode display on the Multi-Function that cannot operate the troll mode.



Adjusting trolling speed:

- When pressing the “” button, one short beep sounds and the engine speed increases by 50 r/min.
- When pressing the “” button, one short beep sounds and the engine speed decreases by 50 r/min.

NOTE:

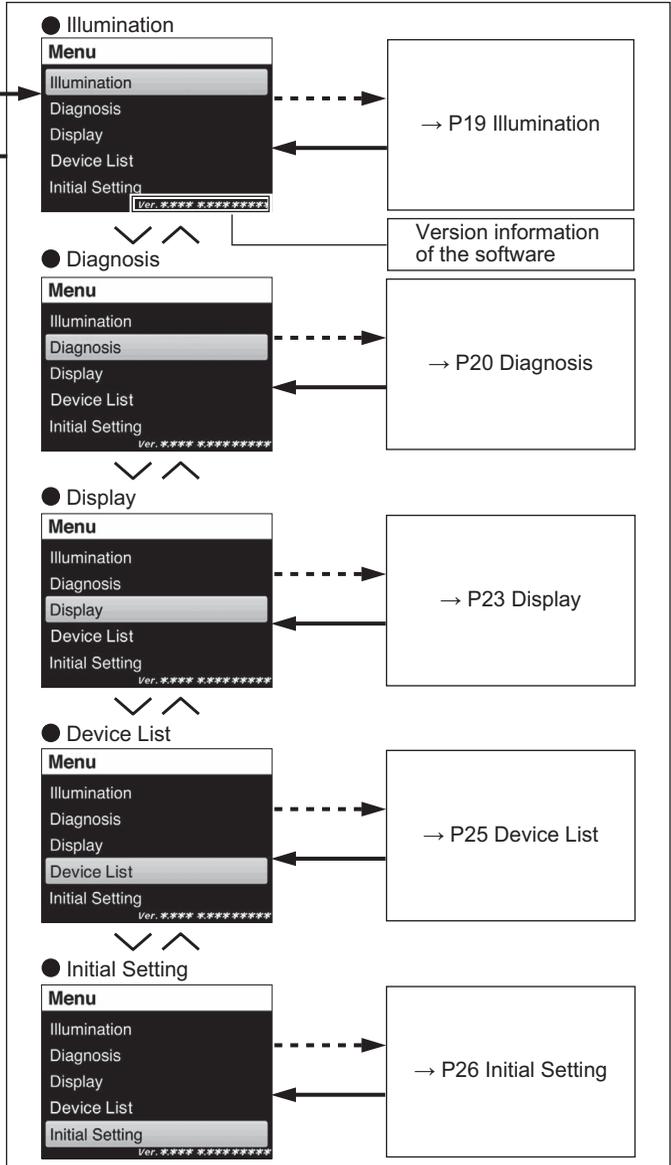
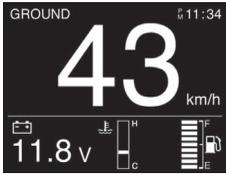
- *When pressing the “” button at the upper limit of trolling speed of all engines, the engine speed will not change and three long beeps will sound.*
- *When pressing the “” button at the lower limit of trolling speed of all engines, the engine speed will not change and three long beeps will sound.*
- *For the multiple engines:
If the switch is operated when one engine has reached the adjustment limit of trolling speed, while any other engine has not, one short beep sounds and the rpm of engine which has not reached the adjustment limit changes.*
- *Shift operation and throttle control remain operational, even in troll mode.*

Cancelling the troll mode:

- The troll mode can be cancelled by shifting the all remote control levers to the neutral position, or by increasing the engine speed to 3000 r/min or more.
- In both cases, two short beeps sound when cancelling the troll mode.

