

GROUP 14 MONITORING SYSTEM

1. OUTLINE

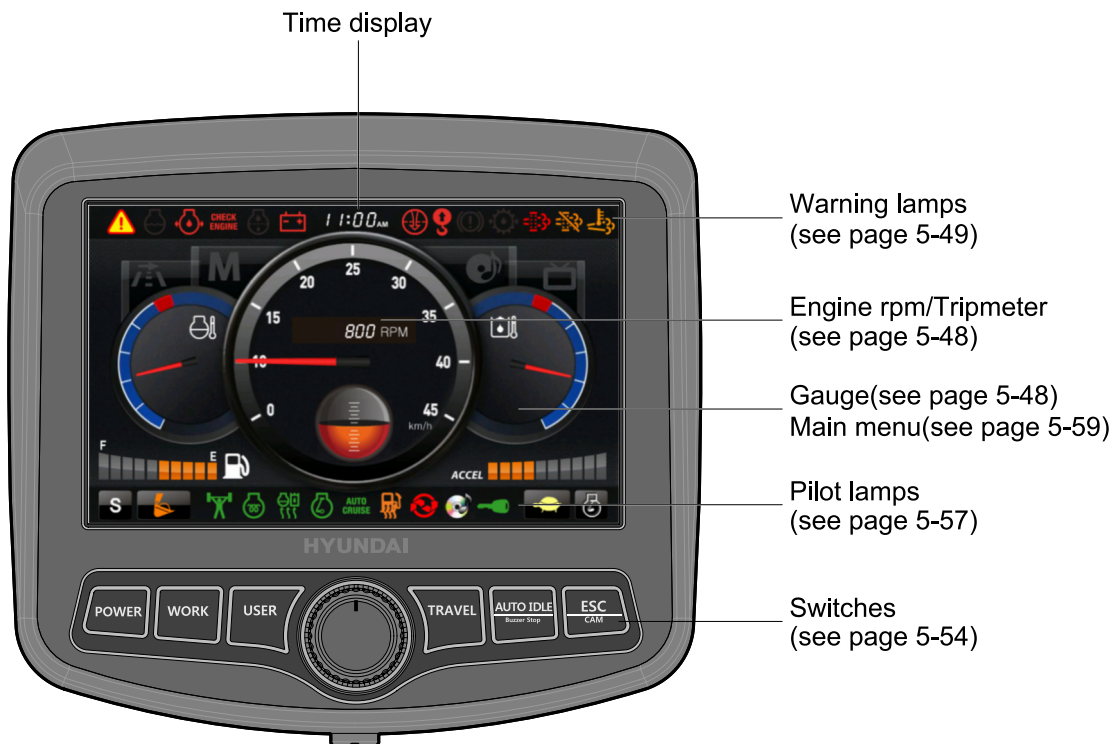
Monitoring system consists of the monitor part and switch part.

The monitor part gives warnings when any abnormality occurs in the machine and informs the condition of the machine.

Various select switches are built into the monitor panel, which act as the control portion of the machine control system.

2. CLUSTER

1) MONITOR PANEL



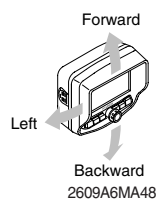
2609A5MS14

※ The warning lamp pops up and/or blinks and the buzzer sounds when the machine has a problem.

The warning lamp blinks until the problem is cleared. Refer to page 5-49 for details.

※ This cluster is adjustable.

- Vertical (forward/backward) : each 15°
- Horizontal (left only) : 15°



2) CLUSTER CHECK PROCEDURE

(1) Start key : ON

① Check monitor

- a. Buzzer sounding for 4 seconds with HYUNDAI logo on cluster.
- ※ If the ESL mode is set to the enable, enter the password to start engine.

② After initialization of cluster, the operating screen is displayed on the LCD.

Also, self diagnostic function is carried out.

- a. Engine rpm display : 0 rpm
- b. Engine coolant temperature gauge : White range
- c. Hydraulic oil temperature gauge : White range
- d. Fuel level gauge : White range

③ Indicating lamp state

- a. Power mode pilot lamp : E mode or U mode
- b. Work mode pilot lamp : General operation mode (bucket)
- c. Travel speed pilot lamp : Low (turtle)

(2) Start of engine

① Check machine condition

- a. RPM display indicates at present rpm
- b. Gauge and warning lamp : Indicate at present condition.
- ※ When normal condition : All warning lamp OFF
- c. Work mode selection : General work
- d. Power mode selection : E mode or U mode
- e. Travel speed pilot lamp : Low (turtle)

② When warming up operation

- a. Warming up pilot lamp : ON
- b. After engine started, engine speed increases to 1200 rpm.
- ※ Others same as above.

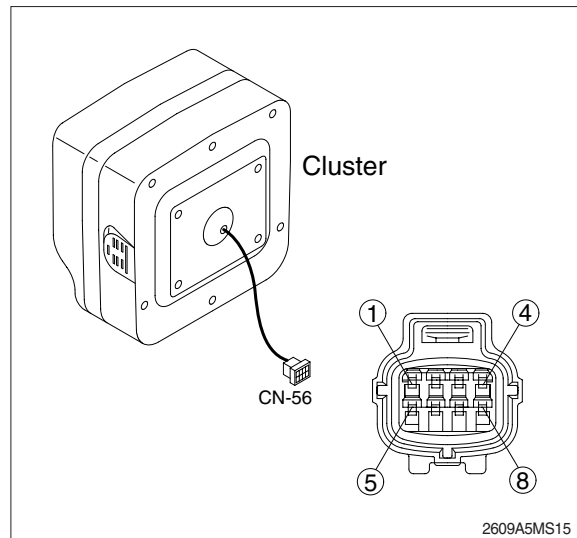
③ When abnormal condition

- a. The warning lamp lights up and the buzzer sounds.
- b. If BUZZER STOP switch is pressed, buzzer sound is canceled but the lamp warning lights up until normal condition.
- ※ The pop-up warning lamp moves to the original position and blink when the select switch is pushed. Also the buzzer stops.

3. CLUSTER CONNECTOR

No.	Name	Signal
1	Battery 24V	20~32V
2	Camera signal 3	NTSC
3	GND	-
4	Serial + (TX)	0~5V
5	Power IG (24V)	20~32V
6	Camera signal 2	NTSC
7	Camera signal 1	NTSC
8	Serial - (RX)	0~5V

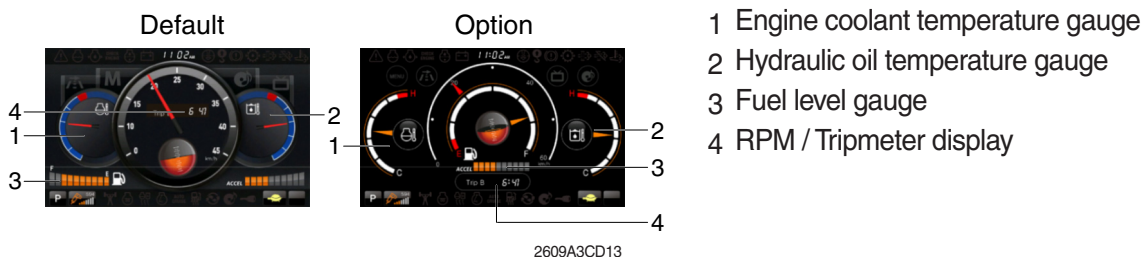
※ NTSC : the united states National
Television System Committee



2) GAUGE

(1) Operation screen

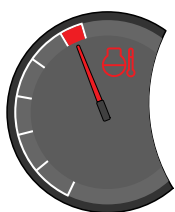
When you first turn starting switch ON, the operation screen will appear.



※ Operation screen type can be set by the screen type menu of the display.

Refer to page 5-67 for details.

