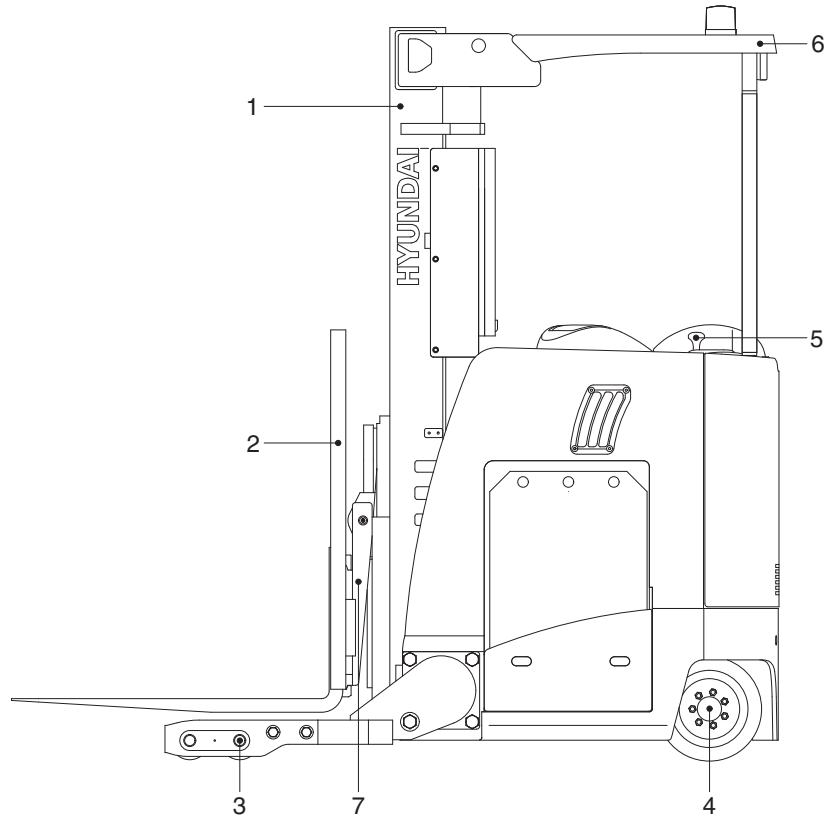


3. KNOW YOUR TRUCK

1. GENERAL LOCATIONS

1) OUTLINE



15BRP9OM54

- 1 Mast
- 2 Carriage and backrest
- 3 Load tire and brake
- 4 Drive unit and tire

- 5 Steering wheel
- 6 Overhead guard
- 7 Reach

2. DATA/SAFETY PLATES AND DECALS

1) TRUCK DATA AND CAPACITY PLATE

HYUNDAI GENUINE FROM THE FACTORY THIS TRUCK MEETS ISO 6055
75, Yulgok-ro, Jongno-gu, Seoul 03058, Korea

MODEL: _____ TYPE: _____

PRODUCT IDENTIFICATION NUMBER _____

ATTACHMENTS: _____

MAX LIFTING HEIGHT 'A' _____ mm

LOAD CAPACITY
Vertical _____ kg Forward Tilt _____ kg

Capacities are for centered loads with Listed Attachments and/or forks with mast in the vertical position on a level working surface.

Truck Weight (without battery) _____ kg

Battery DIM.limits (LxWxH) _____ mm

Max Battery _____ kg Min Battery _____ kg

MFG. YEAR _____ Volt _____ V Max Amp Hrs. _____

CAPACITY WITH VERTICAL UPRIGHT EQUIPPED AS SHOWN

CAPACITY _____ kg _____ kg _____ kg

LOAD CENTER 'B' _____ mm _____ mm _____ mm

Made in Korea 91FY-00189

HYUNDAI GENUINE FROM THE FACTORY THIS TRUCK MEETS ANSI B56.1
75, Yulgok-ro, Jongno-gu, Seoul 03058, Korea

MODEL: _____ TYPE: _____

PRODUCT IDENTIFICATION NUMBER _____

ATTACHMENTS: _____

MAX LIFTING HEIGHT 'A' _____ in

LOAD CAPACITY
Vertical _____ lb Forward Tilt _____ lb

Capacities are for centered loads with Listed Attachments and/or forks with mast in the vertical position on a level working surface.

Truck Weight (without battery) _____ lb

Battery DIM.limits (LxWxH) _____ in

Max Battery _____ lb Min Battery _____ lb

MFG. YEAR _____ Volt _____ V Max Amp Hrs. _____

CAPACITY WITH VERTICAL UPRIGHT EQUIPPED AS SHOWN

CAPACITY _____ kg _____ kg _____ kg

LOAD CENTER 'B' _____ mm _____ mm _____ mm

Made in Korea 91FY-00228

(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



15BRP7FW05

FOR SAFETY

Before putting this truck in operation, test brakes, steering controls, horn and other devices for safety and easy of operation.

Only trained and qualified persons should operate this truck.

