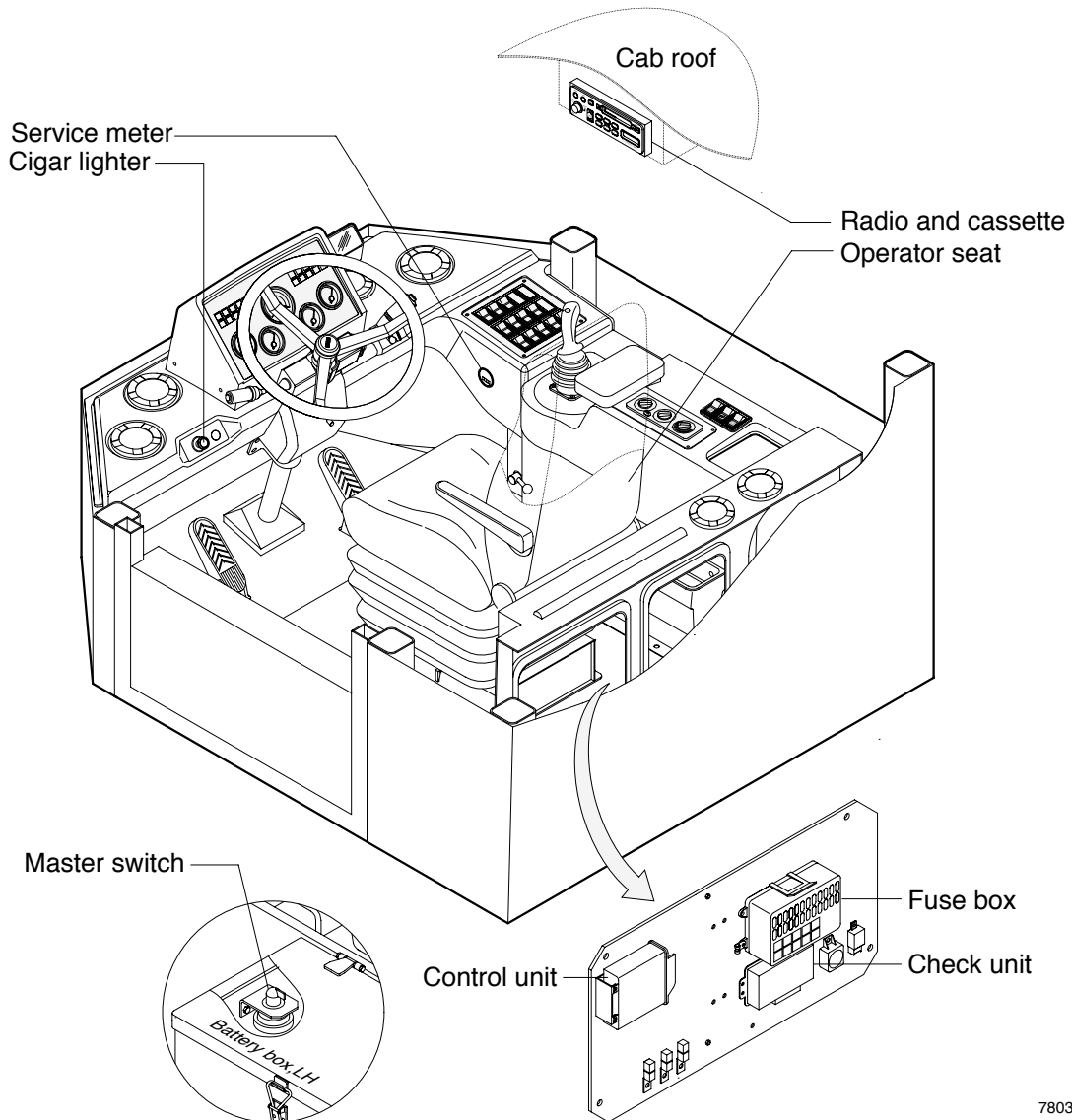


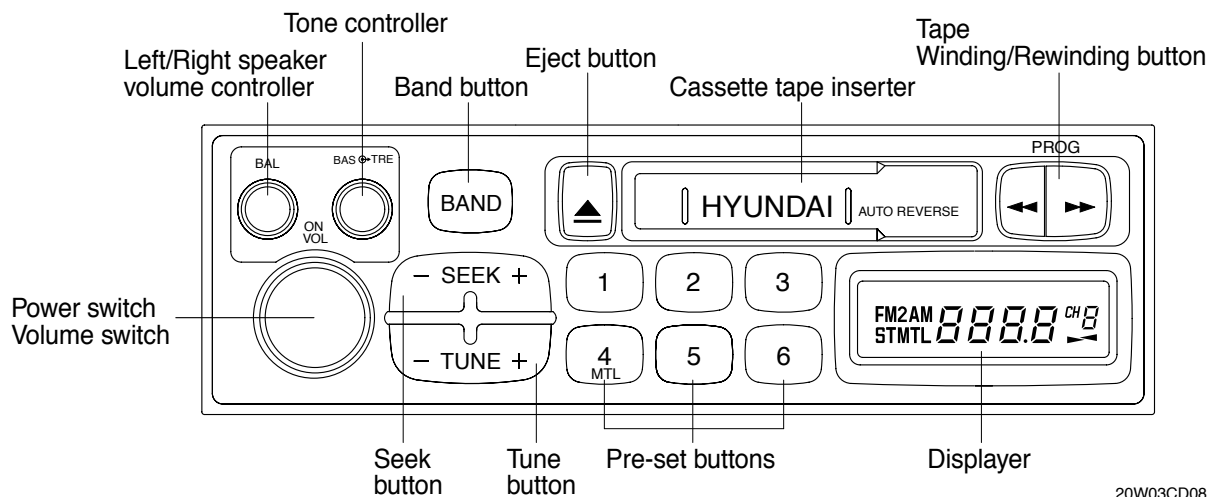
## 6. OTHERS



7803ACD32

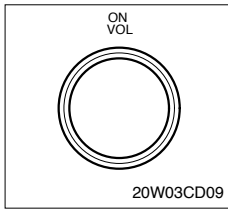
### 1) RADIO AND CASSETTE

High performance audio system is equipped for pleasant operation.



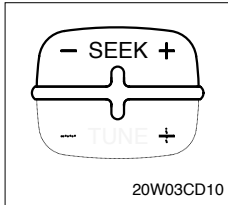
20W03CD08

### (1) Power and volume switch



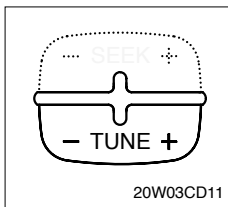
- ① This switch is turned to right, power will be turned ON and the sound is increased.
- ② If it is turned to left, volume will be decreased and power will be turned OFF.

### (2) Seek button



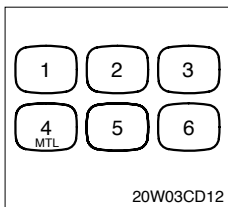
- ① If this seek button is pressed, the radio automatically stops at the next frequency of broadcasting for your listening.

### (3) Tune button



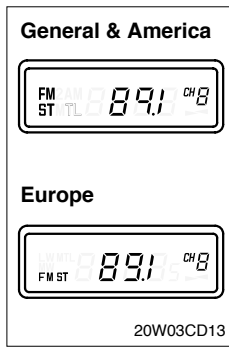
- ① Whenever you press " + " button, higher channels are selected.
- ② Whenever you press " - " button, lower channels are selected.
- ③ **General**  
AM band : Frequency changes in 9kHz between 531 to 1602kHz.  
FM band : Frequency changes in 0.1MHz between 87.5 to 108.0MHz.
- ④ **America**  
AM band : 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

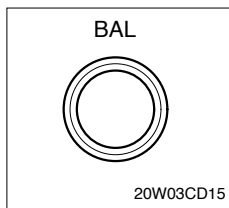
When radio is turned ON, stereo, AM, FM, FM2, MTL and reception frequency are displayed.

### 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

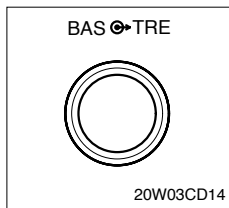


① If balance button is pressed, it will spring out.

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.

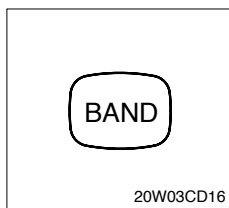
### ② TREBLE tone

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.

