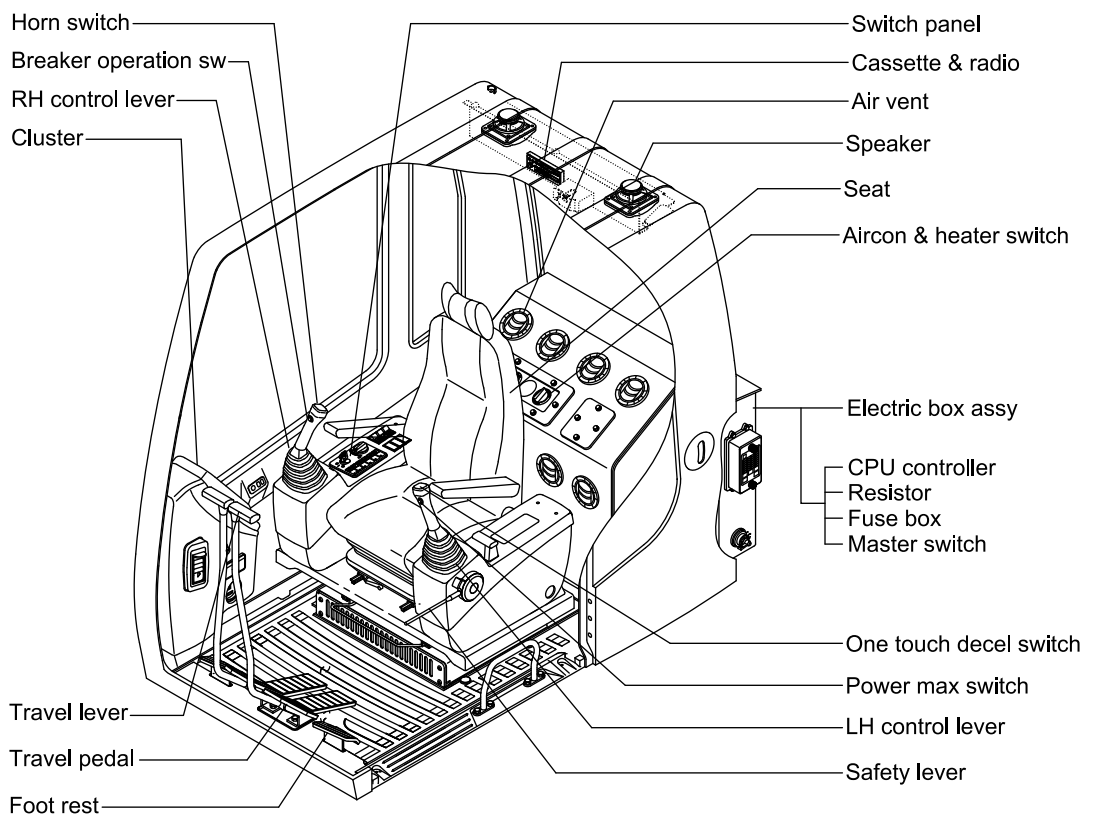## 1. CAB DEVICES

1) 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.

Horn switch
Breaker operation sw
RH control lever
Cluster

Switch panel
Cassette & radio
Air vent
Speaker
Seat
Aircon & heater switch

Electric box assy
CPU controller
Resistor
Fuse box
Master switch

One touch decel switch
Power max switch
LH control lever
Safety lever

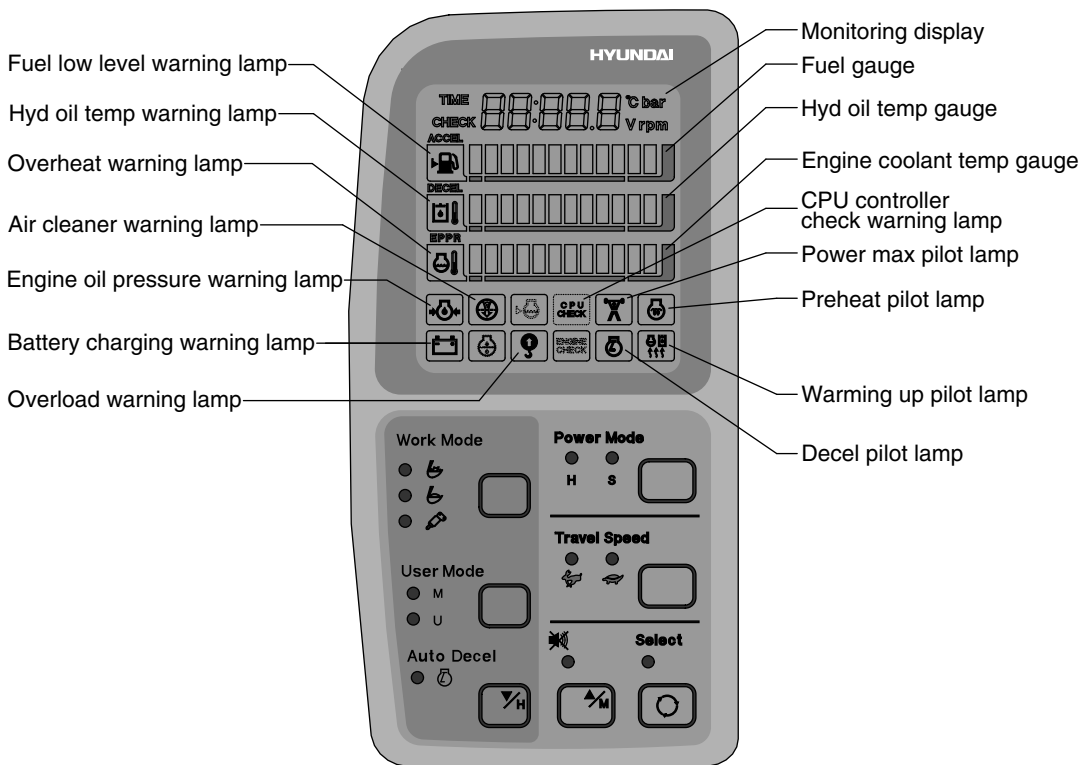Travel lever
Travel pedal
Foot rest

RD22073CD01

2. CLUSTER

1) MONITOR PANEL

The monitor panel consists of gauges and lamps as shown below, to warn the operator in case of abnormal machine operation or conditions for the appropriate operation and inspection.

- Gauges : Indicate operating status of the machine.
- Warning lamp : Indicate abnormality of the machine(Red).
- Pilot lamp : Indicate operating status of the machine(Amber).

※ **The monitor 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 monitor provides a warning immediately check the problem, and perform the required action.**

Fuel low level warning lamp

Hyd oil temp warning lamp

Overheat warning lamp

Air cleaner warning lamp

Engine oil pressure warning lamp

Battery charging warning lamp

Overload warning lamp

Monitoring display

Fuel gauge

Hyd oil temp gauge

Engine coolant temp gauge

CPU controller check warning lamp

Power max pilot lamp

Preheat pilot lamp

Warming up pilot lamp

Decel pilot lamp

HYUNDAI

Work Mode

Power Mode

User Mode

Travel Speed

Auto Decel

Select

RD22073CD02

※ **The warming lamp lights ON and the buzzer sounds when the machine has a problem. In this case, press the buzzer stop switch and buzzer stop, but the warming lamp lights until the problem is cleared.**

(1) Monitoring display
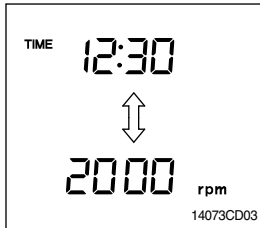
① This displays the current time and machine information such as engine rpm, coolant/hydraulic oil temperature, hydraulic oil pressure and also error codes.

