

CONTROL DEVICES

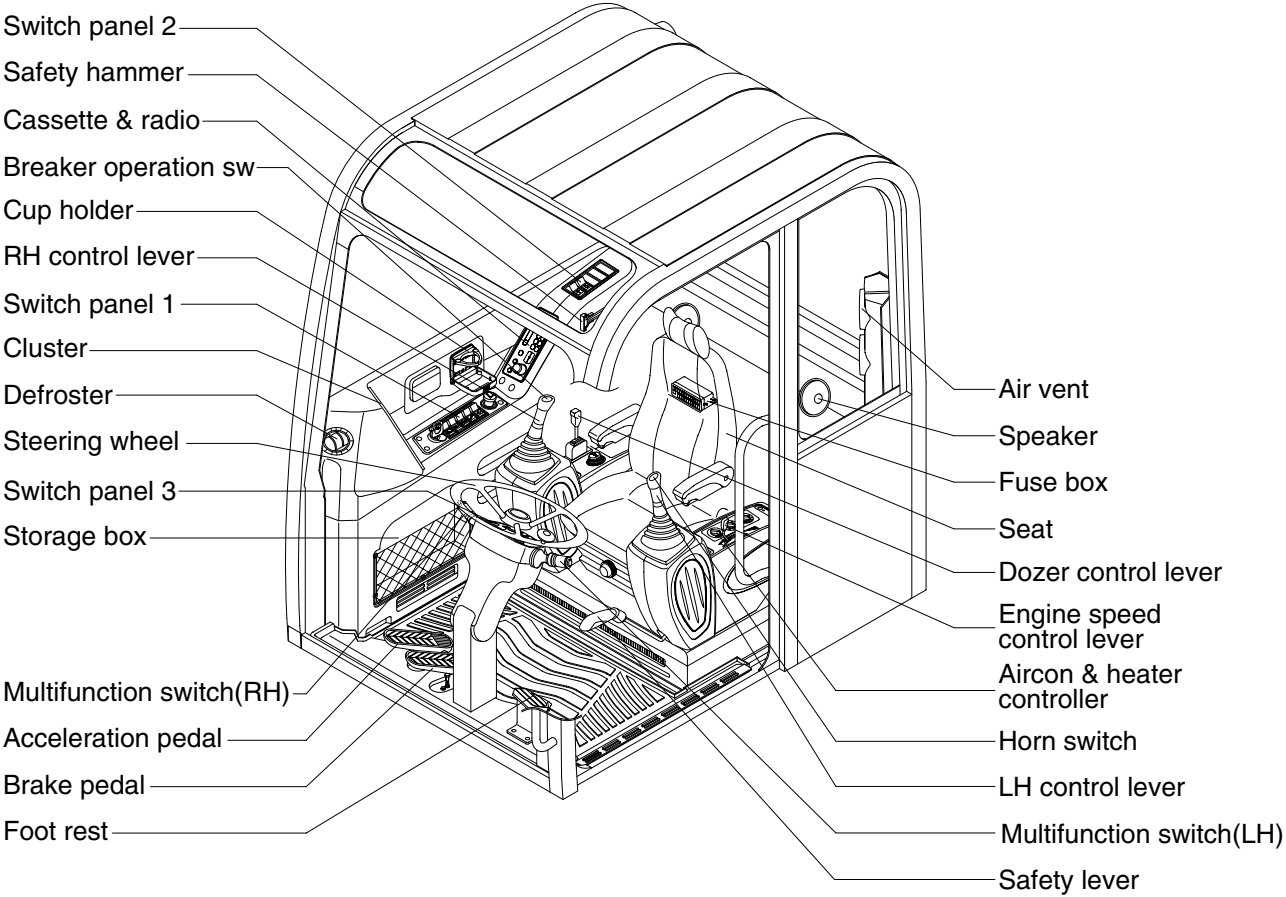
1. CAB DEVICES

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.

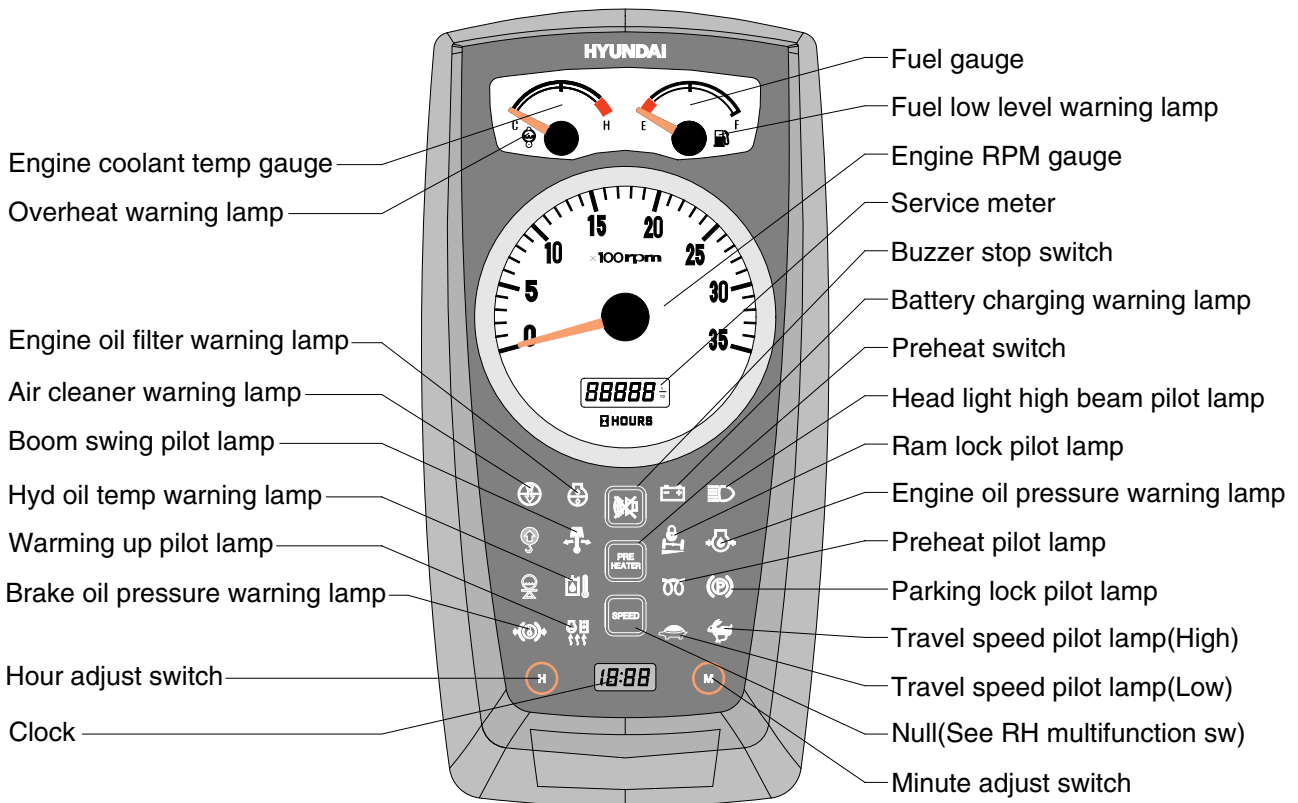


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2. CLUSTER

The cluster 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.
- ※ **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.**



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- ※ **The warning 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 warning lamp lights until the problem is cleared.**

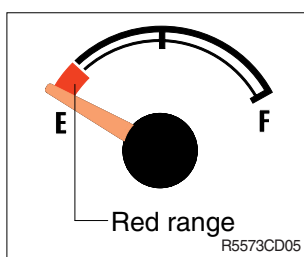
1) GAUGES AND DISPLAYS

(1) Service meter



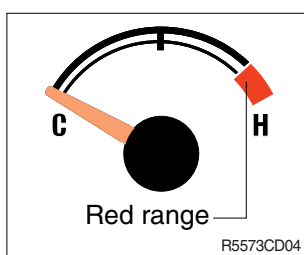
- ① This meter shows the total operation hours of the machine.
- ② Always ensure the operating condition of the meter during the machine operation.
Inspect and service the machine based on hours as indicated in chapter 6, **maintenance**.

