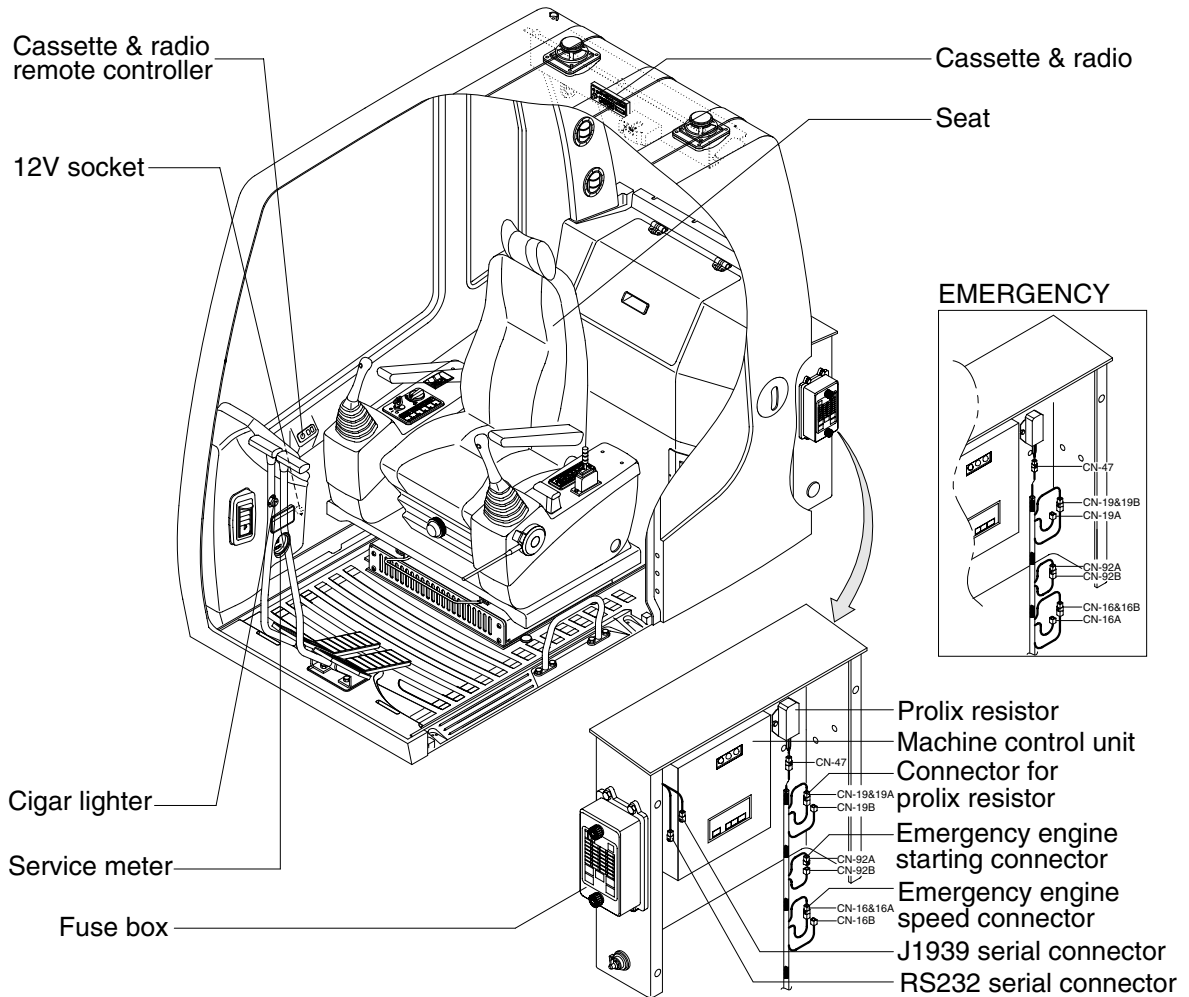
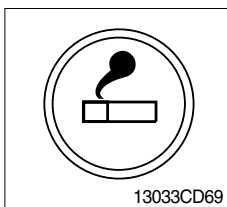