Operate truck or auxiliary devices only from operator's seat.

Use drives overhead guard and load backrest extension unless conditions prevent their use.

Before key switch ON, place joystick in neutral position.

Spread forks far apart and place them on center completely under loaded.

Do not handle unstable of loosely stacked loads.

Use extreme care with long, high or wide loads and do not overload truck. See load chart.

Travel with load or lifting mechanism at minimum ground clearance and tilted back except on ramps travel with the load trailing when the load interferes with visibility.

Operate on ramps with load upgrade. Travel slowly with caution and do not turn on inclines.

Avoid sudden starts, stops, direction reversals, unsafe speed and reverse braking. Reduce speed for turns or uneven or slippery surface.

Never lift or lower loads while truck is in motion.

Do not allow anyone to stand or pass under load or lifting mechanism. Keep all body parts out of upright and within confines of truck.

Lift with mast vertical or tilted slightly back. Never forward. Lift loads smoothly and slowly. Avoid sudden jerks.

When leaving truck, turn off power, lower lifting mechanism, place shift in neutral. Key or connector plug removed, also check wheels if truck is on an incline or to be worked ON.



91HR-00310

⚠ BATTERY HANDLING DECAL

Open the battery cover when charging. Battery being charged not only heat, but also inflammable hydrogen gas is produced.

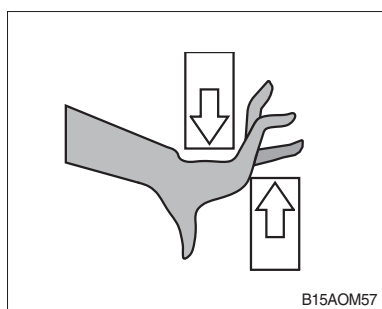
Keep fire away.

Hoisting the battery case, use 2 or 4 wires with hook and handle carefully, not to shock.

The electrolyte solution of battery is dilute sulfuric acid (H_2SO_4).

Be careful not to drop on clothes and mechanical parts.

※ Refer to page 7-21 for safe battery removal.



B15AOM57

⚠ 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.