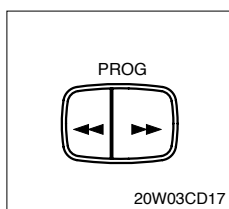
③ It will be fixed by pressing again after adjustment.

## (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

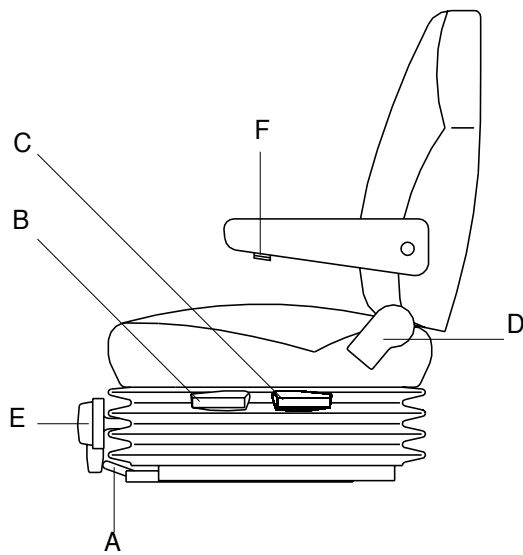


① If you press this button once while the tape is playing the direction will be reversed.

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.



73033CD50

### (1) Forward/Backward adjustment

- ① Pull lever A to adjust seat forward or backward.
- ② The seat can be moved forward and backward over 200mm(8in) in 10 steps.

### (2) Upward/Downward adjustment

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

### (3) Reclining adjustment

Pull lever D to adjust seat back rest.

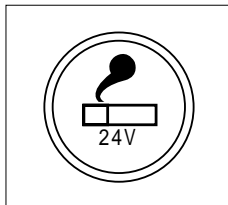
### (4) Arm rest adjustment

This can be adjusted by turning the handle F to right and left.

### (5) Cushion adjustment (E)

Adjusting handle to the operator's weight.

## 3) CIGAR LIGHTER



73033CD49

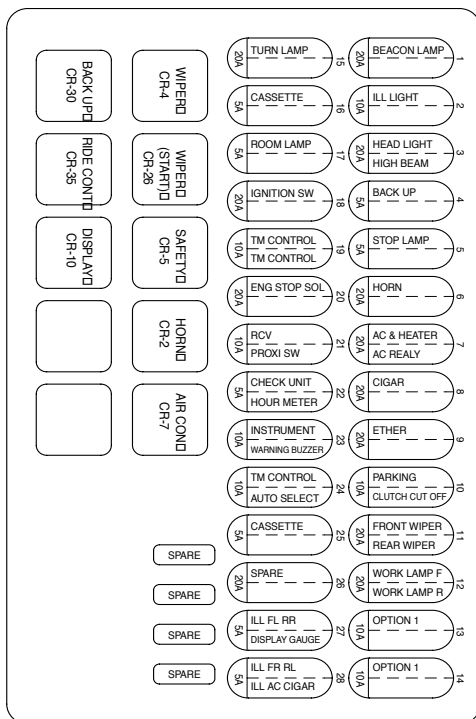
- (1) This can be used when the engine starting switch is ON.
- (2) The lighter can be used when it springs out in a short while after being pressed down.

### ※ Service socket

**Use cigar lighter socket when you need emergency power.**

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

#### 4) FUSE BOX



76043CD07

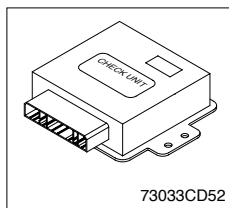
(1) The fuses protect the electrical parts and wiring from burning out.

(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.**

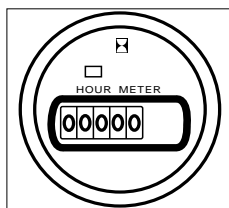
#### 5) CHECK UNIT



73033CD52

(1) It consists of electronic parts and controls all lamps and buzzers on the instrument board in accordance with signals transmitted from the switches, the engine and the hydraulic pressure sensors.