※ **Refer to the page 4-11 for details.**

TIME 12:30

2000 rpm

14073CD03

(2) Fuel gauge

White range

21073CD04

① This gauge indicates the amount of fuel in the fuel tank.
② Fill the fuel when the white range or warning lamp 🔲 blinks.

※ **If the gauge illuminates the white range or warning lamp 🔲 blinks 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
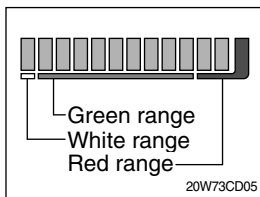
Green range
White range
Red range

20W73CD05

① This indicates the temperature of coolant.
· White range : Below 30℃(86℉)
· Green range : 30-105 ℃(86-221℉)
· Red range : Above 105℃(221℉)
② The green range illuminates when operating.
③ Keep idling engine at low speed until the green range illuminates before operation of machine.
④ When the red range illuminates, reduce the load on the system. If the gauge stays in the red range, stop the machine and check the cause of the problem.

(4) Engine coolant temperature gauge
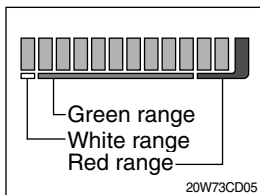
Green range
White range
Red range

20W73CD05

① This indicates the temperature of coolant.
· White range : Below 30℃(86℉)
· Green range : 30-105 ℃(86-221℉)
· Red range : Above 105℃(221℉)
② The green range illuminates when operating.
③ Keep idling engine at low speed until the green range illuminates before operation of machine.
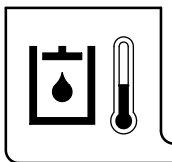④ When the red range illuminates, turn OFF the engine, check the radiator and engine.

(5) Fuel low level warning lamp

21073CD04A

① This lamp blinks and the buzzer sounds when the level of fuel is below 31 l (8.2U.S. gal).
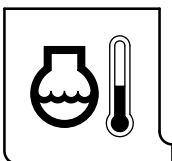② Fill the fuel immediately when the lamp blinks.

(6) Hydraulic oil temperature warning lamp

21073CD05A

① This warning lamp operates and the buzzer sounds when the temperature of hydraulic oil is over 105 ℃(221 ℉) .
② Check the hydraulic oil level when the lamp blinks.
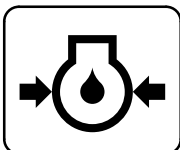③ Check for debris between oil cooler and radiator.

(7) Overheat warning lamp

21073CD06A

① This lamp blinks and the buzzer sounds when the temperature of coolant is over the normal temperature 110℃(230℉) .
② Check the cooling system when the lamp blinks.

(8) Engine oil pressure warning lamp

21073CD07

① This lamp blinks and the buzzer sounds after starting the engine because of the low oil pressure.
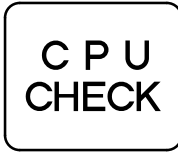② If the lamp blinks during engine operation, shut OFF engine immediately. Check oil level.

(9) Air cleaner warning lamp
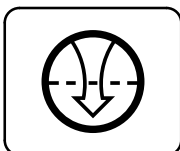
21073CD08

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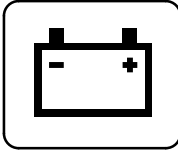② Check the filter and clean or replace it.

(10) CPU controller check warning lamp

**C P U
CHECK**

21073CD10

① Communication problem between CPU controller and cluster makes the lamp blinks and the buzzer sounds.
② Check if any fuse for CPU burnt off.
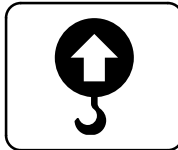③ If not check the communication line between them.

(11) Battery charging warning lamp

21073CD13

① This lamp blinks and the buzzer sounds when the starting switch is ON, it is turned OFF after starting the engine.
② Check the battery charging circuit when this lamp blinks during engine operation.

(12) Overload warning lamp

21073CD15

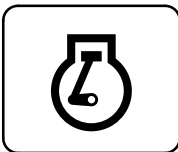① When the machine is overload, the overload warning lamp blinks during the overload switch is ON.

(13) Power max pilot lamp

21073CD11

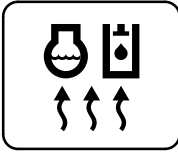① The lamp will be ON when pushing power max switch on the LH RCV lever.

(14) Decel pilot lamp

21073CD17

① Operating auto decel or one touch decel makes the lamp ON.
② The lamp will be ON when pushing one touch decel switch on the LH RCV lever.

(15) Warming up pilot lamp

21073CD18

① This lamp is turned ON when the coolant temperature is below 30℃(86 ℉).
② The automatic warming up is cancelled when the engine coolant temperature is above 30 ℃, or when 10 minutes have passed since starting.
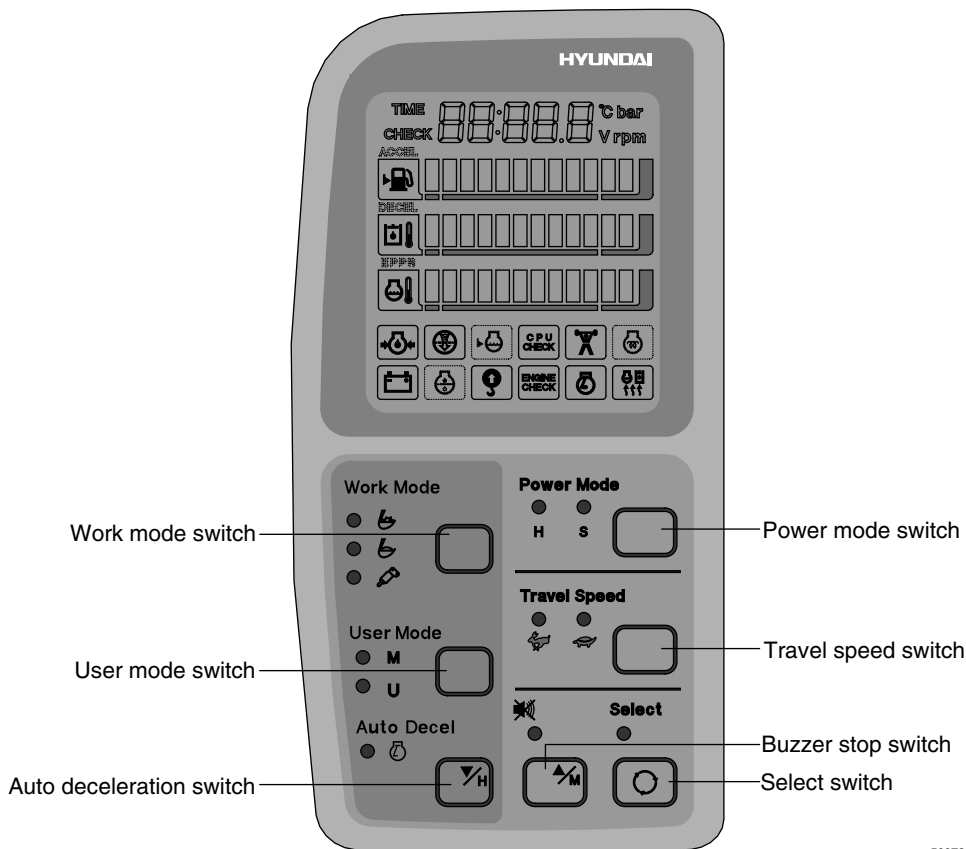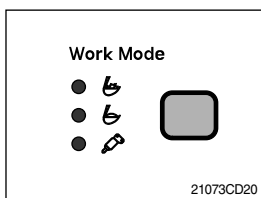
(16) Preheat pilot lamp

21073CD12

① Turning the start key switch ON position starts preheating in cold weather.
② Start the engine as this lamp is OFF.
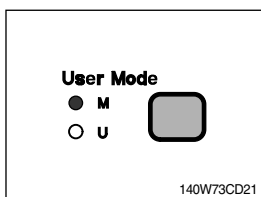
2) SWITCH PANEL

50073CD19

(1) Work mode switch

21073CD20

① This switch is to select the machine operation mode, which shifts from general operation mode to heavy operation mode and breaker mode in a raw by pressing the switch.