6. OTHERS



1407A3CD14

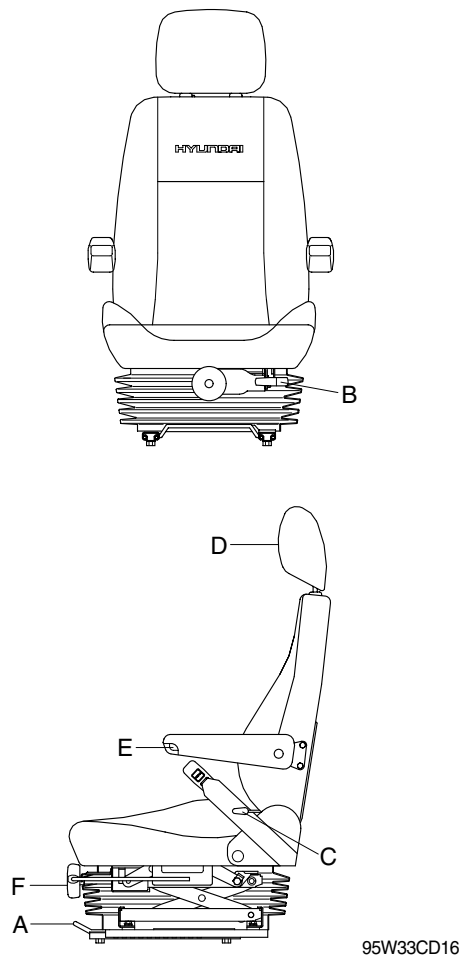
1) CIGAR LIGHTER



- (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) 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(A)

- ① Pull lever A to adjust seat forward or backward.
- ② The seat can be moved forward and backward over 130mm(5.1") in 13 steps.

(2) Upward/Downward adjustment(B)

- ① Pull lever B to adjust seat upward or downward.
- ② Forward or backward side adjustment only can be made, tilting to one side, by moving lever B respectively.

(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.

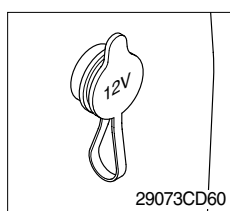
(6) Cushion adjustment (F)

Adjust the handle to the operator's weight.

▲ Always check the condition of the seat belt and mounting hardware before operating the machine.

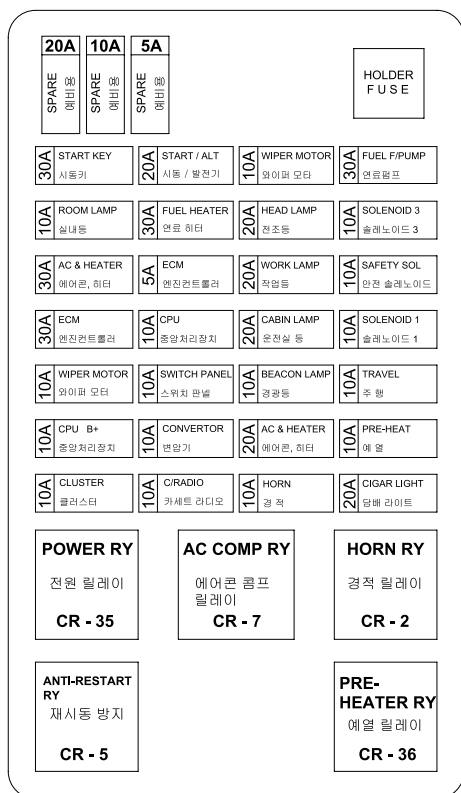
▲ Replace the seat belt at least once every three years, regardless of appearance.

3) 12V SOCKET(Optional)



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

4) FUSE BOX



1407A3CD03

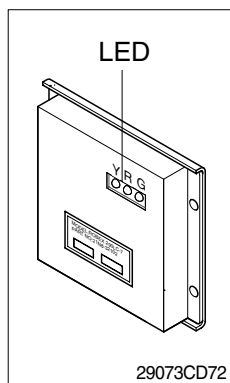
(1) The fuses protect the electrical parts and wiring from burning out.

(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



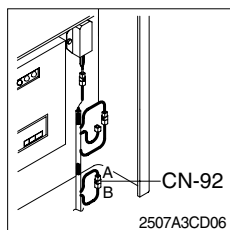
(1) To match the engine torque with the pump absorption torque, CPU controller varies EPPR valve output pressure, which control pump discharge amount whenever feedbacked engine speed drops under the reference rpm of each mode set.

