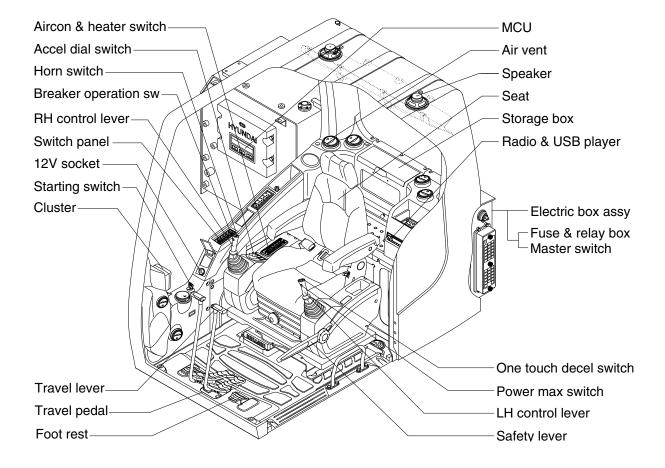
CONTROL DEVICES

1. CAB DEVICES

 The ergonomically designed console box and suspension type seat provide the operator with comfort.

2) ELECTRONIC MONITOR SYSTEM

- (1) The centralized electronic monitor system allows the status and conditions of the machine to be monitored at a glance.
- (2) It is equipped with a safety warning system for early detection of machine malfunction.



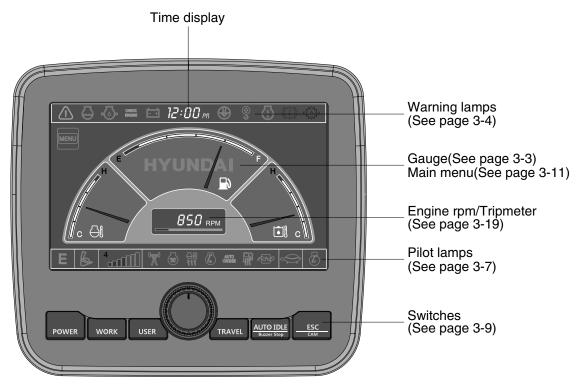
2209S3CD01

2. CLUSTER

1) STRUCTURE

The cluster consists of LCD and switches as shown below. The LCD is to warn the operator in case of abnormal machine operation or conditions for the appropriate operation and inspection. Also, The LCD is to set and display for modes, monitoring and utilities with the switches. The switches are to set the machine operation modes.

- * The cluster installed on this machine does not entirely guarantee the condition of the machine. Daily inspection should be performed according to chapter 6, Maintenance.
- * When the cluster provides a warning immediately check the problem, and perform the required action.



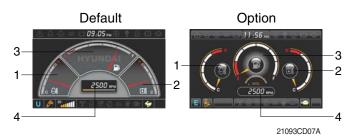
21093CD07

* 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 3-4 for details.

2) GAUGE

(1) Operation screen



- 1 Engine coolant temperature gauge
- 2 Hydraulic oil temperature gauge
- 3 Fuel level gauge
- 4 RPM / Tripmeter display
- Operation screen type can be set by the screen type menu of the display.
 Refer to page 3-21 for details.

(2) Engine coolant temperature gauge



- ① This gauge indicates the temperature of coolant.
 - 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 All lamp blinks in red, turn OFF the engine and check the engine cooling system.
- * If the gauge indicates the red range or A 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



- 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



21093CD07F

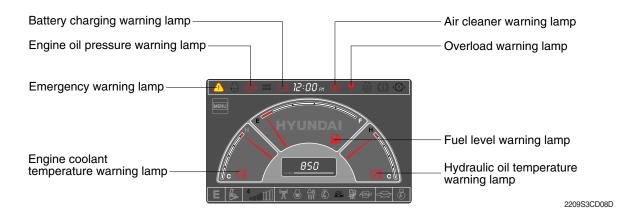
- ① This gauge indicates the amount of fuel in the fuel tank.
- ② Fill the fuel when the red range, or 🦳 lamp blinks in red.
- * If the gauge indicates the red range or lamp blinks in red even though the machine is on the normal condition, check the electric device as that can be caused by the poor connection of electricity or sensor.

(5) RPM / Tripmeter display



- ① This displays the engine speed or the tripmeter.
- Refer to page 3-19 for details.

3) WARNING LAMPS



Each warning lamp on the top of the LCD pops up on the center of LCD and the buzzer sounds

Each warning lamp on the top of the LCD pops up on the center of LCD and the buzzer sounds

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Each warning lamp on the low lamp of the LCD pops up on the center of LCD and the buzzer sounds

Each warning lamp on the low lamp of the low lamp of the lamp of the low lamp of the lamp of 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 3-10 for the select switch.

(1) Engine coolant temperature



21093CD08A

- ① Engine coolant temperature warning is indicated two steps.
 - 100°C over : The lamp blinks and the buzzer sounds.
 - 105°C over: The /i 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



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.

① This warning lamp blinks and the buzzer sounds when the level

3 Check the hydraulic oil level and hydraulic oil cooling system.

(3) Fuel level



- of fuel is below 55 ℓ (14.53 U.S. gal). ② Fill the fuel immediately when the lamp blinks.

21093CD08B

(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 105°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
- * 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.
- 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) 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.

(7) 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.

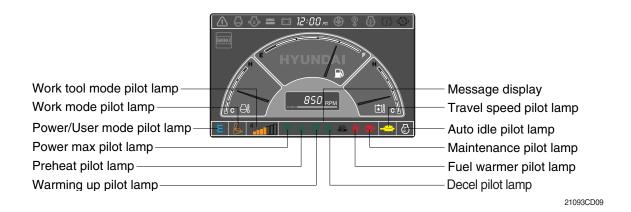
(8) Overload warning lamp (opt)



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.

4) PILOT LAMPS



(1) Mode pilot lamps

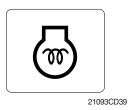
No	Mode	Pilot lamp	Selected mode
		P	Heavy duty power work mode
1	Power mode	S	Standard power mode
		E	Economy power mode
2	User mode	U	User preferable power mode
			General operation mode
3	Work mode		Breaker operation mode
			Crusher operation mode
4	Travel mode		Low speed traveling
4	Travel mode		High speed traveling
5	Auto idle mode	(Auto idle
6	Work tool mode	4	Oil flow level of breaker or crusher mode
7	Message display		"Setting is completed" display after selection

(2) Power max pilot lamp



- 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 page 3-26 for power max function.

(3) Preheat pilot lamp



- 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



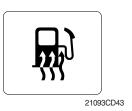
- ① This lamp is turned ON when the coolant temperature is below 30°C(86°F).
- ② The automatic warming up is cancelled when the engine coolant temperature is above 30°C, or when 10 minutes have passed since starting the engine.

(5) Decel pilot lamp



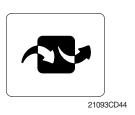
- ① Operating one touch decel switch on the RCV lever makes the lamp ON.
- ② Also, the lamp will be ON and engine speed will be lowered automatically to save fuel consumption when all levers and pedals are at neutral position, and the auto idle function is selected.
- One touch decel is not available when the auto idle pilot lamp
 is turned ON.
- ※ Refer to the page 3-26.

(6) Fuel warmer pilot lamp



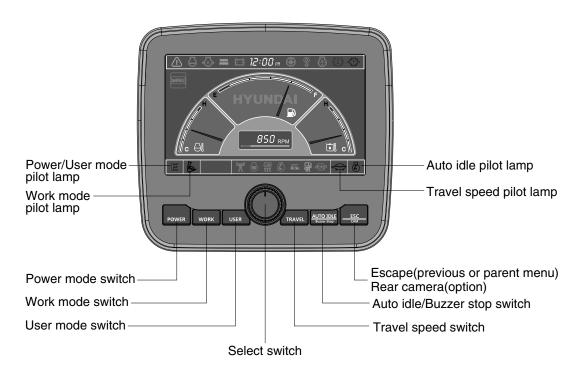
- ① This lamp is turned ON when the coolant temperature is below 10°C (50°F) or the hydraulic oil temperature 20°C (68°F).
- ② The automatic fuel warming is cancelled when the engine coolant temperature is above 60°C, or the hydraulic oil temperature is above 45°C since the start switch was ON position.

(7) Maintenance pilot lamp



- 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.

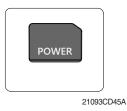
5) SWITCHES



21093CD45

When the switches are selected, the pilot lamps are displayed on the LCD. Refer to the page 3-7 for details.

(1) Power mode switch



- 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 $E \rightarrow S \rightarrow P \rightarrow E$ in order.

(2) Work mode switch



- 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 page 4-7 for details.

(3) User mode switch



21093CD45D

- 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.
- ② Refer to the page 3-12 for another set of user mode.

(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



21093CD45F

- 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



21093CD45G

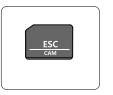
① This switch is used to select the travel speed alternatively.



: High speed



(7) Escape/Camera switch



21093CD45H

- 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 3-22 for the camera.
- ③ If the camera is not installed, this switch is used only ESC function.

6) MAIN MENU



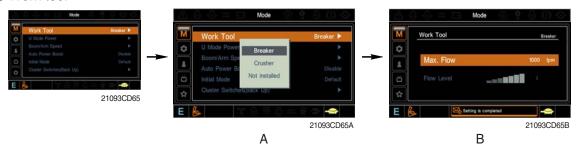
* Please refer to select switch, page 3-10 for selection and change of menu and input value.

(1) Structure

No	Main menu	Sub menu	Description
1	Mode 21093CD64D	Work tool U mode power Boom/Arm speed Auto power boost Initial mode Cluster switch (back up)	Breaker, Crusher, Not installed User mode only Boom speed, Arm speed Enable, Disable Default, U mode Switch function
2	Monitoring 21093CD64E	Active fault Logged fault Delete logged fault Monitoring (analog) Monitoring (digital) Operating hours	MCU MCU All logged fault delete, Initialization canceled Machine information Switch status, Output status Operating hours for each mode
3	Management 21093CD64F	Maintenance information Machine security Machine Information A/S phone number Service menu	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, Update
4	Display 21093CD64G	Display item Clock Brightness Unit Language Screen type	Engine speed, Tripmeter A, Tripmeter B, Tripmeter C Clock Manual, Auto Temperature, Pressure, Flow, Date format Korean, English, Chinese A type, B type
5	Utilities 21093CD64H	Tripmeter DMB (-#0438) Entertainment (-#0438) Camera setting Message box	3 kinds (A, B, C) DMB select, DAB select, Channel scan, Exit Play MP4, codec. Basic direction, Display switching, Full screen Record for fault, attachment etc.

