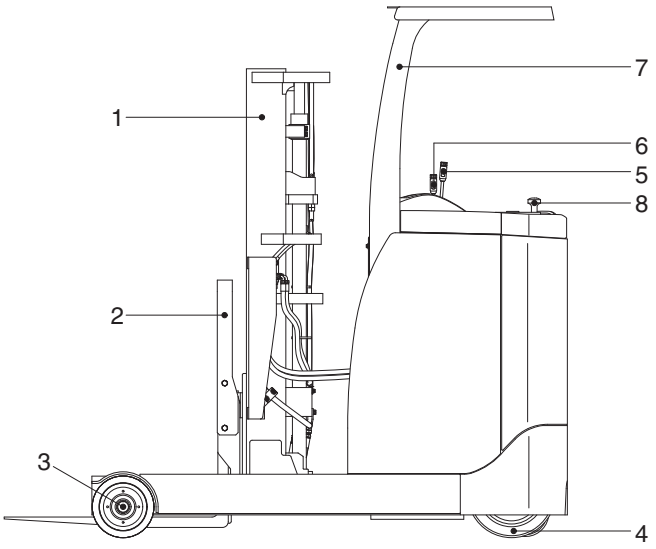
1. GENERAL LOCATIONS

1) OUTLINE



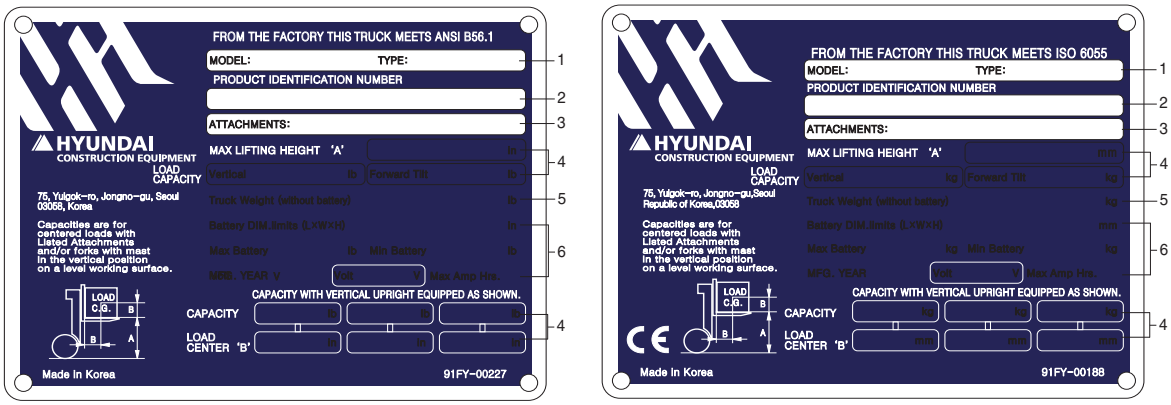
18BR9OM54

TRUCK TYPE : Electric, 48 Volt.

1	Mast	5	Control lever
2	Carriage and backrest	6	Accelerator
3	Load tire	7	Overhead guard
4	Drive unit and tire	8	Steering wheel

2. DATA/SAFETY PLATES AND DECALS

1) TRUCK DATA AND CAPACITY PLATE



91FY-00227-00188

(1) Truck model number or registered name

(2) Truck serial number

An identification number assigned to this particular truck and should be used when requesting information or ordering service parts for this truck from your authorized HYUNDAI dealer. The serial number is also stamped on the frame.

(3) Attachment description (If any installed)

The user must see that the truck is marked to identify the attachment(s), including the weight of the truck/attachment combination and truck capacity with the attachment.

(4) Capacity rating, load center, and lifting height data

Shows the maximum load capacity of this truck with relation to load centers and fork heights (See diagram on plate). Personal injury and damage to the truck can occur if these capacities are exceeded.

Do not exceed the maximum capacity specified.