(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

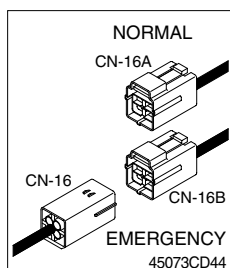
G : green, R : red, Y : yellow

6) EMERGENCY ENGINE STARTING CONNECTOR



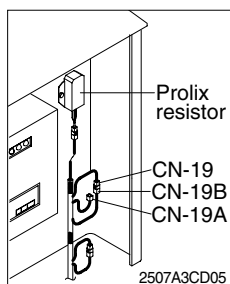
- (1) If the CPU controller is removed, the engine does not start.
 - (2) Before starting the engine, connect the connector CN-92 A with B.
- ※ **Do not connect these connectors when the CPU is not removed.**

7) EMERGENCY ENGINE SPEED CONTROL



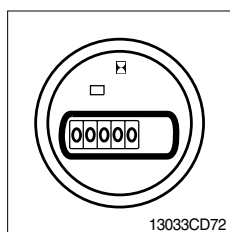
- (1) When the CAN communication between the ECM and the CPU controller is abnormal due to malfunction of the CPU controller, change CN-16 connection from CN-16A to CN-16B and then control the engine speed by rotating accel dial switch.

8) PROLIX RESISTOR(Optional)



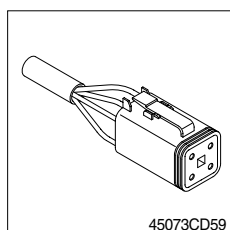
- (1) This resistor is used to continuous working in case of malfunction of the CPU controller.
 - Normal : CN-19 connect with connector CN-19A
 - Emergency : CN-19 connect with connector CN-19B
- ※ **Never connect connector CN-19 with CN-19B when CPU controller is in normal operation.**

9) SERVICE METER



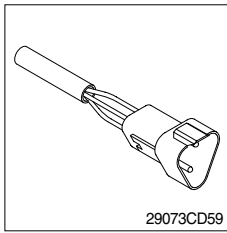
- (1) This meter shows the total operation hours of the machine.
- (2) Always ensure the operating condition of the meter during the machine operation. Inspect and service the machine based on hours as indicated in chapter 6, **maintenance**.

10) RS232 SERIAL CONNECTOR



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

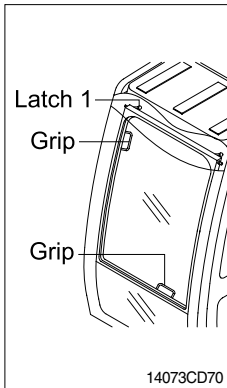
11) J1939 SERIAL CONNECTOR



(1) ECM communication the engine data with cummins INLINE-II adapter through J1939 connector.

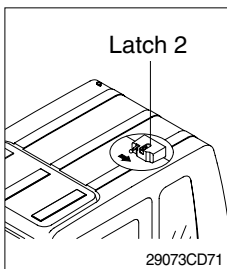
- ① ECM fault code check
- ② ECM program change
- ③ Engine data monitoring & test

12) UPPER WINDSHIELD



(1) Perform the following procedure in order to open the upper windshield.