(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.

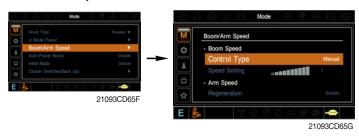
2 U mode power



- · 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	850 (low idle)	6
4	1600	900	9
5	1700	950	12
6	1750	1000 (decel rpm)	16
7	1800	1050	20
8	1850	1100	26
9	1900	1150	32
10	1950	1200	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



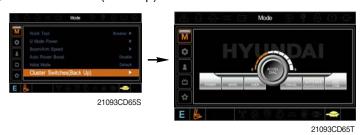
- · The power boost function can be activated or cancelled.
- Enable The digging power is automatically increased as working conditions by the MCU. It is operated max 8 seconds.
- · Disable Not operated.

(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.

6 Cluster switch (back up)



- The cluster switch can be selected and changed by this menu when the switches are abnormal on the cluster.
- In order to exit "Cluster switch" mode, please put the cursor on the ESC/CAM switch by turning the select switch and push the select switch.
- In "Cluster switch", other switches except "Select switch" do not work.

(3) Monitoring

① Active fault



· The active faults of the MCU can be checked by this menu.

2 Logged fault



 $\cdot\,$ The logged faults of the MCU can be checked by this menu.

3 Delete logged fault



· The logged faults of the MCU 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



· 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)	500
13	Radiator coolant	2000
14	Swing gear pinion grease	1000

(4) Management

① Maintenance information



· Alarm(🜣 🌞 🐞) : Gray 💢 - Normal

Yellow

→ - First warning

Red

→ - Second warning

Replacement : The elapsed time will be reset to zero (0).

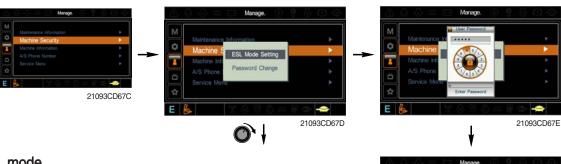
· Change interval : The change or replace interval can be changed in the unit of 50 hours.

· 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	1000
12	Air cleaner (inner)	500
13	Radiator coolant	2000
14	Swing gear pinion grease	1000

2 Machine security

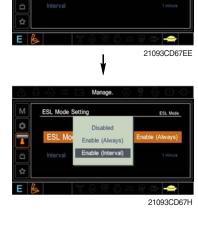


· ESL mode

- 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.
- Disable: Not used ESL function
 - Enable (always) : The password is required whenever the operator start engine.

Enable (interval): The password is required when the operator start engine first. But the operator can restart the engine within the interval time without inputting the password.

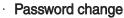
The interval time can be set maximum 4 hours.







Enter the current password ^{21093CD67V}



- The password is 5~10 digits.



Enter the new password 21093CD67VV



21093CD67X

The new password is stored in the MCU.



Enter the new password again

3-17

(3) Machine Information



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

4 A/S phone number



⑤ Service menu



- · 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.
- · Update : Firm ware can be upgraded by this menu. (the USB port is located under the cluster)

(5) Display

① Display item



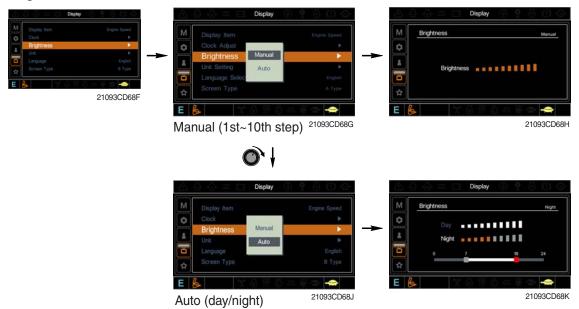
- · The center display type of the LCD can be selected by this menu.
- The engine speed or each of the tripmeter (A,B,C) is displayed on the center display.

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



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, gray area represents night time while white shows day time)

4 Unit



Temperature : °C ↔ °F

· Pressure : bar \leftrightarrow MPa \leftrightarrow kgf/cm²

· Flow : $lpm \leftrightarrow gpm$

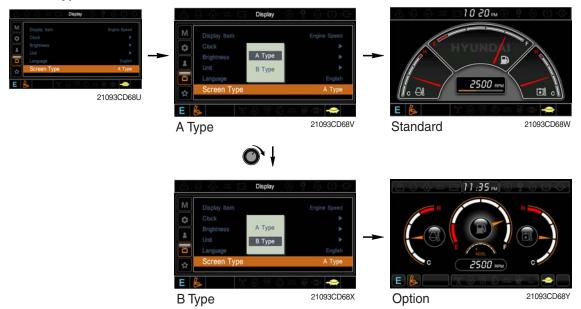
Date format : yy/mm/dd ↔ mm/dd/yy ↔ dd-Mar-yy

5 Language



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

6 Screen type



(6) Utilities

① 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.

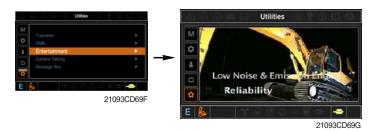
② DMB (-#0438)



- · DMB select : TV channel can be selected by this menu.
- · DAB select : Audio channel can be selected by this menu.
- · Channel scan: This menu can be used other region for TV/Audio.
- · Exit : Exit DMB menu

③ Entertainment (-#0438)

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



4 Camera setting



- · Three cameras can be installed on the machine.
- · The display order can be set by this menu.



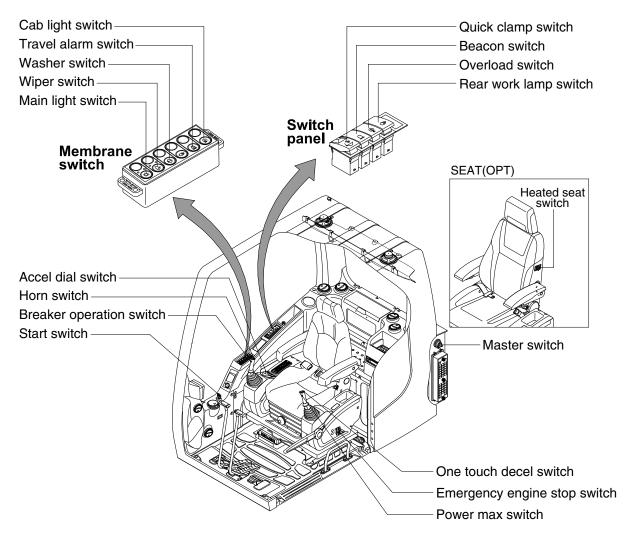
- · If the camera was not equipped, this menu is not useful.
- · In the operation screen, if the ESC/CAM switch is pushed, the first ordered display camera will be viewed.
- Turnning the select switch in clockwise direction, the next ordered will be shown and in counter-clockwise direction, the previously ordered will be shown.
- · Push the select switch, the displayed screen will be enlargement.

5 Message box

• The history of the machine operating status can be checked by this menu.



3. SWITCHES



2209SB3CD47

1) STARTING SWITCH



- (1) There are three positions, OFF, ON and START.
 - ∴ (OFF) : None of electrical circuits activate.
 ∴ (ON) : All the systems of machine operate.

· C(START) : Use when starting the engine.

Release key immediately after starting.

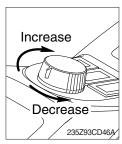
- If you turn ON the starting switch in cold weather, the fuel warmer is automatically operated to heat the fuel by sensing the coolant temperature. Start the engine in 1~2 minutes after turning ON the starting switch. More time may take according to ambient temperature.
- Key must be in the ON position with engine running to maintain electrical and hydraulic function and prevent serious machine damage.

2) MASTER SWITCH



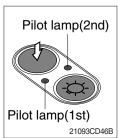
- (1) This switch is used to shut off the entire electrical system.
- (2) I: The battery remains connected to the electrical system.
 - O: The battery is disconnected to the electrical system.
- Never turn the master switch to O (OFF) with the engine running. Engine and electrical system damage could result.

3) ACCEL DIAL SWITCH



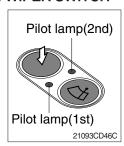
- (1) There are 10 dial setting.
- (2) Setting 1 is low idle and setting 10 is high idle.
 - · By rotating the accel dial to right: Engine speed increases
 - · By rotating the accel dial to left : Engine speed decreases

4) MAIN LIGHT SWITCH



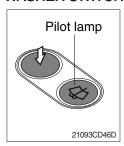
- (1) This switch used to operate the head light and work light.
 - Press the switch once, the head light comes ON and the 1st pilot lamp ON.
 - Press the switch once more, the work light comes ON and the 2nd pilot lamp ON.
 - · Press the switch again, return to a first step position.
 - · Press the switch more than one second to turn off lights.

5) WIPER SWITCH



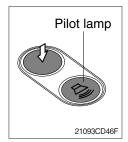
- (1) This switch used to operate wiper.
 - Press the switch once the wiper operates intermittently and the 1st pilot lamp comes ON.
 - · Press the switch once more, the wiper operates low speed and the 2nd pilot lamp comes ON.
 - · Press the switch again return to a first step position.
 - · Press the switch more than one second to turn off wiper.

6) WASHER SWITCH



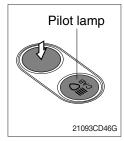
- (1) The washer liquid is sprayed and the wiper is operated only while pressing this switch.
- (2) The pilot lamp is turned ON when operating this switch.

7) TRAVEL ALARM SWITCH



- (1) This switch is to activate travel alarm function surrounding when the machine travels to forward and backward.
- (2) On pressing this switch, the alarm operates only when the machine is traveling.

8) CAB LIGHT SWITCH (option)



(1) This switch turns ON the cab light on the cab.