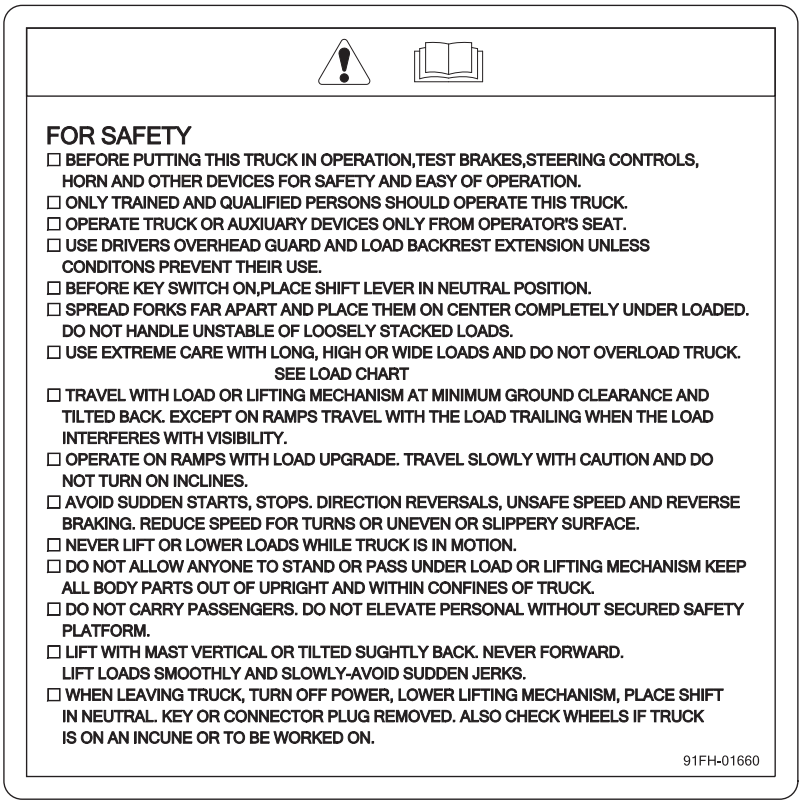
(5) Truck weight

The approximate weight of the truck without a load on the forks. This weight plus the weight of the load must be considered when operating on elevators, elevated floors, etc. to be sure they are safe.

(6) Battery weight and system voltage

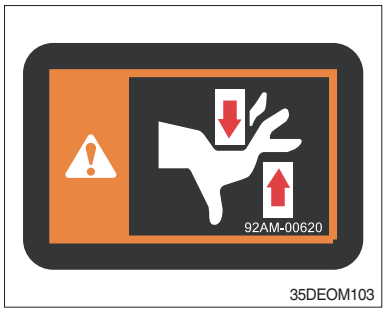
⚠ Before modifications that affect the stability of safety systems are made written approval from HYUNDAI. Contact your authorized HYUNDAI dealer for a new nameplate showing the revised capacity.

2) OPERATING SAFETY WARNING DECAL



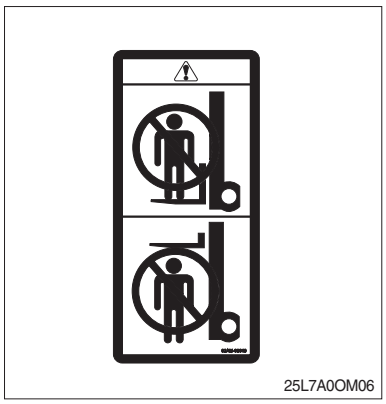
22BH9FW05

91FP-00810



⚠ Mast warning decal

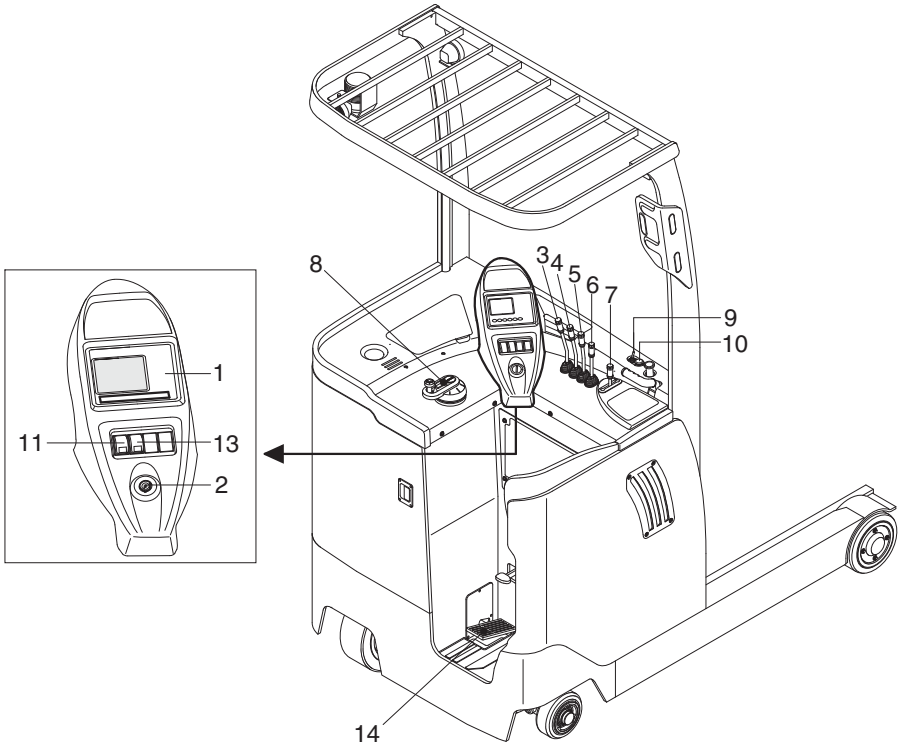
This safety decal is placed on the mast to warn of the danger of injury from movement between rails, chains, sheaves, fork carriage, and other parts of the mast assembly. Do not climb on or reach into the mast. Personal injury will result if any part of your body is put between moving parts of the mast.