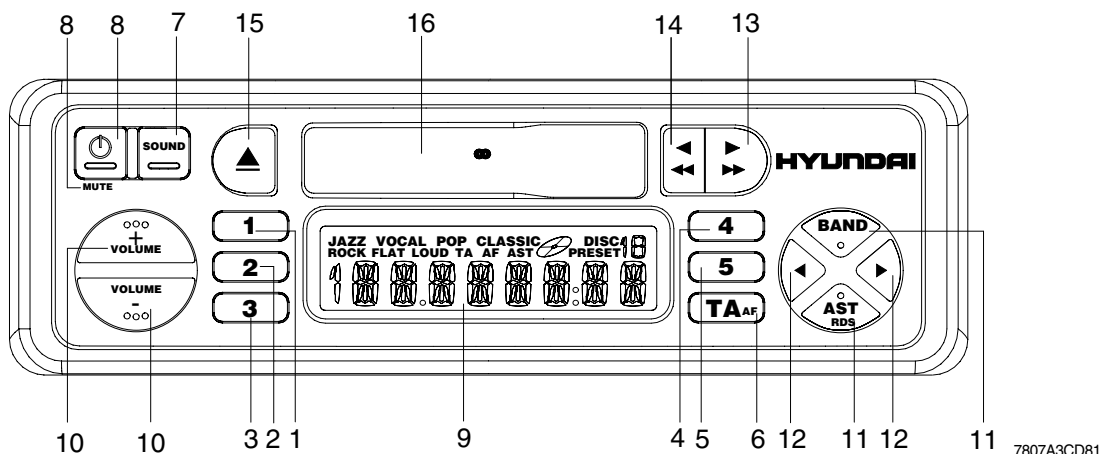
- ① Release both latches(1) in order to release the upper windshield.
- ② Hold both grips that are located at the bottom of the windshield frame and at the top of the windshield frame push the windshield upward.
- ③ Hold both grips that are provided on the windshield frame and back into the storage position 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.



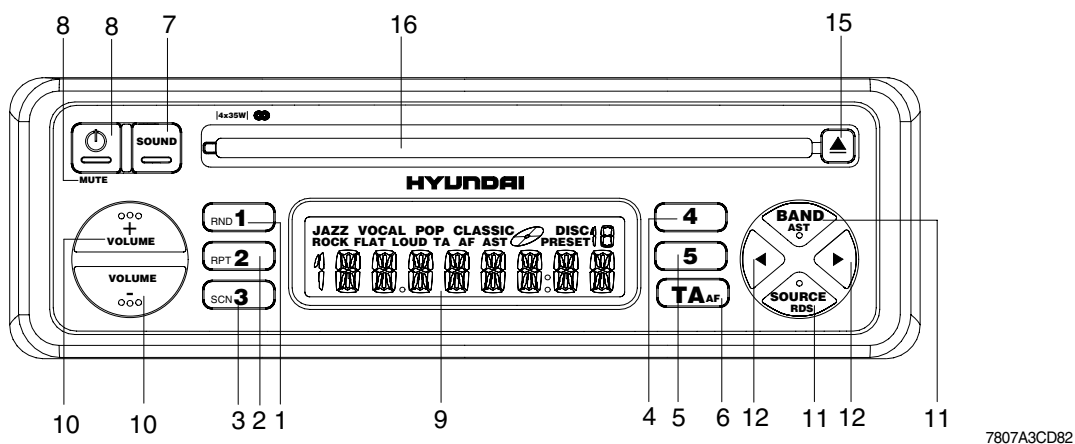
(2) Perform the following procedure in order to close the upper windshield.

- 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(Standard)



RADIO AND CD PLAYER(Optional)

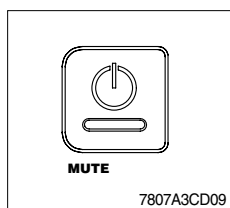


■ FRONT PANEL PRESENTATION

- | | |
|---|---|
| 1 1 Preset button 1 | 11 SOURCE .. Short press : Change source(Radio/CD) |
| RND CD random playback on/off | RDS Long press : RDS on/off |
| 2 2 Preset button 2 | BAND Short press : To select band |
| RPT CD repeat track on/off | AST Long press : Autostore(CD) |
| 3 3 Preset button 3 | Short press : Autostore(Cassette) |
| SCN CD's track scan | 12 ◀▶ Tuner mode |
| 4 4 Preset button 4 | Short press : Auto search up/down |
| 5 5 Preset button 5 | Long press : Manual search up/down |
| 6 TA AF Short press : TA on/off | Cassette mode : No function |
| Long press : AF on/off | CD mode |
| 7 SOUND Select sound/audio styles | Short press : Next/previous track |
| 8 ⏻ Short press : power on | Long press : Fast forward or fast rewind |
| Long press : power off | 13 ▶▶ Fast forward(cassette deck) |
| MUTE Short press : To mute or cancel mute. | 14 ◀◀ Fast rewind(cassette deck) |
| 9 Display | 15 ⏏ Disc eject(CD) |
| 10 Volume knob : Press up/down to | Eject cassette |
| adjust the volume ; adjust selected | 16 CD opening / Cassette opening |
| audio mode | |

■ AUDIO

(1) Power and mute button



① POWER ON/OFF

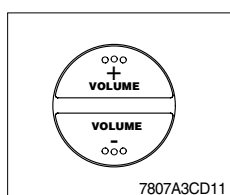
Press  to switch on the set. Press  for more than 2 seconds to switch off the set.