9) OVERLOAD SWITCH (option)



- (1) When this switch turned ON, buzzer makes sound and overload warning lamp comes ON in case that the machine is overload.
- (2) When it turned OFF, buzzer stops and warning lamp goes out.

10) QUICK CLAMP SWITCH (option)



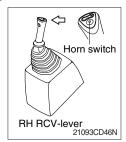
- (1) This switch is used to engage or disengage the moving hook on quick clamp.
- * Refer to the page 8-6 for details.

11) BEACON SWITCH (option)



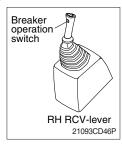
- (1) This switch turns ON the rotary light on the cab.
- (2) The indicator lamp is turned ON when operating this switch.

12) HORN SWITCH



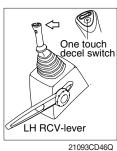
(1) This switch is at the top of right side control lever. On pressing, the horn sounds.

13) BREAKER OPERATION SWITCH



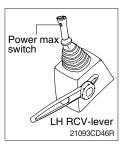
(1) On pressing this switch, the breaker operates only when the breaker operation mode is selected.

14) ONE TOUCH DECEL SWITCH



- (1) This switch is used to actuate the deceleration function quickly.
- (2) The engine speed is increased to previous setting value by pressing the switch again.
- (3) One touch decel function is available only when the auto idle pilot lamp is turned OFF.

15) POWER MAX SWITCH



- (1) This switch activate power max function. When this switch is kept pressed, hydraulic power of work equipment will be increased to approx 110 percent during 8 seconds.
- (2) After 8 seconds, function is cancelled automatically even the switch keeps pressed.
- ※ Do not use for craning purposes.

16) HEATED SEAT SWITCH (option)



(1) This switch is used to heat the seat.

· Heater ON : 10 ± 3.5 °C · Heater OFF : 20 ± 3 °C

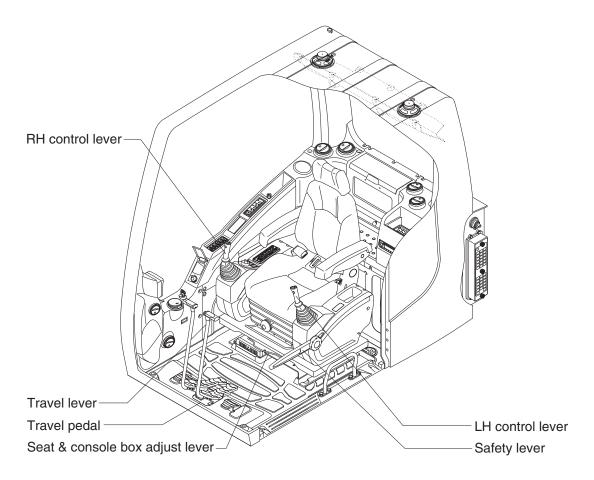
(2) On pressing the switch, the indicator lamp is turned ON.

17) REAR WORK LAMP SWITCH (option)



- (1) This switch is used to operate the rear work lamp.
- (2) The indicator lamp is turned on when operating this switch

4. LEVERS AND PEDALS



2209S3CD48

1) LH CONTROL LEVER



- (1) This joystick is used to control the swing and the arm.
- (2) Refer to operation of working device in chapter 4 for details.

2) RH CONTROL LEVER



- (1) This joystick is used to control the boom and the bucket.
- (2) Refer to operation of working device in chapter 4 for details.

3) SAFETY LEVER



- (1) All control levers and pedals are disabled from operation by locating the lever to lock position as shown.
- * Be sure to lower the lever to LOCK position when leaving from operator's seat.
- (2) By pull lever to UNLOCK position, the machine is operational.
- Do not use the safety lever for handle when getting on or off the machine.

4) TRAVEL LEVER



- (1) This lever is mounted on travel pedal and used for traveling by hand. The operation principle is same as the travel pedal.
- (2) Refer to traveling of the machine in chapter 4 for details.

5) TRAVEL PEDAL



- (1) This pedal is used to move the machine forward or backward.
- (2) If left side pedal is pressed, left track will move.
 If right side pedal is pressed, right track will move.
- (3) Refer to traveling of machine in chapter 4 for details.

6) SEAT AND CONSOLE BOX ADJUST LEVER

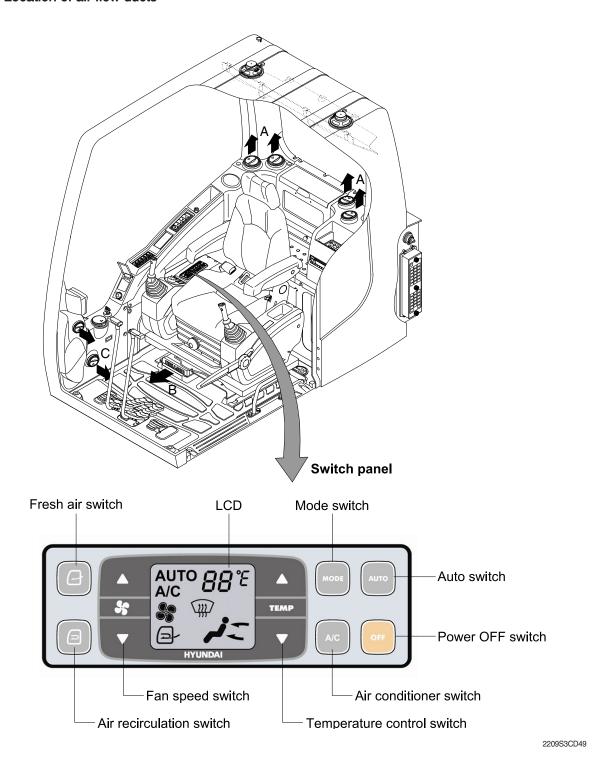


- (1) This lever is used to move the seat and console box to fit the contours of the operator's body.
- (2) Pull the lever to adjust forward or backward over 170 mm (6.7").

5. AIR CONDITIONER AND HEATER

Full auto air conditioner and heater system automatically keeps the optimum condition in accordance with operator's temperature configuration sensing ambient and cabin inside temperature.

· Location of air flow ducts



1) POWER OFF SWITCH



(1) This switch makes the system and the LED OFF. Just before the power OFF, set values are stored.

(2) Default setting values

Function	Air conditioner	In/outlet	LCD	Temperature	Mode
Value	OFF	Inlet	OFF	Previous sw OFF	Previous sw OFF

2) AUTO SWITCH



- (1) Turn the starting switch to ON position, LCD lights ON. Auto air conditioner and heater system automatically keeps the optimum condition in accordance with operator's temperature configuration sensing ambient and cabin inside temperature.
- (2) This switch can restart system after system OFF.

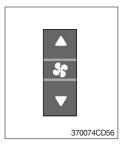
3) AIR CONDITIONER SWITCH (compressor switch)



- (1) This switch turns the compressor and the LCD ON.
- (2) In accordance with the temperature sensed by duct (evaporator) sensor, compressor turns ON or OFF automatically.
- Air conditioner operates to remove vapor and drains water through a drain hose. Water can be sprayed into the cab in case that the drain cock at the ending point of drain hose has a problem.

In this case, exchange the drain cock.

4) FAN SPEED SWITCH



- (1) Fan speed is controlled automatically by setted temperature.
- (2) This switch controls fan speed manually.
 - · There are 8 up/down steps to control fan speed.
 - · The maximum step or the minimum step beeps 5 times.
- (3) This switch makes the system ON.

5) TEMPERATURE CONTROL SWITCH



- (1) Setting temperature indication (Lo, 18~31°C, Hi, scale: 1°C)
- (2) Max cool and max warm beeps 5 times.
- (3) The max cool or the max warm position operates as following table.

Temperature	Compressor	Fan speed	In/Outlet	Mode
Max cool	ON	Max (Hi)	Recirculation	Vent
Max warm	OFF	Max (Hi)	Fresh	Foot

- (4) Temperature unit can be changed between celsius (°C) and fahrenheit (°F)
- ① Default status (°C)
- ② Push Up/Down temperature control switch simultaneously more than 5 second displayed temperature unit change (°C → °F)

6) MODE SWITCH



- (1) Operating this switch, it beeps and displays symbol of each mode in order.
 - \cdot Vent \rightarrow Vent/Foot \rightarrow Def/Foot \rightarrow Def/Vent \rightarrow Def/Vent/Foot

		Vent	Vent/Foot	Def/Foot	Def/Vent	Def/Vent/Foot
Mode s	witch	- زر	تام		- C	# -
	Α					•
Outlet	В					
	С					

(2) When defroster mode operating, FRESH AIR/AIR RECIRCULATION switch turns to FRESH AIR mode and air conditioner switch turns ON.

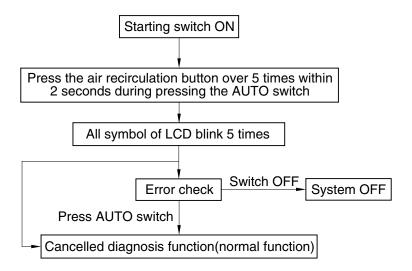
7) FRESH AIR/AIR RECIRCULATION SWITCH



- (1) It is possible to change the air-inlet method.
- ① Fresh air () Inhaling air from the outside.
- Check out the fresh air filter periodically to keep a good efficiency.
- ② Air recirculation () It recycles the heated or cooled air to increase the energy efficiency.
- Change air occasionally when using recirculation for a long time.
- * Check out the recirculation filter periodically to keep a good efficiency.