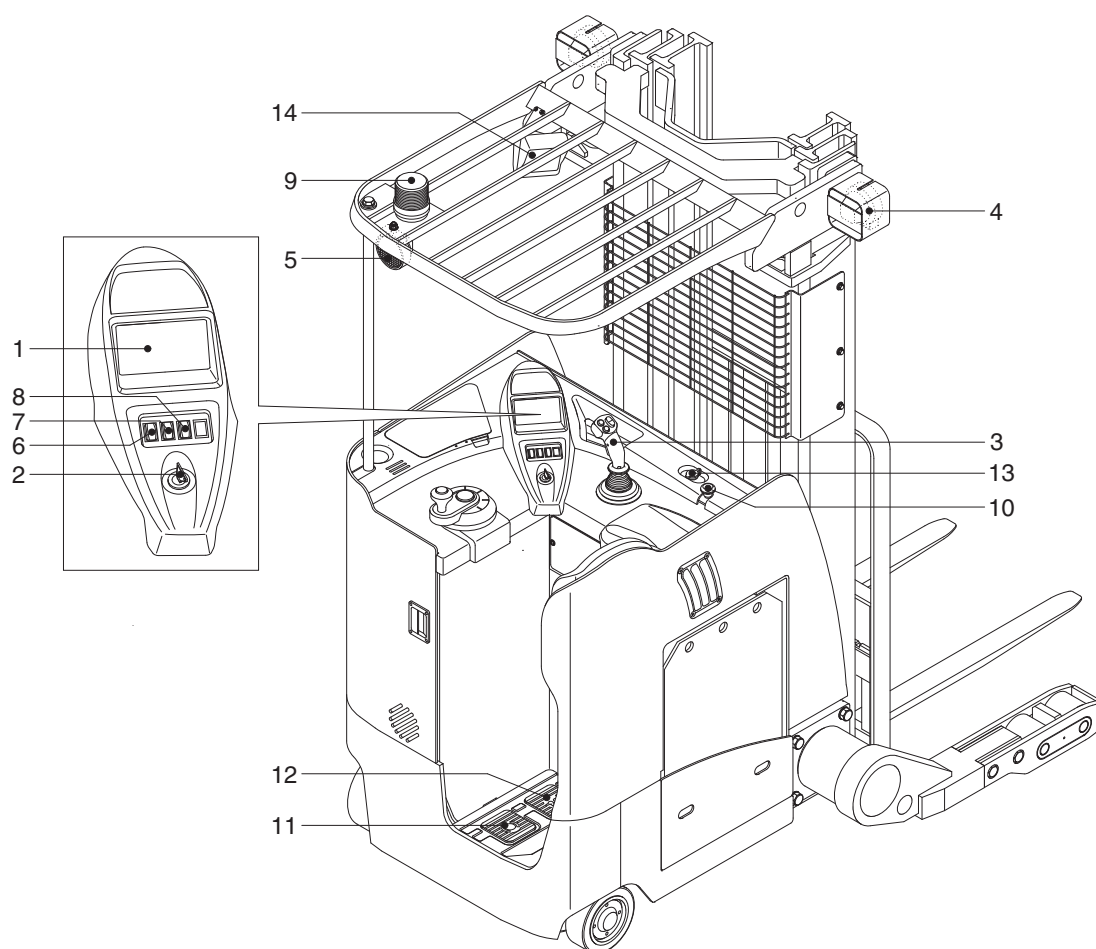


25L7A0OM06

⚠ 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



15BRP9OM61

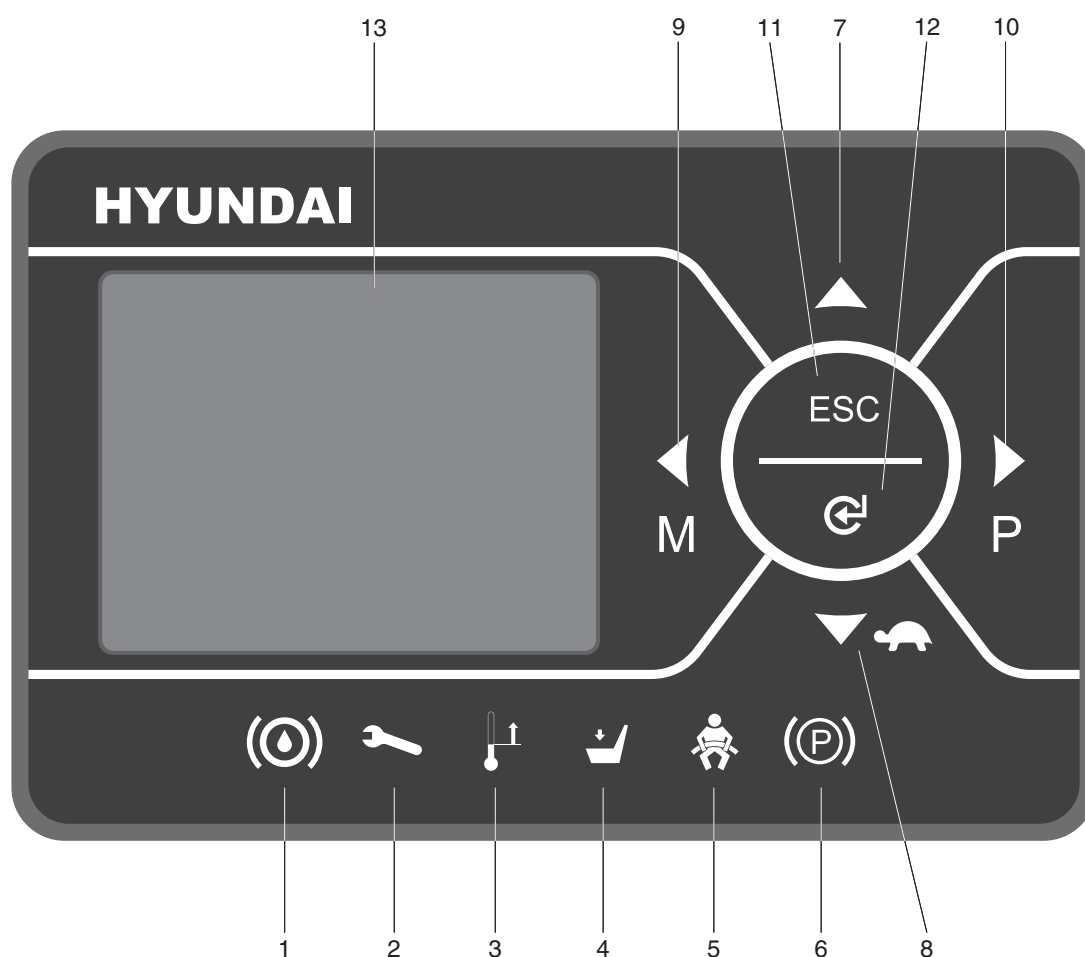
- | | |
|--------------------|---------------------|
| 1 Display | 8 Beacon switch |
| 2 Start switch | 9 Beacon lamp |
| 3 Joystick | 10 Emergency switch |
| 4 Head lamp | 11 Brake switch |
| 5 Rear work lamp | 12 Dead man switch |
| 6 Head lamp switch | 13 12V socket |
| 7 Work lamp switch | 14 Monitor (option) |

※ 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.



22BH90M65

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

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.

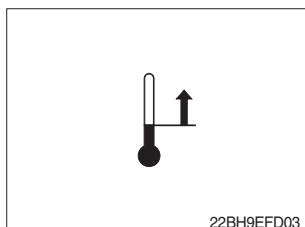
※ **BRP doesn't have any mechanical brake which requires brake oil, so that re-fill of brake oil is not required.**

(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



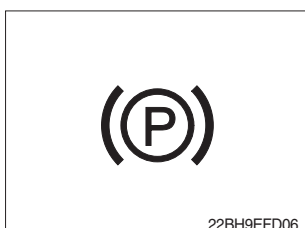
This LED lights when the operator is not on the dead man switch.