- ⌐ : Heavy duty work mode
- ⌐ : General work mode
- ✎ : Breaker operation mode

※ **Refer to the page 4-7 for details.**
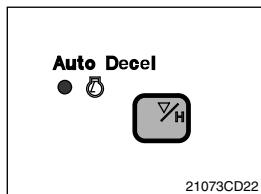
(2) User mode switch

140W73CD21

① This switch is to select the maximum power or user mode.
- M : Maximum power
- U : Memorizing operators preferable power setting

※ **Refer to the page 4-7 for details.**

(3) Auto deceleration switch

Auto Decel

21073CD22

① This switch is used to actuate or cancel the auto deceleration function.
② When the switch actuated and all control levers and pedals are at neutral position, engine speed will be lowered automatically to save fuel consumption.
　·Light ON　: Auto deceleration function is selected.
　·Light OFF : Auto deceleration function is cancelled so that the engine speed increased to previous setting value.
③ Operating the auto deceleration function makes the decel indicating lamp on the LCD panel ON.

(4) Power mode switch

Power Mode

H　S

21073CD23
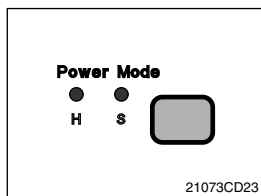
① The lamp of selected mode is turned ON by pressing the switch(　).
　·H : High power work.
　·S : Standard power work.

## (5) Travel speed control switch

Travel Speed

21073CD24
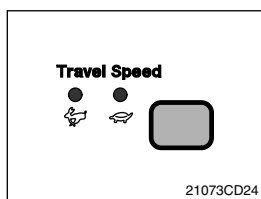
① This switch is to control the travel speed which is changed to high speed(Rabbit mark) by pressing the switch and low speed(Turtle mark) by pressing it again.

(6) Buzzer stop switch

21073CD25
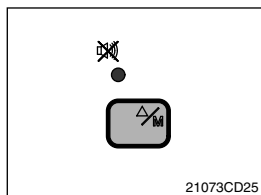
① When the starting switch is turned ON first, normally the alarm buzzer sounds for 2 seconds during lamp check operation.
② The red lamp lights ON and the buzzer sounds when the machine has a problem.
In this case, press this switch and buzzer stops, but the red lamp lights until the problem is cleared.
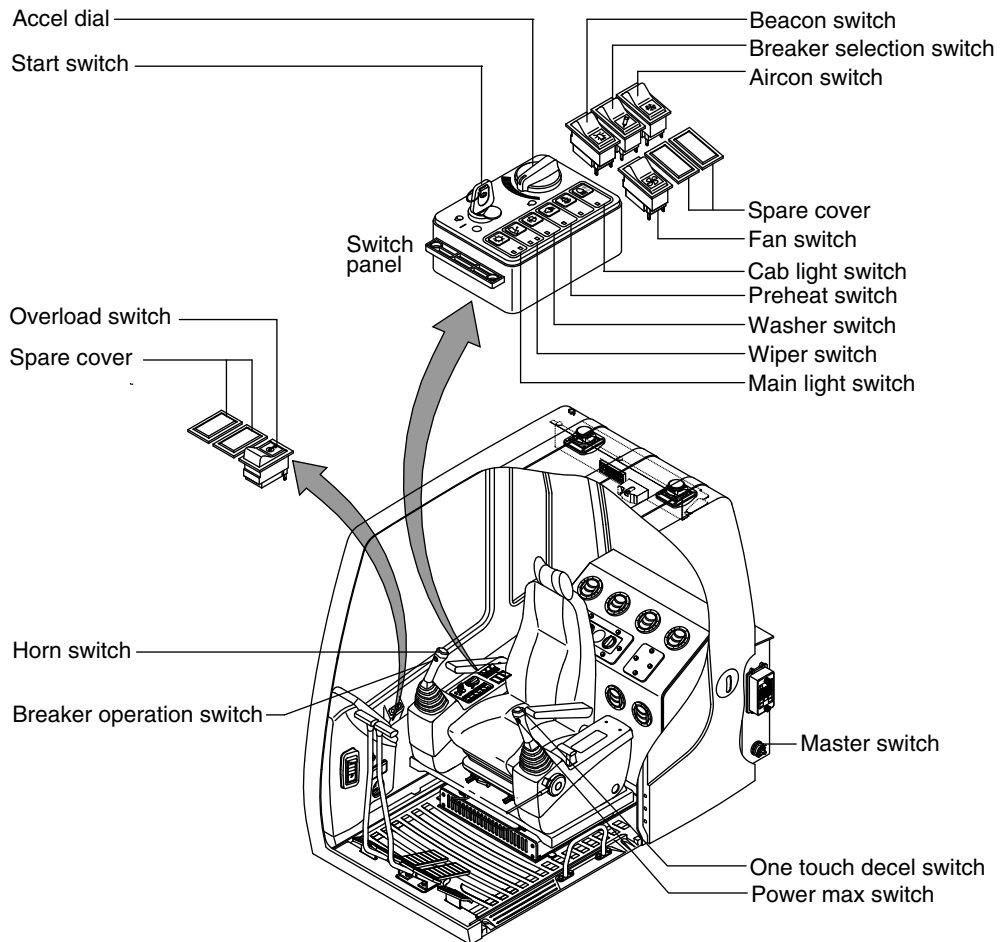
(7) Select switch

Select

21073CD25A
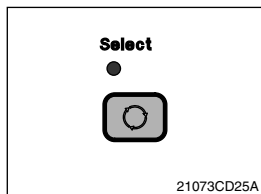
① This switch is used to select the monitor display function.
　※ Refer to the page 4-11 for details.
② If the switch is pressed for 3 seconds in time display mode, it moves to time adjusting function, and you can adjust the time as below.
　·Hour by auto decel(　)switch
　·Minute by buzzer stop(　) switch.
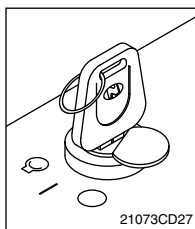③ After time set, the switch is pressed, it returns to clock display.

Accel dial
Start switch
Beacon switch
Breaker selection switch
Aircon switch
Switch panel
Spare cover
Fan switch
Overload switch
Cab light switch
Preheat switch
Spare cover
Washer switch
Wiper switch
Main light switch
Horn switch
Breaker operation switch
Master switch
One touch decel switch
Power max switch

RD22073CD26

1) STARTING SWITCH

21073CD27

(1) There are three positions, OFF, ON and START.

· ○ (OFF)　　 : None of electrical circuits activate.
· │ (ON)　　　: All the systems of machine operate.
· ◔ (START) : Use when starting the engine.　Release key immediately after starting.

※ **Key must be in the ON position with engine running to maintain electrical and hydraulic function and prevent serious machine damage.**
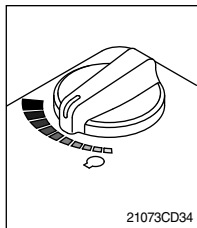
2) MASTER SWITCH

OFF 13033CD81
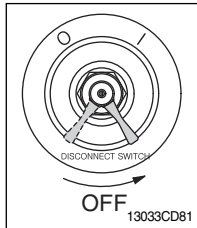
(1) This switch is used to shut off the entire electrical system.