8) SELF DIAGNOSIS FUNCTION

(1) Procedure



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(2) Error check

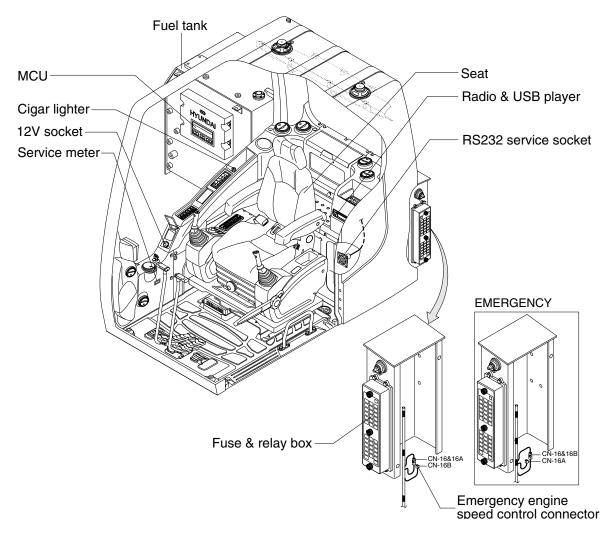
- The corresponding error code flickers on the setup temperature display panel, the other symbol bol will turn OFF.
- · Error code flickers every 0.5 second.
- · If error code is more than two, each code flickers 2 times in sequence.
- · Error code

Error code	Description	Error code	Description
11	Cabin inside sensor	16	Mode actuator 1
12	Ambient sensor	17	Mode actuator 2
14	Duct (evaporator) sensor	18	Intake actuator
15	Temp actuator	-	-

(3) Fail safe function

Error description	Fail safe function
Cabin inside sensor (11)	25°C alternate value control
Ambient sensor (12)	20°C alternate value control
Duct (evaporator) sensor (14)	1°C alternate value control
Tomp actuator (15)	If opening amount is 0 %, the alternate value is 0 %
Temp actuator (15)	If not, the alternate value is 100 %
Mode actuator 1, 2 (16, 17)	The alternate value is Vent

6. OTHERS



2609SBCD50

1) CIGAR LIGHTER



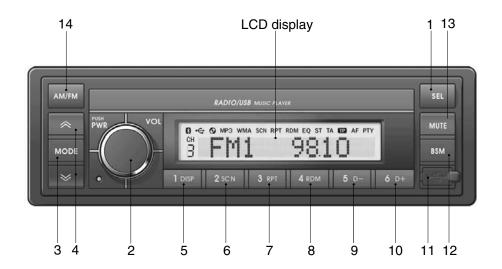
- (1) This can be used when the engine starting switch is ON.
- (2) The lighter can be used when it springs out in a short while after being pressed down.
- Service socket
 Use cigar lighter socket when you need emergency power.
 Do not use the lighter exceeding 24V, 100W.

2) 12V SOCKET



(1) Utilize the power of 12V as your need and do not exceed power of 12 V, 30 W.

3) RADIO AND USB PLAYER: MACHINE SERIAL NO.: -#0002



75793CD62

■ FRONT PANEL PRESENTATION

1	SEL	Sound function selection button
		(audio selection)

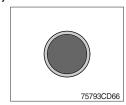
- 2 Power and volume button
- 3 MODE Mode button (select RADIO / USB / AUX)
- 4 UP / DOWN tuning button
- 5 1 Preset memory button 1
 DISP ID3 v2 display
- 6 2 Preset memory button 2 SCN File scan
- 7 3 Preset memory button 3 RPT Repeat play selector
- 8 4 Preset memory button 4 RDM Preset memory button 4
- 9 5 Preset memory button 5 D-..... Directory down

10 6 Preset memory button 6
D+ Directory up

- 11 Aux function
- 12 BSM Preset scan (PS)
 Best station memory (BSM)
- 13 MUTE Audio mute button
- 14 AM/FM ······· AM / FM button (radio)

■ GENERAL

(1) Power and volume button



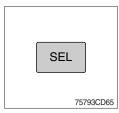
① Power ON/OFF button

Press power button to turn the unit ON or OFF shortly. When the power is ON, the previous mode (last memory) will appear.

② Volume up / down control

Turn volume up / down button right to increase the volume level. The level will be shown in VOLUME xx on the LCD display. Turn it left to decrease the volume level. After 5 seconds of volume indication, display will return to the previous mode.

(2) Sound function selection button (audio selection)



① This button is to adjust the sound. Each time you press power button shortly, LCD displays each mode as follows:

** When this button is pressed, LCD display shows selected function for 5 seconds and then returns back to the previous mode. On selected function, level can be controlled by turning this button. The display will automatically return to normal indication in 5 seconds after the last adjustment is made or when another function is activated.

② Bass control

To adjust the bass level, first select the bass mode by pressing the select button select button tuntil BASS indication appears on the LCD display. Within 5 seconds of choosing the bass mode, turn power button right / left to adjust the bass level as desired.

The bass level will be shown on the LCD display from a minimum of BASS –10 to a maximum of BASS +10.

The display will automatically return to the normal indication in 5 seconds after the last adjustment or when another function is activated.

③ Treble control

To adjust the treble level, first select the treble mode by pressing the select button until TREBLE indication appears on the LCD display. Within 5 seconds of choosing the treble mode, turn power button right / left to adjust the treble level as desired.

The treble level will be shown on the LCD display from a minimum of TREBLE -10 to a maximum of TREBLE +10.

The display will automatically return to the normal indication in 5 seconds after the last adjustment or when another function is activated.

4 Balance control

To adjust the left-right speaker balance, first select the balance mode by pressing the select button set until the BAL indication appears on the LCD display.

Within 5 seconds of choosing the balance mode, turn power button right / left to adjust the balance as desired.

The balance position will be shown on the LCD display from BAL 10L (full left) to BAL 10R (full right).

When the volume level between the left and right speakers is equal, BAL L=R will be shown on the LCD display panel.

The display will automatically return to the normal indication in 5 seconds after the last adjustment or when another function is activated.

⑤ Beep control

To adjust the beep mode, first select the beep mode by pressing the select button select button until BEEP indication appears on the LCD display. The beep mode will be shown on the LCD display from BEEP 2ND, BEEP OFF and BEEP ON by turning power button right / left.

The display will automatically return to the normal indication in 5 seconds after the last adjustment or when another function is activated.

Select BEEP ON when you wish to hear the BEEP sound whenever any function button is pressed.

Select BEEP 2ND when you wish to hear the BEEP sound whenever any tuner pre-set button and/or tune seek buttons are pressed for more than 3 seconds.

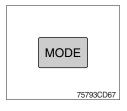
6 Loud control

When listening to music at low volume levels, this feature will boost the bass and treble response.

This action will compensate for the reduction in bass and treble performance experienced at low volume.

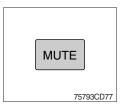
To select the loudness feature, press select button set until LOUD ON or LOUD OFF is displayed, then turn power button left or right to activate or deactivate loudness.

(3) Mode button



① Press mode button to select RADIO / USB / AUX.

(4) Audio mute button

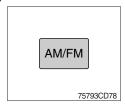


① Press mute button momentarily to mute volume and MUTE mark will blink on the LCD display.

Press the button again to return to the mode in use before the mute mode was activated.

■ RADIO

(1) AM / FM / LW band selector

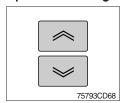


① Each time this button is pressed, the radio button is changed. Each time this button is pressed, LCD displays each band as follows:

$$FM1 \rightarrow FM2 \rightarrow FM3 \rightarrow AM \rightarrow LW$$

* LW band is only available for Europe.

(2) Up / down tuning

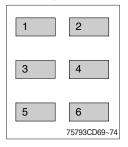


① To automatically select a radio station, momentarily press the up tune seek button ∞ or down tune seek button ∞ for less than 3 seconds to search for the closest radio station.

To manually select a radio station, press the up tuning & down tuning button for longer than 3 seconds.

The radio frequency will move up or down step by step each time you press button.

(3) Station pre-set button

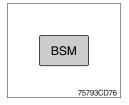


① Pressing these buttons shortly will recall your favorite pre-set radio stations.

To store your favorite stations into any of the 6 pre-set memories in each band (AM/FM/LW), use the following procedure:

- a. Turn the radio ON and select the desired band.
- b. Select the first station to be pre-set using the manual up/down or automatic seek tuning control button.
- c. Press the chosen pre-set button to store your selected station into and continue to hold it in. The beep sound will be momentarily heard and the pre-set number will apear on the LCD display indicating that the station is now set into that pre-set memory position and can be recalled at any time, by pressing that pre-set button.

(4) Pre-set scan (PS) / Best station memory (BSM) button



① Pre-set scan (PS)

Press BSM button shortly to scan the 6 pre-set station stored the memories on each band (AM/FM/LW).

The unit will stop at each pre-set station (the pre-set number on the LCD display will flash during pre-set scan operation) and remain on the selected frequency. Press the button momentarily again to remain on the station currently being heard.

② Best station memory (BSM)

Pressing BSM button for longer than 2 seconds will activate the BSM tuning feature which will automatically scan and enter each station into memory.

If you have already set the pre-set memories to your favorite stations, activating the BSM tuning feature will erase those stations and enter the new ones.

This BSM feature is most useful when traveling in a new area where you are not familiar with the local stations.

■ USB PLAYER

(1) USB function

There are two ways to play mp3 files in a USB device: using USB socket in the cab and the USB/AUX cable connected to the front side of the player.

· Use of USB socket

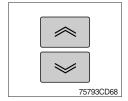
- ① Connect a USB device, which saves mp3 files, to USB socket in the cabin.
- ② If a USB device has not been connected, MP3 files are automatically played when you insert it into the USB port.
- ③ If a USB device has connected, MP3 files are played when you press mode for USB.
- · Use of USB/AUX cable (option)



75793CD81

- ① Connect the USB/AUX cable to the player in order to play MP3 files in a USB device.
- ② If a USB device has not been connected, MP3 files are automatically played when you insert it into the cable.
- ③ If a USB device has connected, MP3 files are played when you press mode for USB.

(2) File selection & cue / review button



① File selection function

This button is used to select file up / down. Each time the forward file select *∞* is pressed, file number is increased.

Each time the backward file select *≫* is pressed, file number is decreased.

② Cue / review functions

High-speed audible search of file on a USB can be made by this button (the cue and review functions).

Press and hold the cue button ∞ to advance rapidly in the forward direction or the review button ∞ to advance rapidly in the backward direction.

(3) MP3 directory / file searching

① The power button is used to select a particular directory and file.

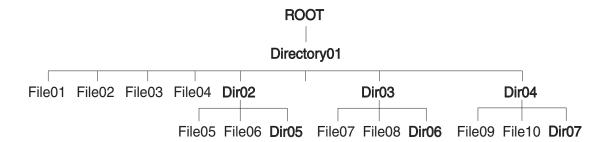
Press and hold for more than 3 seconds while playing MP3 file.