(5) Seat belt warning lamp



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

(6) Parking brake warning lamp



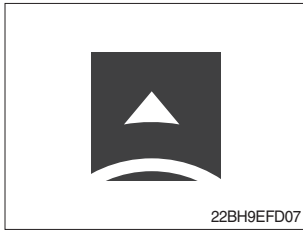
(1) This LED lights when the parking brake is activated.

※ This light only works for other type of trucks, not for BRP-9 truck.

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



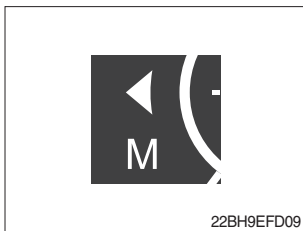
Press to select upward move.

(2) DOWN/TURTLE button



Press to select downward move.
TURTLE MODE ON/OFF

(3) LEFT/MENU button



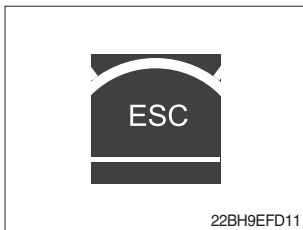
Press to select leftward move.
Go into the menu.

(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)

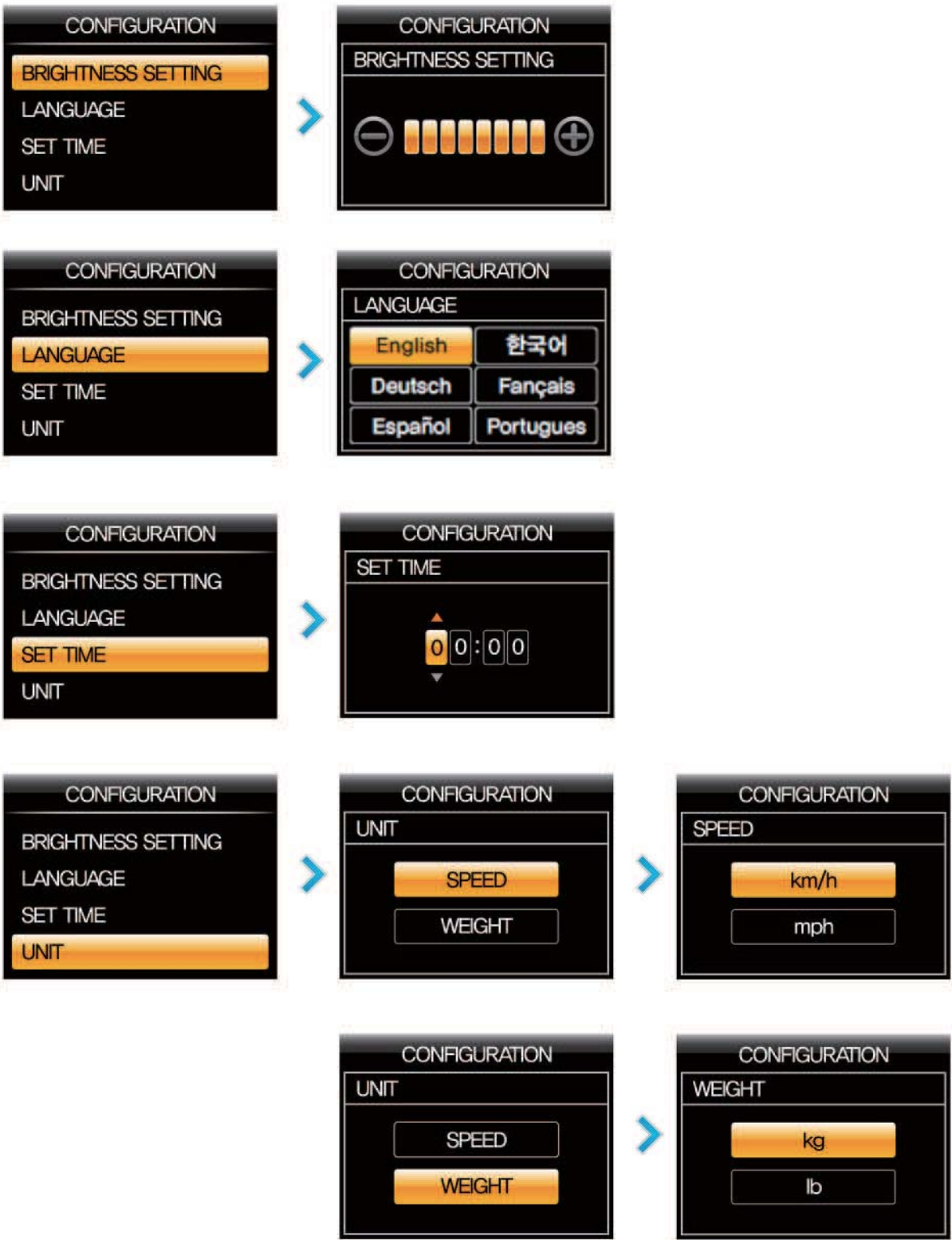
The battery's state of charge is shown by ten bars. Each bar represents the 10% of the battery charge. As the battery becomes discharged, the bars turn off progressively, one after another, in proportion to the value of the residual battery charge. When the residual battery charge is 20% or under, the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