(2) Engine coolant temperature gauge





2609A3CD14

① This gauge indicates the temperature of coolant.

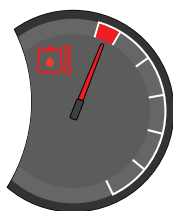
· White range : 40-107°C (104-225°F)

· Red range : Above 107°C (225°F)

② If the indicator is in the red range or  lamp blinks in red, turn OFF the engine and check the engine cooling system.

※ If the gauge indicates the red range or  lamp blinks in red even though the machine is on the normal condition, check the electric device as that can be caused by the poor connection of electricity or sensor.

(3) Hydraulic oil temperature gauge





2609A3CD15

① This gauge indicates the temperature of hydraulic oil.

· White range : 40-105°C(104-221°F)

· Red range : Above 105°C(221°F)

② If the indicator is in the red range or  lamp blinks is red, reduce the load on the system. If the gauge stays in the red range, stop the machine and check the cause of the problem.

※ If the gauge indicates the red range or  lamp blinks in red even though the machine is on the normal condition, check the electric device as that can be caused by the poor connection of electricity or sensor.


(4) Fuel level gauge



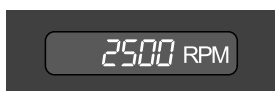
2609A3CD16

① This gauge indicates the amount of fuel in the fuel tank.

② Fill the fuel when the red range, or  lamp blinks in red.

※ If the gauge indicates the red range or  lamp blinks in red even though the machine is on the normal condition, check the electric device as that can be caused by the poor connection of electricity or sensor.

(5) RPM / Tripmeter display

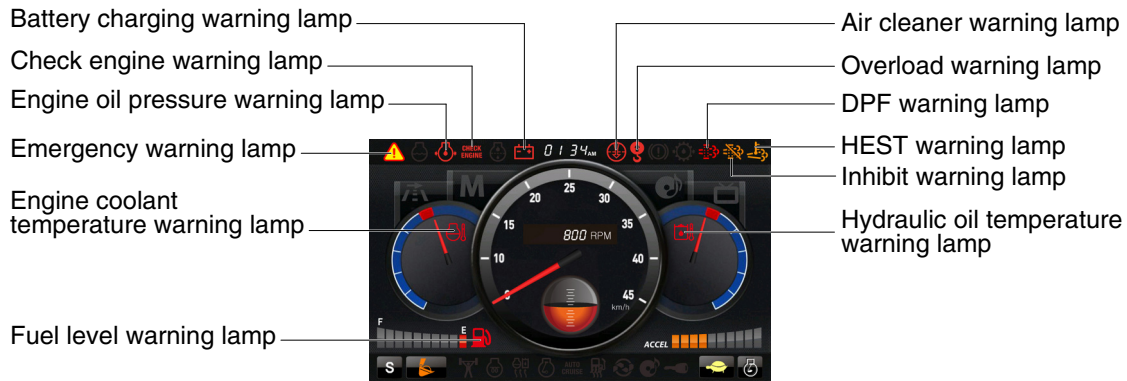


2609A3CD17

① This displays the engine speed or the tripmeter.

※ Refer to page 5-70 for details.

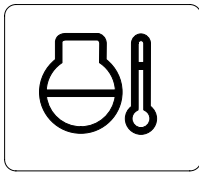
3) WARNING LAMPS



2609A3CD18

※ Each warning lamp on the top of the LCD pops up on the center of LCD and the buzzer sounds when the each warning is happened. The pop-up warning lamp moves to the original position and blinks when the select switch is pushed. And the buzzer stops. Refer to page 5-58 for the select switch.

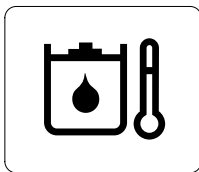
(1) Engine coolant temperature warning lamp



21093CD08A

- ① Engine coolant temperature warning is indicated two steps.
 - 103°C over : The lamp blinks and the buzzer sounds.
 - 107°C over : The lamp pops up on the center of LCD and the buzzer sounds.
- ② The pop-up lamp moves to the original position and blinks when the select switch is pushed. Also, the buzzer stops and lamp keeps blink.
- ③ Check the cooling system when the lamp keeps ON.

(2) Hydraulic oil temperature warning lamp



21093CD08C

- ① Hydraulic oil temperature warning is indicated two steps.
 - 100°C over : The lamp blinks and the buzzer sounds.
 - 105°C over : The lamp pops up on the center of LCD and the buzzer sounds.
- ② The pop-up lamp moves to the original position and blinks when the select switch is pushed. Also, the buzzer stops and lamp keeps blink.
- ③ Check the hydraulic oil level and hydraulic oil cooling system.

(3) Fuel level warning lamp



21093CD08B

- ① This warning lamp blinks and the buzzer sounds when the level of fuel is below 75 ℓ (19.8 U.S. gal).
- ② Fill the fuel immediately when the lamp blinks.

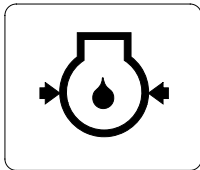
(4) Emergency warning lamp



21093CD30

- ① This lamp pops up and the buzzer sounds when each of the below warnings is happened.
 - Engine coolant overheating (over 107°C)
 - Hydraulic oil overheating (over 105°C)
 - Pump EPPR circuit abnormal or open
 - Attachment flow EPPR circuit abnormal or open
 - MCU input voltage abnormal
 - Accel dial circuit abnormal or open
 - Cluster communication data error
 - Engine ECM communication data error
- ※ **The pop-up warning lamp moves to the original position and blinks when the select switch is pushed. Also the buzzer stops. This is same as following warning lamps.**
- ② When this warning lamp blinks, machine must be checked and serviced immediately.

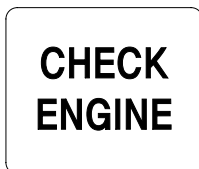
(5) Engine oil pressure warning lamp



21093CD32

- ① This lamp blinks when the engine oil pressure is low.
- ② If the lamp blinks, shut OFF the engine immediately. Check oil level.

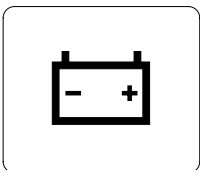
(6) Check engine warning lamp



21093CD33

- ① This lamp blinks when the communication between MCU and engine ECM on the engine is abnormal, or if the cluster received any fault code from engine ECM.
 - ② Check the communication line between them.
If the communication line is OK, then check the fault codes on the cluster.
 - ③ Also, this lamp pops up when the level of DPF soot is high.
- ※ Refer to the page 5-51 for the DPF warning lamp.

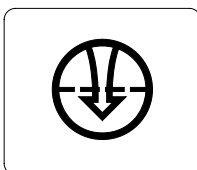
(7) Battery charging warning lamp



21093CD34

- ① This lamp blinks when the battery charging voltage is low.
- ② Check the battery charging circuit when this lamp blinks.

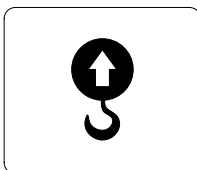
(8) Air cleaner warning lamp



21093CD35

- ① This lamp blinks when the filter of air cleaner is clogged.
- ② Check the filter and clean or replace it.

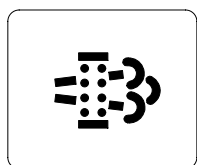
(9) Overload warning lamp (opt)



21093CD36




- ① When the machine is overload, the overload warning lamp blinks during the overload switch is ON. (if equipped)
- ② Reduce the machine load.