(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.**
   It could result in engine and electrical system damage .

3) ACCEL DIAL SWITCH

21073CD34

(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

Pilot lamp(2nd)
Pilot lamp(1st)
50073CD28
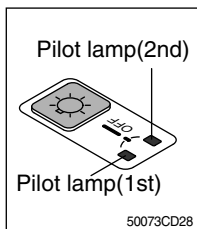
(1) This switch used to operate the head light and work light.
   · Press the switch once to head light comes ON.
   · Press the switch once more to work light comes ON.
   · Press the switch again, return to a first step position.
   · Press the switch more than one second to turn off lights.

5) WIPER SWITCH

Pilot lamp(2nd)
Pilot lamp(1st)
50073CD29
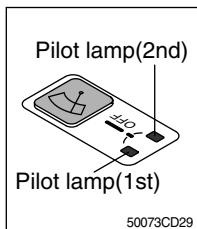
(1) This switch used to operate wiper.
   · Press the switch once to intermittently operate wiper.
   · Press the switch once more to operate wiper low speed.
   · Press the switch again return to a first step position.
   · Press the switch more than one second to turn off wiper.

6) WASHER SWITCH

21073CD30
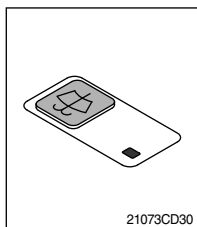
(1) The washer liquid is sprayed and the wiper is operated only while pressing this switch.

(2) The indicator lamp is turned ON when operating this switch.

7) PREHEAT SWITCH

21073CD31
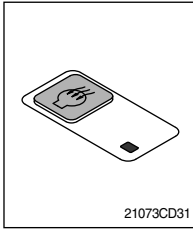
(1) This switch is used for starting the engine in cold weather. If pressed, grid heater is activated to get easier engine starting.

※ **Never hold the push button switch in for more than 30 seconds, as this can damage the grid heater.**

(2) The indicator lamp is turned ON when operating this switch.
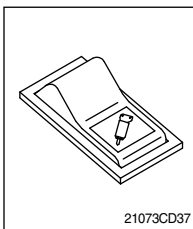
8) CAB LIGHT SWITCH(Option)

21073CD33
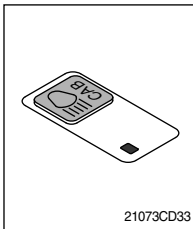
(1) This switch is used to turns ON the cab light on the cab.

9) OVERLOAD SWITCH

21073CD35
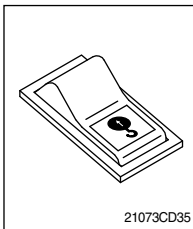
(1) When this switch turned ON, buzzer makes sound and overload warning lamp comes ON in case that the machine is overloaded.

(2) When turned OFF, buzzer stops and warning lamp goes out.

10) BREAKER SELECTION SWITCH(Option)

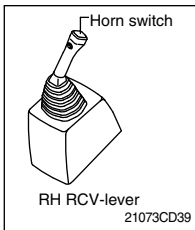21073CD37

(1) This switch is used to select breaker.

※ **The breaker operates only when this switch is selected.**
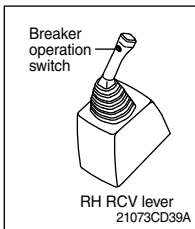
11) BEACON SWITCH (Option)

21073CD38
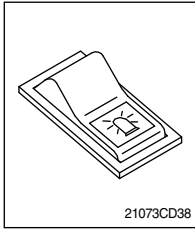
(1) This switch turns ON the rotary light on the cab.

(2) The below indicator lamp is turned ON when operating this switch.

12) HORN SWITCH

Horn switch
RH RCV-lever
21073CD39

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

13) BREAKER OPERATION SWITCH


Breaker operation switch
RH RCV lever
21073CD39A

(1) On pressing this switch, the breaker operates only when the breaker selection switch on the switch panel is selected.

14) ONE TOUCH DECEL SWITCH

One touch decel switch
LH RCV-lever
21073CD40
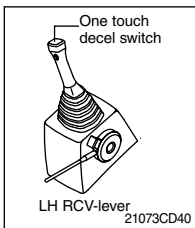
(1) This switch is used to actuate the deceleration function quickly.

(2) The engine speed is increased to previous setting value by pressing the switch again.

## 15) POWER MAX SWITCH

Power max switch
LH RCV-lever
21073CD40A
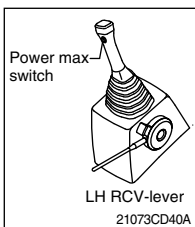
(1) This switch activate power max function.
When this switch is kept pressed, hydraulic power of work equipment will be increased upto 110 percent during 8 seconds.

(2) After 8 seconds, function is cancelled automatically even switch is keep pressed.

※ **Do not use for craning purposes.**
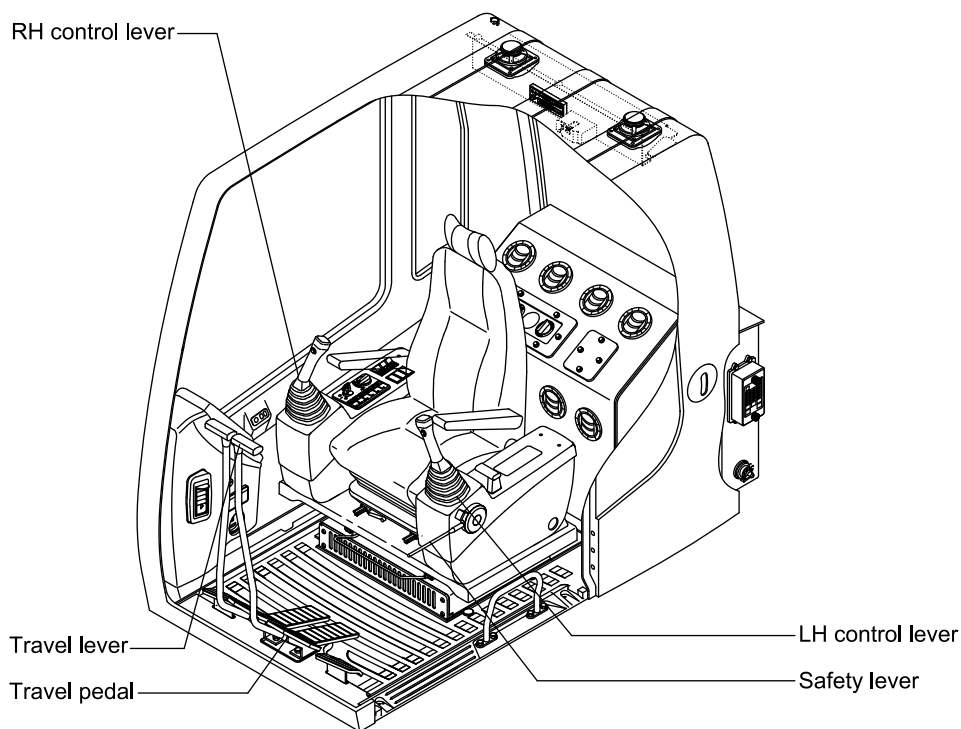
16) AIR CONDITIONER SWITCH(Compressor switch)

R5573CD81
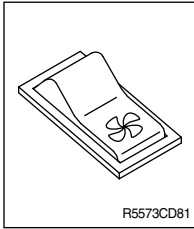
(1) This switch turn on air conditioner compressor when the blower switch is act.

(2) In accordance with the evaporator temperature, compressor turns ON or OFF automatically.