4. Menu Screen Operation

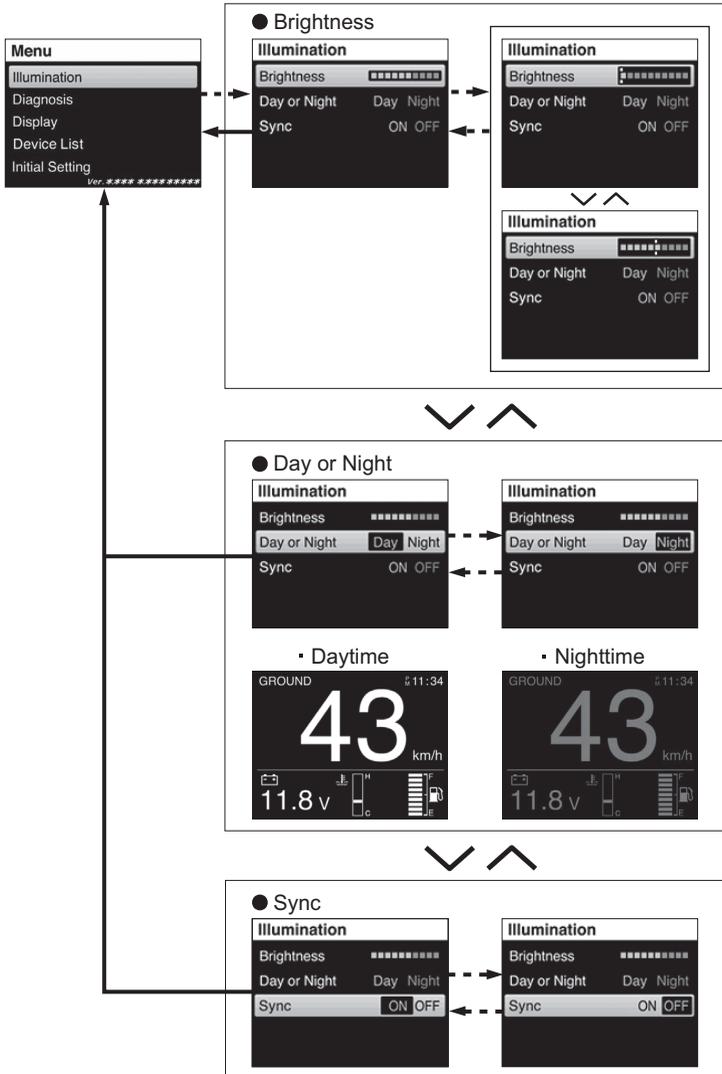
- By pressing the MENU button the display will change to the MENU screen.



4-1. Illumination

- Configures the illumination setting and day / night setting.

• MENU button operation	: →
• SET button operation	: - - - →
• ∨ ∨ buttons operation	: ∨ ∨



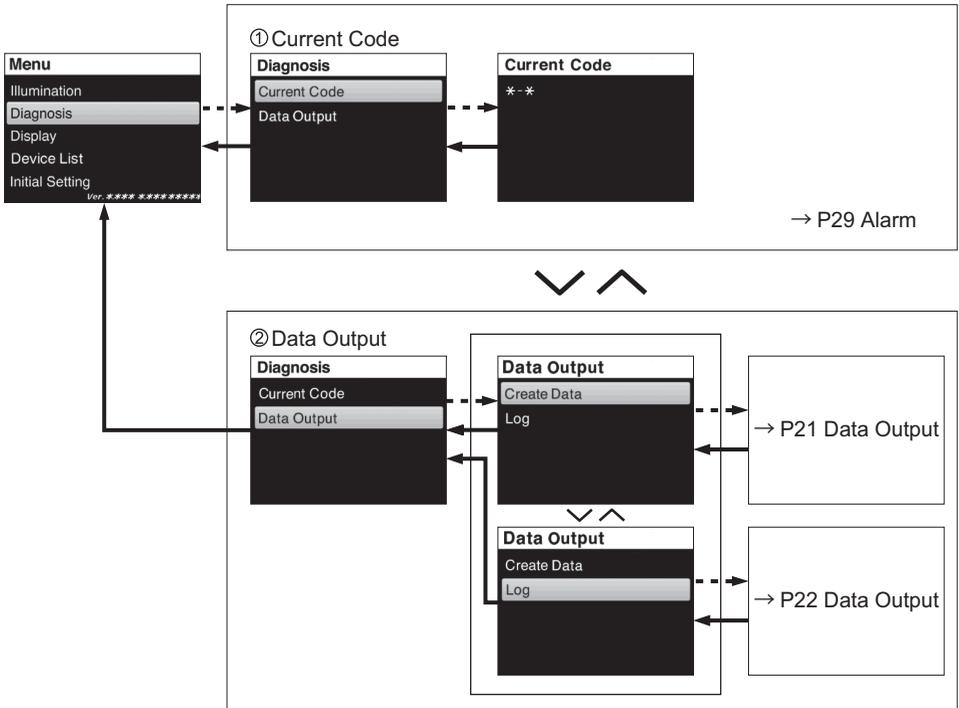
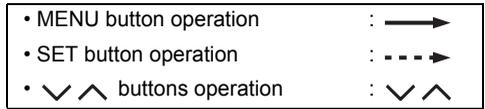
- The Brightness can be adjusted in 10 steps.

- You can select “Daytime display” or “Nighttime display” by press and hold the SET button, except for menu screen.

- You can Synchronize the brightness setting and the Day or Night setting of gauges when the Sync is ON.

4-2. Diagnosis

- ① Current Code
Display the activated alarm.