⚠ Keep away from forks decal

This safety decal is placed on the mast to warn of the danger of injury from forks when they are in the raised position. Do not ride on or stand under forks or attachments. The forks can fall and cause injury or death. Always make sure that the forks are in the fully lowered position when they are not handling a load.

3. INSTRUMENTS AND CONTROLS



18BR9OM62

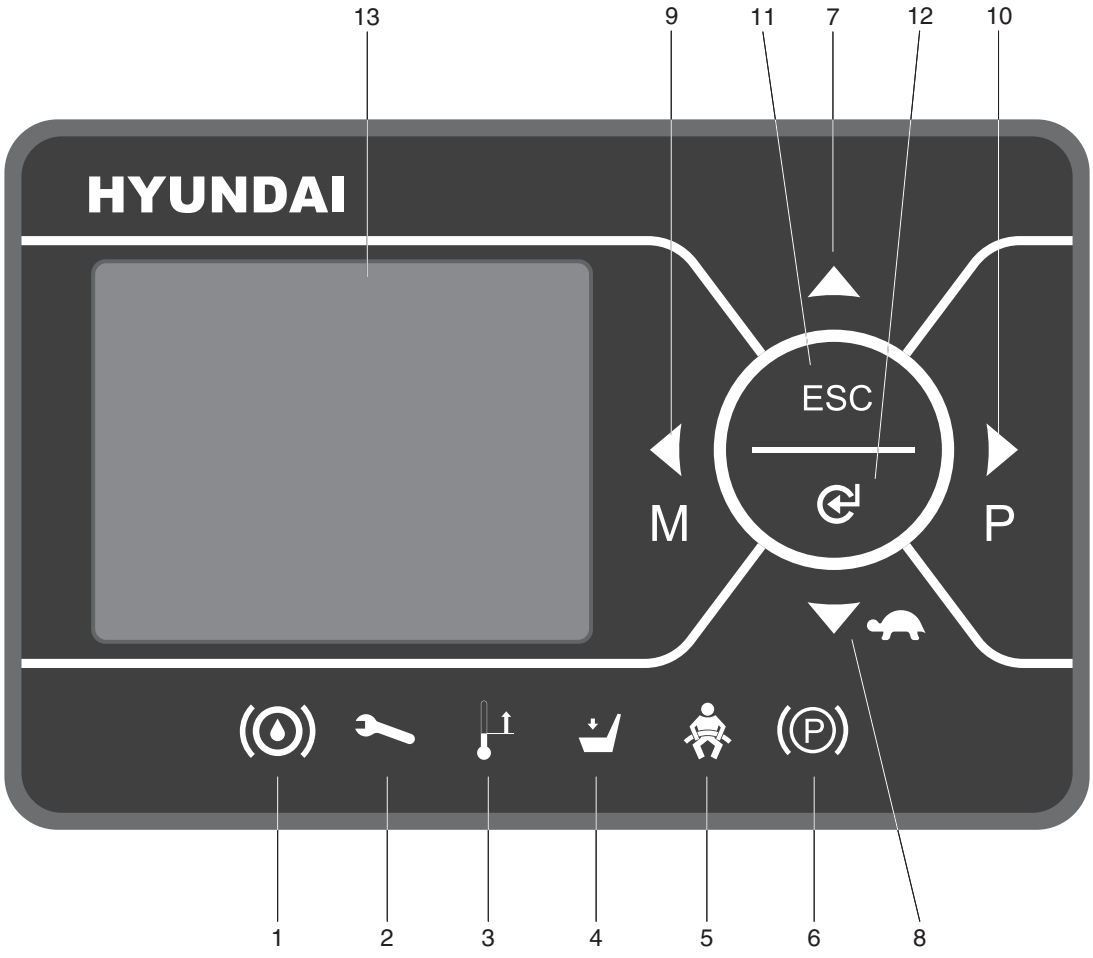
1	Monitor panel	8	Steering wheel
2	Start switch	9	Turn signal switch
3	Lift lever	10	Horn switch
4	Tilt lever	11	Head lamp switch
5	Reach lever	13	Beacon lamp switch (Option)
6	Attachment lever (Option)	14	Brake pedal
7	Accelerator		

