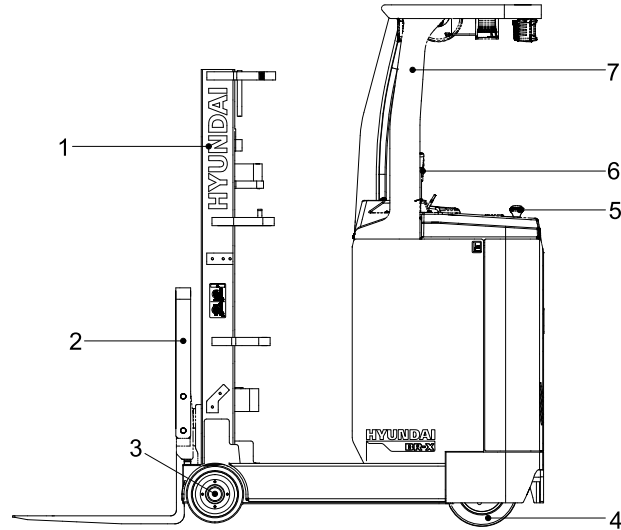


CHAPTER 3 KNOW YOUR TRUCK

1. GENERAL LOCATIONS



15BRX0M0301

Type : Electric-powered, 48V

- | | | |
|-------------------------|-------------------|------------------|
| 1 Mast | 4 Driving unit | 7 Overhead guard |
| 2 Carriage and backrest | 5 Steering wheel | |
| 3 Road tire | 6 Operating lever | |

2. TRUCK NAMEPLATE AND LABEL

1) TRUCK NAMEPLATE

HYUNDAI GENUINE
75, Yulgok-ro, Jongno-gu, Seoul 03068, Korea

CE

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

LOAD CAPACITY

FROM THE FACTORY THIS TRUCK MEETS ISO 6055

MODEL: _____ TYPE: _____

PRODUCT IDENTIFICATION NUMBER _____

ATTACHMENTS: _____

MAX LIFTING HEIGHT 'A' _____ mm

Vertical _____ kg Forward Tilt _____ kg

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

(1) Truck model name

(2) Type

Truck type such as diesel, LPG and electric-powered is indicated.

(3) Attachments (Applicable if mounted)

The user must be aware whether the information on the additional devices and equipment weight and capacity when mounting the additional device are indicated on the truck.

(4) Truck weight

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

(5) Serial number

An identification number assigned to this particular lift truck and should be used when requesting information or ordering service parts for this truck from your authorized HYUNDAI dealer. The serial number is imprinted on the upper side of the leg on the right side of the frame.

(6) Capacity

The maximum loading capacity of the truck is indicated.

In addition, the load center and maximum lifting height, etc. are described. The name plate must be identified and referred during truck use.

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

2) OPERATOR SAFETY WARNING LABEL



3) BATTERY HANDLING CAUTION



4) HAND CAUTION LABEL



This label is attached to the mast, and provides warning on the risk of safety accidents when operating the rail, chain, sheave, fork carriage and mast.

Climbing up the mast or having part of the body in contact with the mast operating unit can result in serious injury or casualties.