(2) Fuel gauge



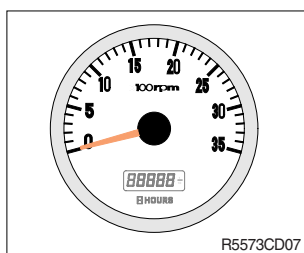
- ① This gauge indicates the amount of fuel in the fuel tank.
- ② Fill the fuel when the indicator is in the red range or warning lamp ON.
* If the gauge indicate the red range or warning lamp ON even though the machine is on the normal condition, check the electric device as that can be caused by the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

(3) Engine coolant temperature gauge



- ① This indicates the temperature of coolant.
· Red range : Above 105°C(221°F)
- ② When the indicator is in the red range or warning lamp ON, engine do not abruptly stop but run it at medium speed to allow it to cool gradually, then stop it.
Check the radiator and engine.
* If the engine is stopped without cooled down running, the temperature of engine parts will rise suddenly, this could cause severe engine trouble.

(4) Engine rpm gauge



- ① This gauge displays the number of engine revolutions per minute.

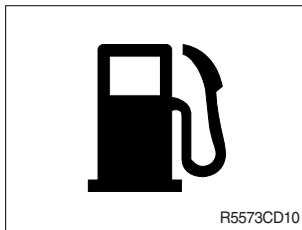
(5) Clock



- ① This displays the current time.
- ② Refer to the hour/minute adjust switch for adjusting time.

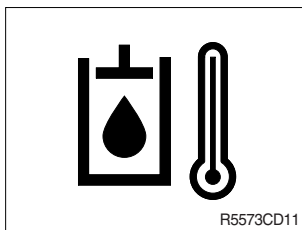
2) WARNING AND PILOT LAMPS

(1) Fuel low level warning lamp



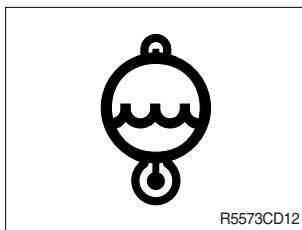
- ① This lamp blinks and the buzzer sounds when the level of fuel is below 13 l (3.4U.S. gal).
- ② Fill the fuel immediately when the lamp blinks.

(2) Hydraulic oil temperature warning lamp



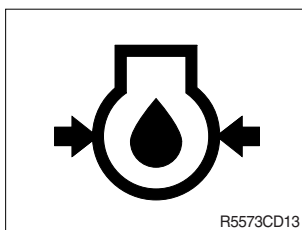
- ① This warning lamp blinks and the buzzer sounds when the temperature of hydraulic oil is over 105 °C (221 °F) .
- ② Check the hydraulic oil level when the lamp blinks.
- ③ Check for debris between oil cooler and radiator.

(3) Overheat warning lamp



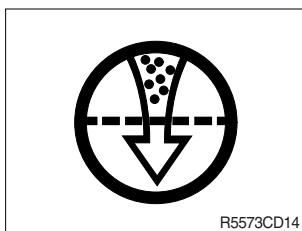
- ① This lamp blinks and the buzzer sounds when the temperature of coolant is over the normal temperature 110°C (230°F) .
- ② Check the cooling system when the lamp blinks.

(4) Engine oil pressure warning lamp



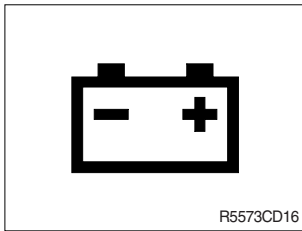
- ① This lamp blinks and the buzzer sounds after starting the engine because of the low oil pressure.
- ② If the lamp blinks during engine operation, shut OFF engine immediately. Check oil level.

(5) Air cleaner warning lamp



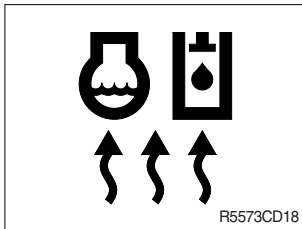
- ① This lamp blinks and the buzzer sounds when the filter of air cleaner is clogged.
- ② Check the filter and clean or replace it.

(6) Battery charging warning lamp



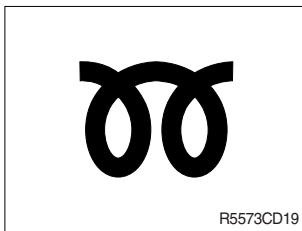
- ① This lamp blinks and the buzzer sounds when the starting switch is ON, it is turned OFF after starting the engine.
- ② Check the battery charging circuit when this lamp blinks during engine operation.

(7) Warming up pilot lamp



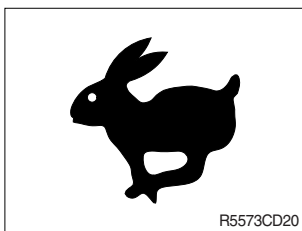
- ① This lamp is turned ON when the coolant temperature is below 30°C (86 °F).
- ② Warming up operation needed until this lamp OFF.

(8) Preheat pilot lamp



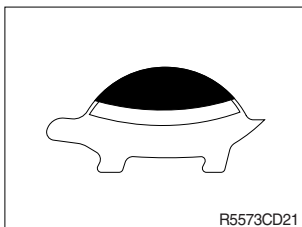
- ① When engine preheating switch is turned ON, pilot lamp comes ON.
- ② Refer to the preheating switch for details.

(9) Travel speed pilot lamp(High)



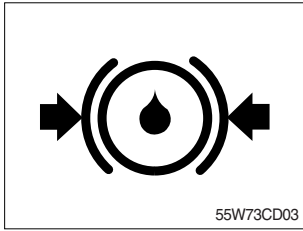
- ① When this lamp turned ON, the machine travel high speed.
- ② Refer to the travel speed control switch for details.

(10) Travel speed pilot lamp(Low)



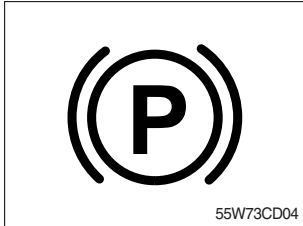
- ① When this lamp turned ON, the machine travel low speed.
- ② Refer to the travel speed control switch for details.

(11) Brake oil pressure warning lamp



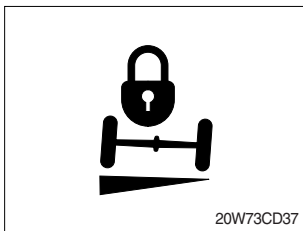
- ① The lamp lights ON when the oil pressure of service brake drops below the normal range.
 - ② When the lamp is ON, stop the engine and check for its cause.
- ※ **Do not operate until any problems are corrected.**

(12) Parking lock pilot lamp



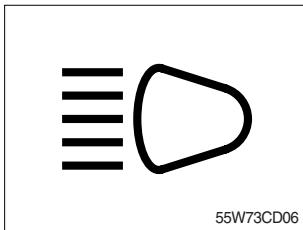
- ① When the parking brake is actuated, the lamp lights ON.
- ※ **Check the lamp is OFF before driving.**

(13) Ram lock pilot lamp



- ① This pilot lamp lights ON when ram lock switch is rear position.
- ② Also, the pilot lamp lights ON when the parking switch is ON or service brake is applied.

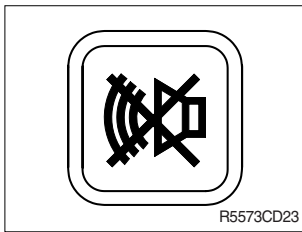
(14) Head light high beam pilot lamp



- ① This lamp is ON when the head light switch is high beam position or passing function.
- ② When passing other machines ahead, this lamp must be used for a few seconds to give other machines warning for a few seconds.