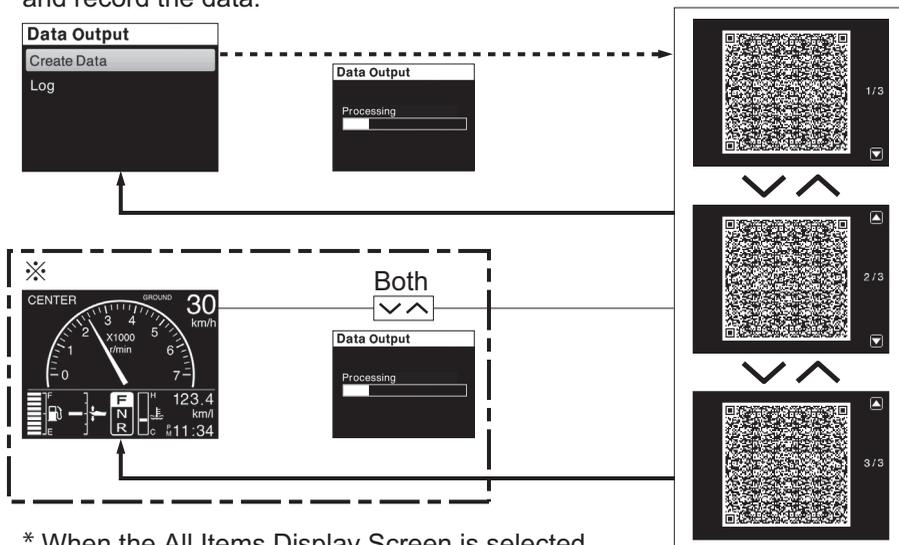
② Data Output

- Acquire the engine information, then record and readout the data with SUZUKI Diagnostic System Mobile.

- MENU button operation : 
- SET button operation : 
- ∨ ∧ buttons operation : 

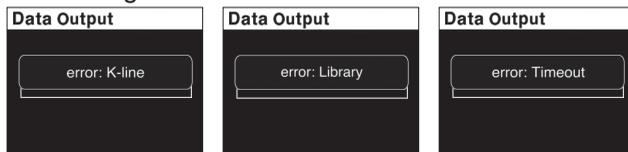
• Create Data

Acquire the engine information, then, convert to QR code and record the data.



* When the All Items Display Screen is selected, you can create the QR code by press and hold both ∨ ∧ buttons simultaneously.

Processing Error

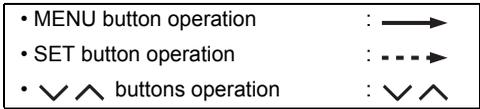


Caution message (→ P29 Alarm)

If your smart phone could not scan the QR code(s), please try the followings.

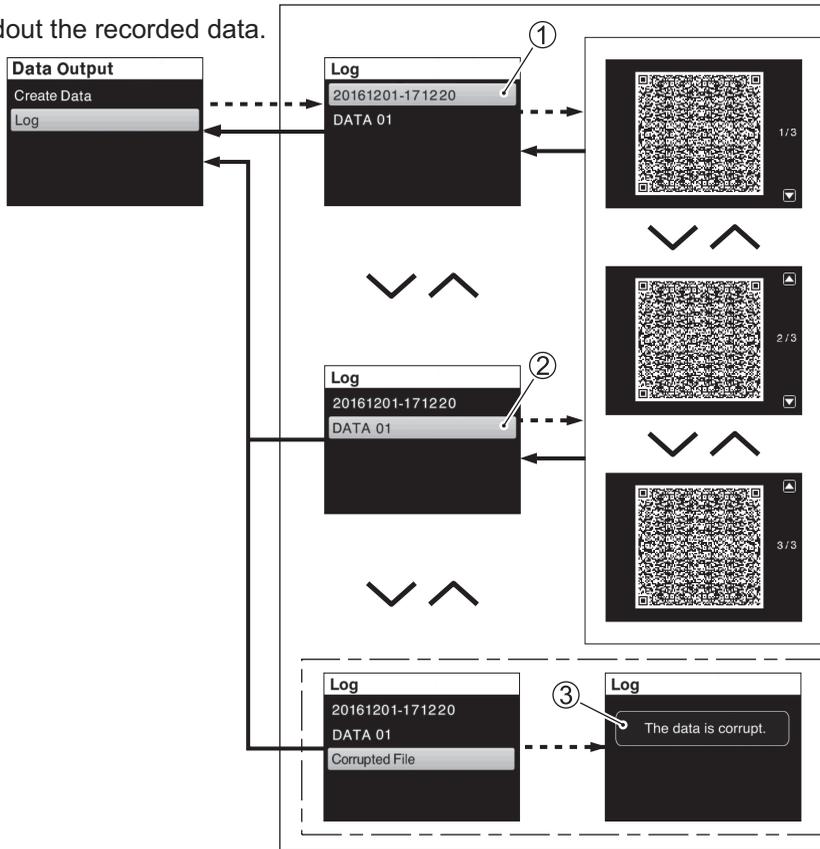
- Adjust the Brightness of the Multi-function gauge.
- Shut off the direct sunlight from the Multi-function gauge.