※ **Air conditioner operates to remove vapor and drain water through a drain hose. Water can be sprayed into the cab in case that the vacuum valve of drain hose has a problem.**
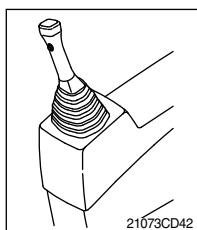**In this case, exchange the vacuum valve.**

17) FAN SWITCH

R35Z73CD84
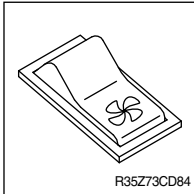
(1) This switch is used to operate fan.

4. LEVERS AND PEDALS

RH control lever

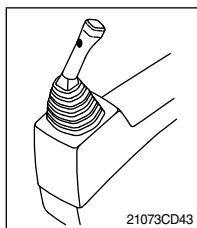Travel lever

Travel pedal
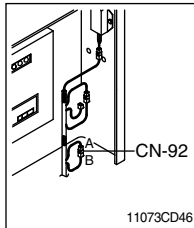
LH control lever

Safety lever

RD22073CD41

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.

21073CD42

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.

21073CD43

3) EMERGENCY ENGINE STARTING CONNECTOR

(1) If the CPU controller is removed, the engine does not start.

(2) Before starting the engine, connect the connector CN-92 A with B.

※ **Do not connect these connectors when the CPU is not removed.**

4) SAFETY LEVER
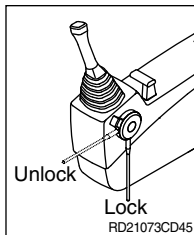
(1) All control levers and pedals are disabled from operation by locating the lever to lock position as shown.

※ **Be sure to lower the lever to LOCK position when leaving from operator's seat.**

(2) By pull lever to UNLOCK position, machine is operational.

※ **Do not use the safety lever for handle when getting on or off the machine.**

5) TRAVEL LEVER
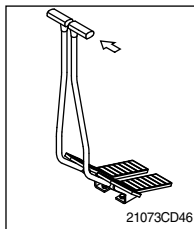
(1) This lever is mounted on travel pedal and used for traveling by hand. The operation principle is same as the travel pedal.

(2) Refer to **traveling of the machine** in chapter 4 for details.

6) TRAVEL PEDAL
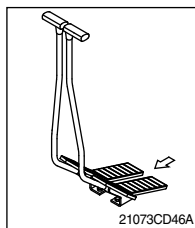
(1) This pedal is used to move the machine forward or backward.

(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.

7) SEAT AND CONSOLE BOX ADJUST LEVER
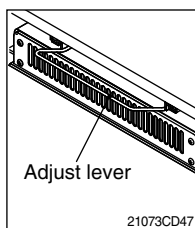
(1) This lever is used to move the seat and console box to fit the contours of the operator's body.

(2) Pull the lever to adjust forward or backward over 170mm(6.7").

5. AIR CONDITIONER AND HEATER

Air conditioner and heater are equipped for pleasant operation against outside temperature and defrost on window glass.

· **Location of air flow ducts**

Air vent

Switch panel

Fan switch   Temperature switch
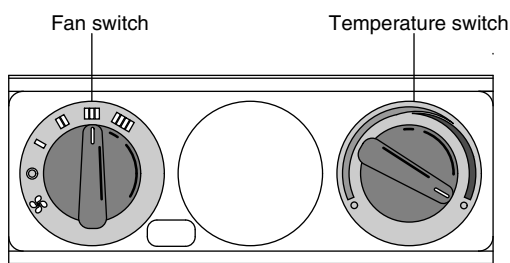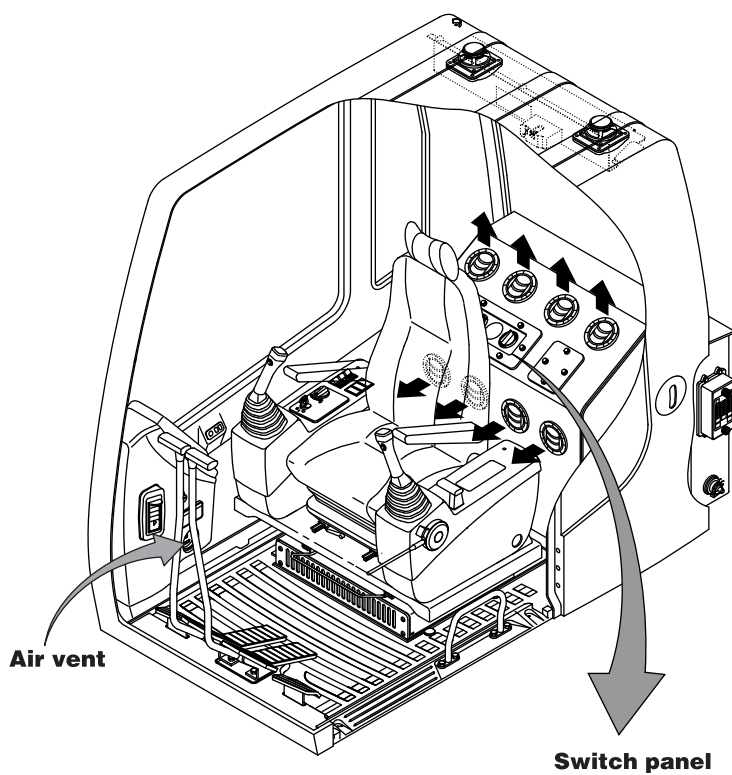
RD21073CD48

1) FAN SWITCH

RD21073CD52
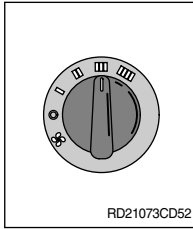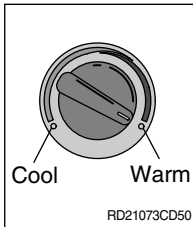
(1) It is possible to control the fan speed as four steps.

· Turn to right : Fan speed increases
· Turn to left   : Fan speed decreases

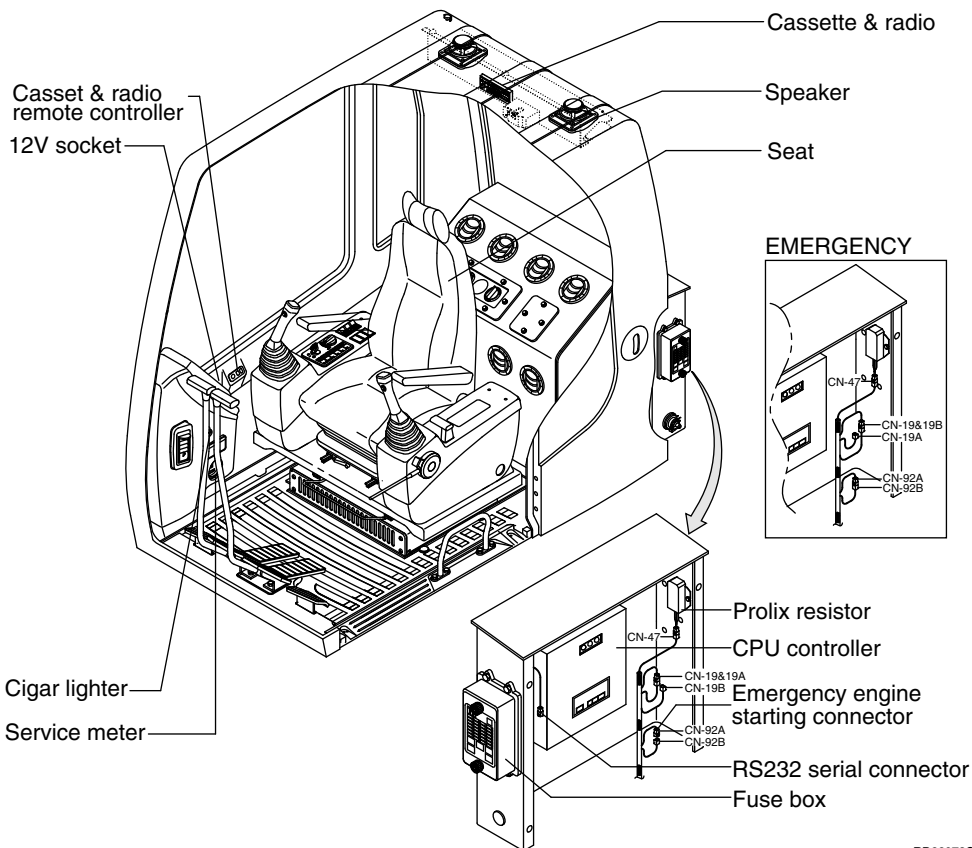## 2) TEMPERATURE SWITCH

Cool   Warm

RD21073CD50

(1) It is possible to control the temperature inside of cab.