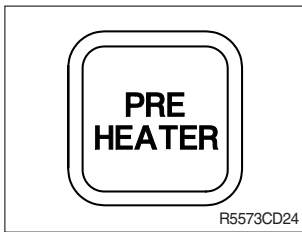
3) SWITCHS

(1) Buzzer stop switch



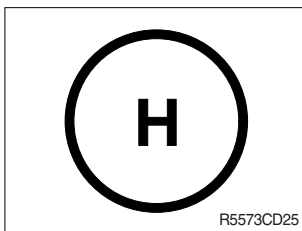
- ① When the starting switch is turned ON first, normally the alarm buzzer sounds for 6 seconds during lamp check operation.
- ② The red lamp lights ON and the buzzer sounds when the machine has a problem.
In this case, press this switch and buzzer stops, but the red lamp lights until the problem is cleared.

(2) Preheat switch



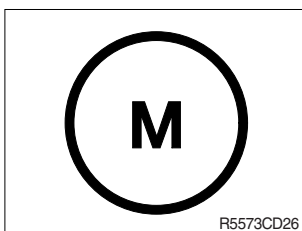
- ① In case of severe cold weather, this switch is used to preheat engine before starting.
- ② When this switch is pressed, the preheat pilot lamp is turned ON for 15 seconds in sequence and lamp OFF when the time is completed.
- ③ When the start key move to ON position, the preheat function is activated automatically under the coolant temperature is below 10° C(50° F).

(3) Hour adjust switch



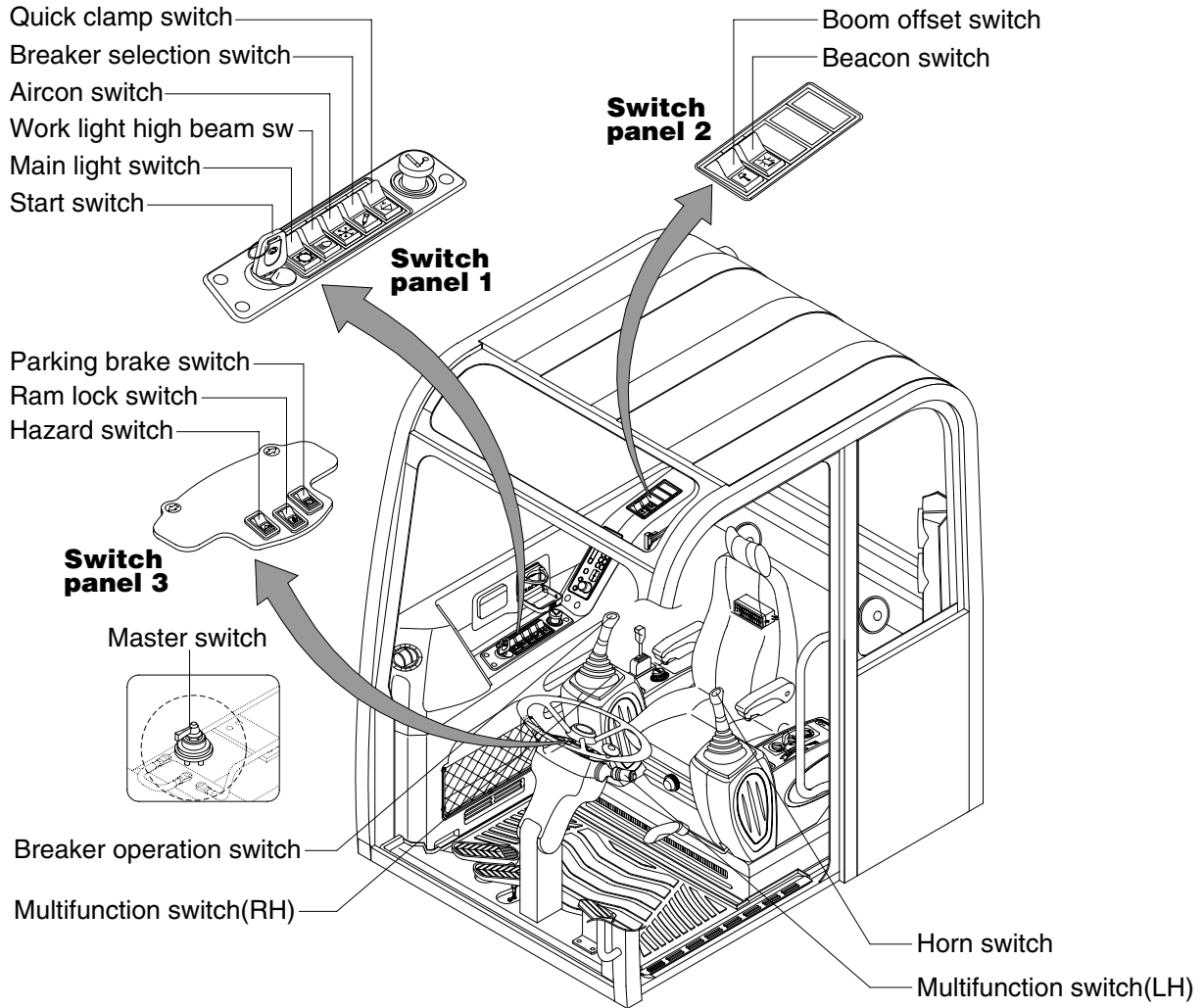
- ① This switch is used to adjust hour.
- ② The switch is pressed, hour is increased.

(4) Minute adjust switch



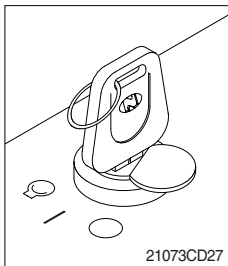
- ① This switch is used to adjust minute.
- ② The switch is pressed, minute is increased.

3. SWITCHES



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1) STARTING SWITCH



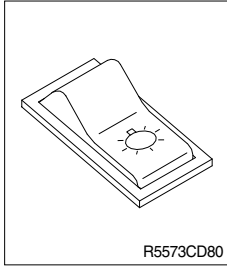
(1) There are three positions, OFF, ON and START.

- ○ (OFF) : None of electrical circuits activate.
- | (ON) : All the systems of machine operate.
- ○ (START) : Use when starting the engine.

Release key immediately after starting.

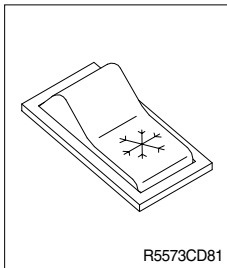
※ **Key must be in the ON position with engine running to maintain electrical and hydraulic function and prevent serious machine damage.**

2) MAIN LIGHT SWITCH



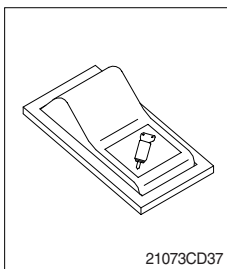
- (1) This switch use to operates the head light and work light by two step.
- First step : Head light and cluster illumination lamp comes ON.
 - Second step : Work light comes ON. Also, the below indicator lamp comes ON.

3) AIRCON SWITCH(Optional)



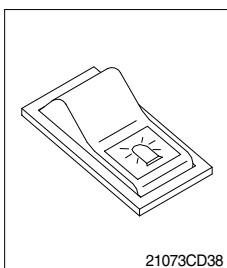
- (1) This switch use to operates the air conditioner.
- (2) Refer to the air conditioner and heater for detail operation.