[QR code is registered trademark of DENSO WAVE INCORPORATED.]



• Log

Readout the recorded data.



- ① Display the time of the data acquired from the GPS module.
- ② Display "DATA **" when could not acquire the time of the data from the GPS module.
- ③ Caution message (→ P29 Alarm)

*Be able to store 15 set QR codes at maximum.
The oldest data shall be deleted automatically one by one.

4-3. Display

- Configures the settings of the Gauge screen.

Selection Item

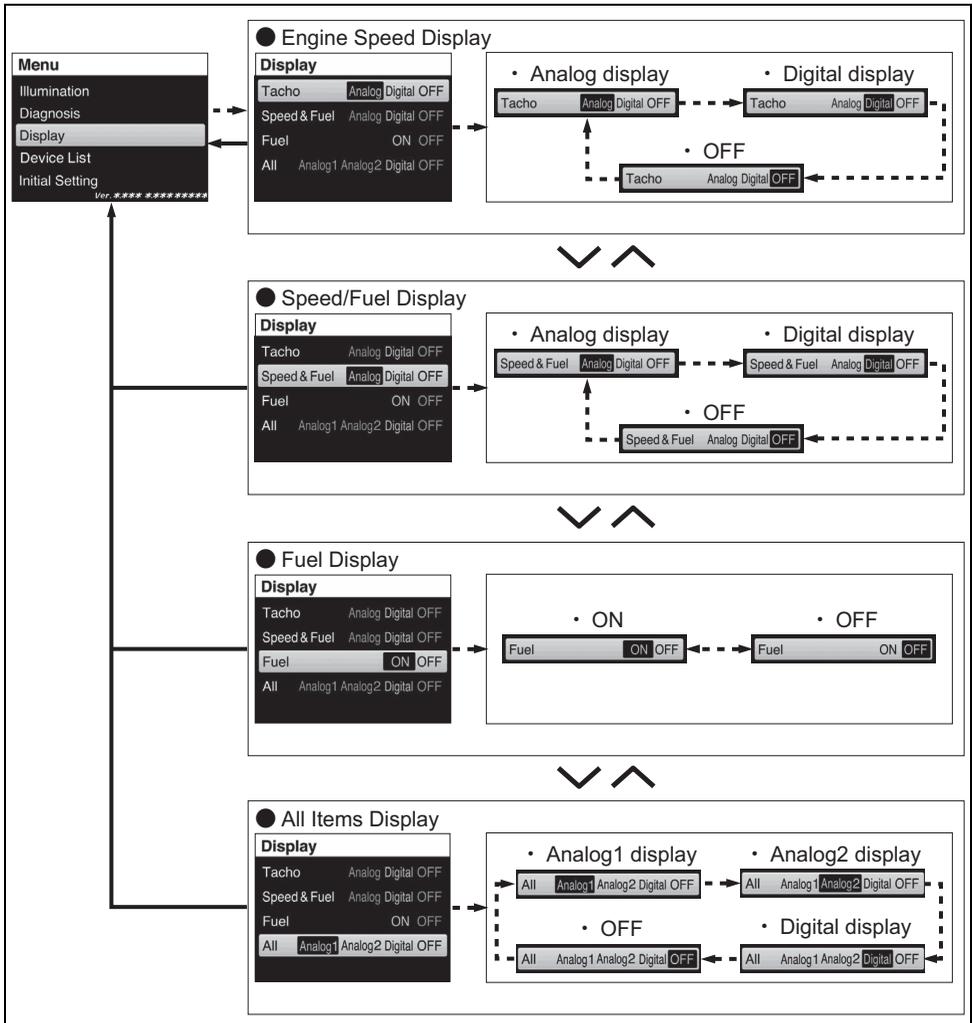
Analog : Analog display

Digital : Digital display

OFF : Selected display is skipped.

(Select at least one.)