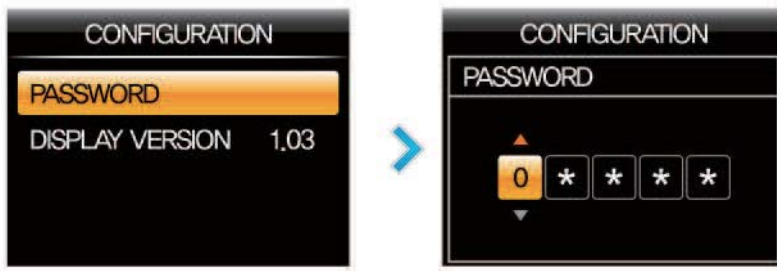
(10) Load weight (option)

The indicator shows the weight the machine carrying at load.

- Indicator range : 0~5000 kg

5) HOW TO SET THE DISPLAY MENU

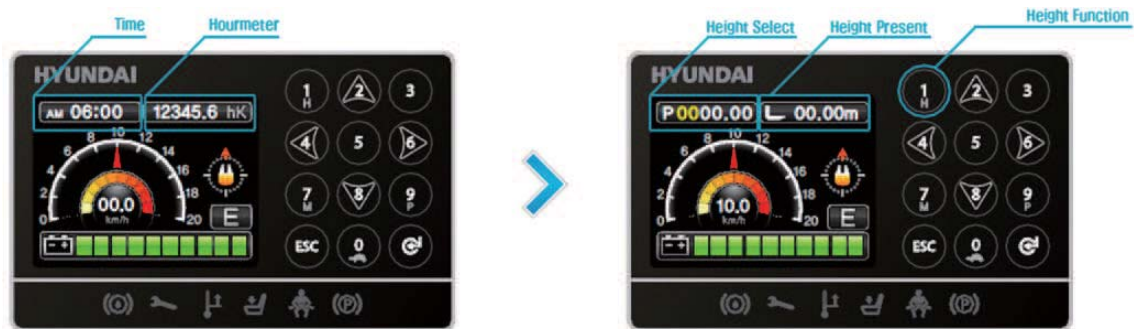




22BH9EFD15

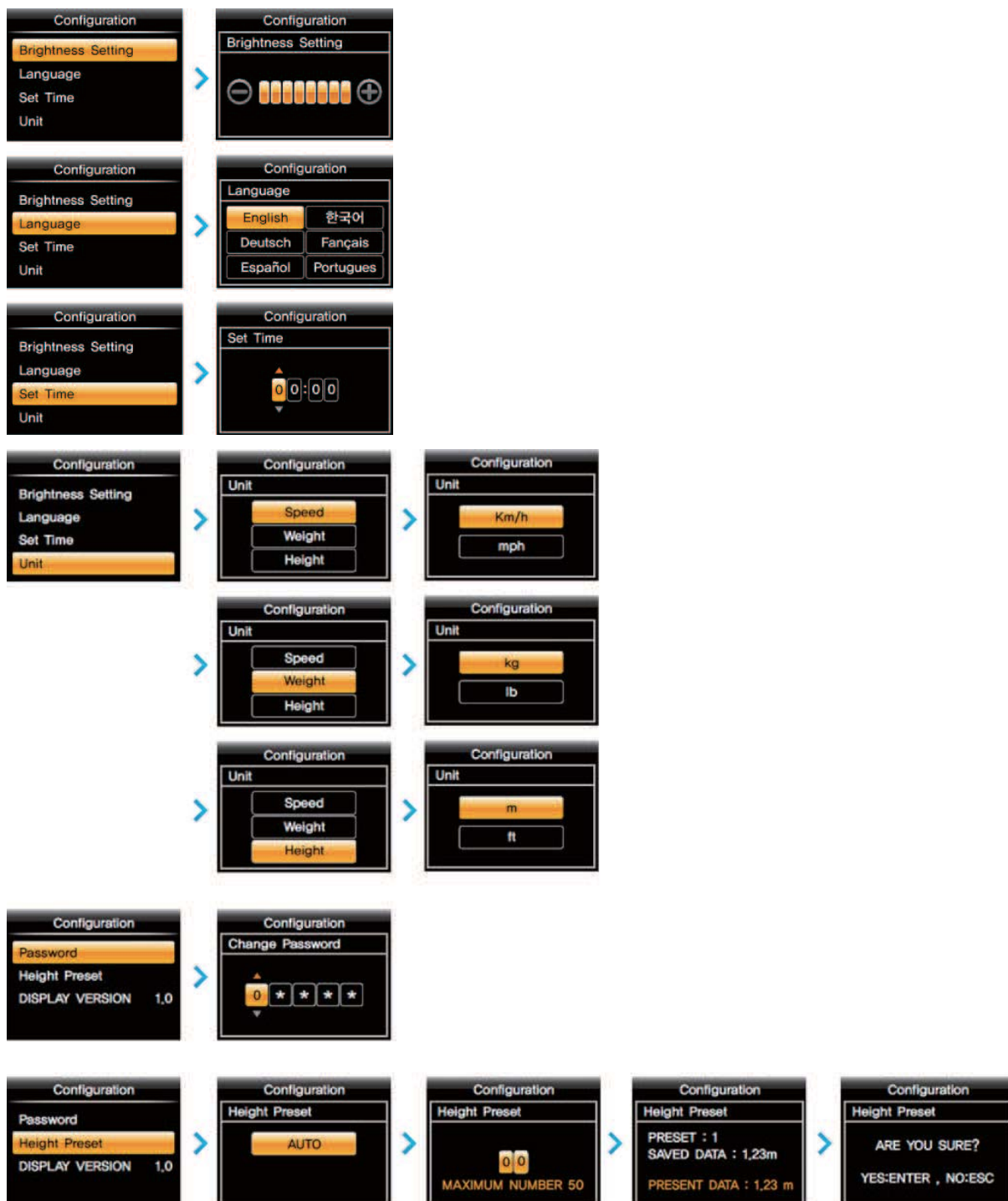
6) LCD FUNCTION (for height indicator, OPTION)