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).

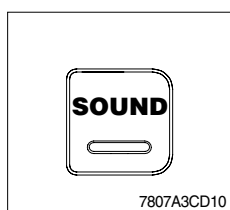
(2) Volume button



① Press the volume button up/down to adjust the volume.

Please make sure you can still hear the traffic(horns, sirens..).

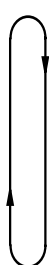
(3) Sound button



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

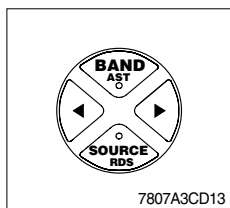
② AUDIO SETTING

- Press SOUND to select desired audio mode.
- Adjust the settings with the volume up/down buttons :

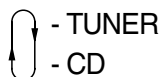
	- Sound style	: BASS-TRE, FLAT, JAZZ, VOCAL, POP, CLASSIC, ROCK
	- BASS	: Low notes
	- TREBLE	: High notes
	- BALANCE	: Left-right
	- FADER	: Rear-front
	- LOUD	: OFF, LOW, MID, HIGH

- 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



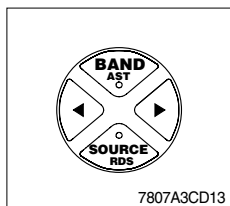
① Press SOURCE to select the desired source :



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

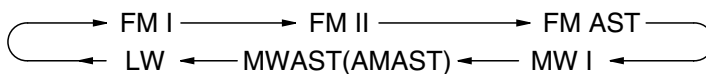
■ RADIO

(1) Wave band / Automatic search button



① **WAVEBAND**

• Press BAND to select the desired band:



② **AUTOMATIC SEARCH**

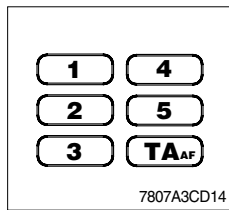
Use search tuning to automatically search for a station.

- 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



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

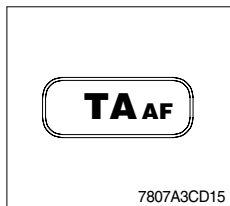
Press the desired preset key(1 to 5) to recall the stored station.

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



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(PHY 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.

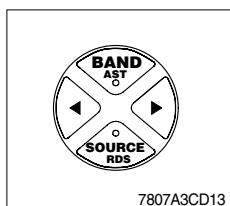
- Interrupting traffic announcement mode

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.

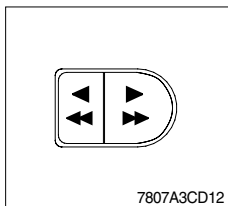
※ You can switch off RDS features if not required.

- Long press RDS key to switch off RDS.
- All RDS related features e.g., TA, etc...will be deactivated when RDS is switch off.



■ CASSETTE PLAYER

(1) Winding/Rewinding button



- ※ 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.

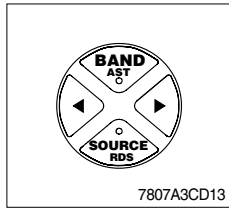
⑦ Maintenance

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



① CD playback

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

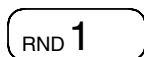
- Slide the disc into the slot with label facing upwards. Playback starts.
- If a disc is already inserted :
Press **SOURCE** to select CD as the source.
Playback starts.

② Previous / Next track(◀ or ▶)

- Short press the ◀ or ▶ button to select the desired track.
- Playback resume with the chosen track.

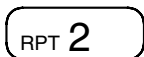
③ Fast rewind / Fast forward(◀ or ▶)

- 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.