Turn right / left the power button to search the directory. Press the button when you find the wanted directory.

For example, the directory search generally changes in two methods depending on the order of writing as follows.

If you want to search the file in the located directory, turn right / left the power button consecutively. Press the button when you find the wanted file. The unit will then play the selected file. For instance, the file search changes in Dir01 as follows.

* MP3 direction / file configuration

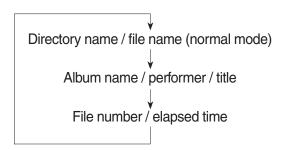


(4) ID3 v2 display

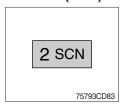


- ① Disp button is used to change the display information.

 While playing an MP3 file, you can change the file information shown on the LCD display.
 - Each time you press DISP (display), the display changes to show the following.
- * If the MP3 disc does not have any ID3 information, the display will show NO ID3 on LCD display.



(5) File scan (SCN)



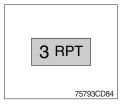
① During USB play, press SCN button to play the first 10 seconds of each file on the whole file on the USB (SCN mark will appear on the LCD display).

When a desired file is reached, press the SCN button again to cancel the function.

The unit will then play the selected file.

** In case of playing MP3 file, when the SCN (scan) button is pressed and held for longer than 2 seconds, the SCN mark will blink on the LCD display and all files in the selected directory will be introduced until the file scan mode is cancelled by pressing the SCN button again or by activating the random or repeat functions.

(6) Repeat play selector (RPT)



- ① During USB play, press RPT button to play the selected file repeatedly (RPT will appear on the LCD display).
 - Play of the file will continue to repeat until this button is pressed again and the RPT disappears from the LCD display.
- ** In case of playing MP3 file, when the RPT button is pressed and held longer than 2 seconds, the RPT mark will blink on the LCD display and play all files in the selected directory and will be repeated until the directory repeat mode is cancelled by pressing the repeat button again or by activating the scan or random functions (RPT mark will disappear from LCD display).

(7) Random play selector (RDM)

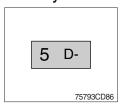


① During USB play, press RDM button to play the files on the USB in a random shuffled order (RDM will appear on the LCD display). The file select function will also select file in the random order instead of the normal process.

The random play mode can be cancelled by this button again.

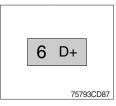
** In case of MP3 file, when the random button is pressed and held longer than 2 seconds, the RDM mark will blink on the LCD display and play all files in directory randomly until the directory random mode is cancelled by pressing the random button again or by activating the scan or repeat functions (RDM mark will disappear from LCD display).

(8) Directory down



① Press D- button briefly while playing MP3. The previous directory is located each time you press this button.

(9) Directory up

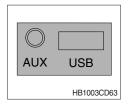


- ① Press D+ button briefly while playing MP3. The next directory is located each time you press this button.
- * If the MP3 file does not have a directory, the unit play MP3 at 10-file intervals.
- * If any MP3 file does not exist in USB, this button can not operate.

■ AUX PLAYER

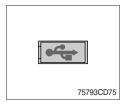
(1) Aux function

· Use of USB socket



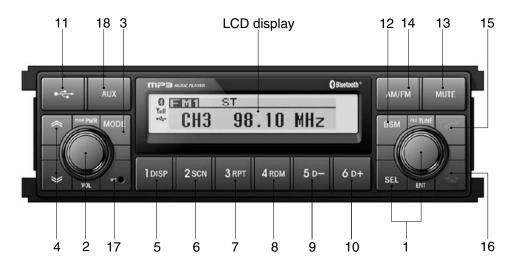
- ① If you want to listen to music of a external audio device, connect a external audio device into the USB port.
- ② Press mode button to change a current mode for AUX. If audio file of audio device is playing, you can listen to music through speaker.

Use of USB/AUX cable (option)



- ① If you want to listen to music of a external audio device, connect a external audio device through USB/AUX cable.
- ② Press mode button to change a current mode for AUX. If audio file of audio device is playing, you can listen to music through speaker.

RADIO AND USB PLAYER: MACHINE SERIAL NO.: #0003-#0079



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FRONT PANEL PRESENTATION			
1	SEL	······ Audio selection button	
		Audio selection knob	
2		······ Power and volume button	
3	MODE	Mode button (select RADIO / USB / AUX)	
4		UP / DOWN tuning button	
5	DISP ··	Preset memory button 1 ID3 v2 display	
6	2 SCN···	Preset memory button 2 File scan	
7	3 RPT	Preset memory button 3 Repeat play selector	
8	4 RDM ···	Preset memory button 4 Random play selector	

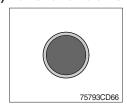
..... Preset memory button 5

D- Directory down

10		Preset memory button 6 Directory up
11	•	Aux function
12	BSM	······ Preset scan (PS) Best station memory (BSM)
13	MUTE	······ Audio mute button
14	AM/FM	······ AM / FM button (radio)
15		······ Send
16	\sim	······ End
17	MICO	······ MIC (microphone)
18	AUX	Aux connector

■ GENERAL

(1) Power and volume button



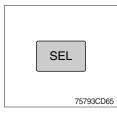
① Power ON/OFF button

Press power button to turn the unit ON or OFF shortly. When the power is ON, the previous mode (last memory) will appear.

② Volume up / down control

Turn volume up / down button right to increase the volume level. The level will be shown in VOLUME xx on the LCD display. Turn it left to decrease the volume level. After 5 seconds of volume indication, display will return to the previous mode.

(2) Sound function selection button (audio selection)



① This button is to adjust the sound. Each time you press SEL button shortly, LCD displays each mode as follows:

When this button is pressed, LCD display shows selected function for 5 seconds and then returns back to the previous mode. On selected function, level can be controlled by turning this button. The display will automatically return to normal indication in 5 seconds after the last adjustment is made or when another function is activated.

② Bass control

To adjust the bass level, first select the bass mode by pressing the SEL button until BASS indication appears on the LCD display. Within 5 seconds of choosing the bass mode, turn button selection knob right / left to adjust the bass level as desired.

The bass level will be shown on the LCD display from a minimum of BASS –10 to a maximum of BASS +10.

The display will automatically return to the normal indication in 5 seconds after the last adjustment or when another function is activated.

③ Treble control

To adjust the treble level, first select the treble mode by pressing the SEL button until TREBLE indication appears on the LCD display. Within 5 seconds of choosing the treble mode, turn button selection knob right / left to adjust the treble level as desired.

The treble level will be shown on the LCD display from a minimum of TREBLE -10 to a maximum of TREBLE +10.

The display will automatically return to the normal indication in 5 seconds after the last adjustment or when another function is activated.

④ Balance control

To adjust the left-right speaker balance, first select the balance mode by pressing the SEL button until the BAL indication appears on the LCD display.

Within 5 seconds of choosing the balance mode, turn button selection knob right / left to adjust the balance as desired.

The balance position will be shown on the LCD display from BAL 10L (full left) to BAL 10R (full right).

When the volume level between the left and right speakers is equal, BAL L=R will be shown on the LCD display panel.

The display will automatically return to the normal indication in 5 seconds after the last adjustment or when another function is activated.

⑤ Loud control

When listening to music at low volume levels, this feature will boost the bass and treble response.

This action will compensate for the reduction in bass and treble performance experienced at low volume.

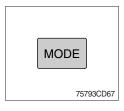
To select the loudness feature, press SEL button until LOUD ON or LOUD OFF is displayed, then turn power button (type A) or selection knob (type B) left or right to activate or deactivate loudness.

6 Equalizer (EQ)

You can select an equalizer curve designed for 4 music types (POP, ROCK, CLASSIC, JAZZ).

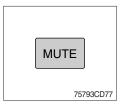
To select the desired curve, first select the EQ mode by pressing SEL button until the "EQ OFF" indication appears on the display panel. Within 5 seconds of choosing the EQ mode, turn power and volume button (type A) or selection knob (type B) to select an equalizer curve as desired.

(3) Mode button



① Press mode button to select RADIO / USB / AUX / BT audio.

(4) Audio mute button

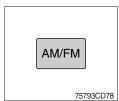


① Press mute button momentarily to mute volume and MUTE mark will blink on the LCD display.

Press the button again to return to the mode in use before the mute mode was activated.

■ RADIO

(1) AM / FM / LW band selector



① Each time this button is pressed, the radio button is changed. Each time this button is pressed, LCD displays each band as follows:

$$FM1 \rightarrow FM2 \rightarrow FM3 \rightarrow AM \rightarrow LW$$

* LW band is only available for Europe.

(2) Up / down tuning

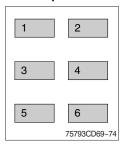


① To automatically select a radio station, momentarily press the up tune seek button ∞ or down tune seek button ∞ for less than 3 seconds to search for the closest radio station.

To manually select a radio station, press the up tuning & down tuning button for longer than 3 seconds.

The radio frequency will move up or down step by step each time you press button.

(3) Station pre-set button



① Pressing these buttons shortly will recall your favorite pre-set radio stations.

To store your favorite stations into any of the 6 pre-set memories in each band (AM/FM/LW), use the following procedure:

- a. Turn the radio ON and select the desired band.
- b. Select the first station to be pre-set using the manual up/down or automatic seek tuning control button.
- c. Press the chosen pre-set button to store your selected station into and continue to hold it in. The beep sound will be momentarily heard and the pre-set number will apear on the LCD display indicating that the station is now set into that pre-set memory position and can be recalled at any time, by pressing that pre-set button.

(4) Pre-set scan (PS) / Best station memory (BSM) button



① Pre-set scan (PS)

Press BSM button shortly to scan the 6 pre-set station stored the memories on each band (AM/FM/LW).

The unit will stop at each pre-set station (the pre-set number on the LCD display will flash during pre-set scan operation) and remain on the selected frequency. Press the button momentarily again to remain on the station currently being heard.

② Best station memory (BSM)

Pressing BSM button for longer than 2 seconds will activate the BSM tuning feature which will automatically scan and enter each station into memory.

If you have already set the pre-set memories to your favorite stations, activating the BSM tuning feature will erase those stations and enter the new ones.

This BSM feature is most useful when traveling in a new area where you are not familiar with the local stations.