(1) Main















14BRJ9EFD01

(2) User menu



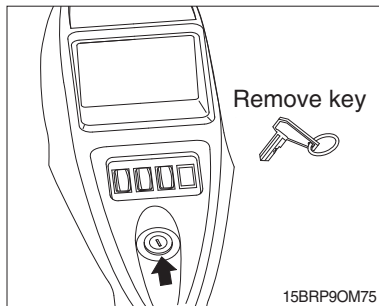
14BRJ9EFD02/03

(3) Button

No.	Button	Function
1		1. Number 1 input button 2. Go into the HEIGHT PRESELECTOR menu
2		1. Number 2 input button 2. Upward move button in menu
3		1. Number 3 input button
4		1. Number 4 input button 2. Leftward move button in menu
5		1. Number 5 input button
6		1. Number 6 input button 2. Rightward move button in menu
7		1. Number 7 input button 2. Go into the menu
8		1. Number 8 input button 2. Downward move button in menu
9		1. Number 9 input button 2. Go into the POWER mode
10		1. Go into the ENGINEER/SERVICE password input menu 2. Return to previous/parent menu and cancel button
11		1. Number 0 input button 2. Go into the TURTLE mode
12		1. MENU/PARAMETER select button in menu

5. OPERATING SWITCHES AND LEVERS

1) KEY 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.

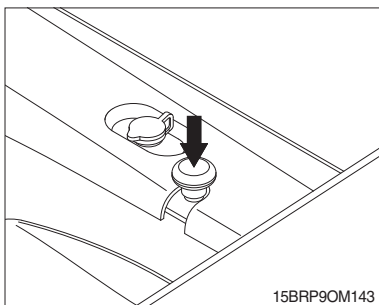
※ Automatic centering

Automatic centering (AUTC) turns the steered wheel straight ahead to keep the steer aligned meanwhile traveling.

When autocentering is ON, the AUTC at key-on is always performed.

The AUTC at key-on is used to initialize the encoder counting. When it is not performed, the truck travels slow speed only, until the driver moves the steering wheel and an edge is detected on the straight ahead sensor getting possible the initialization of the encoder counting.

2) EMERGENCY SWITCH

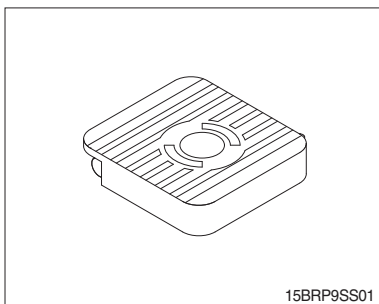


(1) When pressign the emergency switch downward, the electric circuit is broken, all electrical function switch is off and the vehicle brakes are automatically applied.

(2) If problem is detected in the EPS system, a notice appears on the operator display.

(3) During traveling the vehicle, if a problem occurs EPS system that could endanger the safety of the operator, the vehicle automatically comes to a controlled stop as well as EPS operation.

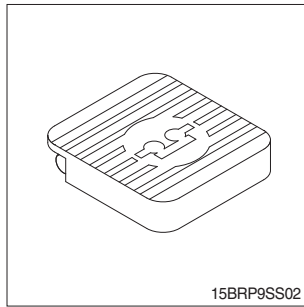
3) BRAKE SWITCH



(1) The brake switch always keeps the operator's foot in place during driving the machine.