(10) DPF (diesel particulate filter) warning lamp

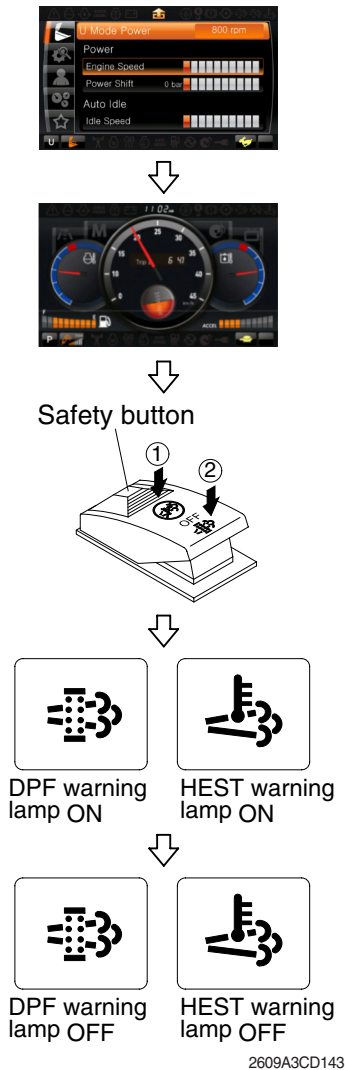


2609A3CD19

- ① This warning lamp lights ON or blinks when the regeneration is needed as table below.
- ※ Consequences of delaying regeneration
- Poor performance caused by increasing exhaust gas pressure.
 - Higher fuel consumption
 - Shorter filter lifetime

Condition	Warning lamp			Remedy
	DPF 	Check engine  (pop up)	Stop engine  (pop up)	
Normal	Off	Off	Off	· Automatic regeneration
Soot low	On	Off	Off	· Increase engine load/speed and allow engine to run until regeneration is completed (DPF lamp : OFF)
Soot midium	Blink	Off	Off	· Initiate a manual regeneration as following page · Engine power may be reduced automatically (soot medium)
Soot high	Blink	On	Off	· Initiate a manual regeneration · Engine power and speed will be reduced automatically
Stop	Off	Off	On	· Stop the engine immediatary. · Please contact your Hyundai service center or local dealer.

※ Manual regeneration method of DPF



※ Manual regeneration applies if the machine is in a fireproof area and there is no plan to turn off the machine during the regeneration.

- ① Stop and park the machine.
- ② Select user mode and set the engine speed to minimum speed.
- ③ Return to the operation screen.

- ④ Pull the safety button and push the switch to position ② to initiate the manual regeneration of DPF.

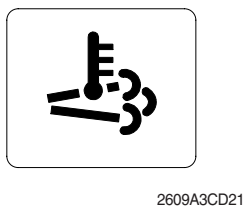
※ Refer to the operator's manual page 3-31 for the switch operation.

※ The engine speed may increase to 950~1050 rpm and DPF regeneration begins and it will take approximately 20~30 minutes.

- ⑤ The DPF and HEST warning lamp will light ON during the regeneration function is operating.

- ⑥ The DPF and/or HEST warning lamp will light OFF when the regeneration function is completed.

(11) HEST (High exhaust system temperature) warning lamp

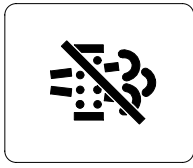


- ① This warning lamp indicates, when illuminated, that exhaust temperatures are high due to regeneration of the DPF.
- ② The lamp will also illuminate during a manual regeneration.
- ③ When this lamp is illuminated, be sure the exhaust pipe outlet is not directed at any surface or material that can melt, burn, or explode.

▲ When this lamp is illuminated, the exhaust gas temperature could reach 800°C [1500°F], which is hot enough to ignite or melt common materials, and to burn people.

※ The lamp does not signify the need for any kind of equipment or engine service; It merely alerts the equipment operator to high exhaust temperatures. It will be common for the lamp to illuminate on and off during normal equipment operation as the engine completes regeneration.

(12) DPF regeneration inhibit warning lamp



2609A3CD20

① This warning lamp indicates, when illuminated, the DPF switch is pushed inhibit position, therefore automatic and manual regeneration can not occur.

※ Refer to the operator's manual page 3-31 for the DPF switch.

4) PILOT LAMPS



2609A3CD22

(1) Mode pilot lamps

No	Mode	Pilot lamp	Selected mode
1	Power mode		Heavy duty power work mode
			Standard power mode
			Economy power mode
2	User mode		User preferable power mode
3	Work mode		General operation mode
			Breaker operation mode
			Crusher operation mode
4	Travel mode		Low speed traveling
			High speed traveling
5	Auto idle mode		Auto idle
6	Work tool mode		Oil flow level of breaker or crusher mode

(2) Power max pilot lamp



21093CD38

- ① The lamp will be ON when pushing power max switch on the LH RCV lever.
 - ② The power max function is operated maximum 8 seconds.
- ※ Refer to the operator's manual page 3-30 for power max function.

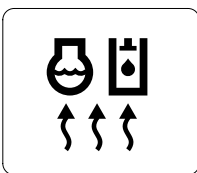
(3) Preheat pilot lamp



21093CD39

- ① Turning the start key switch ON position starts preheating in cold weather.
- ② Start the engine after this lamp is OFF.

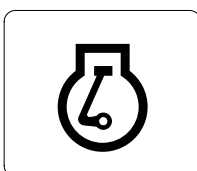
(4) Warming up pilot lamp



21093CD40

- ① This lamp is turned ON when the coolant temperature is below 30°C (86°F).
- ② The automatic warming up is cancelled when the engine coolant temperature is above 30°C, or when 10 minutes have passed since starting the engine.

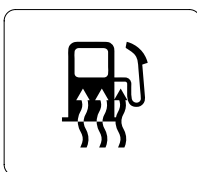
(5) Decel pilot lamp



21093CD41

- ① Operating one touch decel switch on the RCV lever makes the lamp ON.
 - ② Also, the lamp will be ON and engine speed will be lowered automatically to save fuel consumption when all levers and pedals are at neutral position, and the auto idle function is selected.
- ※ **One touch decel is not available when the auto idle pilot lamp is turned ON.**
- ※ **Refer to the operator's manual page 3-30.**

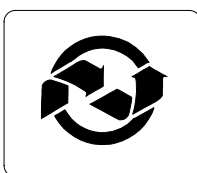
(6) Fuel warmer pilot lamp



21093CD43

- ① This lamp is turned ON when the coolant temperature is below 10°C (50°F) or the hydraulic oil temperature 20°C (68°F).
- ② The automatic fuel warming is cancelled when the engine coolant temperature is above 60°C, or the hydraulic oil temperature is above 45°C since the start switch was ON position.

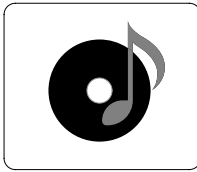
(7) Maintenance pilot lamp



2609A3CD23

- ① This lamp will be ON when the consuming parts are needed to change or replace. It means that the change or replacement interval of the consuming parts remains below 30 hours.
 - ② Check the message in maintenance information of main menu. Also, this lamp lights ON for 3 minutes when the start switch is ON position.
- ※ **Refer to the page 5-63.**

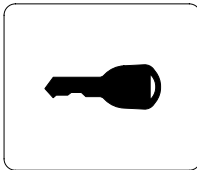
(8) Entertainment pilot lamp



2609A3CD133

- ① This lamp is on when MP3 or video files are playing.
- ※ **Refer to the page 5-69.**