※ **Familiarize yourself with the controls and follow safe operating procedures.**

4. INSTRUMENT PANEL

1) STRUCTURE

The instrument panel (display) has six built-in red LED, which provide the operator with an easy information about the status of some truck devices.

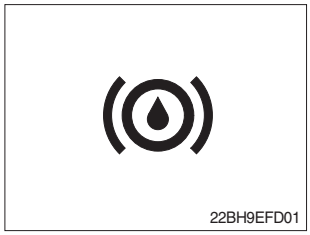


22BH9OM65

1 Oil level warning lamp
2 Wrench warning lamp
3 Thermometer warning lamp
4 Seat warning lamp
5 Seat belt warning lamp
6 Parking brake warning lamp
7 Up button
8 Down/turtle button
9 Left/menu button
10 Right/performance button
11 ESC button
12 Enter button
13 LCD function

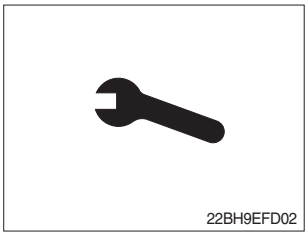
2) WARNING LAMP

(1) Brake oil level warning lamp



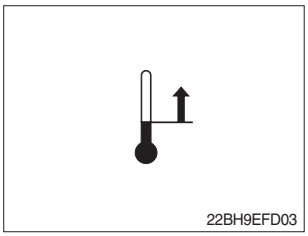
This LED lights when measured level of brake oil stored in reservoir tank is below the minimum acceptable mark.

(2) Wrench warning lamp



This LED lights when an electric device (controller, motor, cable, etc.) is in abnormal condition.

(3) Thermometer warning lamp

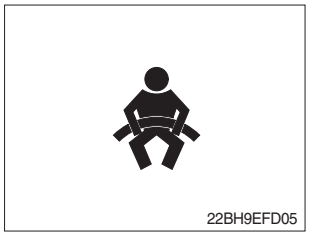


This LED lights when the controller or motor temperature is high.

(4) Seat warning lamp

This LED lights when the operator is not on the seat.

(5) Seat belt warning lamp

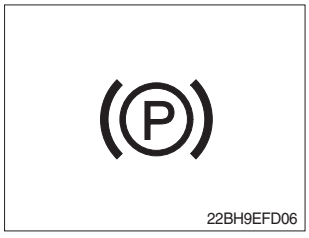


(1) This LED blinks in following 2 cases.

① When operator starts the truck, LED blinks for 5 seconds, which means initial diagnosis is on going, and buttons on display will work properely just after the diagnosis is completed.

② LED blinks when the seat belt is not correctly fastened.

(6) Parking brake warning lamp

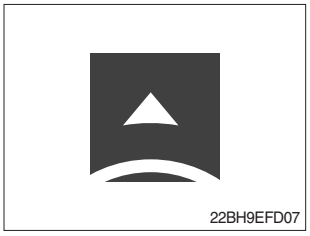


(1) This LED lights when the parking brake is activated.

3) BUTTON

These buttons are used to select or change the menu and input value of the LCD function and display menu.

(1) Up button

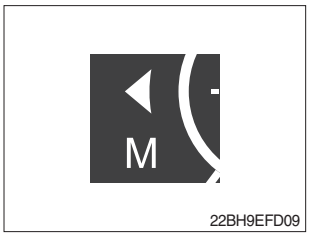


Press to select upward move.