■ USB PLAYER



75793CD81-1

(1) USB function

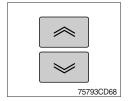
- ① Connect a USB device if you want to listen to MP3 file in a USB device.
- ② It will automatically play MP3 file in the USB device and the LCD display will show "READING USB"
- * If there are no files on USB device, playback will revert back to the previous mode after displaying "NO FILE".

(2) AUX function

- ① If you want to listen to music of a external audio device, connect a external audio device through AUX cable.
- ② Change AUX mode by pressing MODE button.

 If audio file of Audio device is playing, you can listen to music through speaker.

(3) File selection & cue / review button



① File selection function

This button is used to select file up / down.

Each time the forward file select *∞* is pressed, file number is increased.

Each time the backward file select $>\!\!\!>$ is pressed, file number is decreased.

2 Cue / review functions

High-speed audible search of file on a USB can be made by this button (the cue and review functions).

Press and hold the cue button \sim to advance rapidly in the forward direction or the review button \sim to advance rapidly in the backward direction.

(4) MP3 directory / file searching

① The D-, D+ button is used to select a particular directory and file.

Press and hold for more than 3 seconds while playing MP3 file.

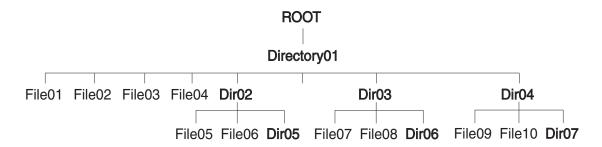
Turn right / left the power button (type A) or selection knob (type B) to search the directory. Press the button when you find the wanted directory.

For example, the directory search generally changes in two methods depending on the order of writing as follows.

If you want to search the file in the located directory, turn right / left the power button (type A) or selection knob (type B) consecutively. Press the button when you find the wanted file. The unit will then play the selected file.

For instance, the file search changes in Dir01 as follows.

* MP3 directory / file configuration

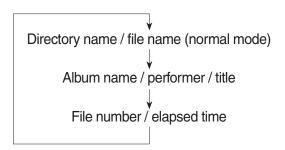


(5) ID3 v2 display



- ① Disp button is used to change the display information.

 While playing an MP3 file, you can change the file information shown on the LCD display.
 - Each time you press DISP (display), the display changes to show the following.
- * If the MP3 disc does not have any ID3 information, the display will show NO ID3 on LCD display.



(6) File scan (SCN)



① During USB play, press SCN button to play the first 10 seconds of each file on the whole file on the USB (SCN mark will appear on the LCD display).

When a desired file is reached, press the SCN button again to cancel the function.

The unit will then play the selected file.

** In case of playing MP3 file, when the SCN (scan) button is pressed and held for longer than 2 seconds, the SCN mark will blink on the LCD display and all files in the selected directory will be introduced until the file scan mode is cancelled by pressing the SCN button again or by activating the random or repeat functions.

(7) Repeat play selector (RPT)



- ① During USB play, press RPT button to play the selected file repeatedly (RPT will appear on the LCD display).
 - Play of the file will continue to repeat until this button is pressed again and the RPT disappears from the LCD display.
- ** In case of playing MP3 file, when the RPT button is pressed and held longer than 2 seconds, the RPT mark will blink on the LCD display and play all files in the selected directory and will be repeated until the directory repeat mode is cancelled by pressing the repeat button again or by activating the scan or random functions (RPT mark will disappear from LCD display).

(8) Random play selector (RDM)

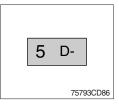


① During USB play, press RDM button to play the files on the USB in a random shuffled order (RDM will appear on the LCD display). The file select function will also select file in the random order instead of the normal process.

The random play mode can be cancelled by this button again.

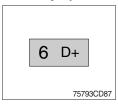
** In case of MP3 file, when the random button is pressed and held longer than 2 seconds, the RDM mark will blink on the LCD display and play all files in directory randomly until the directory random mode is cancelled by pressing the random button again or by activating the scan or repeat functions (RDM mark will disappear from LCD display).

(9) Directory down



① Press D- button briefly while playing MP3. The previous directory is located each time you press this button.

(10) Directory up



- ① Press D+ button briefly while playing MP3 . The next directory is located each time you press this button.
- * If the MP3 file does not have a directory, the unit play MP3 at 10-file intervals.
- * If any MP3 file does not exist in USB, this button can not operate.

RADIO AND USB PLAYER (WITH BLUETOOTH): MACHINE SERIAL NO.: #0080-



9403CD100

■ FRONT PANEL PRESENTATION

1 Power ON/OFF, Volume UP/DOWN but 2 Manual UP/DOWN Tun	ing,
2 Manual LIP/DOM/NI Tun	•
File search, SEL buttor	
3 — Mode button, Audio mute button	
4 Call & Pair button	
5 — Call end button	
6 DIS Station preset 1	
7 Station preset 2	
8 Station preset 3 RPT Repeat play button	

4 RDM Station preset 4
RDM Random play button

10		Station preset 5 Directory down button
11		Station preset 6 Directory up button
12	SCAN REM	Scan play button (SCAN) Best station memory (BSM) button
13	SEEK	······ Auto tune up, Seek up button
14	TRACK	Auto tune down, Track down button
15	AUX	······ USB connector
16	.	······ AUX IN Jack
17	■ MIC	······ MIC hole

RADIO AND USB PLAYER (WITHOUT BLUETOOTH): MACHINE SERIAL NO.: #0080-



9403CD101

■ FRONT PANEL PRESENTATION

_				
1		······ Power ON/OFF, Volume UP/DOWN button		
2	O	Manual UP/DOWN Tuning, File search, SEL button		
3	MODE	Mode button, Audio mute button		
4	sièk	······ Radio seek up button		
5	SEEK	······ Radio seek down button		
6	DIS ···	······ Station preset 1 ····· Display button		
7	2	······ Station preset 2		
8	3 RPT	······ Station preset 3 ······ Repeat play button		
9	4 RDM ··	······ Station preset 4 ······ Random play button		

10		Station preset 5 Directory down button
11	6 DIR+ ··	Station preset 6 Directory up button
12	SCAN REAM	 Scan play button (SCAN) Best station memory (BSM) button
13	TRÂCK	 Track up button
14	TRACK	 Track down button
15	AUX	 USB connector
16	.	 AUX IN Jack

■ GENERAL

(1) Power and volume button



① Power ON / OFF button

Press power button (1) to turn the unit on or off.

2 Volume UP/DOWN control knob

Turn VOL knob (1) right to increase the volume level.

Turn VOL knob (1) left to decrease the volume.

After 5 seconds the display will return to the previous display mode.

③ Initial volume level set up

I-VOL is the volume level the unit will play at when next turned on. To adjust the I-VOL level, press and hold VOL button (1) for longer than 2 seconds. The current volume level displays on the display panel.

Then turn button (1) right or left to set the volume level as the I-VOL level.

4 Clock ON/OFF control

The CLOCK was default at off status. To turn CLOCK ON, press and hold VOL button (1) for longer than 2 seconds to display I-VOL, then short press VOL again, turn VOL knob while CLOCK OFF display, then the CLOCK ON will be displayed.

* Due to time tolerance, the clock display on the Audio unit might have little difference.

(5) Clock adjustment

With CLOCK ON selected, press VOL knob again after CLOCK ON display, the hour will blink, turn VOL knob right or left to adjust hour. Simply press VOL again, the minute will blink, turn VOL knob to adjust minute. Then press VOL again to confirm the clock once finished.

(2) Menu Selection



① This button can adjust the sound effect and other things. Each time you press this button (2), LCD displays as follows:

BAS
$$\rightarrow$$
 TREB \rightarrow BAL L=R \rightarrow FAD F=R \rightarrow EQ \rightarrow LOUD ON \rightarrow BEEP 2ND

On each setting, the level can be controlled by turning TUNE knob (2). When the last adjustment is made, after 5 seconds, the display will automatically return to the previous display mode.

② Bass control

To adjust the bass tone level, first select the bass mode by pressing SEL button (2) repeatedly until BASS appears on the display panel. Then turn knob (2) right or left within 5 seconds to adjust the bass level as desired. The bass level will be shown on the display panel from a minimum of BASS-7 to a maximum of BASS+7.

③ Treble control

To adjust the treble tone level, first select the treble mode by pressing SEL button (2) repeatedly until TREB appears on the display panel. Then turn knob (2) right or left within 5 seconds to adjust the treble level as desired. The treble level will be shown on the display panel from a minimum of TREB -7 to a maximum of TREB +7.

4 Balance control

To adjust the left-right speaker balance, first select the balance mode by pressing SEL button (2) repeatedly until BAL indication appears on the display panel. Then turn knob (2) right or left within 5 seconds to adjust the balance as desired. The balance position will be shown by the bars on the display panel from BAL 10R (full right) to BAL 10L (full left).

⑤ Fader control

To adjust the front-rear speaker balance, first select the fader mode by pressing SEL button (2) repeatedly until FADER indication appears on the display panel. Then turn knob (2) right or left within 5 seconds to adjust the front-rear speaker level as desired. The fader position will be shown by the bars on the display panel from FAD 10F (full front) to FAD 10R (full rear).

⑥ EQ control

You can select an equalizer curve for 4 music types (CLASSIC, POP, ROCK, JAZZ). Press button (2) until EQ is displayed, then turn knob (2) right or left to select the desired equalizer curve. Each time you turn the knob, LCD displays as follows:

When the EQ mode is activated, the BASS and TREBLE modes are not displayed.

7 Loud control

When listening to music at low volume levels, this feature will boost the bass and treble response. This action will compensate for the reduction in bass and treble performance experienced at low volume.

To select the loudness feature, press button (2) until LOUD is displayed, then turn knob (2) right or left to activate or deactivate loudness.

8 Beep control

To adjust the BEEP mode, first select the BEEP mode by pressing button (2) repeatedly until BEEP indication appears on the display panel. Then turn knob (2) left or right within 5 seconds to select BEEP 2ND, BEEP OFF or BEEP ON.

- BEEP 2ND : You will only hear the beep sound when the buttons are held down for more than 2 seconds.
- BEEP OFF: You can not hear the sound beep when you press the buttons.
- · BEEP ON : You can hear the beep sound each time you press the buttons.