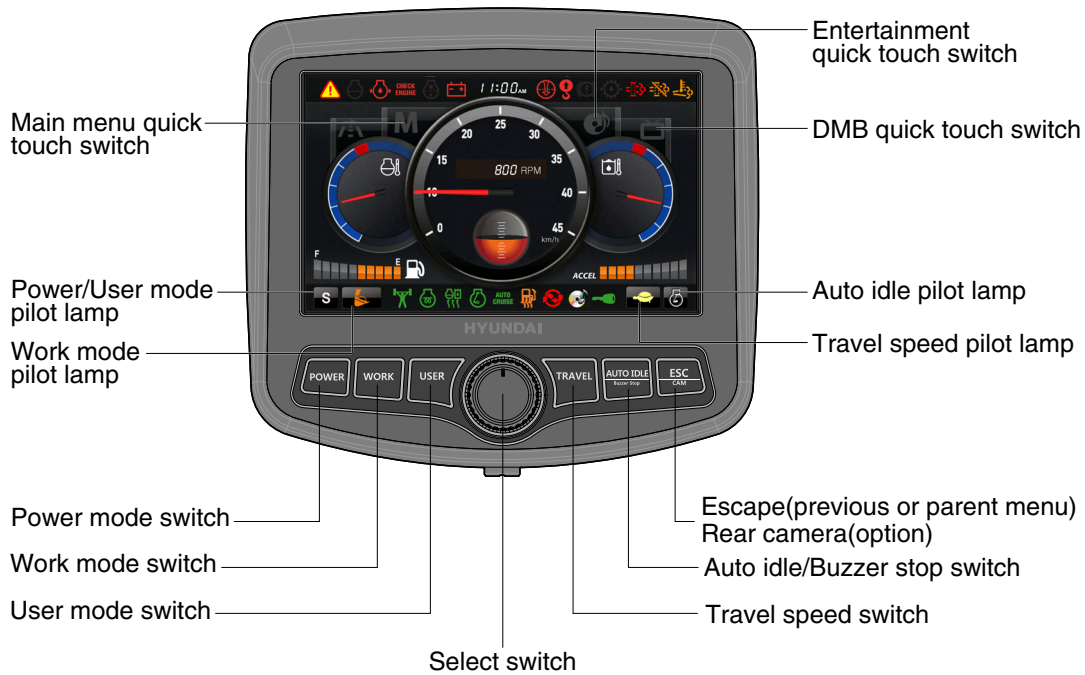
(9) Smart key pilot lamp (opt)



2609A3CD132

- ① This lamp is ON when the engine is started by the start button.
- ② This lamp is red when the a authentication fails, green when succeeds.
- ※ **Refer to the page 5-65.**

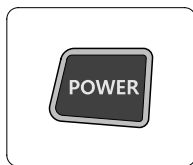
5) SWITCHES



2609A3CD24

※ When the switches are selected, the pilot lamps are displayed on the LCD. Refer to the page 5-54 for details.

(1) Power mode switch






2609A3CD25

- ① This switch is to select the machine power mode and selected power mode pilot lamp is displayed on the pilot lamp position.
 - P : Heavy duty power work.
 - S : Standard power work.
 - E : Economy power work.
- ② The pilot lamp changes E → S → P → E in order.

(2) Work mode switch

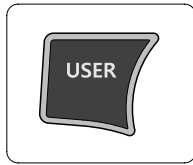


2609A3CD26

- ① This switch is to select the machine work mode, which shifts from general operation mode to optional attachment operation mode.
 -  : General operation mode
 -  : Breaker operation mode (if equipped)
 -  : Crusher operation mode (if equipped)
 - Not installed : Breaker or crusher is not installed.

※ Refer to the operator's manual page 4-7 for details.

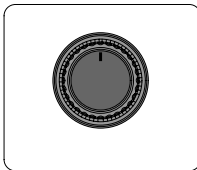
(3) User mode switch



2609A3CD27

- ① This switch is used to memorize the current machine operating status in the MCU and activate the memorized user mode.
 - Memory : Push more than 2 seconds.
 - Action : Push within 2 seconds.
 - Cancel : Push this switch once more within 2 seconds.

(4) Select switch



21093CD45E

- ① This switch is used to select or change the menu and input value.
- ② Knob push
 - Long (over 2 sec) : Return to the operation screen
 - Medium (0.5~2 sec) : Return to the previous screen
 - Short (below 0.5 sec) : Select menu
- ③ Knob rotation
This knob changes menu and input value.
 - Right turning : Down direction / Increase input value
 - Left turning : Up direction / Decreased input value

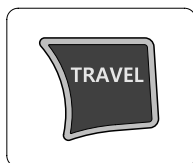
(5) Auto idle/ buzzer stop switch





2609A3CD28

- ① This switch is used to activate or cancel the auto idle function.
 - Pilot lamp ON : Auto idle function is activated.
 - Pilot lamp OFF : Auto idle function is cancelled.
- ② The buzzer sounds when the machine has a problem.
In this case, push this switch and buzzer stops, but the warning lamp blinks until the problem is cleared.

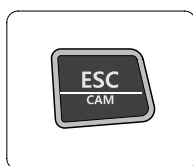
(6) Travel speed control switch



2609A3CD29

- ① This switch is used to select the travel speed alternatively.
 -  : Low speed
 -  : High speed

(7) Escape/Camera switch



2609A3CD30

- ① This switch is used to return to the previous menu or parent menu.
- ② In the operation screen, pushing this switch will display the view of the camera on the machine (if equipped).
Please refer to page 5-70 for the camera.
- ③ If the camera is not installed, this switch is used only ESC function.

6) MAIN MENU

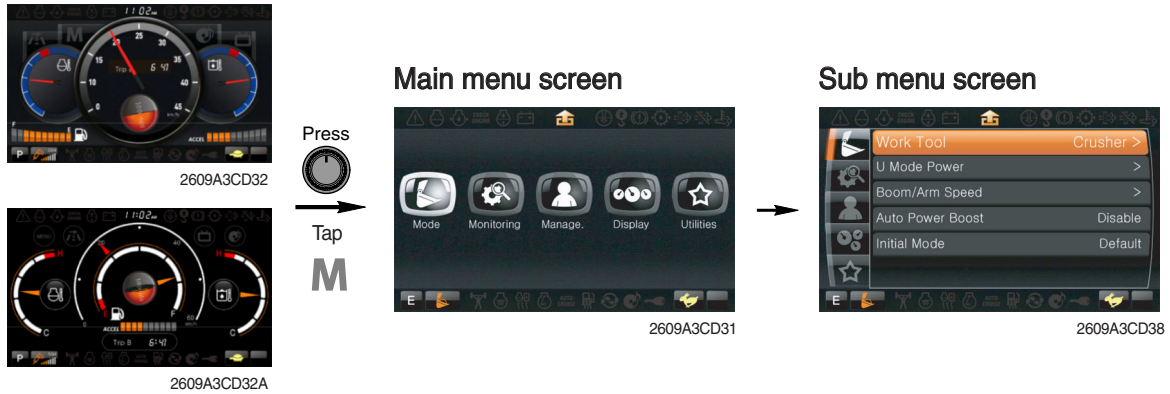
※ You can select or set the menu by the select switch or touch screen (M).

On the operation screen, tap M to access the main menu screen.

On the sub menu screen, you can tap the menu bar to access functions or applications






To return to the parent menu screen, tap the top menu bar. To return to operation screen, tap (🏠) icon.

· Operation screen



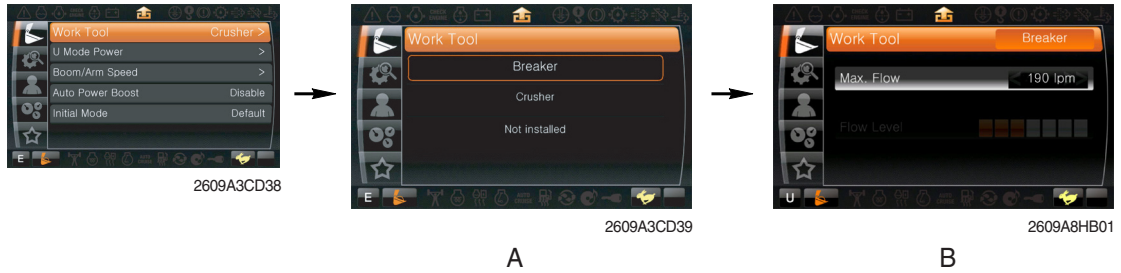
※ Please refer to select switch, page 5-58 for selection and change of menu and input value.