· Turn to right : Temperature increases
· Turn to left   : Temperature decreases

Cassette & radio

Speaker

Seat

Casset & radio remote controller

12V socket

EMERGENCY

CN-47

CN-19&19B
CN-19A

CN-92A
CN-92B

Prolix resistor

CPU controller

CN-47

CN-19&19A
CN-19B

Emergency engine starting connector

CN-92A
CN-92B

RS232 serial connector

Fuse box

Cigar lighter

Service meter

RD22073CD22

1) CIGAR LIGHTER

13033CD69
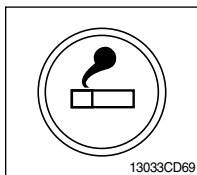
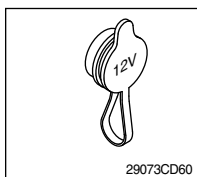(1) This can be used when the engine starting switch is ON.

(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.
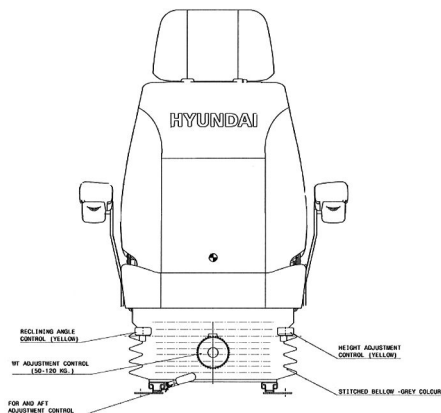**Do not use the lighter exceeding 24V, 100W.**

2) 12V SOCKET(Option)

29073CD60

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

3) SEAT

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) Forward/Backward adjustment
① Pull lever A to adjust seat forward or backward.
② The seat can be moved forward and backward over 140mm(5.5") in 7 steps.

(2) Reclining adjustment
Pull lever B to adjust seat back rest.

(3) Height adjustment
Height adjustment travels for 60mm distance.

(4) Weight adjustment
Weight adjusts between 50kg - 120kg range.
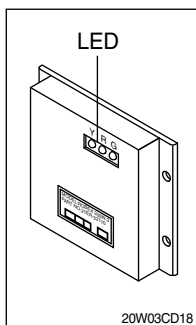
4) FUSE BOX

RD22073CD55

(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.**
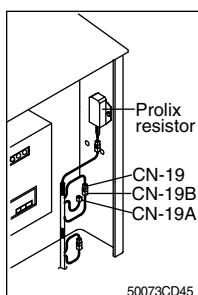
5) CPU CONTROLLER

LED

20W03CD18

(1) To match the engine torque with the pump absorption torque, CPU controller 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 CPU controller display as below.

LED lamp	Trouble	Service
G is turned ON	Normal	-
G and R are turned ON	Trouble on CPU or ROM	· Change the controller
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 CPU controller power	· Check if the input power wire (24V, GND) of controller is disconnected · Check the fuse

G : green, R : red, Y : yellow

6) PROLIX RESISTOR(Option)

Prolix resistor
CN-19
CN-19B
CN-19A

50073CD45

(1) This resistor is used to continuous working in case of malfunction of the CPU controller.

※ **Never connect connector CN-19 with connector CN-19B when CPU controller is in normal operation.**

　· **Normal**　　: CN-19 connect with connector CN-19A
　· **Emergency**　: CN-19 connect with connector CN-19B

7) SERVICE METER

13033CD72
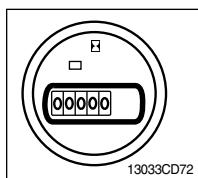
(1) This meter shows the total operation hours of the machine.

(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.**

8) RS232 SERIAL CONNECTOR

45073CD59

(1) CPU controller communicates the machine data with Lap top computer through RS232 connector.

9) UPPER WINDSHIELD

Latch 1
Grip
Grip

14073CD70

(1) Perform the following procedure in order to open the upper windshield.
   ① Release both latches(1) in order to release the upper windshield.
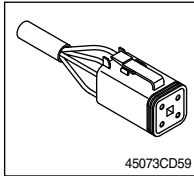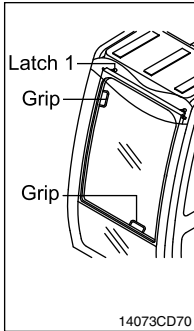   ② Hold both grips that are located at the bottom of the windshield frame and at the top of the windshield frame push the windshield upward.
   ③ Hold both grips that are provided on the windshield frame and back into the storage position until auto lock latch(2) is engaged, move the levers of both latches(1) into the locked position.   Push the levers toward the rear of the cab in order to hold the windshield in storage position.

Latch 2

29073CD71
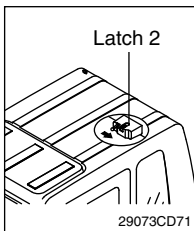
(2) Perform the following procedure in order to close the upper windshield.
   ① Move the lever of the auto lock latch(2) in the direction of the arrow in order to release the auto lock latch.
   ② Reverse step ① through step ③ in order to close the upper windshield.

10) RADIO AND CASSETTE(Option)

7807A3CD81
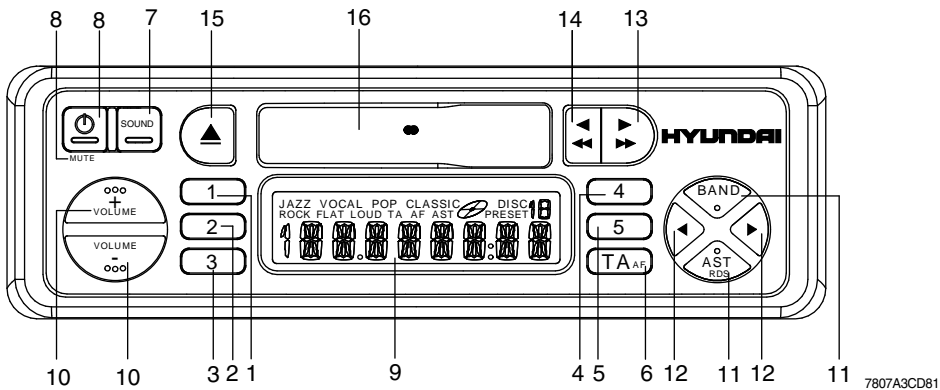
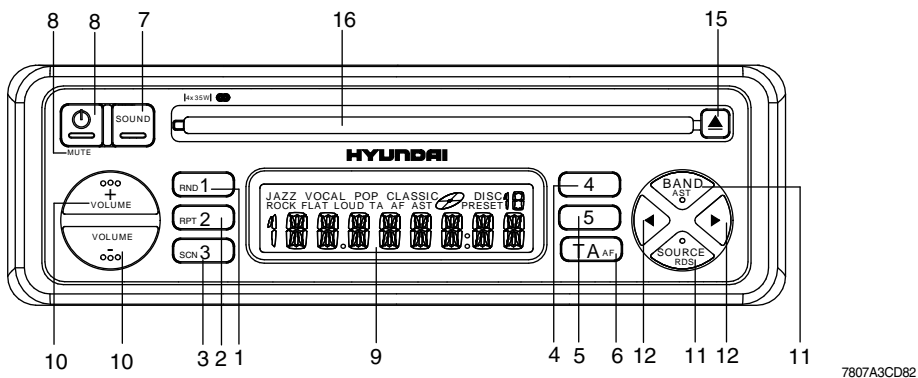## RADIO AND CD PLAYER(Option)