4) BREAKER SELECTION SWITCH(Optional)



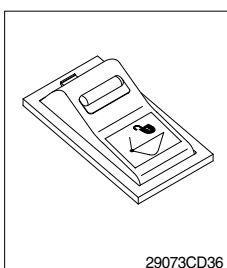
- (1) This switch is used to select breaker.
- ※ **The breaker operates only when this switch is selected.**

5) BEACON SWITCH(Optional)



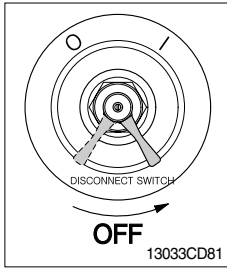
- (1) This switch turns ON the rotary light on the cab.
- (2) The below indicator lamp is turned ON when operation this switch.

6) QUICK CLAMP SWITCH(Optional)



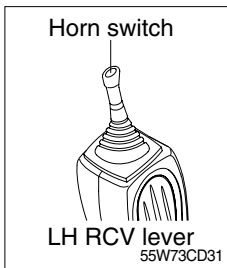
- (1) This switch is used to engage or disengage the moving hook on quick clamp.
- ※ **Refer to the page 8-6 for details.**

7) MASTER SWITCH



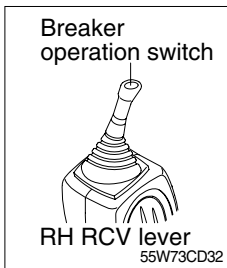
- (1) This switch is used to shut off the entire electrical system.
 - (2) I : The battery remains connected to the electrical system.
O : The battery is disconnected to the electrical system.
- ※ **Never turn the master switch to O(OFF) with the engine running. It could result in engine and electrical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

8) HORN SWITCH



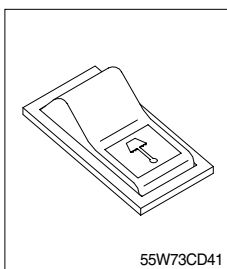
- (1) This switch is at the top of left side control lever. On pressing, the horn sounds.

9) BREAKER OPERATION SWITCH



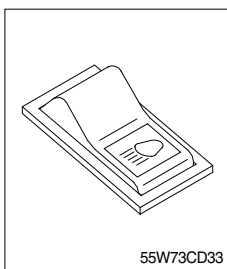
- (1) On pressing this switch, the breaker operates only when the breaker selection switch on the switch panel is selected.

10) BOOM OFFSET SWITCH(Option)



- (1) This switch is used to turn boom direction of machine by control lever.
- (2) The indicator lamp turned ON when operating this switch.
- (3) See page 4-7(Operation of working device).

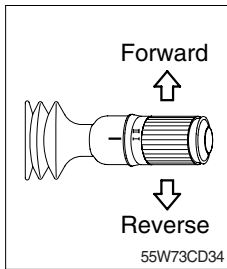
11) WORK LIGHT HIGH BEAM SWITCH



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

12) RH MULTI FUNCTION SWITCH

(1) Forward or reverse lever



① This lever changes travel direction of machine.

- Forward : Machine moves forward
- Reverse : Machine moves backward

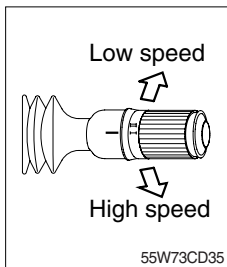
▲ Travel direction will be reversed if lower structure is positioned with dozer in front.

② The warning buzzer sounds when the lever is in the reverse position.

▲ If this lever is not in the neutral position, engine does not started.

▲ Be sure to stop the machine when changing the direction forward or backward while traveling.

(2) Travel speed switch



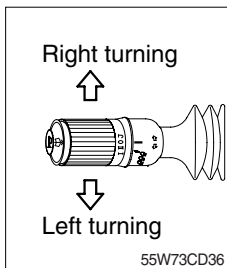
① This switch is for selecting travelling speed between high and low.

- Low speed(I) : 11.1km/hr(6.9mph)
- High speed(II) : 30km/hr(18.6mph)

▲ In case of changing the travel speed, be sure to stop the machine completely.

13) LH MULTI FUNCTION SWITCH

(1) Direction indication lamp switch

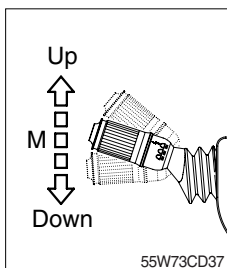


① This switch is used to warn or signal the turning direction of the machine to other machines or equipment.

② Push the lever to forward for turning right, pull the lever to backward for turning left.

③ The turning pilot lamp comes ON at the switch panel and the horn sounds.

(2) Dimmer switch



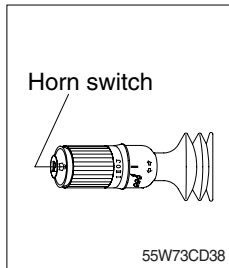
① This switch is used to turn the head lights direction.

② Switch positions.

- Up : To flash for passing
- Middle : Head lights low beam ON
- Down : Head lights high beam ON

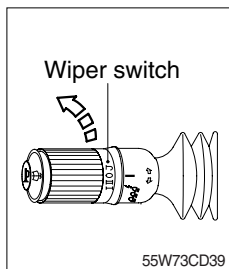
③ If you release the switch when it's in up position, the switch will return to middle.

(3) Horn switch



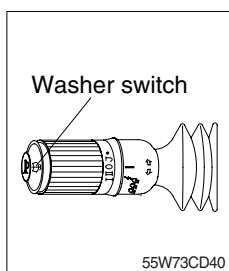
- ① This switch is at the end of left side multifunction switch. On pressing, the horn sounds.

(4) Wiper switch



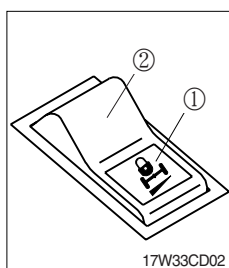
- ① When the switch is in **J** position, the wiper moves intermittently.
- ② When placed in **I** or **II** position, the wiper moves continuously.

(5) Washer switch



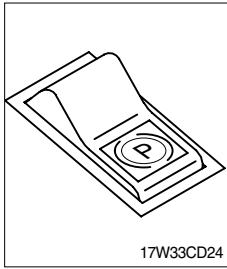
- ① If push the washer switch, washer liquid will be sprayed and the wiper will be activated 3~4 times.
- ※ **Check the quantity of washer liquid in the tank. If the level of the washer liquid is LOW, add the washer liquid(In cold, winter days) or water. The capacity of the tank is 1.5 liter.**

14) RAM LOCK SWITCH



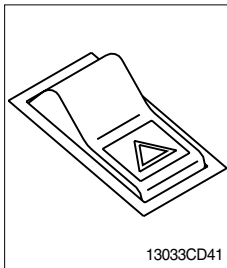
- (1) This switch activate front axle oscillation cylinder to locking position for increase of stability.
 - Push rear(①) : Set front axle to locking position for excavation work or travels even ground. Also, the ram lock warning lamp comes ON at the warning indicator.
 - Push front(②) : Front axle will be oscillate depend on ground condition when the machine travel uneven ground.

15) PARKING BRAKE SWITCH



- (1) This switch is used to operate parking brake.
- (2) On pressing the switch, the below indicator lamp is turned ON and the pilot lamp comes ON at the warning indicator.

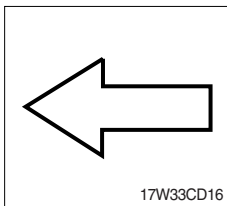
16) HAZARD SWITCH



- (1) Use for parking, or roading machine.
- (2) LH and RH turn signal lamps come ON at the same time by this switch.
- ※ If the switch is left ON for a long time, the battery may be discharged.