(2) DOWN/TURTLE button

Press to select downward move.
TURTLE MODE ON/OFF

(3) LEFT/MENU button

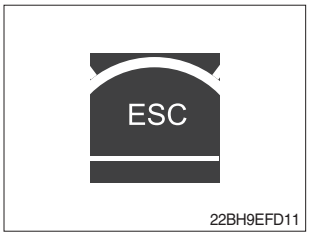


Press to select leftward move.
Go into the menu.

(4) RIGHT/PERFORMANCE button

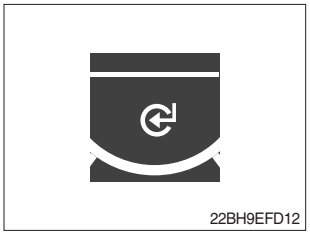
Press to select rightward move.
POWER MODE H/N/E

(5) Cancel (ESC) button



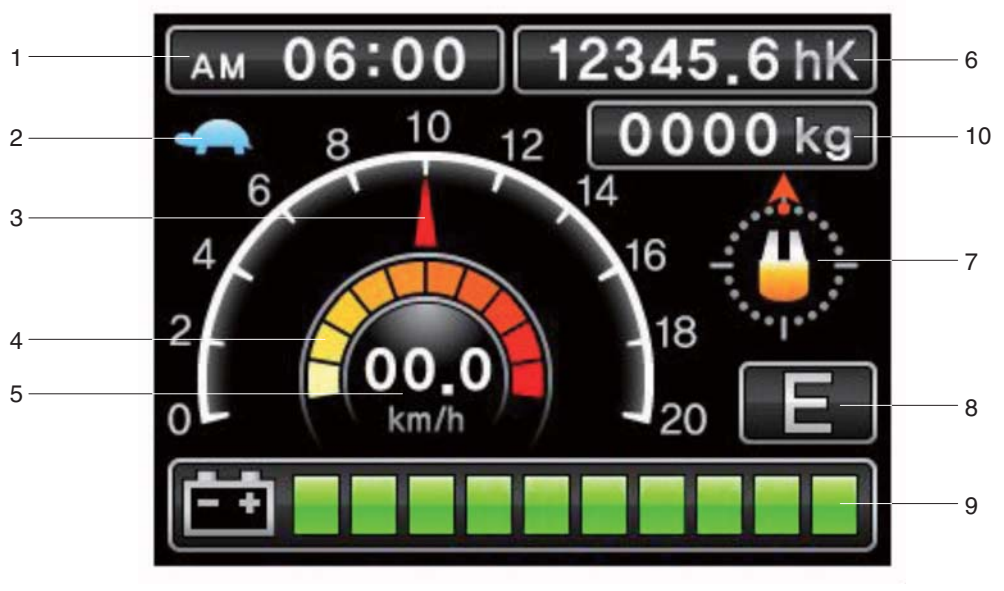
Press to select cancel.
Keep pressing this button shows PASSWORD entry field.

(6) ENTER button



Press to select Enter.

4) LCD FUNCTION



22BH9EFD13

1	Current time	6	Hour meter
2	Turtle mode	7	Wheel position and running direction
3	Truck speed pointer	8	Power mode
4	Speed level	9	BDI (Battery Discharge Indicator)
5	Truck speed	10	Load weight (option)

(1) Current time

The number shows the current time according to the setting, which can be changed by display setting at page 3-11.

(2) Turtle mode

The turtle symbol is normally off. When this symbol appears, the turtle mode is activated regardless of the power mode of the truck to reduce the maximum speed to the set-point. This mode can be activated by pressing the button.

(3) Truck speed pointer

The speed of the truck is indicated with a pointer.

(4) Speed level

It indicates the speed level by 2 km.

(5) Truck speed

The truck speed is shown in number. The unit can be km/h or mph according to the display setting (see 3-11 page).

(6) Hour meter

The number shows the hours worked. The letter present beside the hour meter number shows which hour meter is displayed.

– hK : the Key Hour shows the truck Key ON time;

– hT : the Traction Hour shows the Gate ON (driven) time of the traction motor.

– hP : the Pump Hour shows the Gate ON (driven) time of the pump motor.

(7) Wheel position and running direction

The arrow point is up when the truck is forward running and points down when the truck is reverse running. The arrow points the direction of the steering angle.

(8) Power mode

The letter H, N, or E, shows the power mode which is being used in the controller. The mode can be scrolled by pressing the button sequentially. When a mode is selected, the related information will be sent via CAN-BUS to traction and pump controllers that will manage this data.