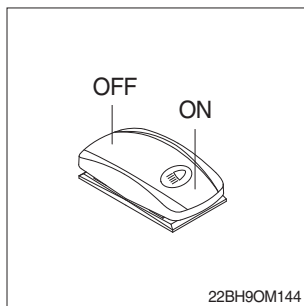
(2) If the brake switch is not pressed, the service brake is operated to stop the machine.

4) DEAD MAN SWITCH



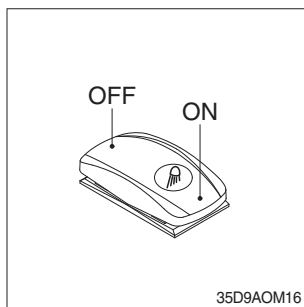
- (1) The dead man switch always keeps the operator's foot in place during driving the machine or hydraulic operation.
- (2) If the dead man switch is not pressed, all the electrical functions are taken out of operation with exception of the steering, the display and the horn.

5) HEAD LAMP SWITCH



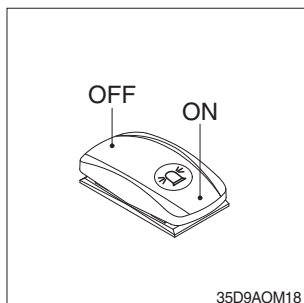
- (1) This switch is used to operate head lamps.
Press this switch to turn on head lamps.

6) WORK LAMP SWITCH (OPTION)



- (1) This switch is used to operate work lamps.
Press this switch to turn on work lamps.

7) BEACON SWITCH (OPTION)



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

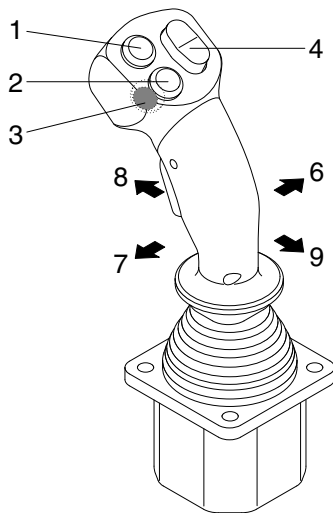
8) JOYSTICK

The joystick allows on-handed operation for the following functions :

- Forward or backward driving.
- Lifting or lowering the fork (lift)
- Tilting to forward or backward the fork (tilt)
- Moving the side shift to the left or right (side shift)
- Reach in or reach out the fork (reach)
- Horn operation

(1) Description

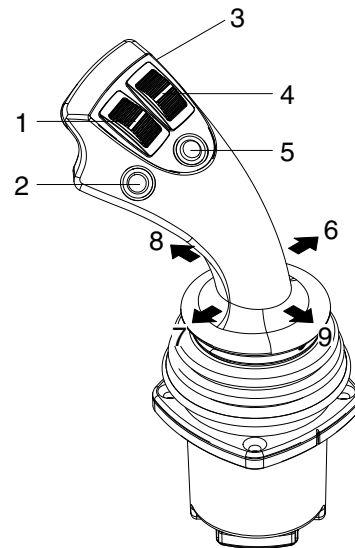
Machine serial No.
15BRP-9 : -#0249
18BRP-9 : -#0228
20BRP-9 : -#0212
23BRP-9 : -#0155



- 1 Tilt button
- 2 Side shift button
- 3 Horn button

- 4 Reach button
- 5 Null
- 6 Forward driving

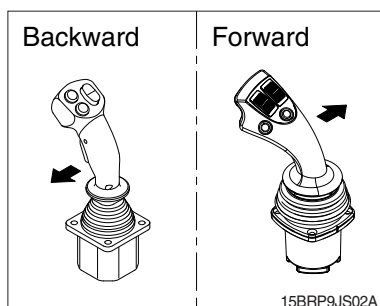
Machine serial No.
15BRP-9 : #0250-
18BRP-9 : #0229-
20BRP-9 : #0213-
23BRP-9 : #0156-



15BRP9JS01A

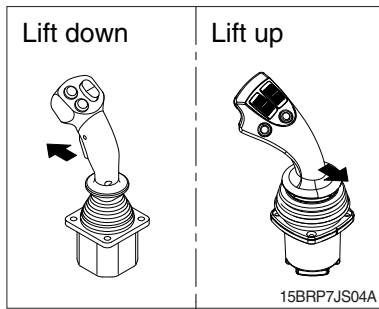
- 7 Backward driving
- 8 Lift down
- 9 Lift up

(2) Operation



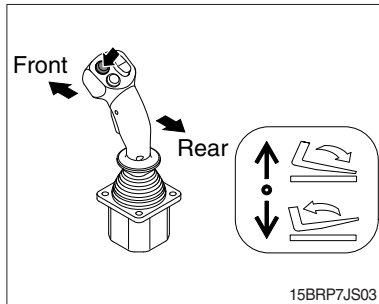
① Driving

Move the joystick in the direction of the arrow to drive forward or backward.