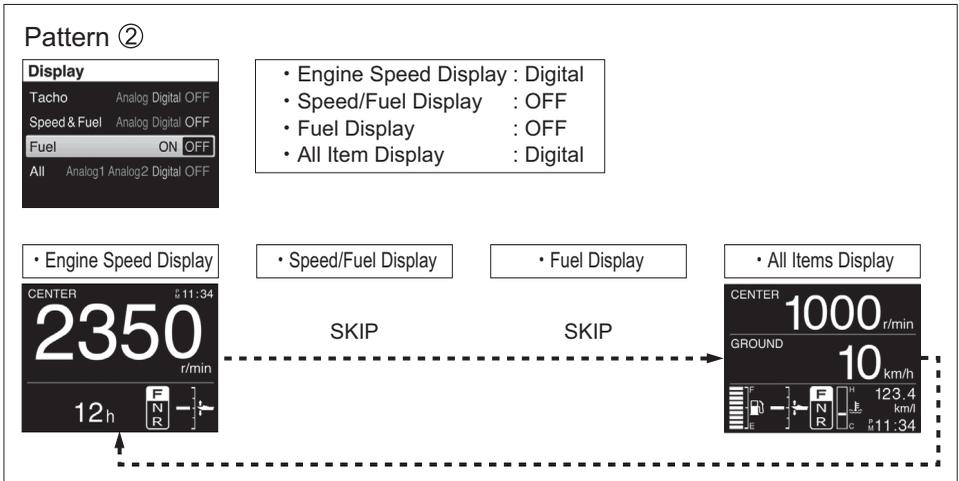
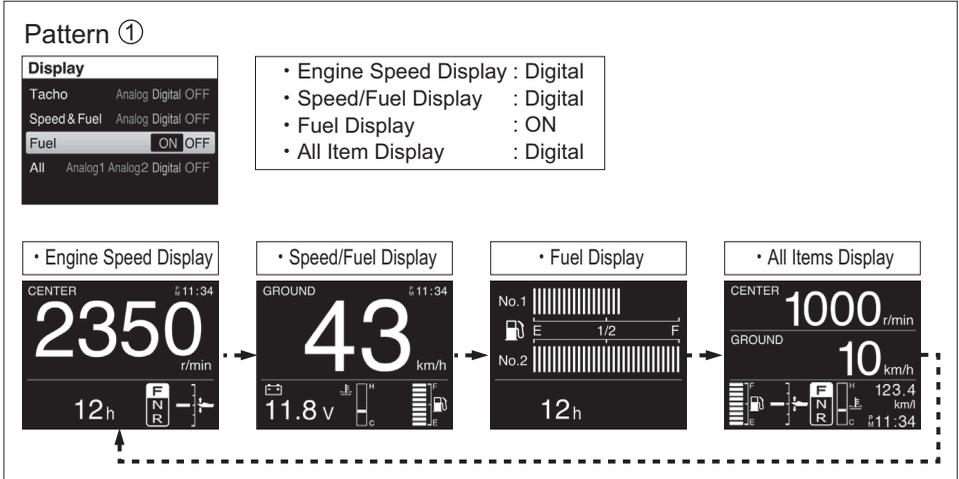
- MENU button operation : 
- SET button operation : 
-   buttons operation :  



• Display example of the gauge screen

- MENU button operation : 
- SET button operation : 
-   buttons operation :  

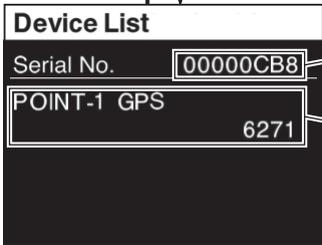
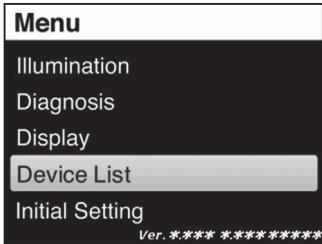
Example



4-4. Device List

- Display the information of the connected device.

• MENU button operation	: →
• SET button operation	: - - - →
• ∨ ∧ buttons operation	: ∨ ∧



Display the Multi-function gauge serial number.

Display the name and the serial number of the connected device(s).

4-5. Initial Setting

The settings related to the following items are configured in Initial Setting.

- Unit : Unit setting
- Time : Time setting

Only for Dealer

- Position : Gauge position, Engine position, Engine serial No settings
- Sensor Setting : Sensor setting
- Tank : Tank setting

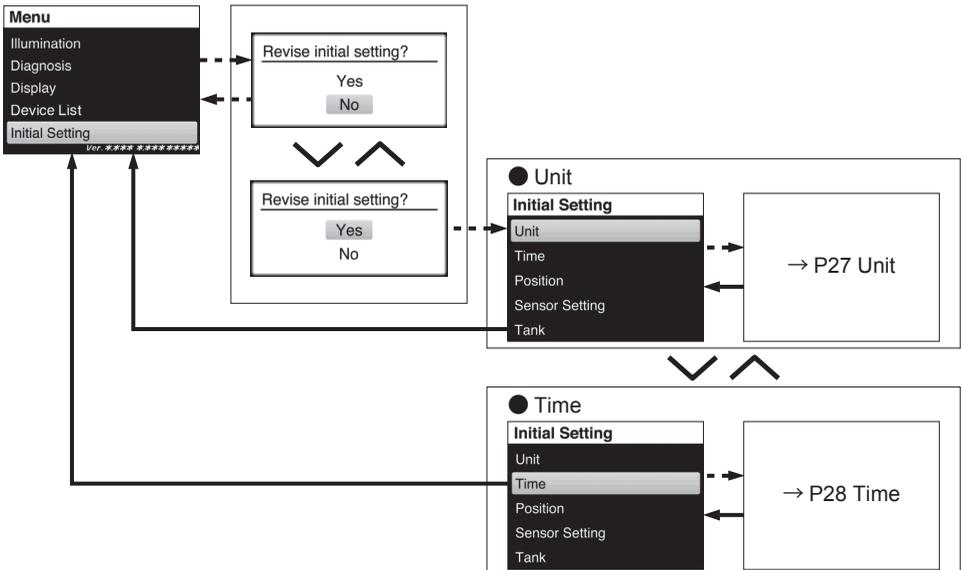
NOTICE

- **Position, Sensor Setting and Tank are used by the dealer during the initial setting.**
- **If the setting is changed, the current information may not be displayed any more.**