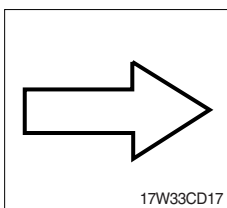
17) TURNING PILOT LAMP

(1) Left turning pilot lamp



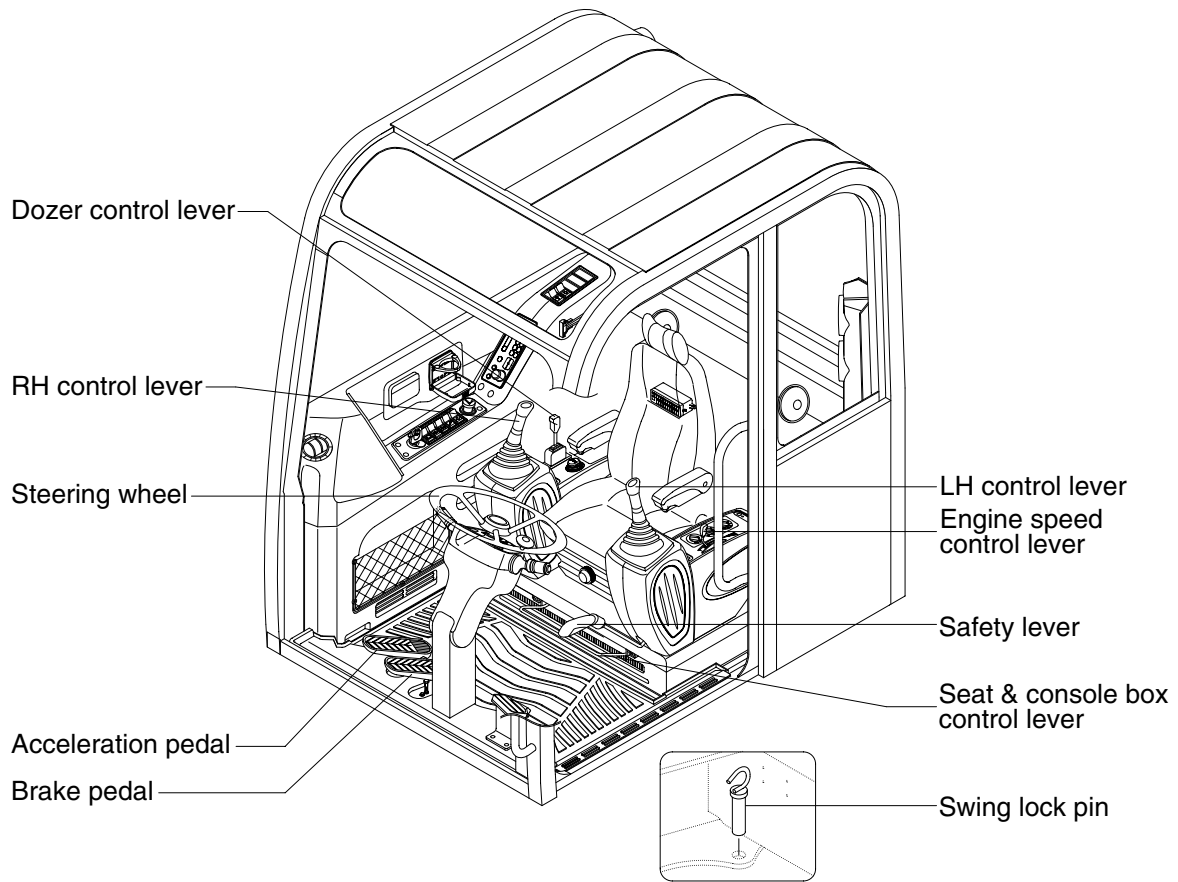
- ① This lamp flashes with sound when the LH multifunction switch is move to backward position.

(2) Right turning pilot lamp



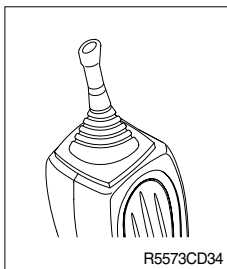
- ① This lamp flashes with sound when the LH multifunction switch is move to forward position.

4. LEVERS AND PEDALS



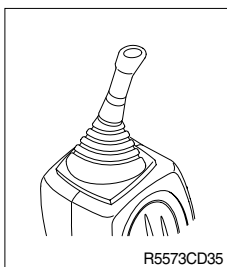
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1) LH CONTROL LEVER



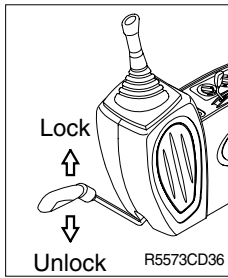
- (1) This joystick is used to control the swing and the arm.
- (2) Refer to **operation of working device** in chapter 4 for details.

2) RH CONTROL LEVER



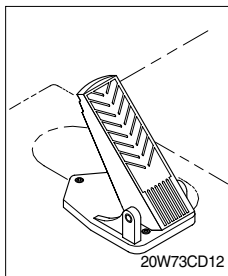
- (1) This joystick is used to control the boom and the bucket.
- (2) Refer to **operation of working device** in chapter 4 for details.

3) SAFETY LEVER



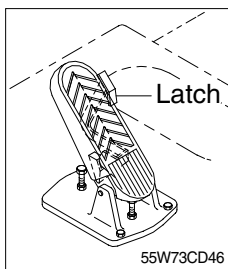
- (1) All control levers and pedals are disabled from operation by locating the lever to lock position as shown.
 - ※ **Be sure to raise the lever to LOCK position and tilt LH console box when leaving from operator's seat.**
- (2) By pushing lever to UNLOCK position, machine is operational.
 - ※ **Do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

4) ACCELATION PEDAL



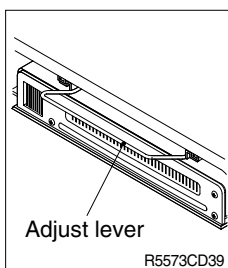
- (1) When this pedal is stepped, the machine starts traveling.
 - ▲ **Before starting the machine with stepping on the pedal, check if the underframe is certainly in the traveling direction.**

5) BRAKE PEDAL



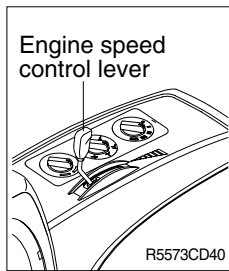
- (1) Pedal and latch provide two kinds of service brake function.
- (2) To operate service brake, push pedal with latch by foot.
 - ▲ **Push pedal and latch at once to avoid unexpected locking of pedal in traveling condition.**
 - ▲ **During travel, do not push pedal only in full stroke. It is dangerous due to the locking of service brake.**
- (3) If you want to choose working brake, just push pedal in full stroke without latch then the latch locks pedal and service brake is working continuously until you push the latch to release the pedal.
- (4) Push latch to release working brake.

6) SEAT AND CONSOLE BOX ADJUST LEVER



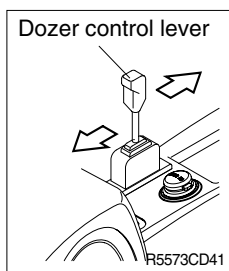
- (1) This lever is used to move the seat and console box to fit the contours of the operator's body.
- (2) Pull the lever to adjust forward or backward over 170mm(6.7").

7) ENGINE SPEED CONTROL LEVER



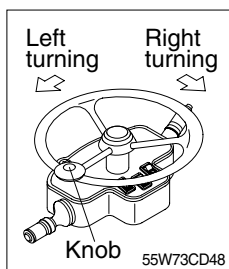
- (1) This lever is used to increase or decrease the rotation speed of engine.
- (2) Move the lever backward to increase engine RPM. Move the lever forward to decrease engine RPM.
- (3) When stopping the engine, move the engine speed control lever forward completely and turn key OFF.

8) DOZER CONTROL LEVER



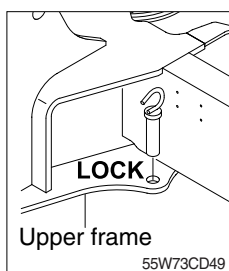
- (1) This lever is used to operate the dozer blade.
- (2) If the lever is pushed forward, the dozer blade will be going down. If the lever is pulled back, the dozer blade will be going up.