(3) Mute control

① Press and hold MUTE button (3) for over 2 seconds to mute sound output and MUTE ON will blink on the LCD. Press the button again to cancel MUTE function and resume to normal playing mode.

(4) Mode selection

- ① Repeat press MODE button (3) to switch between FM1, FM2, AM, USB, AUX, BT MUSIC.
- * If there is no USB, AUX, Bluetooth Phone connected, it would not display USB, AUX, BT when you press button (3).

■ RADIO

(1) Mode button



① Repeat press MODE button to select FM1, FM2 or AM.

(2) Manual tuning button



① To manually tune to a radio station, simply turn encoder TUNE (2) left or right to increase or decrease the radio frequency.

(3) Auto tuning button



① To automatically select a radio station, simply press Seek up or Track down button.



(4) Station preset button



- ① In radio mode, pressing buttons (6) to (11) will recall the radio stations that are memorized. To store desired stations into any of the 6 preset memories, in either the AM or FM bands, use the following procedure:
 - a. Select the desired station.
 - b. Press and hold one of the preset buttons for more than 2 seconds to store the current station into preset memory. Six stations can be memorized on each of FM1, FM2, and AM.

(5) Preset scan (PS) / Best station memory (BSM) button



- ① Press BSM button (12) momentarily to scan the 6 preset stations stored in the selected band. When you hear your desired station, press it again to listen to it.
 - Press BSM button (12) for longer than 2 seconds to activate the Best Station Memory feature which will automatically scan and enter each station into memory.
- If you have already set the preset memories to your favorite stations, activating the BSM tuning feature will erase those stations and enter into the new ones. This BSM feature is most useful when travelling in a new area where you are not familiar with the local stations.

■ USB PLAYER

(1) USB playback



- ① The unit was equipped with a front USB jack and also a rear USB Jack.
 - With a USB device plugged in the front USB jack, it will be detected as front USB mode. And with a USB device plugged in the rear USB jack, it will be detected as rear USB. To get to a USB mode, press MODE (3) button momentarily or insert the USB device in front or rear USB jack.
- * If no mp3 or wma files in USB device, it will convert to the previous mode after display NO FILE.

(2) Track Up / Down button



① Press SEEK up (13) or TRACK down (14) to select the next or previous track. Press and hold the buttons to advance the track rapidly in the forward or backward direction.



(3) MP3 directory / File searching



① Button (2) is used to select a particular directory and file in the device. Turn button (2) right or left to display the available directories. Press button (2) momentarily when the desired directory is displayed, then turn button (2) right or left again to display the tracks in that directory. Press button (2) to begin playback when the desired file is displayed.

(4) Directory Up / Down button



- ① During MP3/WMA playback, simply press DIR- button (10) to select the previous directory (if available in the device); simply press DIR+ button (11) to select the next directory (if available in the device).
- If the USB device does not contain directories, it would play MP3/WMA tracks at 10- file when you press DIR- button (10), and play MP3/WMA tracks at 10+ file when you press DIR+ (11) button.

(5) Track Scan Play (SCAN) button



- SCAN playback : Simply press SCAN (12) button to play the first 10 seconds of each track.
- SCAN folder: Press and hold SCAN button for longer than 2 seconds to scan play the tracks in current folder.
- SCAN off : Simply press it again to cancel SCAN feature.

(6) Track Repeat Play (RPT) button



- REPEAT playback : Simply press RPT (8) button to play current track repeatedly.
- REPEAT folder: Press and hold RPT for longer than 2 seconds to repeat play the tracks in current folder.
- REPEAT off: Simply press it again to cancel REPEAT feature.

(7) Track Random Play (RDM) button



- RANDOM playback : Simply press RDM (9) button to play the tracks in the device in a random sequence.
- RANDOM folder: Press and hold RDM button for longer than 2 seconds to random play the tracks in current folder.
- RANDOM off: Simply press it again to cancel RANDOM feature.

(8) ID3 v2 (DISP)



- ① While a MP3 file is playing, press DISP button (6) to display ID3 information. Repeat push DISP button (6) to show directory name / file name and album name / performer / title.
- If the MP3 disc does not have any ID3 information, it will show NO ID3.
- * USB Information and Notice
 - a. Playback FILE SYSTEM and condition allowance.
 - FAT, FAT12, FAT16 and FAT32 in the file system.
 - V1.1, V2.2 and V2.3 in the TAG (ID3) version.
 - b. Display up to 32 characters in the LCD display.
 - c. No support any of MULTI-CAED Reader.
 - d. No high speed playback but only playing with normal full speed.
 - * DRM files in the USB may cause malfunction to playback in the radio unit.
 - * The temperature below -10 Celsius, the audio unit with USB hook up would be affected to play well.

■ AUX OPERATION

It is possible to connect your portable media player to the audio system for playback of the audio tracks via the cab speakers.

To get the best results when connecting the portable media to the audio system, follow these steps:

- Use a 3.5 mm stereo plug cable to connect the media player headphone socket at each end as follows.
- Adjust the portable media player to approximately 3/4 volume and start playback.
- Press the MODE button (3) on the audio unit to change into AUX mode.
- The volume and tone can now be adjusted on the audio unit to the desired level.
- * The audio quality of your media player and the audio tracks on it may not be of the same sound quality as the audio system is CD Player.
- * If the sound of the media player is too low compared with the radio or CD, increase the volume of the player.
- * If the sound of the media player is too loud and/or distorted, decrease the volume of the player.
- * When in AUX mode, only the Volume, Bass, Treble, EQ and Mode functions of the audio unit can be used.

■ **BLUETOOTH** (if equipped)

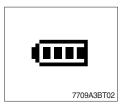
1) Using a bluetooth wireless connection

- (1) Your audio unit supports bluetooth wireless technology. You can set up a wireless link with bluetooth cellular phone.
- (2) Keep PAIRING the cellular phone with audio unit in a few minutes as the phone are being switched on well enough.
- * Since this audio unit is on standby to connect with your cellular phone via bluetooth wireless technology, using this audio unit without running the engine can result battery drainage.
- * This audio unit phone call reception is on standby when ignition switch is set to ACC OFF or ON.
- * The line-of-sight distance between this audio unit and your cellular phone must be 10 meters or less for sending and receiving voice and data via bluetooth wireless technology. However the transmission distance may become shorter than the estimated distance depending on the environment in use.
- * Digital Noise & Echo suppression system provides the best sound clarity with little or no distortion (Echo & side tone will happen depending on cellular phone or service network).
- * To ensure the quality of calling, you should select a proper bluetooth VR level. This audio unit has already set with the best bluetooth VR level.



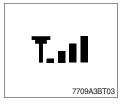
1) Bluetooth icon

It will blink while establishing the bluetooth pairing. It will light after a bluetooth device connected.



② Battery icon

It indicates the battery status of the connected bluetooth device.



3 Single strength icon

It indicates the signal strength of the connected bluetooth device.

2) Pairing in hands free modes



- (1) Press and hold CALL button (4) for 2 seconds until you hear beep sound, then appears PAIR STR on the display.
- (2) For the next procedure, go to cellular phone pairing mode.
- (3) If it is in pairing status with audio unit and cellular phone, PAIRING will show on the display.
- (4) If you want to exit pairing mode, press CALL END button (5) briefly while pairing, then it will show PAIR CLR on the display.
- (5) Bluetooth Icon and PAIR OK appear on the display when pairing is successful.

3) Cellular phone pairing mode

- (1) Browse your cellular phone menu and find the connectivity or bluetooth connection section.
- (2) Select search for a new handsfree device function and allow the phone to find the mobile.
- (3) HYUNDAI should appear on your cellular phone screen.
- (4) Press connect menu among the handsfree option on your cellular phone.
- (5) The cellular phone should prompt for a pin code. Insert the pin code 1234.
- (6) The cellular phone should confirm that it has established a new paired connection.
- (7) Close the menu. The pairing is now completed. It appears PAIR FAIL on the display for 3 seconds.
- * Each cellular phone type has distinct phone menu so you may need to refer to your manufactures instruction for the correct procedure on how to connect a new bluetooth device.
- * Please retry to the pairing instruction if HYUNDAI does not appear on the cellular phone screen.
- * Please select authorized, if there is authorized menu in the menu of bluetooth connection in your cellular phone.
- * Once the bluetooth pairing is completed between your cellular pone and this audio unit, the both units will be automatically recognized on its paring and when you turn on the key in your car even though this audio unit is turned off.
- * This audio unit can store up to 6 phones pairings. If the memory is full, the first stored paired phone will be deleted.
- * The connecting priority will be given to the last connected cellular phone.
- * If you want to change the connecting priority, try to connect this audio unit from the cellular phone.

4) Bluetooth connection and disconnection

(1) When established bluetooth connection between this audio unit and the cellular phone, bluetooth icon on the display appears and then the display shows HF/AV CONN when handsfree & AV profile connected.



(2) To disconnect bluetooth link

Press and hold CALL END button (4) for 2 seconds, it shows DIS CON and disappears bluetooth Icon on the display.



(3) To disconnect bluetooth link

Press CALL button (3) briefly, it blinks bluetooth Icon on the display while bluetooth is being connected. If the connection is completed, it appears bluetooth Icon on the display.

- * When your cellular phone battery is at low charge, the bluetooth connection may occasionally be lost. To maintain good connectivity ensure that your phone battery is adequately charged.
- * In case of failure of bluetooth pairing:
 - Delete item in paired list on your phone.
 - Reset both phone by power off/on and the audio unit by ACC off/ on.
- * Connecting priority of handsfree profile is higher than headset profile.
- * The headset mode does not support caller ID, reject call and call Transfer.

5) Using the audio unit as a handsfree device



(2) To accept call

Press CALL button (4), it appears ANSWER CALL and follows TALKING on the display.

(3) To end call

To end call, press CALL END button (5), it appears REJECT on the display.

* If reject call is activated in your phone, then your cellular phone does not support reject call function.

6) Audio transfer between the audio unit and phone

The audio transfer function is for switching the call from the audio unit to the cellular phone for private conversation.