#### 6) SERVICE METER

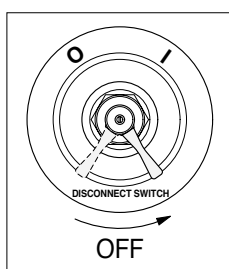


750TM3CD11

(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**.

#### 7) MASTER SWITCH



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.

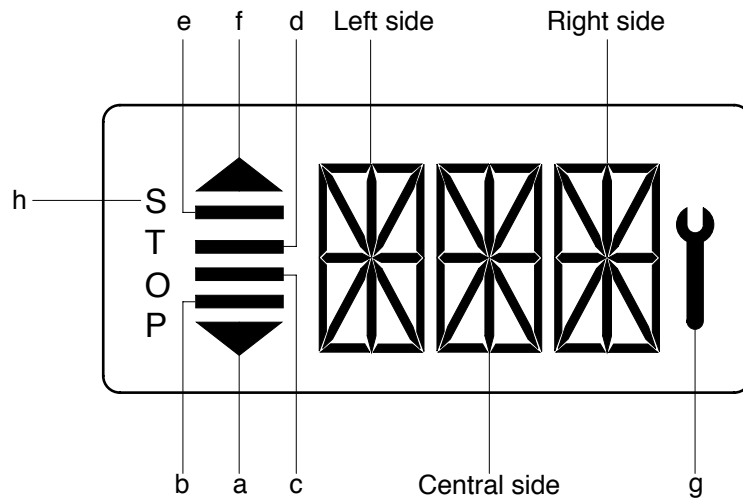
※ **Never turn the master switch to O(OFF) with the engine running. Engine and electrical system damage could result.**

## 8) TRANSMISSION ERROR DISPLAY

### (1) Function

The display can be used with the gear selector(DW-3). It indicates speed and driving direction as well as the activated kickdown.

When driving in the automatic mode, a bar indicator gives additionally also information about the selected driving range; The automatic range is symbolized by arrows above and below the bar indicator. In case of possible errors in the system, a wrench appears on the display, combined with indication of the error number. Also sporadically occurring errors can be indicated.



7803A3CD33

1	Bars	a, f	Automatic range(up and down shifting)
		b, c, d, e	Preselected gear
2	Left side		For the moment still without function
3	Central and Right side		On the two alphanumeric 16-segment display, the electric control unit issues the actual state of gear and driving direction. Besides, a two digit error code will be indicated via these two segment
4	Spanner	g	Electronic control unit recognized an error, is flashing
5	Letters <b>STOP</b>	h	Immediate stop is required(At the moment not activated)

## (2) Display during operation

Symbol	Meaning	Remarks
F, N, R 1, 2, 3, 4	Actual gear and direction Central side shows actual gear Right side shows actual direction	
NN (Central and right side)	Not neutral, waiting for neutral after power up or a severe fault	To engage a gear, first move shift selector to neutral position and again to F to R position
1 bar	Manual mode 1st gear	
2 bar	Manual mode 2nd gear	
3 bar	Manual mode 3rd gear	
4 bar	Manual mode 4nd gear	
4 bars and 2 arrows	Automatic mode	a, f
Arrows(a, f) flashing	Kick down mode active	
* *	Transmission neutral	Cold start phase
Bars flashing	Downshift mode active	
Spanner flashing	At least on fault active	Select neutral to get fault code displayed
WT	Warning torque converter temperature	Changes between actual gear/direction while driving, in neutral only displayed if no fault is detected(spanner)
WS	Warning sump temperature	Changes between actual gear/direction while driving, in neutral only displayed if no fault is detected(spanner)
WE	Warning high engine speed	Changes between actual gear/direction while driving, in neutral only displayed if no fault is detected(spanner)
PN	Direction F or R selected while parking brake engaged	Transmission in neutral until parking brake is released. ※ Machine starts to move after release of parking brake.
F or R flashing	Direction F or R selected while turbine speed is too high	※ Gear will engage when turbine speed drops
EE flashing (central and right side)	No communication with display	

### (3) Definition of the error codes

#### ① Introduction

The error codes consists of two hexadecimal numbers.

The first number shows the type of signal, the second number shows signal and the type of the error.