Some of the items in Initial Setting may be important during the initial setting. A confirmation screen to draw your attention will be displayed.

- MENU button operation : 
- SET button operation : 
- ∇ \wedge buttons operation :  

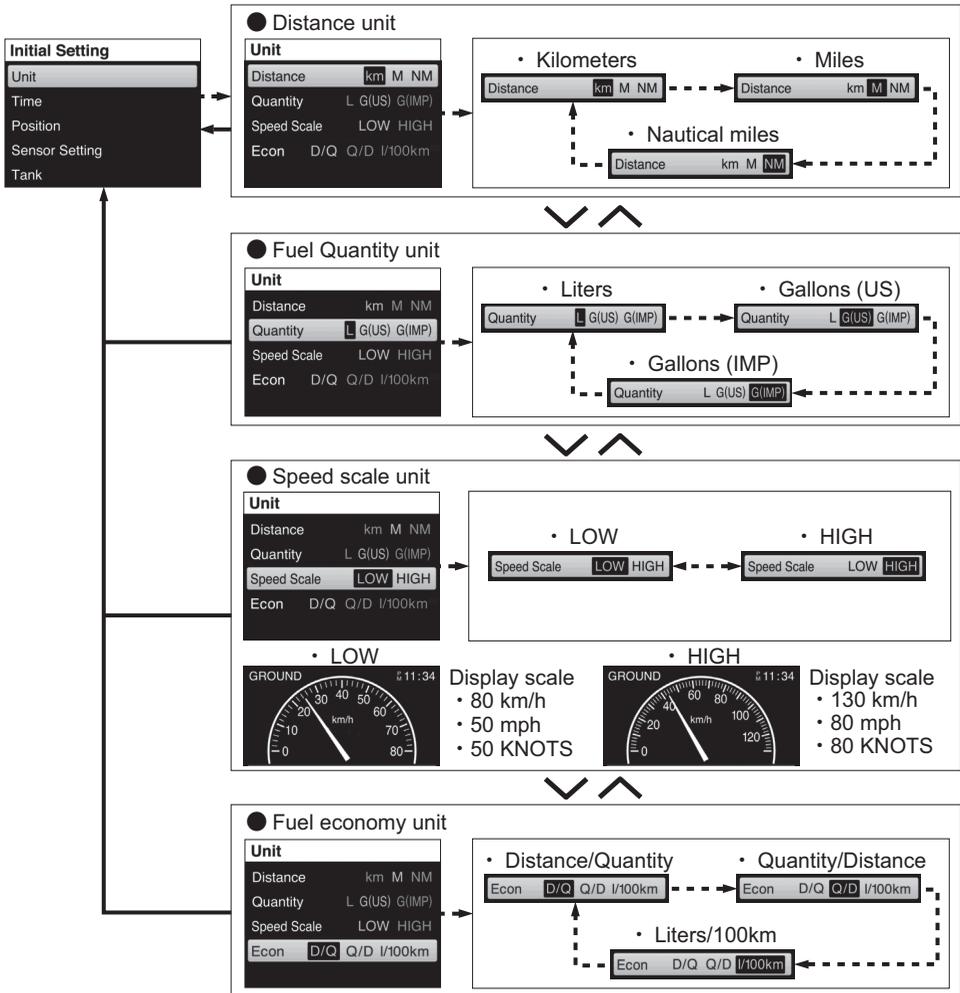
● Menu screen



(1) Unit

- Setting for the following units.

• MENU button operation	: →
• SET button operation	: - - - →
• ∨ ∧ buttons operation	: ∨ ∧