7807A3CD82

■ FRONT PANEL PRESENTATION

1 (1) ······· Preset button 1
RND ············ CD random playback on/off
2 (2) ······· Preset button 2
RPT ············ CD repeat track on/off
3 (3) ······· Preset button 3
SCN ············ CD's track scan
4 (4) ······· Preset button 4
5 (5) ······· Preset button 5
6 (TA AF) ······· Short press : TA on/off
　　　　　　　Long press : AF on/off
7 SOUND ······ Select sound/audio styles
8 ⏻ ············ Short press : power on
　　　　　　　Long press : power off
MUTE ······· Short press : To mute or cancel mute.
9 ····················· Display
10 ····················· Volume knob : Press up/down to adjust the volume ; adjust selected audio mode

11 SOURCE ·· Short press : Change source(Radio/CD)
RDS ·········· Long press : RDS on/off
BAND ······· Short press : To select band
AST ··········· Long press : Autostore(CD)
　　　　　　　Short press : Autostore(Cassette)
12 ◀ ▶ ·········· Tuner mode
　　　　　　　Short press : Auto search up/down
　　　　　　　Long press : Manual search up/down
　　　　　　　Cassette mode : No function
　　　　　　　CD mode
　　　　　　　Short press : Next/previous track
　　　　　　　Long press : Fast forward or fast rewind
13 ▶▶ ·········· Fast forward(cassette deck)
14 ◀◀ ·········· Fast rewind(cassette deck)
15 ▲ ·········· Disc eject(CD)
　　　　　　　Eject cassette
16 ··················· CD opening / Cassette opening

3-22

■ AUDIO

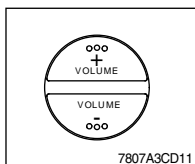## (1) Power and mute button
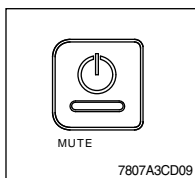
① **POWER ON/OFF**
   Press ⏻ to switch on the set. Press ⏻ for more than 2 seconds to switch off the set.
② **MUTE**(Silence)
   Short press ⏻ key to mute or cancel the mute(silence).
※ The silence period may be interrupted by ALARM announcement or traffic announcement messages(If TA is switched on).
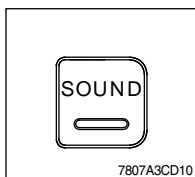
MUTE
7807A3CD09

(2) Volume button

VOLUME +
VOLUME -
7807A3CD11

① Press the volume button up/down to adjust the volume.
   Please make sure you can still hear the traffic(horns, sirens..).

(3) Sound button

SOUND
7807A3CD10

① **SOUND**
   Whether you listen to Jazz, Vocal, Pop, Classic or Rock music, the SOUND button is the perfect setting for your choice.
   · Press SOUND then the sound button to select BASS-Treb for your own sound style, or adjust the settings with the volume up/down buttons to select one of the pre define sound styles:

   - BASE -TRE : Your own settings of bass and treble.
   - FLAT   : Original
   - JAZZ   : Jazz music
   - VOCAL   : Speech
   - POP   : Pop music
   - CLASSIC   : Classical music
   - ROCK   : Rock music

② **AUDIO SETTING**
   · Press SOUND to select desired audio mode.
   · Adjust the settings with the volume up/down buttons :

   - Sound style : BASS-TRE, FLAT, JAZZ, VOCAL, POP, CLASSIC, ROCK
   - BASS   : Low notes
   - TREBLE   : High notes
   - BALANCE   : Left-right
   - FADER   : Rear-front
   - LOUD   : OFF, LOW, MID, HIGH

   · Press the volume button to adjust the selected audio mode.
   After 5 seconds the display goes back to the last mode of operation.
   Adjustment of Bass and Treble settings is only possible when BASS-TRE is selected as the sound style.

(4) Source button
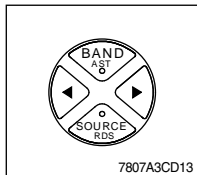
① Press SOURCE to select the desired source :

- TUNER
- CD

※ Products with cassette mechanism will change source to cassette only when a tape is inserted.

■ RADIO

(1) Wave band / Automatic search button

① **WAVEBAND**

· Press BAND to select the desired band:

FM I ⟶ FM II ⟶ FM AST
LW ⟵ MWAST(AMAST) ⟵ MW I ⟵

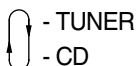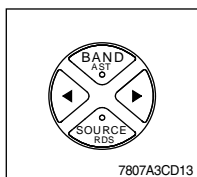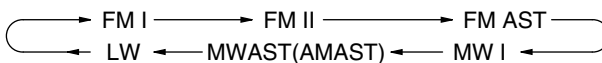② **AUTOMATIC SEARCH**

Use search tuning to automatically search for a station.

· Press ◄ to tune a station of a lower frequency or ► to a higher frequency.

· To search for another station, press the key again.

③ **MANUAL TUNING(If you know the frequency of the required station)**

· **To switch to manual tuning :**

Long press the search button ◄ or ► for more than 2 seconds will switch the tuning to manual tuning.

· Then press ◄ to tune to a station of a lower frequency or ► to a higher frequency.

· When keys are released, a time-out start to count. After 5 seconds time-out, display 'Auto' for one second and return to automatic search.

(2) Preselected button

7807A3CD14

Preselected stations

① **Manually storing stations in a preset**

Five stations per band can be stored and recalled using the preset keys(1 to 5).
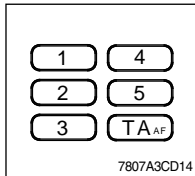
Tune in to the desired station.

· Press the desired preset key(1 to 5) for more than 2 seconds to
· store the current tuned station.

When storing an FM station, the current program station name and the AF mode are stored on the preset(Some stations use alternating program service name).

② **Recalling a preset**

Press the desired preset key(1 to 5) to recall the stored station.

③ **Automatically storing stations(AUTO-STORE)**

You can automatically store 5 strongest FM stations on the FM AST band or 5 strongest MW(AM) stations on the MW(AM) AST band. When you use Auto store, the new stations replace any stations previously stored in the FM AST band or the MW(AM) AST band.

· Press AST to activate autostore.
· The set gives a beep and then mutes.
· When it has finished, you hear a beep followed by the station stored on preset 1.
· Sometimes it may not be possible to find 5 stations.

■ RADIO DATA SYSTEM(RDS) ON FM

TA AF

7807A3CD15
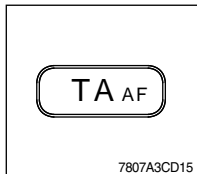
More and more stations broadcasts RDS informations in order to offer you many advantages including:

(1) Program service name(PS)

Allows the radio to display the name of the station instead of its frequency.

(2) Automatic returning(AF)

The set remains tuned to the current station by continually searching the best alternative frequency for best reception.
You can switch AF off.

- Activate/Deactivate AF

This set continuously search for other alternative frequencies for the tuned radio station and automatically selects the best frequency for reception. Long press (TA AF) for more than 2 second to activate/deactivate AF.