(1) Structure

No	Main menu	Sub menu	Description
1	 Mode 2609A3CD33	Work tool U mode power Boom/Arm speed Auto power boost Initial mode	Breaker, Crusher, Not installed User mode only Boom speed, Arm speed Enable, Disable Default, U mode, P mode
2	 Monitoring 2609A3CD34	Active fault Logged fault Delete logged fault Monitoring (analog) Monitoring (digital) Operating hours	MCU, Engine ECM MCU, Engine ECM All logged fault delete, Initialization canceled Machine information Switch status, Output status Operating hours for each mode
3	 Management 2609A3CD35	Maintenance information Machine security Machine Information A/S phone number Service menu Clinometer	Replacement, Change interval oils and filters ESL mode setting, Password change Cluster, MCU, Engine, Machine A/S phone number, A/S phone number change Power shift, Hourmeter, Replacement history, Lock level, Upgrade, EPPR current level Clinometer setting
4	 Display 2609A3CD36	Display item Clock Brightness, Touch calibration Unit setup Language selection Screen type	Engine speed, Tripmeter A, Tripmeter B, Tripmeter C Clock Manual, Auto, Calibrating the touch screen Temperature, Pressure, Flow, Distance, Date format Korean, English, Chinese A type, B type
5	 Utilities 2609A3CD37	Entertainment Tripmeter Camera FMT DMB	Play MP4, codec. 3 kinds (A, B, C) Number of active, Display order, Camera No. FMT setting DMB select, DAB select, Channel scan, Exit

(2) Mode setup

① Work tool



- A : Select one installed optional attachment.
- B : Max flow - Set the maximum flow for the attachment.
 Flow level - Reduce the operating flow from maximum flow.
 Breaker - Max 7 steps, Reduced 10 lpm each step.
 Crusher - Max 4 steps, Reduced 20 lpm each step.

※ The flow level is displayed with the work mode pilot lamp.

② U mode power



- Engine high idle rpm, auto idle rpm and pump torque (power shift) can be modulated and memorized separately in U-mode.
- U-mode can be activated by user mode switch.

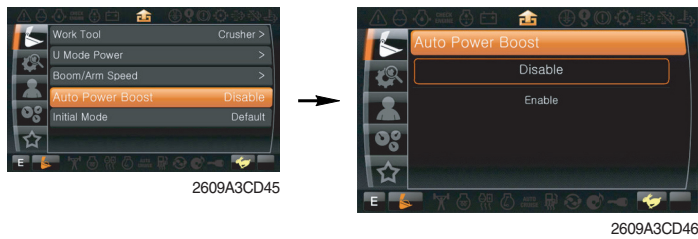
Step (█)	Engine speed (rpm)	Idle speed (rpm)	Power shift (bar)
1	1300	700	0
2	1400	800	3
3	1500	One touch decel low idle (900)	6
4	1600	950	9
5	1650	Auto decel rpm (1000)	12
6	1700	1050	16
7	1750	1100	20
8	1800	1150	26
9	1850	1200	32
10	1900	1250	38

③ Boom/Arm speed



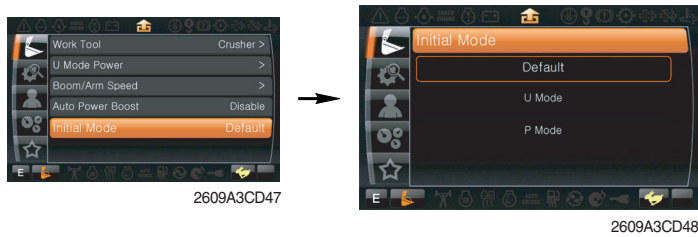
- **Boom speed**
 - Control type
 - Manual - Boom up speed is fixed as set steps.
 - Auto - Boom up speed is automatically adjusted as working conditions by the MCU.
 - Speed setting - Boom up speed is increased as much as activated steps.
- **Arm speed**
 - Regeneration - Arm regeneration function can be activated or cancelled.
 - Enable - Arm in speed is up.
 - Disable - Fine operation.

④ Auto power boost



- The power boost function can be activated or cancelled.
- Enable - The digging power is automatically increased as working conditions by the MCU. It is operated max 8 seconds.
- Disable - Not operated.

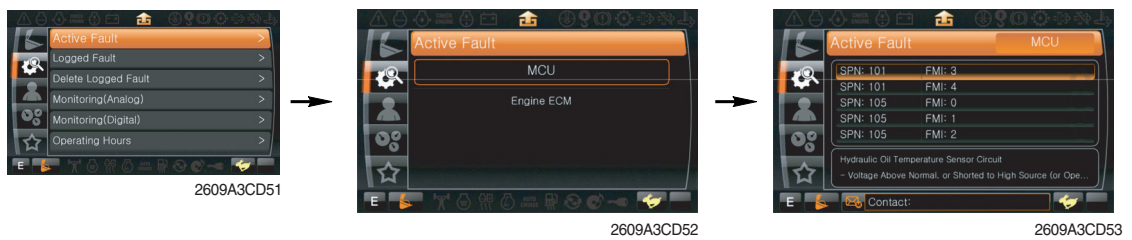
⑤ Initial mode



- Default - The initial power mode is set E mode when the engine is started.
- U mode - The initial power mode is set U mode when the engine is started.

(3) Monitoring

① Active fault



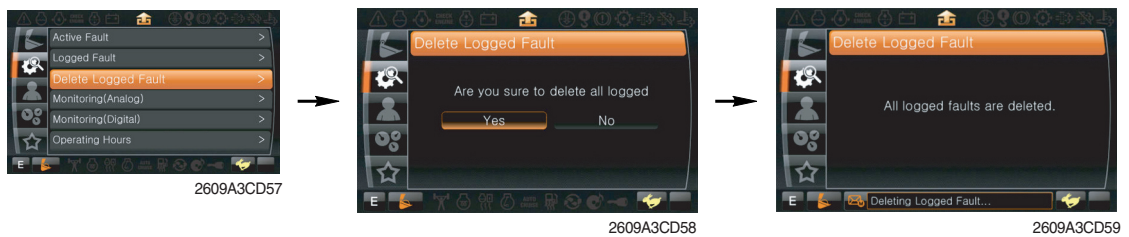
- The active faults of the MCU or engine ECM can be checked by this menu.

② Logged fault



- The logged faults of the MCU or engine ECM can be checked by this menu.

③ Delete logged fault



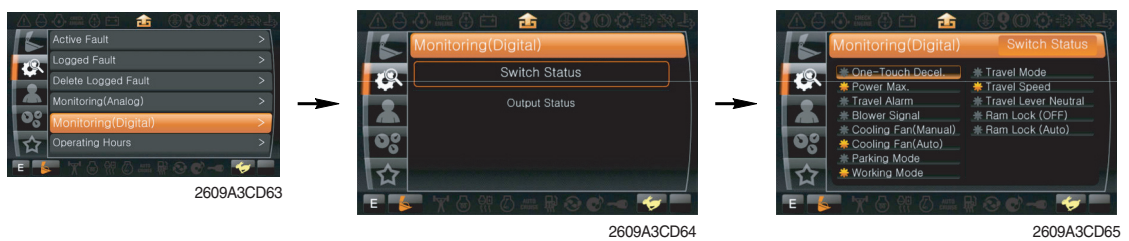
- The logged faults of the MCU or engine ECM can be deleted by this menu.

④ Monitoring(Analog)



- The machine status such as the engine rpm, oil temperature, voltage and pressure etc. can be checked by this menu.