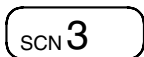
④ Random track playback

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



⑤ Repeat track

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



⑥ Scan track

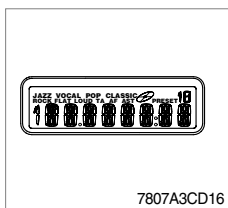
The scan function enables you to listen to the first few seconds of each track.

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

⑦ Disc eject

- Press **▲** to eject the disc.

■ RADIO SETTING



(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".

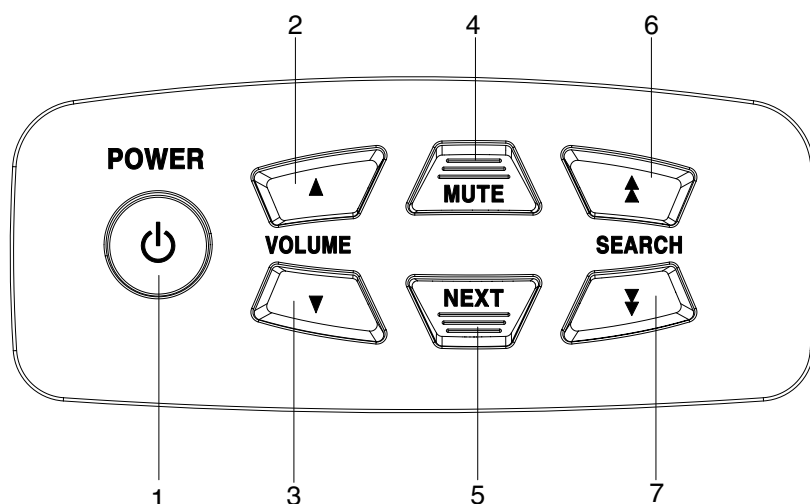
(3) ASIA

Press , No. 1 and No. 5 buttons at the same time. Set up completes displaying "ASIA".

(4) EUROPE

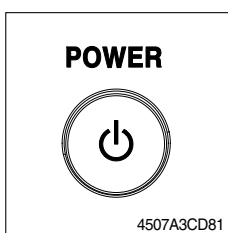
Press power, No. 2 and No. 4 buttons at the same time. Set up completes displaying "EUROP".

11) REMOTE CONTROLLER



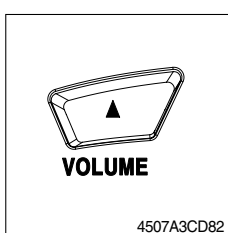
4507A3CD90

(1) Power ON/OFF button



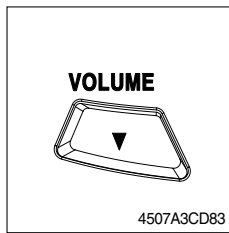
- ① Press  to switch ON the set. Press  for more than 2seconds to switch OFF the set.

(2) Volume button(up)



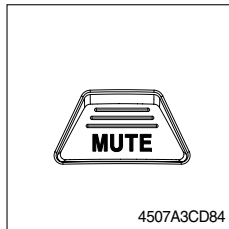
- Short press : Volume up one step
- Long press : Volume up continuous

(3) Volume button(down)



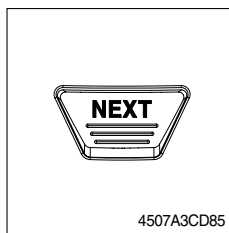
- Short press : Volume down one step
- Long press : Volume down continuous.

(4) Source & mute button



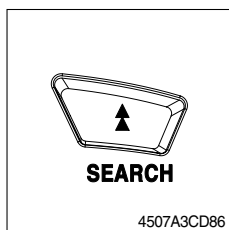
- Short press : Change source(Radio/CD)
- Long press : To mute or cancel mute.

(5) Next button



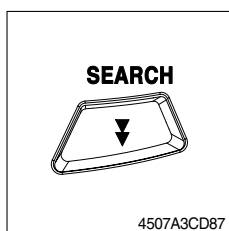
- ① Tuner mode
 - Short press : Preset up
 - Long press : Band up
- ② Cassette mode
 - Short press : Reverse(before the end of the tape)
 - Long press : No function
- ③ CD mode
 - Short press : Track 1
 - Long press : Scan track

(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

(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