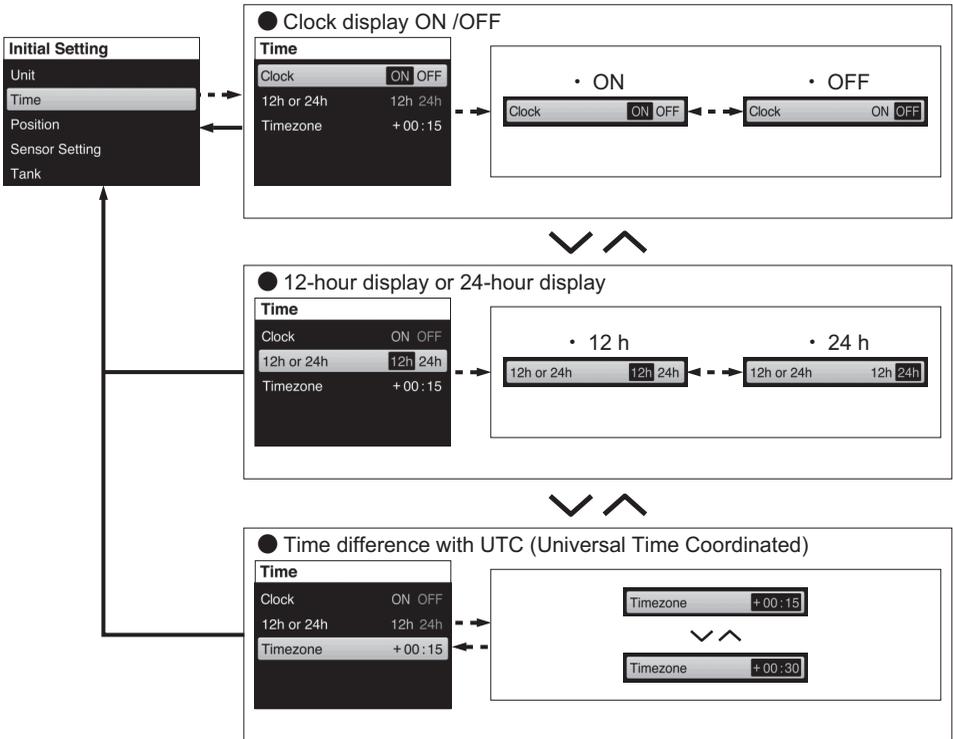


⚠ CAUTION

Select units of measurement which you will prefer and recognize.
Selecting units you do not recognize may cause judgment errors.

(2) Time

- Setting for the time indication.
The range can cover from -12:00 to +14:00.

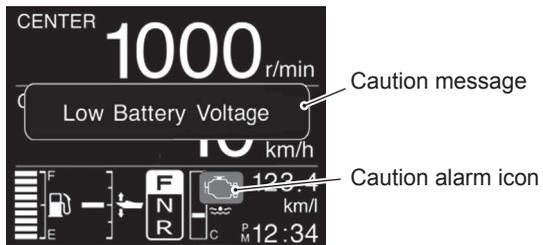


If the gauge is not connected to a GPS module, "--:--" will be displayed.
Press the ∨ or ∧ button briefly to change the time by 15 minutes.
If you press and hold the ∨ or ∧ button, the time will be changed in 15 minute units continuously.

5. Alarm

If an alarm occurs, the gauge screen will display the caution message and the caution alarm icon immediately.
 The caution message clears when any of the buttons are pressed on the gauge. However, the caution alarm icon is displayed until eliminating the cause. The buzzer sound also stops when the cause is eliminated.

Example: Low battery voltage (All Items Display Screen)



- List of Caution message

Caution message	Caution alarm icon	Description
<div style="background-color: black; color: white; padding: 2px; text-align: center;">Low Battery Voltage</div> *1		This system is activated when the battery voltage deficiency which could impair your motor's performance occurs. Adopt the appropriate measure according to the Owner's Manual.
<div style="background-color: black; color: white; padding: 2px; text-align: center;">Check Engine * - *</div> *1 *2		If abnormal conditions exist in any sensor signal being input to the control unit, the self-diagnostic system warns of the abnormal condition. Adopt the appropriate measure according to the Owner's Manual.
<div style="background-color: black; color: white; padding: 2px; text-align: center;">Low Oil Pressure</div> *1		This system operates when the engine lubricating oil pressure drops below the correct level. Adopt the appropriate measure according to the Owner's Manual.
<div style="background-color: black; color: white; padding: 2px; text-align: center;">Overheat</div> *1		This system is activated when the cylinder wall temperature is too high due to insufficient water cooling. Adopt the appropriate measure according to the Owner's Manual.
<div style="background-color: black; color: white; padding: 2px; text-align: center;">Water in Fuel</div> *1		This engine is equipped with an integral fuel filter / water separator and associated alert system. Adopt the appropriate measure on how to drain away the water according to the Owner's Manual.
<div style="background-color: black; color: white; padding: 2px; text-align: center;">Rev Limit</div> *1	—	This system is activated when engine speed exceeds maximum recommended speed for more than 10 seconds. In addition, "Rev Limit" is displayed on screen. Adopt the appropriate measure according to the Owner's Manual.
<div style="background-color: black; color: white; padding: 2px; text-align: center;">Over Revolution</div> *1	—	If you continue to run, engine speed will automatically be reduced to approximately 3000 r/min, simultaneously the buzzer sounds. Then the display will be changed into "Over Revolution". Adopt the appropriate measure according to the Owner's Manual.
<div style="background-color: black; color: white; padding: 2px; text-align: center;">Change Oil</div> *1	—	This system informs the operator of the time for replacing engine oil on the basis of the maintenance schedule.