H (High) – corresponds to the highest performance

N (Normal) – corresponds to normal performance

E (Economic) – corresponds to economic performance

(9) BDI (battery's state of charge)

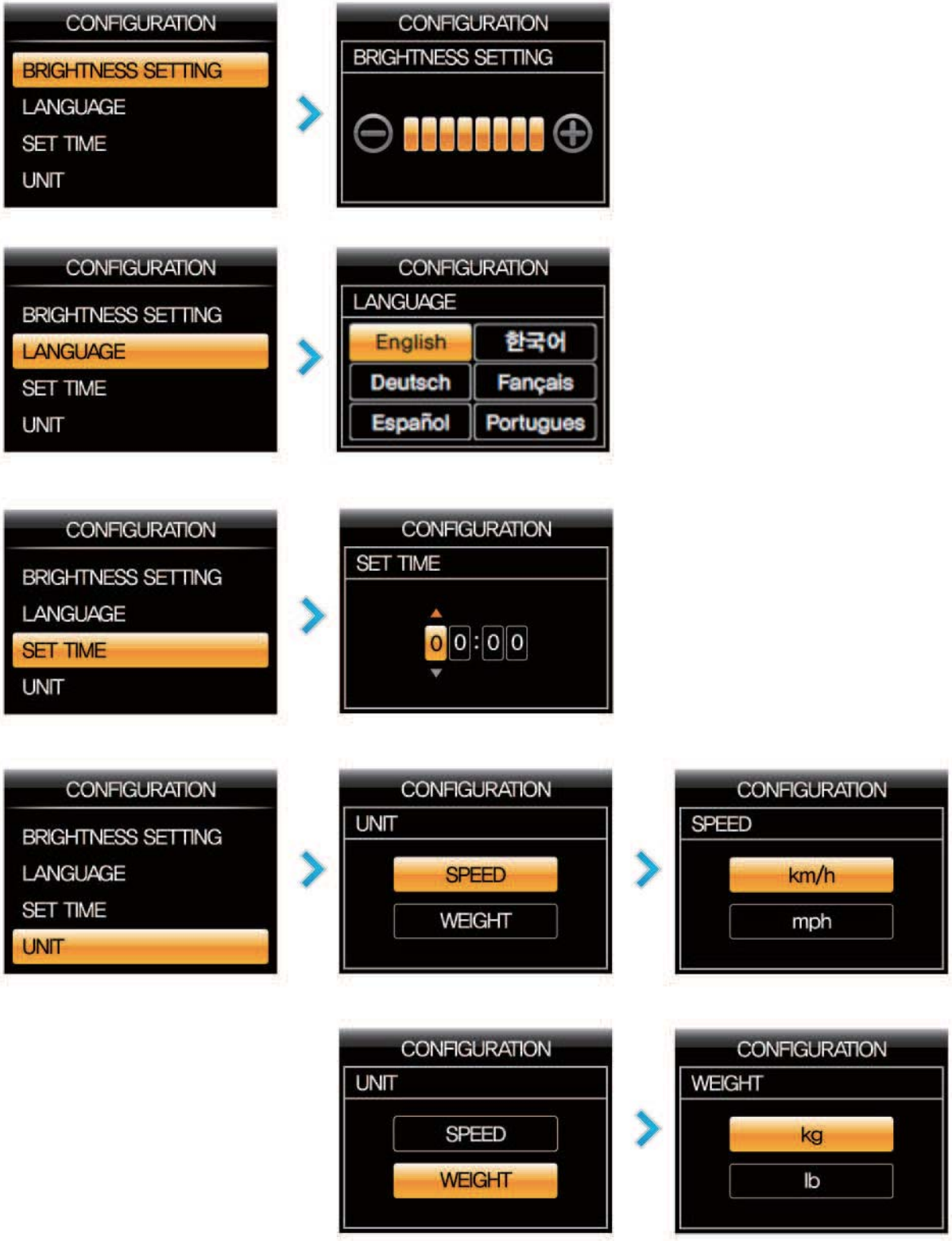
The battery's state of charge is shown by ten bars. Each bar represents the 10% of the battery charge. As the battery becomes discharged, the bars turn off progressively, one after another, in proportion to the value of the residual battery charge. When the residual battery charge is 20% or under, the bars displayed become red.