#### ② Description of error codes

First No.	Meaning of number
1 hex	Digital input signals
2 hex	Analog input signals
3 hex	Speed signals
4 hex	Speed signals
7 hex	Analog current output signals
8 hex	Analog current output signals
9 hex	Digital output signals
A hex	Digital output signals
B hex	Clutch errors
D hex	Power supply
E hex	High speed signals
F hex	General errors

#### ③ List of error codes

Number	Meaning of error code
11 hex	Logical error at gear range signal
12 hex	Logical error at direction select signal
21 hex	Short circuit to battery voltage at clutch cutoff input
22 hex	Short circuit to ground or open circuit at clutch cutoff input
23 hex	Short circuit to battery voltage at load sensor input not used
24 hex	Short circuit to ground or open circuit at load sensor input not used
25 hex	Short circuit to battery voltage or open circuit at temperature sensor input
26 hex	Short circuit to ground at temperature sensor input
31 hex	Short circuit to battery voltage at engine speed input
32 hex	Short circuit to ground or open circuit at engine speed input
33 hex	Logical error at engine speed input
34 hex	Short circuit to battery voltage at turbine speed input
35 hex	Short circuit to ground or open circuit at turbine speed input
36 hex	Logical error at turbine speed input
37 hex	Short circuit to battery voltage at internal speed input
38 hex	Short circuit to ground or open circuit at internal speed input
39 hex	Logical error at internal speed input

Number	Meaning of error code	
3A hex	Short circuit to battery voltage or open circuit at output speed input	
3B hex	Short circuit to ground or open circuit at output speed input	
3C hex	Logical error at output speed input	
71 hex	Short circuit to battery voltage at clutch K1	
72 hex	Short circuit to ground at clutch K1	
73 hex	Open circuit at clutch K1	
74 hex	Short circuit to battery voltage at clutch K2	
75 hex	Short circuit to ground at clutch K2	
76 hex	Open circuit at clutch K2	
77 hex	Short circuit to battery voltage at clutch K3	
78 hex	Short circuit to ground at clutch K3	
79 hex	Open circuit at clutch K3	
7A hex	Short circuit to battery voltage at converter clutch	not used
7B hex	Short circuit to ground at converter clutch	not used
7C hex	Open circuit at converter clutch	not used
81 hex	Short circuit to battery voltage at clutch K4	
82 hex	Short circuit to ground at clutch K4	
83 hex	Open circuit at clutch K4	
84 hex	Short circuit to battery voltage at clutch KV	
85 hex	Short circuit to ground at clutch KV	
86 hex	Open circuit at clutch KV	
87 hex	Short circuit to battery voltage at clutch KR	
88 hex	Short circuit to ground at clutch KR	
89 hex	Open circuit at clutch KR	
91 hex	Short circuit to ground at relay reverse warning alarm	
92 hex	Short circuit to battery voltage at relay reverse warning alarm	
93 hex	Open circuit at relay reverse warning alarm	
94 hex	Short circuit to ground at relay starter interlock	
95 hex	Short circuit to battery voltage at relay starter interlock	
96 hex	Open circuit at relay starter interlock	
97 hex	Short circuit to ground at park brake solenoid	
98 hex	Short circuit to battery voltage at park brake solenoid	
99 hex	Open circuit at park brake solenoid	

Number	Meaning of error code	
B1 hex	Slippage at clutch K1	
B2 hex	Slippage at clutch K2	
B3 hex	Slippage at clutch K3	
B4 hex	Slippage at clutch K4	
B5 hex	Slippage at clutch KV	
B6 hex	Slippage at clutch KR	
B7 hex	Overheating T/M oil	
D1 hex	Short circuit to battery voltage at power supply for sensors	
D2 hex	Short circuit to ground at power supply for sensors	
D3 hex	Low voltage at battery	
D4 hex	High voltage at battery	
D5 hex	Error at valve power supply 1	
D6 hex	Error at valve power supply 2	
E1 hex	Short circuit to battery voltage at speedometer output	not used
E2 hex	Short circuit to ground or open circuit at speedometer output	not used
E3 hex	Short circuit to battery voltage at display output	not used
E4 hex	Short circuit to ground at display output	not used
E5 hex	Communication failure on devicenet	
F1 hex	General EEPROM fault	
F2 hex	Configuration lost	
F3 hex	Application error	