Caution message	Caution alarm icon	Description
High Oil Temp *1		This system is activated when the engine oil temperature is too high due to insufficient oil cooling or deterioration in quality of engine oil. Adopt the appropriate measure according to the Owner's Manual.
Keyless Unit Battery Low		This system is activated when the 12 volt battery voltage to the keyless control unit drops to a point which could impair the keyless control unit performance. Adopt the appropriate measure according to the Keyless Start System Operation Manual.
Remote Key Battery Low		The caution system is activated when key-fob battery voltage drops to a point which could impair key-fob performance. Adopt the appropriate measure according to the Keyless Start System Operation Manual.
Check Remote Key		The caution system is activated when key-fob identification error. Adopt the appropriate measure according to the Keyless Start System Operation Manual.
Check Shift Control *1		This system is activated in the event of an error of the control system of the electronic shift. Adopt the appropriate measure according to the Owner's Manual.
Check Throttle System *1		This system is activated in the event of an error of the control system of the electronic throttle. Adopt the appropriate measure according to the Owner's Manual.
Check Control Unit C. *1		This system is activated in the event of an error in the control system of the electronic throttle and shift systems. Adopt the appropriate measure according to the Owner's Manual.
Check 2nd Station *1		This system is activated in the event of an error in the control system of the 2nd station. Adopt the appropriate measure according to the Owner's Manual.
Check Gauge C. *1	—	This system activates when there is a communication error of the gauge. Adopt the appropriate measure according to the Owner's Manual.
The data is corrupt.	—	This Log data is corrupt and cannot be used.
error: K-line	—	This system activates when there is a communication error of the gauge. Check the connection of the wiring.
error: Library	—	An error occurred in process of creating the QR code. Re-create the QR code. Consult with your Suzuki Marine Dealer.
error: Timeout	—	An error occurred in process of creating the QR code. Re-create the QR code. Consult with your Suzuki Marine Dealer.

Caution message	Caution alarm icon	Description
Check Station Setting	—	Troll mode cannot operate from this gauge. Check the activated Station by pressing "SELECT" button on the control panel, and then re-operate to get into troll mode.
Check Troll Condition	—	Cannot switch to troll mode. Read "Troll Mode Operation" on page 15, and then re-operate to get into troll mode.
Check Troll System	—	The current ECM and BCM does not applicable to the troll mode system. Consult with your Suzuki Marine Dealer.

*1: This is also displayed in the gauge installed in the 2nd station.

*2: A number indicating the fault location is displayed in * _*.
(The number is displayed in the 1st station only.)

6. Gauge Screen List

Main Information		Engine speed display screen	Speed / Fuel display screen	Fuel display screen	All Items display screen
Engine speed		*○	—	—	*○
Clock *1		○	○	—	○
Trim position		*○	—	—	*○
Shift position		*○	—	—	*○
Engine position		*○	—	—	*○
Speed		Ground speed *1 Water speed *2		—	○
Remaining fuel volume	Total	—	○	—	○
	Tank 1 / Tank 2	—	—	○	—
	Tank 3 / Tank 4 *5				

Sub Information		Engine speed display screen	Speed / Fuel display screen	Fuel display screen	All Items display screen
Total operating hours		*○	*○	*○	—
Trip time		○	○	○	—
Trip distance *3		○	○	○	—
Battery voltage / Cooling water temperature		*○	*○	*○	*△
Fuel economy information	Instantaneous fuel flow	○	○	○	—
	Total instantaneous fuel flow	○	○	○	—
	Instantaneous fuel economy *3	○	○	○	○
	Average fuel economy *3	○	○	○	—
Total fuel used		○	○	○	—
Latitude / Longitude *1		○	○	○	—
Caution alarm icon / Caution message *4		*○	*○	*○	*○

*○ Displays information on the outboard motor connected.

*1: Requires input from GPS module.

*2: Requires input from water speed sensor module.

*3: Requires input from GPS module or water speed sensor module.

*4: Displays all items for the 1st station only.

*5: In case of more than dual engine application.

*△ Display cooling water temperature only.

7. Specifications

1	Display size	3.5 inch Color display
2	Resolution	320 x 240
3	Power voltage	DC8 - 16 V
4	Display screen	Horizontal
5	Dimensions without cover	105 (W) x 105 (H) x 16 (D) mm
6	Dimensions with cover	108 (W) x 110 (H) x 20 (D) mm
7	Weight	0.3 kg
8	Power consumption	2 W
9	Operating temperature range	-20 - 65 °C
10	Others	Built-in buzzer Includes protective cover NMEA 2000 output