(10) Load weight (option)

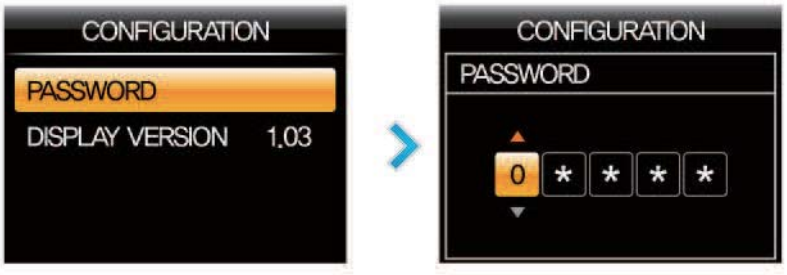
The indicator shows the weight the machine carrying at load.

- Indicator range : 0~6375 kg

5) HOW TO SET THE DISPLAY MENU



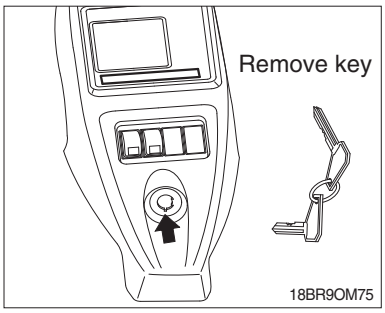
22BH9EFD14


CONFIGURATION
PASSWORD
DISPLAY VERSION 1.03
CONFIGURATION
PASSWORD
0 * * * *

22BH9EFD15

5. OPERATING SWITCHES AND LEVERS

1) START SWITCH

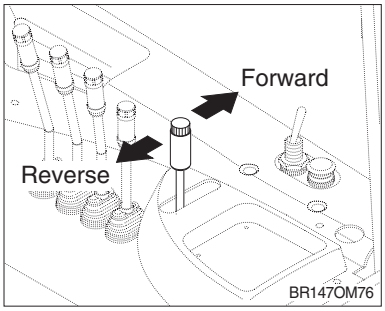


(1) Power is supplied to the control circuit through this switch, which is placed on OFF → ON clockwise.

① OFF : The Key can be removed or inserted and power is turned off.

② ON : Both control circuits for hydraulics and running can be activated.

2) DIRECTIONAL CONTROL LEVER



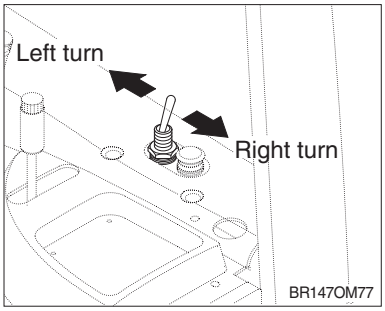
(1) This lever serves to make forward/backward directional changes. For the forward directions, place the lever on the FORWARD position.

(2) In the neutral, the running control circuits is turned off.

(3) For the backward direction, place the lever on the REVERSE position.

(4) The electrical brake will be applied by shifting the lever to the opposite position of running direction.

3) FLASHER SWITCH

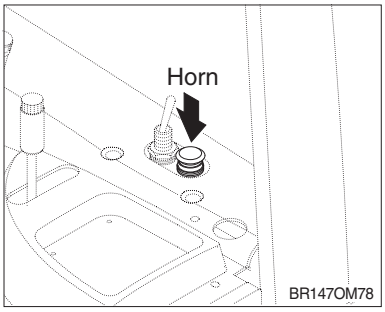


(1) When making a left or right turn, use this switch to flash the flash lamp to indicate which direction the vehicle is turning to.

(2) For a right turn, place the switch on the RIGHT position.

(3) For a left turn, place the switch on the LEFT position.

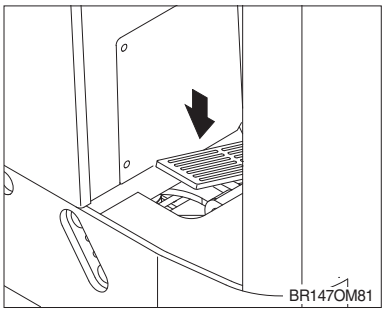
4) HORN SWITCH



(1) This horn switch is a type of push-button.

(2) The horn switch is reset automatically, if it is released.

5) BRAKE PEDAL

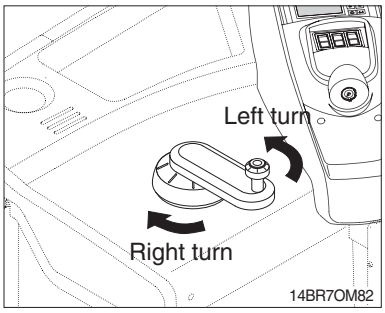


(1) When this pedal is depressed, the vehicle runs, while the vehicle stops when the pedal released.