⑤ Monitoring (digital)



- The switch status or output status can be confirmed by this menu.
- The activated switch or output pilot lamps are light ON.

⑥ Operating hours



- The operating hour of each mode can be confirmed by this menu.

(4) Management

① Maintenance information



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2609A3CD70



2609A3CD71



2609A3CD72

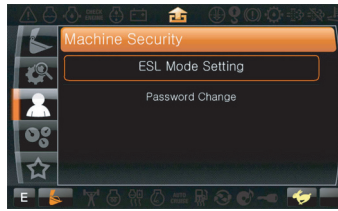


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- Alarm (⚙️ 🟡 🔴) : Gray ⚙️ - Normal
Yellow 🟡 - First warning
Red 🔴 - Second warning
- Replacement : The elapsed time will be reset to zero (0).
- Change interval : The change or replace interval can be changed in the unit of 50 hours.
- OK : Return to the item list screen.
- **Change or relpace interval**

No	Item	Interval
1	Engine oil	500
2	Final gear oil	1000
3	Swing gear oil	1000
4	Hydraulic oil	5000
5	Pilot line filter	1000
6	Drain filter	1000
7	Hydraulic oil return filter	1000
8	Engine oil filter	500
9	Fuel filter	500
10	Pre-filter	500
11	Hydraulic tank breather	250
12	Air cleaner (inner & outer)	4000
13	Radiator coolant	2000
14	Swing gear pinion grease	1000

② Machine security



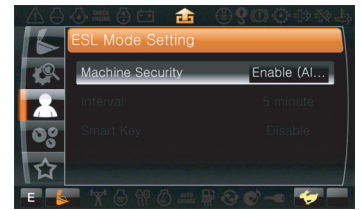
· ESL mode setting

- ESL : Engine Starting Limit
- ESL mode is designed to be a theft deterrent or will prevent the unauthorized operation of the machine.
- If the ESL mode was selected Enable, the password will be required when the start switch is turned ON.

- Machine security

Disable : Not used ESL function

Enable (always) : The password is required whenever the operator starts engine.

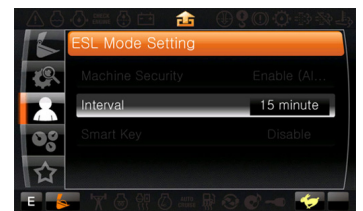
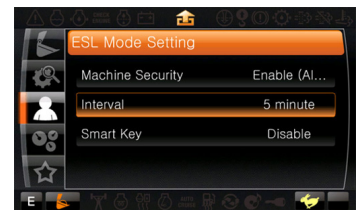


- **Interval** : The password is required when the operator starts engine first. But the operator can restart the engine within the interval time without inputting the password.

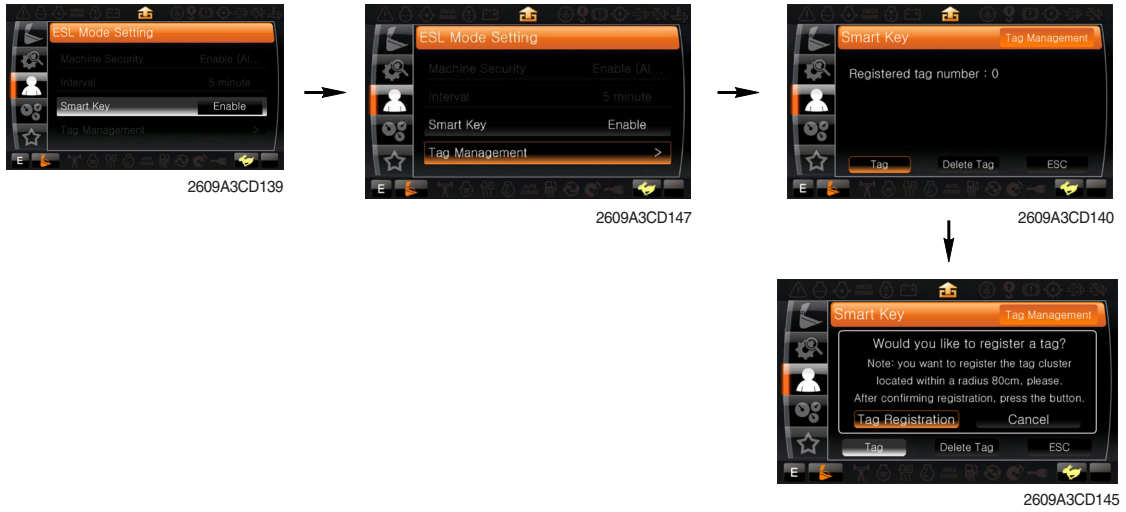
The interval time can be set maximum 4 hours.

※ Default password : 00000 *

※ Password length : (5~10 digit) + *

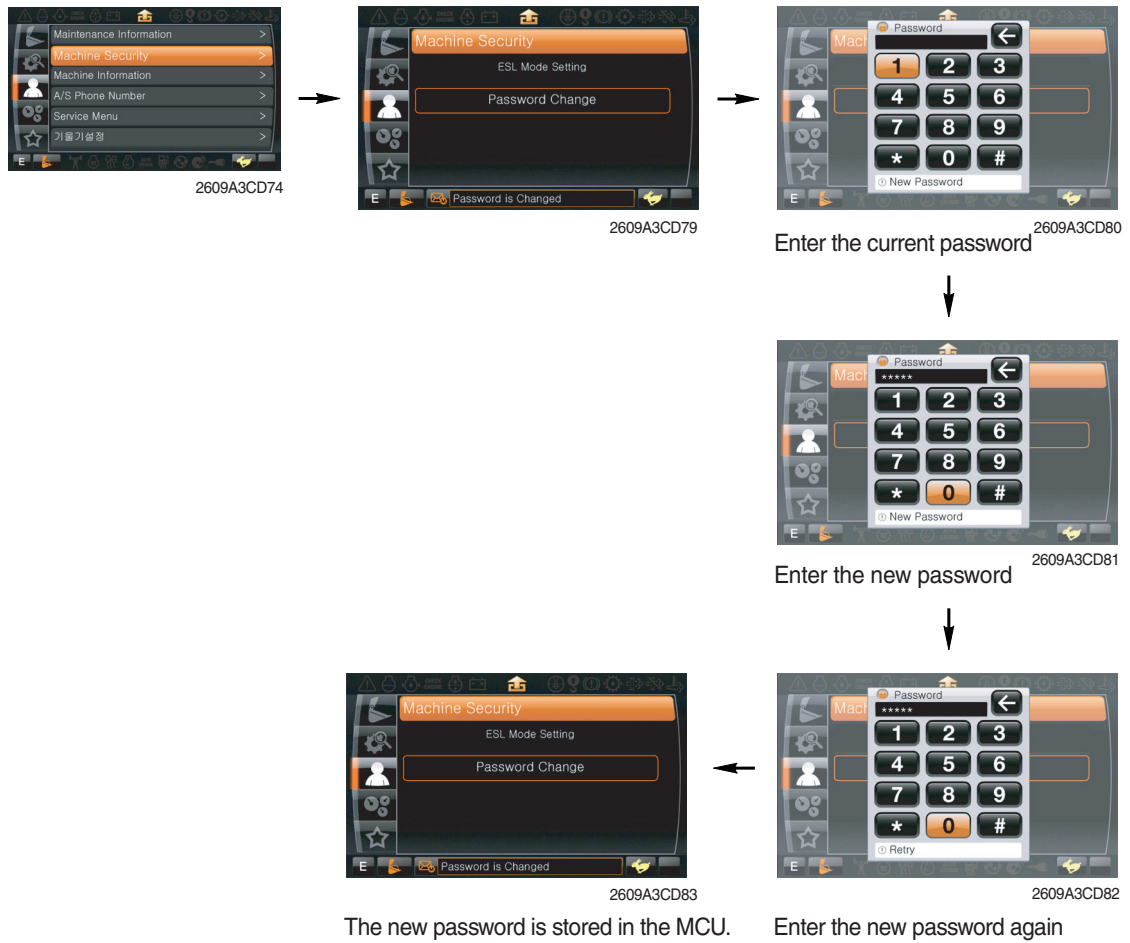


- **Smart key (option)** : Smart key is registered when the operator starts engine by start button first. If smart key is not inside of the cabin, authentication process fails and the password entering is needed.