9) STEERING WHEEL



- (1) If the steering wheel is turned to left, the machine will move to the left and turn it to the right, the machine will move to the right.
- (2) As the handle is equipped with a knob, it is convenient to operate with one hand or quickly.

10) SWING LOCK PIN

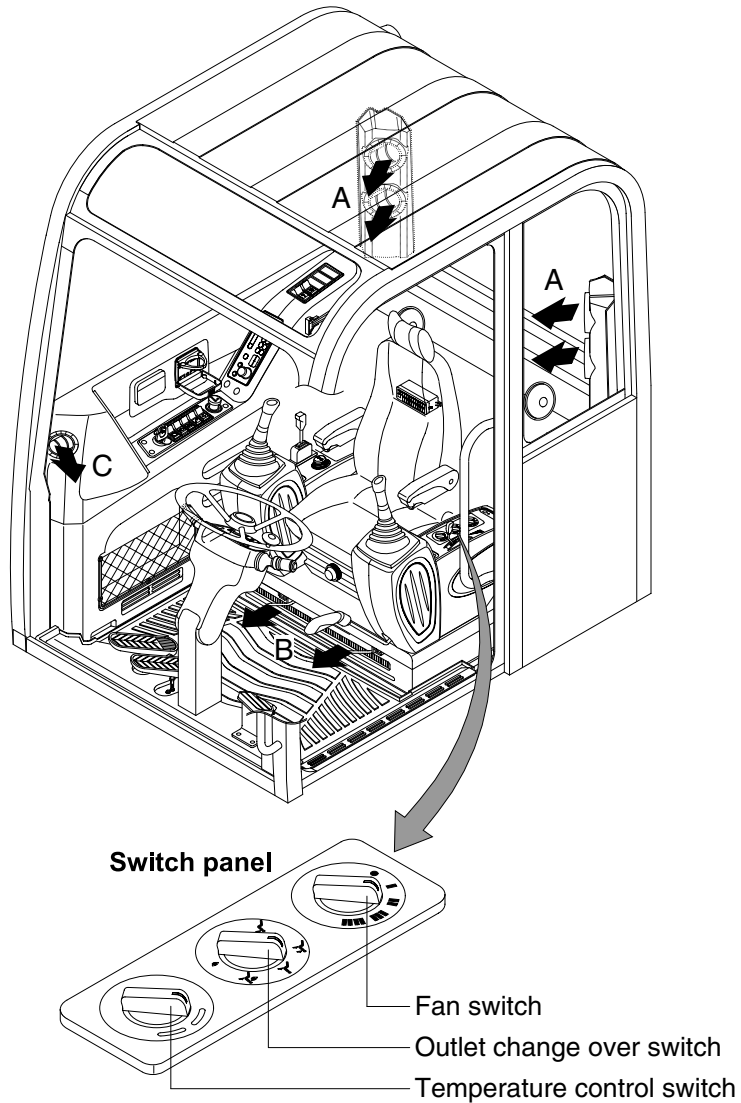


- (1) This is the system to lock the swing by connecting the upper swing part and the lower frame mechanically.
 - (2) The swing is locked when the lever is down and released when the lever is up.
- ※ **Before operating the machine, be sure to release the swing lock device.**

5. AIR CONDITIONER AND HEATER

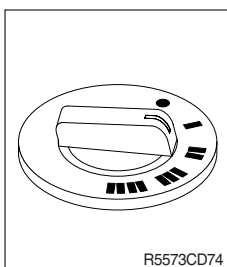
Air conditioner and heater are equipped for pleasant operation against outside temperature.

- Location of air flow ducts



55W73CD50

1) FAN SWITCH

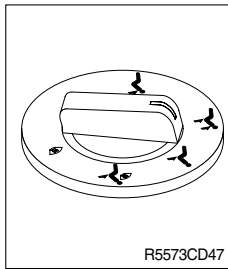


R5573CD74

It is possible to control the fan to four steps.

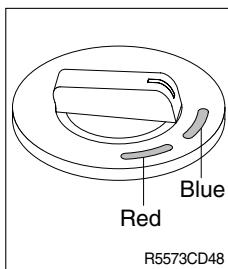
-  : Low
-  : Medium-Low
-  : Medium-High
-  : High

2) OUTLET CHANGE OVER SWITCH



Switch position		Mode				
Outlet	A		●	●		
	B	●		●	●	
	C				●	●

3) TEMPERATURE CONTROL SWITCH



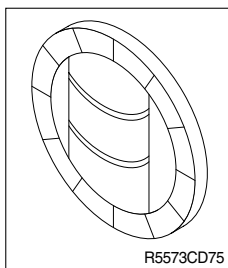
(1) Cooling(Air conditioner switch : ON)

- ① Turned ON the air conditioner switch on the switch panel.
- ② Turn the control switch into **blue range** to decrease output air temperature.

(2) Heating(Air conditioner switch : OFF)

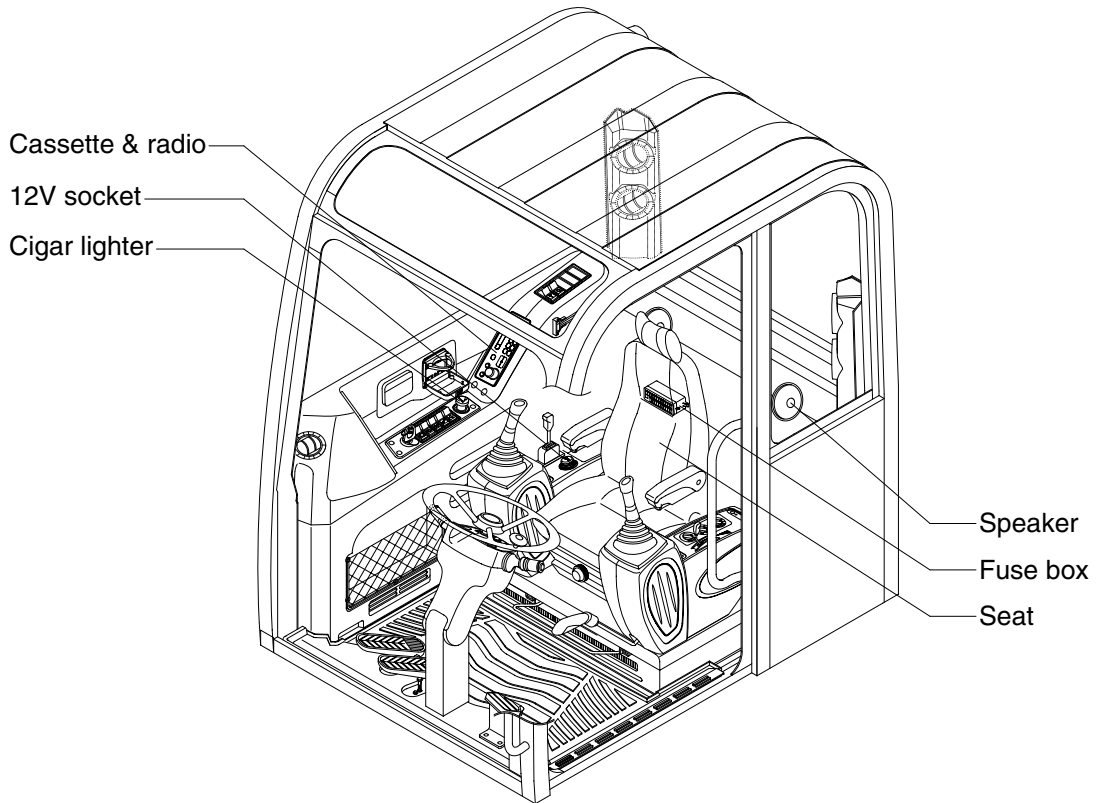
- ① Turned OFF the air conditioner switch on the switch panel.
- ② Turn the control switch into **red range** to increase temperature.