⚠ **Special care should be required for the operation of the brake at loading.**

⚠ **This vehicle has no parking brake system.**
But once the pedal released, service brake is always applied to the machine.

6) STEERING WHEEL

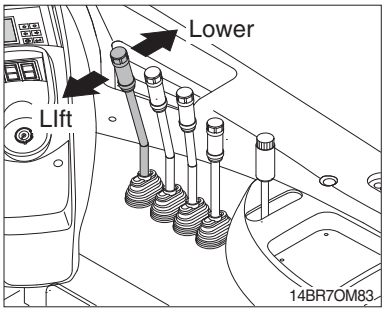


(1) The steering wheel of the vehicle is provided with the knob to allow steering with one hand.

(2) Perform the loading operation with the right hand and operate the steering wheel with the left hand.

⚠ **Particular care should be taken for the rapid operation of the steering wheel.**

7) LIFT LEVER

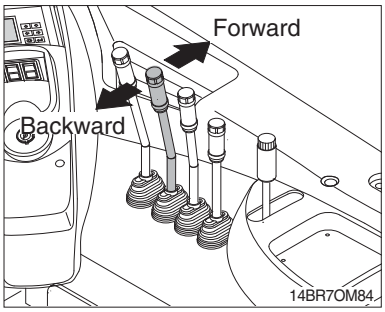


(1) This lever controls the lifting and lowering of the fork. For lifting, pull the lever backward, and for lowering, push it forward.

(2) Lifting and lowering speeds can be adjusted by varying the amount of a lever tilt.

(3) Maximum lowering speed is kept constant regardless of loads through the flow control valve.

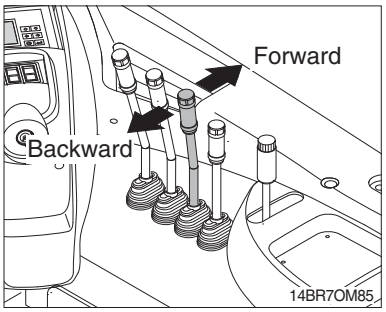
8) TILT LEVER



(1) This lever controls the forward and backward tilt of the forks. For the forward tilt, push the lever forward, and for the backward tilt, pull it backward.

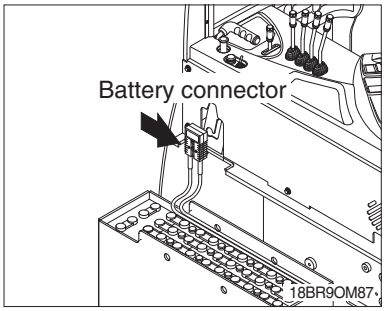
(2) Tilting speed can be adjusted by varying the amount of lever tilt.

9) REACH LEVER



(1) This lever controls the pushing-out and drawing-in of the mast. Pushing the lever forward push out the mast, and pulling the lever backward draw in the mast. Speed adjustment can be made by varying the amount of lever tilt. The reach mechanism is intended for use in loading and unloading of cargo so that when the vehicle is running, the mast should always be drawn in all the way.

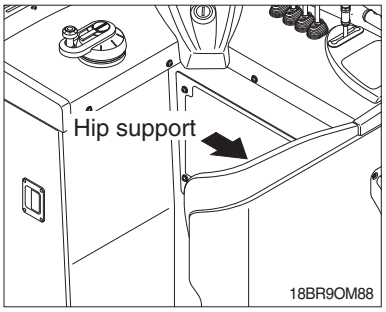
6. BATTERY CONNECTOR



Be sure to connect the connector for the battery and body.

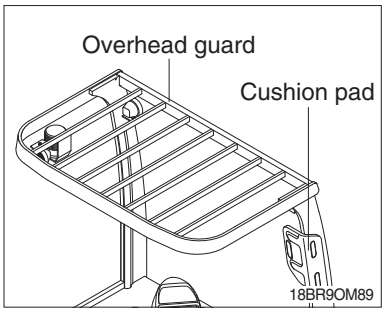
7. SUPPORT AND SAFETY PARTS

1) HIP SUPPORT



To reduce fatigue of an operator, the pads are provided at the places to where waist touch.

2) OVERHEAD GUARD



The overhead guard is of rugged construction that serves to ensure the safety of the operator.