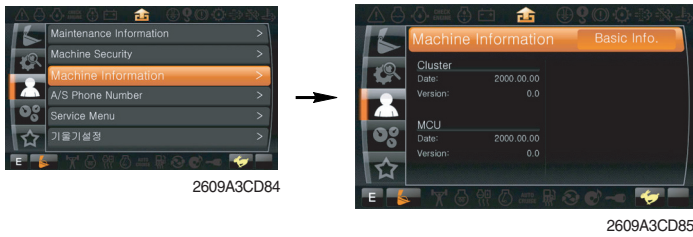


· **Password change**

- The password is 5~10 digits.

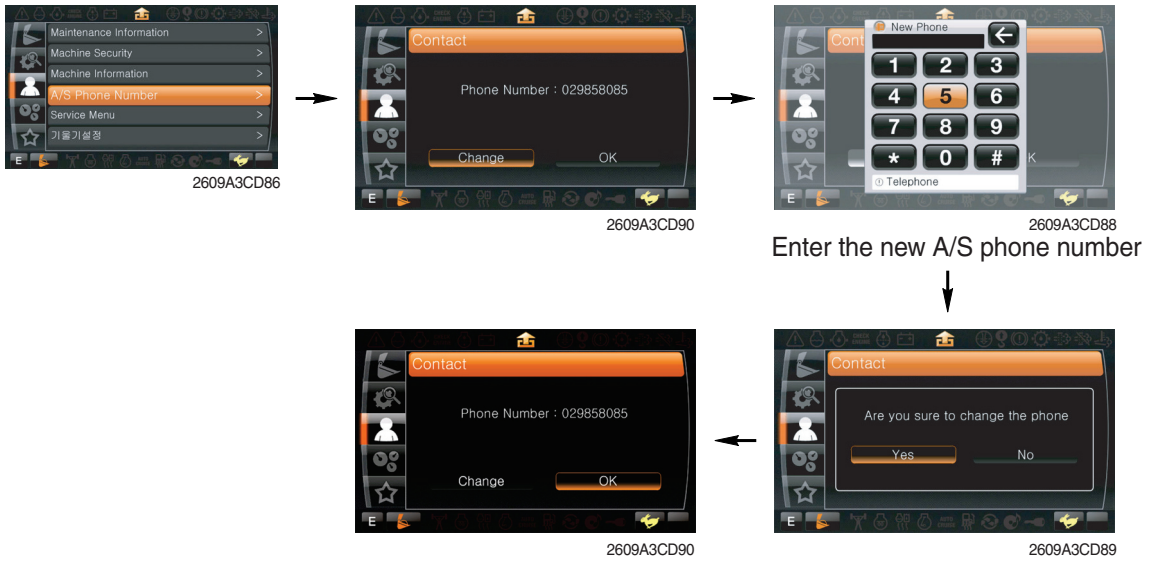


③ Machine Information



- This can confirm the identification of the cluster, MCU, engine and machine.

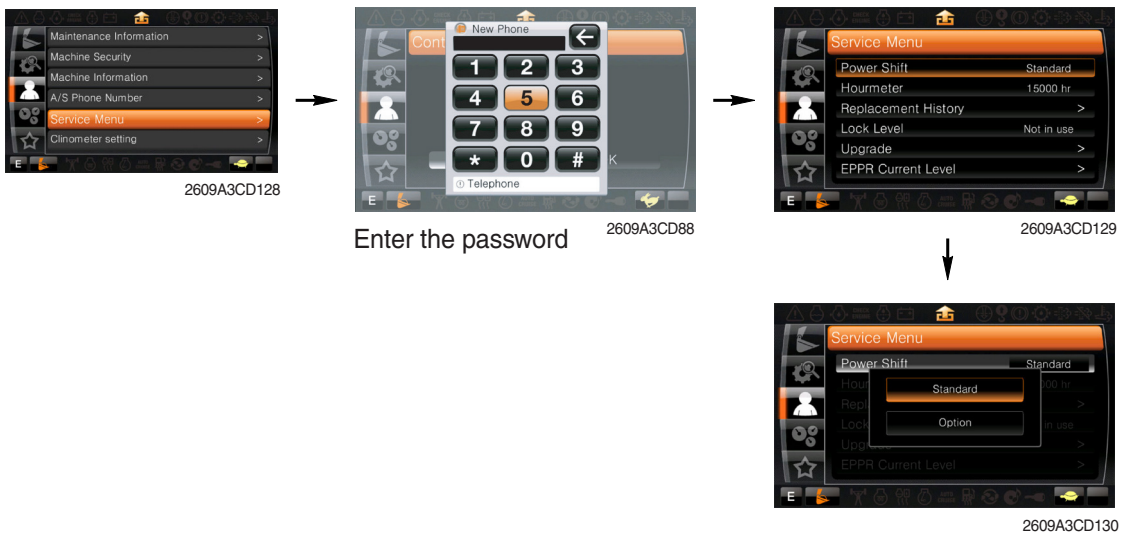
④ A/S phone number



Enter the new A/S phone number

The new phone number is stored in MCU

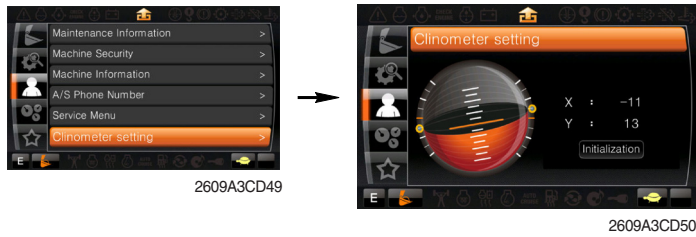
⑤ Service menu



Enter the password

- Power shift (standard/option) : Power shift pressure can be set by option menu.
- Hourmeter : Operating hours since the machine line out can be checked by this menu.
- Replacement history : Replacement history of the MCU and cluster can be checked by this menu.
- Lock level (not in use/in use)
- Upgrade : Firm ware can be upgraded by this menu. (the USB port is located under the cluster)
- EPPR current level (attach EPPR/boom priority EPPR)

⑥ Clinometer



- When the machine is on the flatland, if tap the "initialization", the values of X, Y reset "0".
- You can confirm tilt of machine in cluster's operating screen.