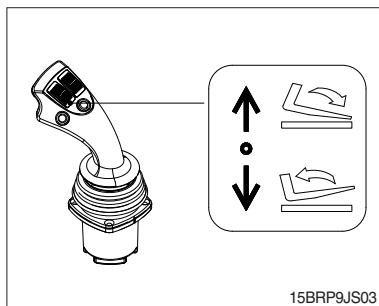
② Lifting and lowering

Move the joystick in the direction of the arrow to lift or lower the fork.

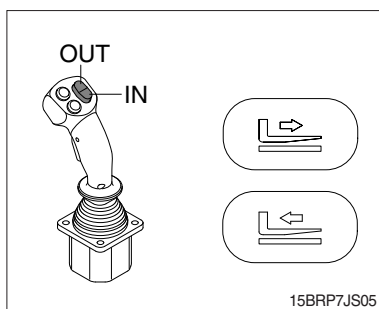


③ Tilting

- Move the joystick in the direction of the arrow while pressing the tilt button.

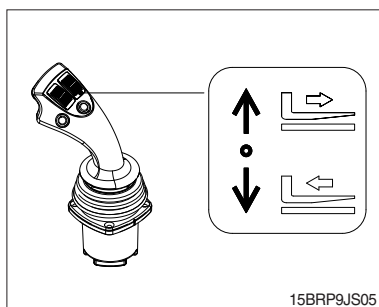


- For the forward tilt, push up the right roller switch.
- For the backward tilt, push down the right roller switch.

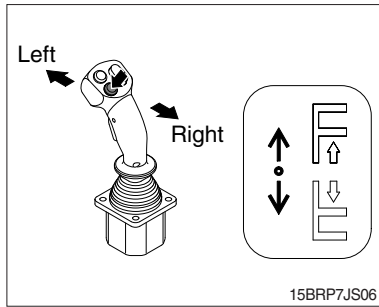


④ Reach in and reach out

- Press the button to upward for reach out operation.
- Press the button to downward for reach in operation.

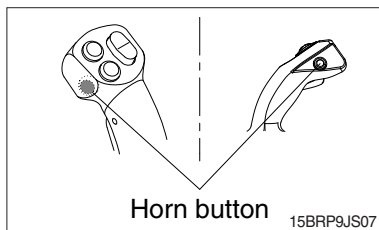
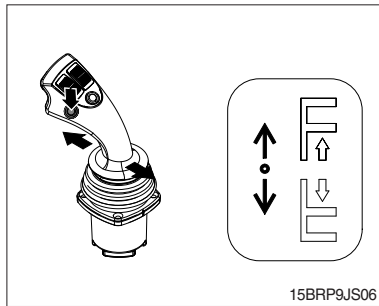


- To reach out, push up the right roller switch.
- To reach in the fork, push down the right roller switch.



⑤ Side shift movement

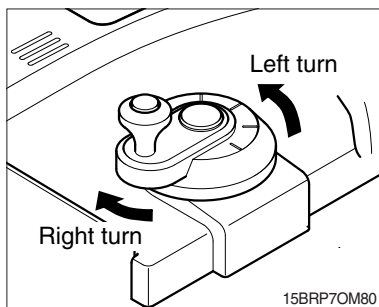
Move the joystick in the direction of the arrow while pressing the side shift button.



⑥ Horn sounding

The horn sounds when the following switch is pressed.

9) STEERING WHEEL

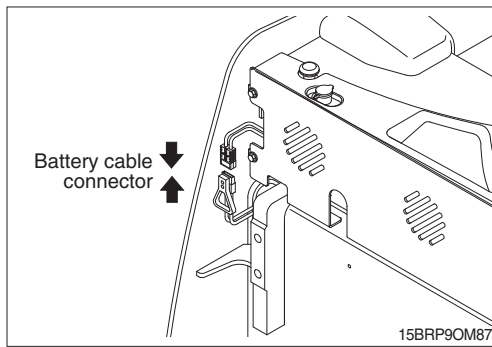


(1) The steering wheel of the vehicle is provided with the knob to allow steering with one hand.

(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.

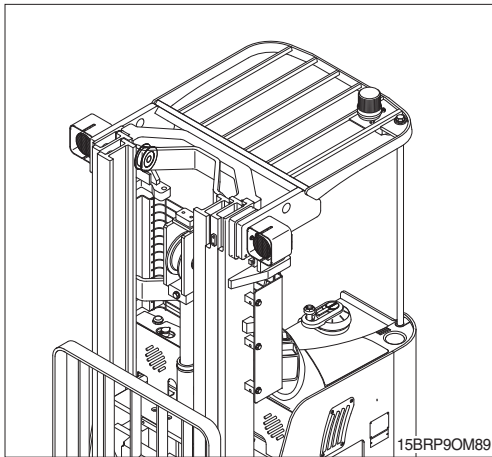
6. BATTERY CONNECTOR



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

7. SUPPORT AND SAFETY PARTS

OVERHEAD GUARD



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