4) OUTLET CONTROL LOUVER



The direction of air can be controlled.
It can be closed or opened.

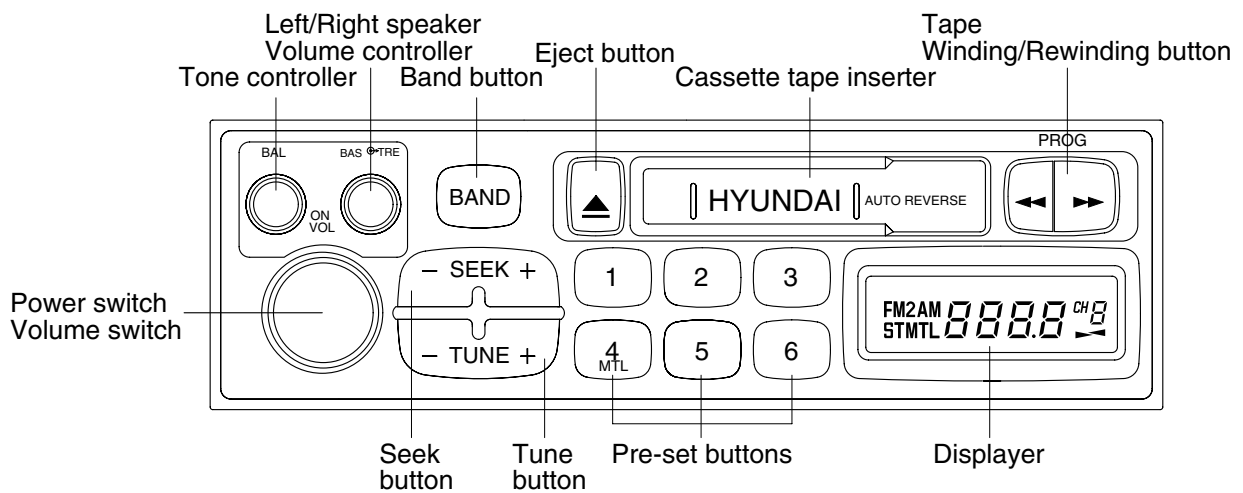
6. OTHERS



55W73CD5

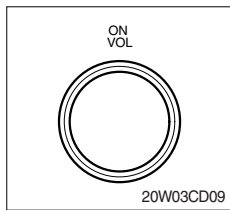
1) CASSETTE AND RADIO(~#0205)

High performance audio system is equipped for pleasant operation.



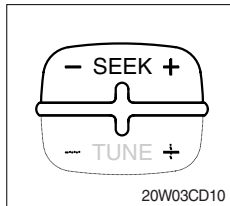
20W03CD08

(1) Power and volume switch



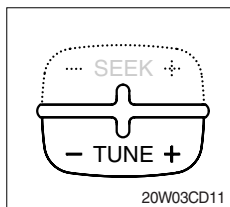
- ① This switch is turned to right, power will be turned ON and the sound is increased.
 - ② If it is turned to left, volume will be decreased and power will be turned OFF.
- ※ **The volume controller of the cassette radio does not operate when turning ON the remote controller power.**

(2) Seek button



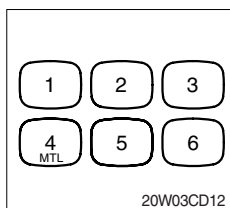
- ① If this seek button is pressed, the radio automatically stops at the next frequency of broadcasting for your listening.

(3) Tune button



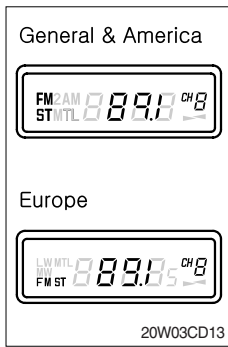
- ① Whenever you press " + " button, higher channels are selected.
 - ② Whenever you press " - " button, lower channels are selected.
- ③ **General**
AM band : Frequency changes in 9kHz between 531 to 1602kHz.
FM band : Frequency changes in 0.1MHz between 87.5 to 108.0MHz.
- ④ **America**
AM band : Frequency changes in 10kHz between 530 to 1710kHz.
FM band : Frequency changes in 0.2MHz between 87.9 to 107.9MHz.
- ⑤ **Europe**
LW band : Frequency changes in 9kHz between 153 to 279kHz.
MW band : Frequency changes in 9kHz between 522 to 1620kHz.
FM band : Frequency changes in 0.05MHz between 87.5 to 108.0MHz.

(4) Pre - set button



- ① You can immediately listen to the station by pressing pre-set button for which broadcasting station is pre-set.
- ② How to set broadcasting in memory.
 - You can pre-set 6 stations each AM/FM band.
 - When you want the station to be set in memory, press selected pre-set button for more than 2 seconds.

(5) Displayer



① General and America

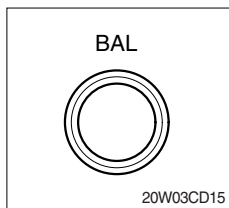
· When radio is turned ON, stereo, AM, FM, FM2, MTL and reception frequency are displayed.

② Europe

· When radio is turned ON, stereo, LW, MW, FM, FM2, MTL and reception frequency are displayed.

③ When cassette tape is played, indicator arrow(◀ , ▶) are displayed.

(6) Left/Right speaker volume button

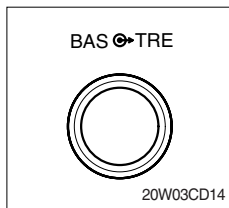


① If balance button is pressed, it will spring out.

Volume of right and left speakers will be adjusted by turning the button to right or left.

② It will be fixed by pressing again after adjustment.

(7) Tone button



① BASS tone

If tone button is pressed, it will spring out.

If it is turned to right, BASS tone is increased, and if it is turned to left, BASS tone is decreased.

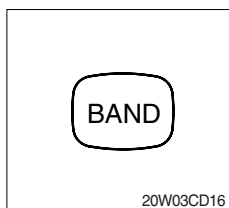
② TREBLE tone

You can adjust the TREBLE tone by pull out the button.

If it is turned to right, TREBLE tone is increased, and if it is turned to left, TREBLE tone is decreased.

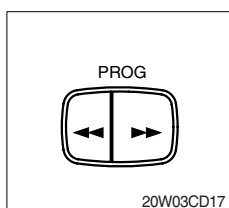
③ It will be fixed by pressing again after adjustment.

(8) Band button



① You can listen to broadcasting on AM or FM band by pressing this band selection button.

(9) Tape winding/Rewinding button

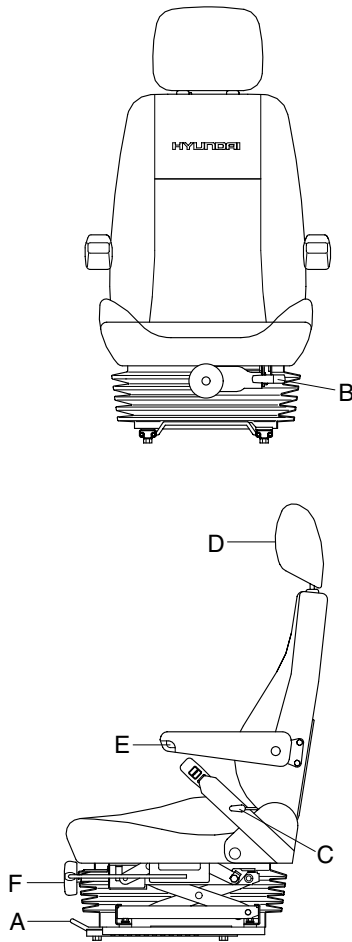


① If you press this button once while the tape is playing the direction will be reversed.