(5) Display

① Display item



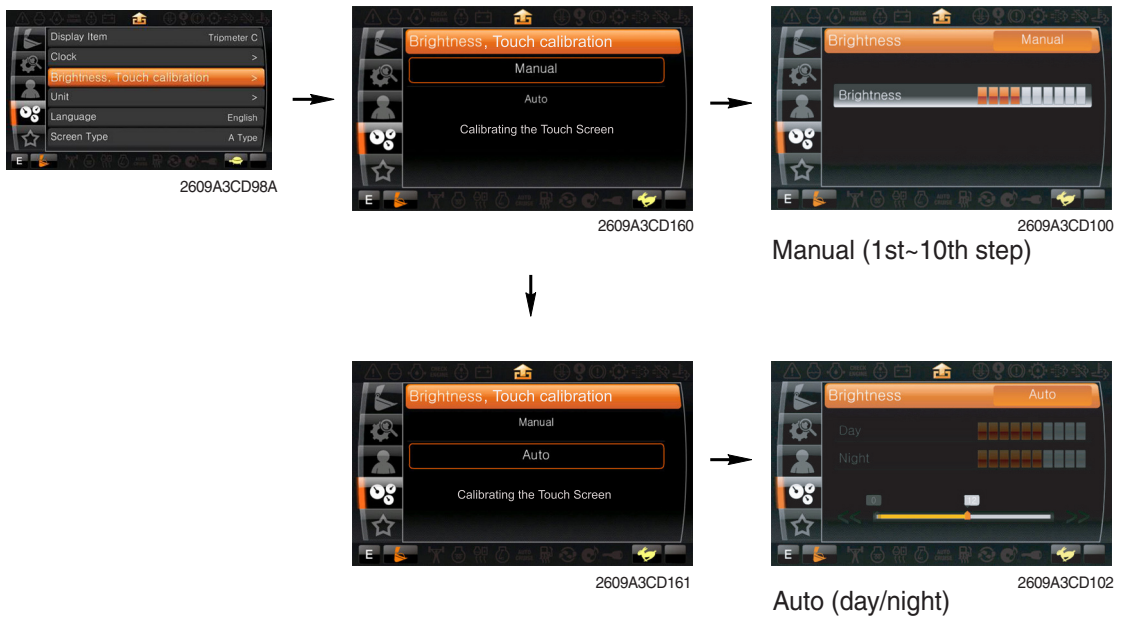
- The center display type of the LCD can be selected by this menu.
- The engine speed or each of the tripmeter (A,B,C) is displayed on the center display.

② Clock

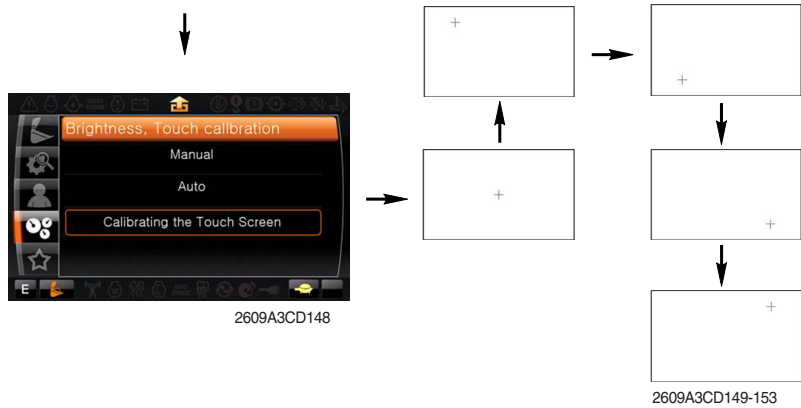


- The first line's three spots "**/**/****" represent Month/Day/Year each.
- The second line shows the current time. (0:00~23:59)

③ Brightness and touch calibration



- If "Auto" is chosen, brightness for day and night can be differently set up. Also by using the bar in lower side, users can define which time interval belongs to day and night. (in bar figure, white area represents night time while orange shows day time)
- **Touch calibration** - When touch awareness goes wrong, this function use.
 Fall in the next step if touches the middle point of cross with fingernail.
 If touches total five points as follows, the setting is completed.



④ Unit



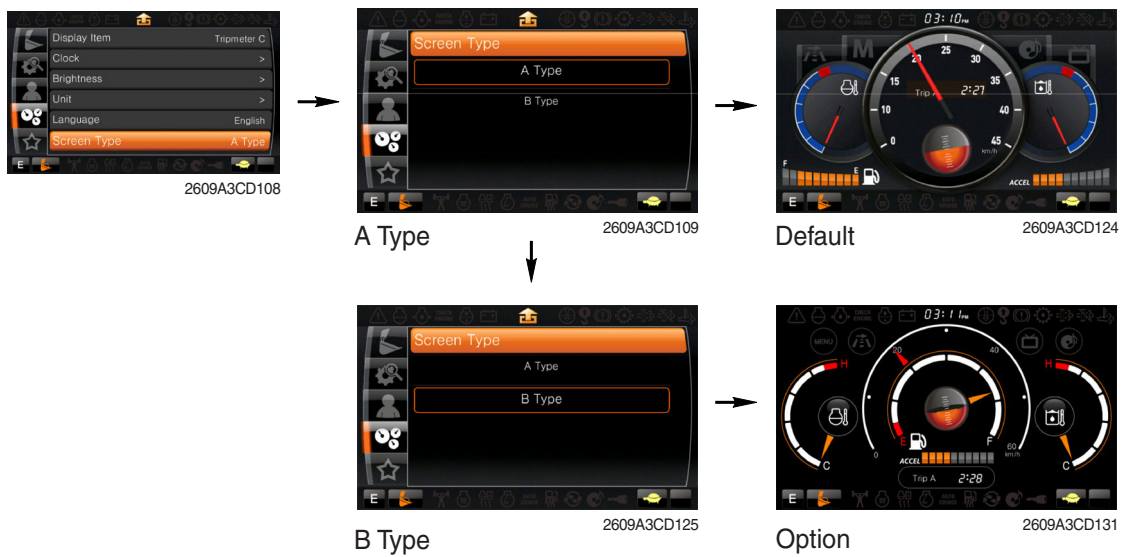
- Temperature : °C ↔ °F
- Pressure : bar ↔ MPa ↔ kgf/cm²
- Flow : lpm ↔ gpm
- Date format : yy/mm/dd ↔ mm/dd/yy ↔ dd-Mar-yy

⑤ Language



- User can select preferable language and all displays are changed the selected language.

⑥ Screen type



(6) Utilities

① Entertainment

- Play MP4 or codec file of external hard disk through USB port.
- The USB port is located under the cluster.



- Over 1100 engine rpm, the screen turns into the operation screen with MP4 or codec file playing for the safety.

② Tripmeter



- Maximum 3 kinds of tripmeters can be used at the same time.
- Each tripmeter can be turned on by choosing "Start" while it also can be turned off by choosing "Stop".
- If the tripmeter icon is activated in the operation screen, it can be controlled directly there.

③ Camera setting

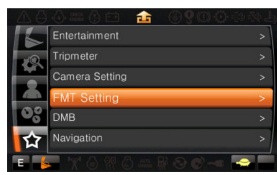
- Three cameras can be installed on the machine and the display order can be set by this menu.
- If the camera was not equipped, this menu is not useful.



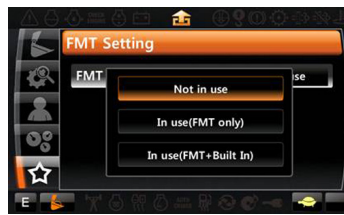
- Turning the select switch in clockwise direction, the next ordered will be shown and in counter-clockwise direction, the previously ordered will be shown.
- Push the select switch, the displayed screen will be enlargement.



④ FMT setting



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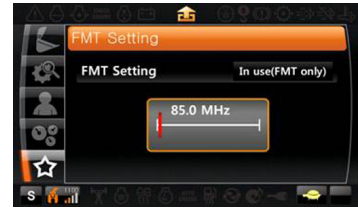
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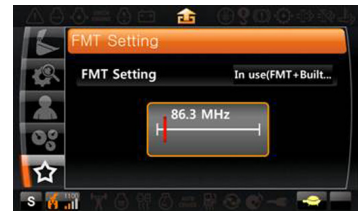
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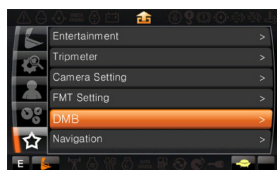
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- The function that can listen cluster's occurrence sound by inside speaker of cabin making frequency of audio identical in cluster's frequency and machine.
- Turn on the FMT function and sets frequency equally with frequency of audio in cabin.
 - Not in use : Cluster speaker only
 - In use (FMT only) : Cabin speaker only
 - In use (FMT+Built) : Cabin speaker + Cluster speaker

⑤ DMB (option)



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