- (1) Press CALL button (4) briefly during conversation, it appears CALL TRANS on the display. To switch back to the audio unit, press button (4) briefly during private conversation, then it appears CALL TRANS on the display again.
- * This function will be a cause of disconnection of bluetooth link in some nokia phones, but you do not worry just press button (4) during private conversation, then switch back to the audio unit automatically.
- * The quality of calling between cellular phone and audio unit is better than calling between one audio unit and another one.

7) Last call number dialing



- (1) Press CALL button (4) briefly, it appears CALL TO, then simply press CALL button once again, it would make the last call with phone number display on LCD.
 - If Reject call is activated in your phone, then your cellular phone does not support Reject Call function.
- * If you are using SAMSUNG phone, then you may need to press once more send button. First press button shows phone contact list in your phone, then second press make the last call.

8) To make a call by cellular phone

The audio transfer function is for switching the call from the audio unit to the cellular phone for private conversation.

- (1) The audio unit activated automatically when you make a call by cellular phone.
- (2) When you make a call processing by cellular phone, it shows CALLING on the display.
- (3) When you receive a call, the phone number ******* appears on the display.

9) Using the audio unit as bluetooth music

The audio unit supports A2DP (Audio Advanced Distribution Profile) and AVRCP (Audio Video Remote Control Profile), and both profiles are available to listen music at the audio unit via cellular phone which is supporting the two profiles above.

- (1) To play music, search the menu on your cellular phone as below:
 - i.e : Menu \rightarrow File manager \rightarrow Music \rightarrow Option \rightarrow Play via bluetooth. It appears BT MP3 on the display.
- (2) During BT MP3 playing, you could select the previous or next track by pressing SEEK up or TRACK down button on audio unit or operate via your cellular phone.
- (3) To stop music, press button (5) briefly and it will automatically switch into the previous mode.
- (4) To resume music playing, press the play button on your cellular phone.
- * This function maybe different depends on cellular phone. Please follow the cellular phone menu. Some kinds of phone need to pair once more for bluetooth MP3 connection.
- * This function will be caused to disconnect A2DP, AVRCP depends on cellular phone.
- * Information about songs (e.g.: the elapsed playing time, song title, song index, etc.) cannot be displayed on this audio unit.

■ RESET AND PRECAUTIONS

1) Reset function

Interfere noise or abnormal compressed files in the MP3 disc or USB instrument may cause extraordinary operation (or unit frozen/locking up). It's strongly recommended to use appropriate USB storage not cause any malfunction to the audio unit. In the unlikely event that the player fails to operate correctly, try out to reset unit by any of following two methods.

- (1) press and hold simultaneously for about 5 seconds. (without Bluetooth)

 Press and hold simultaneously for about 5 seconds. (with Bluetooth)
- (2) Take out the fuse for the audio system in the vehicle once and then plug again.
- * It will be necessary to re-enter the radio preset memories as these will have been erased when the microprocessor was reset.

After resetting the player, ensure all functions are operation correctly.

2) Precautions

When the inside of the car is very cold and the player is used soon after switching on the heater, moisture may form on the disc or the optical parts of the player and proper playback may not be possible.

If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.

- (1) Operation voltage: 9~32 volts DC, negative
- (2) Output power: 40 watts maximum (20 watts x 2 channels)
- (3) Tuning range

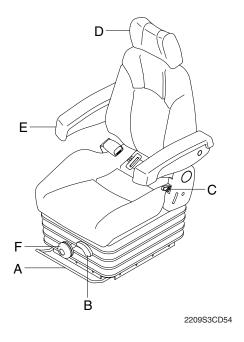
Area	Band	Frequency range	Step
USA	FM	87.5~107.9 MHZ	200K
USA	AM	530~1710 KHZ	10K
EUROPE	FM	87.5~108.0 MHZ	50K
LUNUFE	AM	522~1620 KHZ	9K
ASIA	FM	87.5~108.0 MHZ	100K
ASIA	AM	531~1602 KHZ	9K
LATIN	FM	87.5~107.9 MHZ	100K
LATIN	AM	530~1710 KHZ	10K

• AREA Selection :

- To select an area, press and hold related buttons at FM1 band for about 3 seconds.
- USA Area: Press and hold mode + 1DIS buttons for 3 seconds
- EUROPE Area: Press and hold mode + 2 buttons for 3 seconds
- ASIA Area: Press and hold mode + 3RPT buttons for 3 seconds
- LATIN Area: Press and hold mode + 4RDM buttons for 3 seconds.
- (4) USB version : USB 1.1(5) Bluetooth version : V2.1(6) Bluetooth supported profile :
 - A2DP : Advanced Audio Distribution Profile- AVRCP : Audio/Video Remote Control Profile
 - HFP: Hands-Free Profile

4) SEAT (standard)

The seat is adjustable to fit the contours of the operator's body. It will reduce operator fatigue due to long work hours and enhance work efficiency.



(1) Horizontal adjustment (A)

- ① Pull lever A to adjust seat forward or backward.
- ② The seat can be moved forward and backward over 169 mm (6.7") in 13 steps.

(2) Tilt adjustment (B)

Pull or push lever B to adjust seat cushion upward or downward.

(3) Adjustable Backrest

Pull lever C to adjust seat backrest.

(4) Arm rest adjustment (E)

This can be adjusted by turning the knob E.

(5) Head rest adjustment (D)

This is adjustable vertically to fit operator's requirements, over a 75 mm (3.0") height range and 79.5° angle.

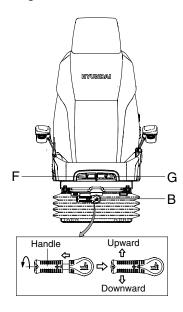
(6) Weight adjustment (F)

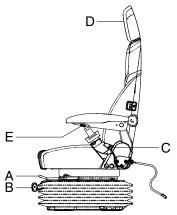
Adjust the handle to the operator's weight (50~ 130 kg).

- Always check the condition of the seat belt and mounting hardware before operating the machine.
- ▲ Replace the seat belt at least once every three years, regardless of appearance.

5) SEAT (heated, option)

The seat is adjustable to fit the contours of the operator's body. It will reduce operator fatigue due to long work hours and enhance work efficiency.





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(1) Forward/Backward adjustment (A)

- ① Pull lever A to adjust seat forward or backward.
- ② The seat can be moved forward and backward over 140 mm (5.5") in 13 steps.

(2) Height/weight adjustment (B)

- ① Turn the handle to adjust seat upward or downward
 - Turn to clockwise, the seat is moved to upward and the weight is increased.
 - If it is turned to counterclockwise, the seat is moved to downward and the weight is decreased.

② Method of changing direction (up/down)

- · First, pull the handle to outside.
- · Second, rotate 180° and release the handle.

(3) Reclining adjustment (C)

Pull lever C to adjust seat back rest.

(4) Arm rest adjustment (E)

This can be adjusted by pushing the button E to right and left.

(5) Head rest adjustment (D)

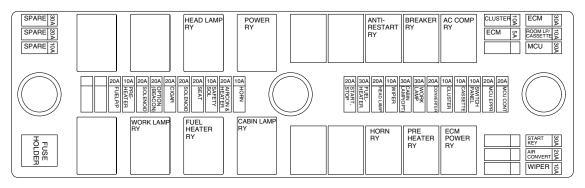
This is adjustable vertically to fit operator's requirements over 60 mm (2.4").

(6) Seat cushion tilt adjustment (F)

Pull lever F to adjust seat cushion tilting angle.

- (7) Seat cushion length adjustment (G)
- ♠ Pull lever G to adjust seat cushion forward or backward.
- Always check the condition of the seat belt and mounting hardware before operating the machine. Replace the seat belt at least once every three years, regardless of appearance.

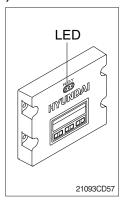
6) FUSE & RELAY BOX



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- (1) The fuses protect the electrical parts and wiring from burning out.
- (2) The fuse box cover indicates the capacity of each fuse and circuit it protects.
- Replace a fuse with another of the same capacity.
- ▲ Before replacing a fuse, be sure to turn OFF the starting switch.

7) MCU

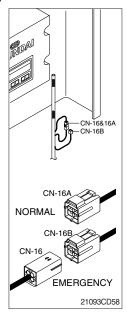


- (1) To match the pump absorption torque with the engine torque, MCU varies EPPR valve output pressure, which control pump discharge amount whenever feedbacked engine speed drops under the reference rpm of each mode set.
- (2) Three LED lamps on the MCU display as below.

LED lamp	Trouble	Service	
G is turned ON	Normal	-	
G and R are turned ON	Trouble on MCU	· Change the MCU	
G and Y are turned ON	Trouble on serial communication line	Check if serial communication lines between controller and cluster are disconnected	
Three LED are turned OFF	Trouble on MCU power	Check if the input power wire (24 V, GND) of controller is dis- connected	
		· Check the fuse	

G: green, R: red, Y: yellow

8) EMERGENCY ENGINE SPEED CONTROL CONNECTOR



- (1) When the CAN communication between the ECM and the MCU is abnormal due to malfunction of the MCU, change CN-16 connection from CN-16A to CN-16B and then control the engine speed by rotating accel dial switch.
- Never connect connector CN-16 with CN-16B when MCU is in normal operation.

9) SERVICE METER



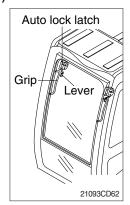
- (1) This meter shows the total operation hours of the machine.
- (2) Always ensure the operating condition of the meter during the machine operation. Inspect and service the machine based on hours as indicated in chapter 6, maintenance.

10) RS232 SERVICE SOCKET



(1) MCU communicates the machine data with Laptop computer through RS232 service socket.

11) UPPER WINDSHIELD



- (1) Perform the following procedure in order to open the upper windshield.
- ① Pull both levers with hold both grips that are located at the top of the windshield frame and push the windshield upward.
- ② Hold both grips and back into the lock position until auto lock latch is engaged, then release the lever locked position.



- (2) Perform the following procedure in order to close the upper windshield.
- ① Pull the lever of the auto lock latch in order to release the auto lock latch.
- $\ensuremath{\mathbb{Q}}$ Reverse above step $\ensuremath{\mathbb{D}}$ and $\ensuremath{\mathbb{Q}}$ in order to close the upper windshield.