② If you press one of these buttons the tape will be winding fast or rewinding, and if you press another button on a certain point, the tape will be played.

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.



95W33CD16

(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 170mm(6.7") in 9 steps.

(2) Upward/Downward adjustment(B)

- ① Pull or push 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 rotating the dial or knob E to right and left.

(5) Head rest adjustment (D)

This is adjustable vertically and inclinedly to fit operator's requirements.

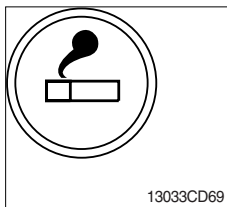
(6) Cushion adjustment (F)

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) CIGAR LIGHTER



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

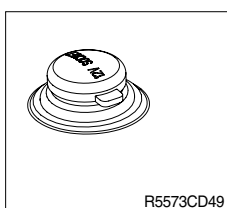
(2) The lighter can be used when it springs out in a short while after being pressed down.

※ Service socket

Use cigar lighter socket when you need emergency power.

Do not use the lighter exceeding 12V, 120W.

4) 12V SOCKET(Option)



(1) Utilize the power of 12V as your need and do not exceed power of 12V, 120W.

5) FUSE BOX

WORK LAMP	20A	START KEY	20A
HORN CIGAR	20A	CASSETTE ROOM LAMP	20A
FILLER PUMP STOP LAMP	20A	CLUSTER (B+)	5A
SAFETY SOL	5A	TURN LAMP	10A
SOLENOID	20A	CASSETTE (IG)	5A
ALT. START	10A	CLUSTER (IG)	5A
TRAVEL SOL	10A	FUEL CUT-OFF FUEL FEEDING	10A
PRE-HEATER	10A	WIPER	20A
POSITION LAMP	10A	AIRCON HEATER	30A
POSITION LAMP	10A	HEAD LAMP	20A
FUSE HOLDER		SPARE FUSE	10A
		SPARE FUSE	20A

55W73CD60

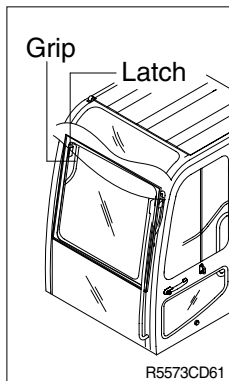
(1) The fuses protect the electrical parts and wiring from burning out.

(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.**

6) UPPER WINDSHIELD



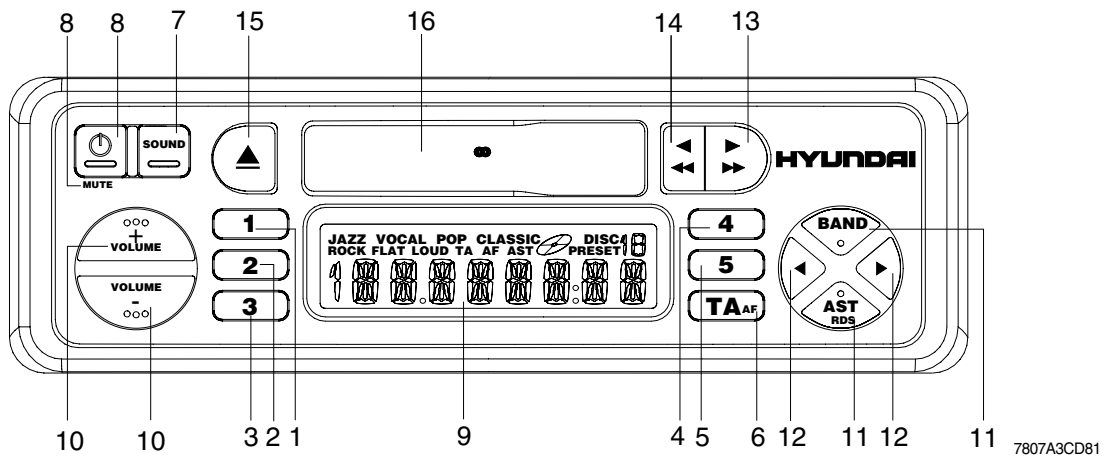
R5573CD61

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

- ① Release both latches in order to release the upper windshield.
- ② Hold both grips that are located at both side 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 is engaged.

(2) Perform the following procedure in order to close the upper windshield.
Reverse step ① through step ③ in order to close the upper windshield.

7) RADIO AND CASSETTE(Standard, #0206~)

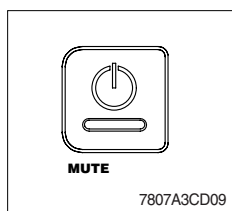


■ FRONT PANEL PRESENTATION

- | | | | | | |
|----|--------------|---|-------------------|------------------------------|------------------------------------|
| 1 | 1 | Preset button 1 | 11 | RDS | Long press : RDS on/off |
| 2 | 2 | Preset button 2 | BAND | Short press : To select band | |
| 3 | 3 | Preset button 3 | AST | Short press : Autostore | |
| 4 | 4 | Preset button 4 | 12 | ◀▶ | Tuner mode |
| 5 | 5 | Preset button 5 | | | Short press : Auto search up/down |
| 6 | TA AF | Short press : TA on/off
Long press : AF on/off | | | Long press : Manual search up/down |
| 7 | SOUND | Select sound/audio styles | | | Cassette mode : No function |
| 8 | ⏻ | Short press : power on
Long press : power off | 13 | ▶▶ | Fast forward |
| | MUTE | Short press : To mute or cancel mute. | 14 | ◀◀ | Fast rewind |
| 9 | | Display | 15 | ▲ | Eject cassette |
| 10 | | Volume knob : Press up/down to
adjust the volume ; adjust selected
audio mode | 16 | | Cassette opening |

■ AUDIO


(1) Power and mute button



① POWER ON/OFF

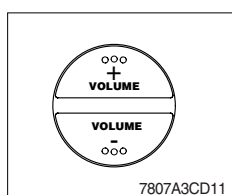
Press  to switch on the set. Press  for more than 2 seconds to switch off the set.

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).

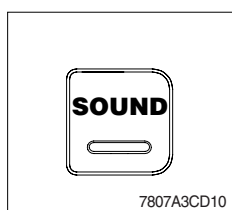
(2) Volume button



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

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

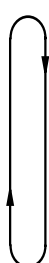
(3) Sound button



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

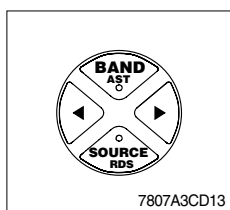
- Press SOUND to select desired audio mode.
- Adjust the settings with the volume up/down buttons :

	- 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.

■ RADIO

(1) Wave band / Automatic search button



① WAVEBAND

- Press BAND to select the desired band:



② AUTOMATIC SEARCH

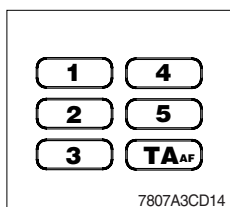
Use search tuning to automatically search for a station.

- 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

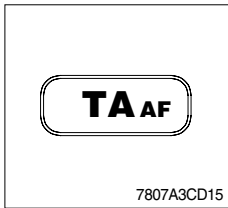
Press the desired preset key(1 to 5) to recall the stored station.

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  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  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

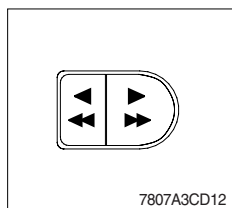
- Short press  key to interrupt traffic announcement without switching off the mode
- The set will return to the previous operating mode.

※ 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

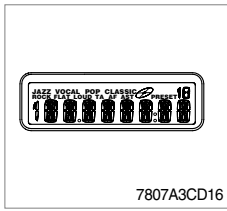
At the end of the tape, playback continues in the revers direction.

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.


■ 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".