(3) Alarm messages(PTY ALARM)

This set automatically receives emergency messages made by the broadcaster.
· During the messages the display shows 'ALARM' and the station-name alternately.

(4) Traffic announcements(TA)

You can activate the TA modes to give priority so as to hear traffic announcements related to these subjects(even if you play a cassettes/CD or mute the set).

- Activate/Deactivate TA
· Short press BAND to select an FM band.
· Press (TA AF) to activate/deactivate TA.

- If you activate TA mode
· You will hear the traffic announcements when broadcast by station(even if you play a cassette/CD or mute the set).
· If the tuned station does not enable the reception of traffic announcements, the display shows 'NO TA'. The radio automatically searches and appropriate station.

- Interrupting traffic announcement mode
If you do not wish to continue listening to a particular traffic announcement
· Short press (TA AF) key to interrupt traffic announcement without switching off the mode
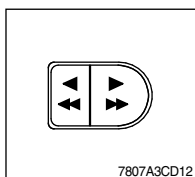· The set will return to the previous operating mode.

※ You can switch off RDS features if not required.
· Long press RDS key to switch off RDS.
· All RDS related features e.g., TA, etc...will be deactivated when RDS is switch off.

7807A3CD13
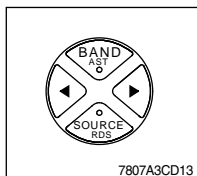
■ CASSETTE PLAYER

(1) Winding/Rewinding button

7807A3CD12

※ Only use good quality cassettes.

※ To avoid possible tape damage always take out the cassette after use. Protect your cassettes. Put them back in their boxes immediately after use.

※ Never expose cassettes to heat or direct sunlight.

① Play back

Slide the cassette, with the open side to the right into the cassette opening. Playback starts.

The direction of playback is shown by indicator ▶ .

② Stopping playback(▲)

· To stop playback, Press the ▲ button fully home.

· The unit will switch over to radio reception.

· The cassette is partially ejected.

③ Reverse(before the end of the tape)

Press the ◀◀ and ▶▶ buttons at the same time halfway in.

④ Fast rewind / Fast forward(◀◀ or ▶▶)

The direction of fast winding depends on the direction of play indicated on the display.

Display during playback	Action	Key to press
▶	Fast forward	▶▶
▶	Fast rewind	◀◀
◀	Fast forward	◀◀
◀	Fast rewind	▶▶

During fast forward or rewind the radio resumes. If you continue fast winding until the end of the tape, play back restarts automatically.

⑤ To stop fast winding

To stop fast winding before the end of the tape, press the key which is not pressed(◀◀ or ▶▶). Playback is then resumed.

⑥ End of the tape

At the end of the tape, playback continues in the revers direction.

⑦ Maintenance

After extended use of the cassette player, dust, contamination or grime can accumulate on the playback head.

This results in diminishing high-note reproduction. This can be remedied using a cleaning cassette(one or twice a month) and playing it through like an ordinary cassette.

■ CD PLAYER

(1) Winding / Rewinding button

7807A3CD13
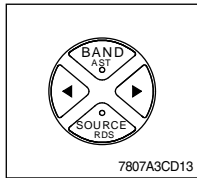
① CD playback

This CD player is suitable only for 12cm disc, do not use irregular shaped CD.

· Slide the disc into the slot with label facing upwards. Playback starts.
· If a disc is already inserted :
  Press SOURCE to select CD as the source.
  Playback starts.

② Previous / Next track(◄ or ►)

· Short press the ◄ or ► button to select the desired track.
· Playback resume with the chosen track.

③ Fast rewind / Fast forward(◄ or ►)

· Long press the ◄ or ► button for more than 2 seconds to quickly move rewind or forward through the disc.
· Normal play back resumes when you release the button.

④ Random track playback

· Press **RND** to activate / deactivate random track playback.

⑤ Repeat track

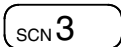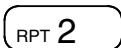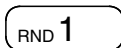· Press **RPT** to activate / deactivate repeat current track.

⑥ Scan track

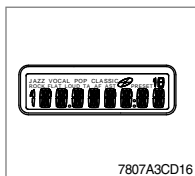The scan function enables you to listen to the first few seconds of each track.

· Press **SCN** to activate / deactivate scan track.

⑦ Disc eject

· Press ▲ to eject the disc.

■ RADIO SETTING

7807A3CD16

(1) AMERICA

Press ⏻ , No. 1 and No. 4 buttons at the same time. Set up completes displaying " AMERICA".

(2) SOUTH AMERICA

Press ⏻ , No. 2 and No. 5 buttons at the same time. Set up completes displaying " SOUTH".
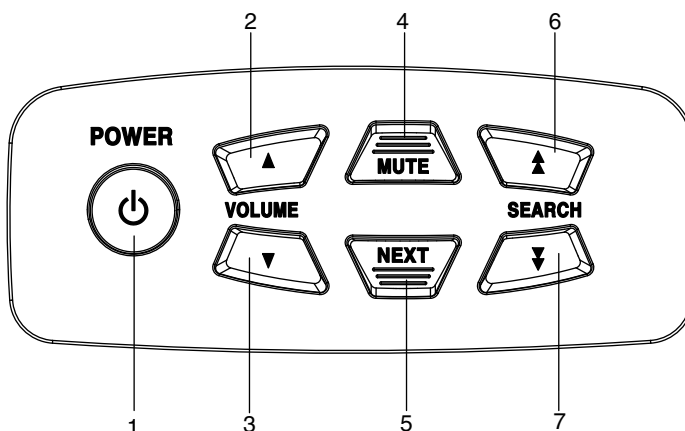
(3) ASIA

Press ⏻ , No. 1 and No. 5 buttons at the same time. Set up completes displaying " ASIA".
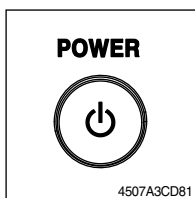
(4) EUROPE

Press power, No. 2 and No. 4 buttons at the same time. Set up completes displaying " EUROP".
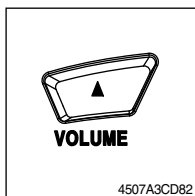
14) REMOTE CONTROLLER
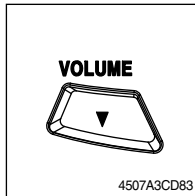

4507A3CD90

(1) Power ON/OFF button

4507A3CD81

① Press ⏻ to switch ON the set. Press ⏻ for more than 2seconds to switch OFF the set.

(2) Volume button(up)

4507A3CD82

· Short press : Volume up one step
· Long press : Volume up continuous
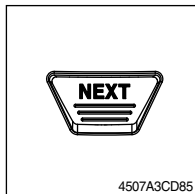
(3) Volume button(down)

· Short press : Volume down one step
· Long press : Volume down continuous.

4507A3CD83

(4) Source & mute button

· Short press : Change source(Radio/CD)
· Long press : To mute or cancel mute.

4507A3CD84

(5) Next button

① Tuner mode
   · Short press : Preset up
   · Long press : Band up
② Cassette mode
   · Short press : Reverse(before the end of the tape)
   · Long press : No function
③ CD mode
   · Short press : Track 1
   · Long press : Scan track

4507A3CD85

(6) Search button(up)

① Tuner mode
   · Short press : Search up one step
   · Long press : Search up continuous
② Cassette & CD mode
   · Short press : Next track
   · Long press : Fast forward

4507A3CD86

(7) Search button(down)

① Tuner mode
   · Short press : Search down one step
   · Long press : Search down continuous
② Cassette & CD mode
   · Short press : Previous track
   · Long press : Fast rewind

4507A3CD87