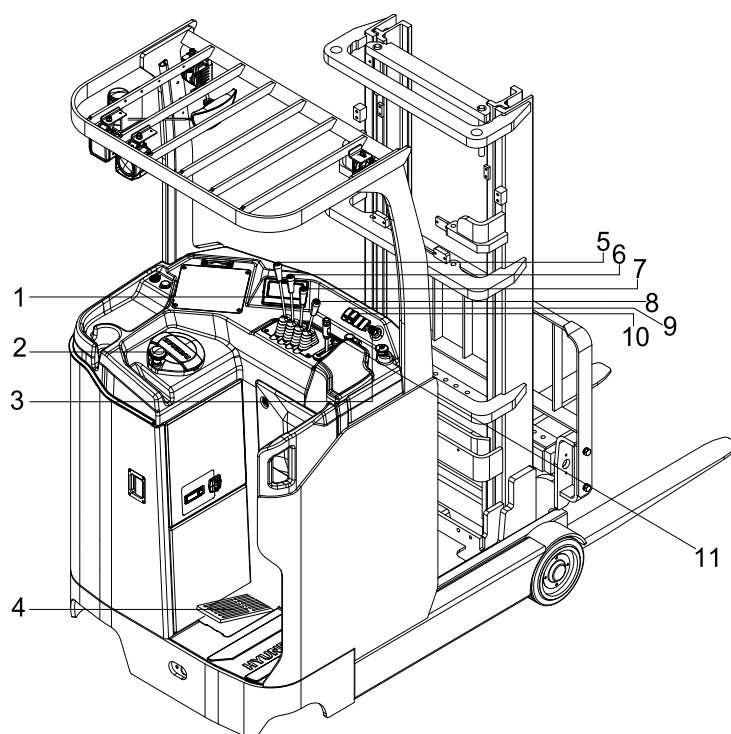
5) MAST WARNING LABEL



This safety label is indicated on the mast, and provides warning on the risk of safety accidents when the fork is lifted.

Do not stand below or get on the lifted fork or working device. The fork may be lowered, and it can cause injury or even death. The fork must be lowered below the knees at all times when the lift truck is not loaded.

3. CLUSTER AND CONTROL DEVICES



15BRXOM0302

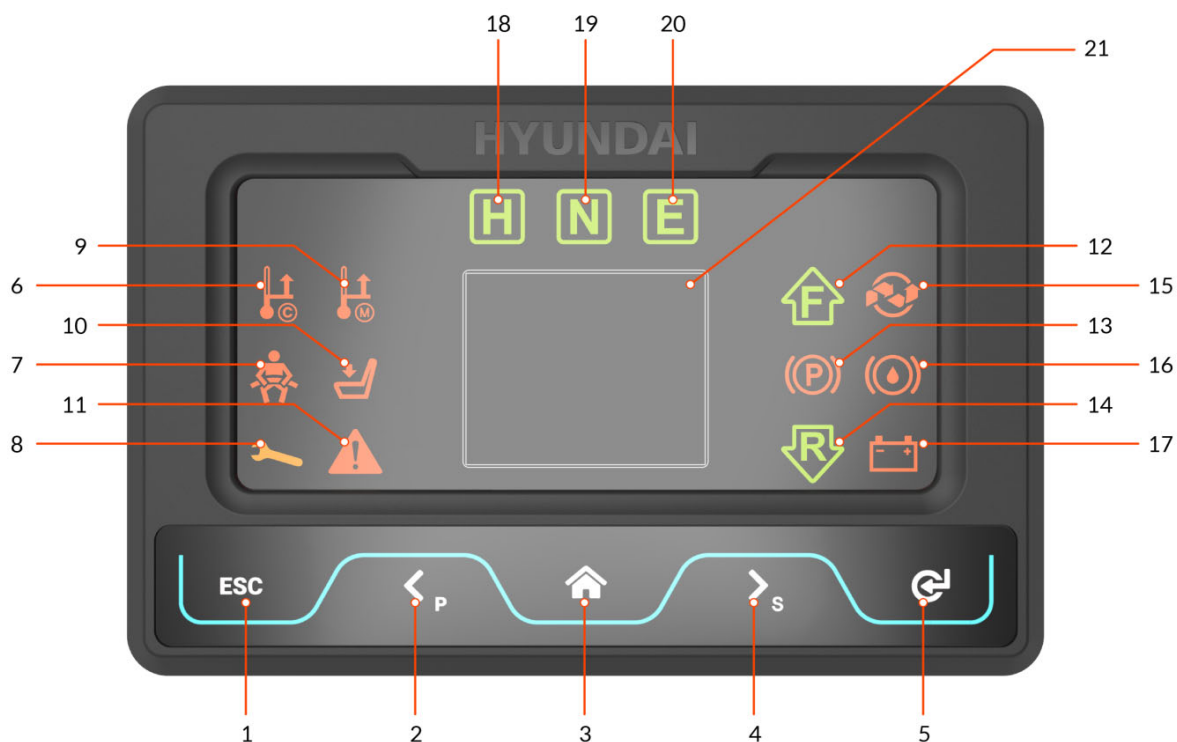
- | | | |
|------------------|-----------------------------|---------------------------|
| 1 Cluster | 5 Lift lever | 9 Headlight switch |
| 2 Steering wheel | 6 Tilt lever | 10 Warning lamp switch |
| 3 Start switch | 7 Reach lever | 11 Forward/Backward lever |
| 4 Brake pedal | 8 Attachment lever (option) | |

※ Control devices and safe operating methods must be understood.

4. CLUSTER

1) STRUCTURE

The cluster is installed with 15 red, green and yellow LEDs. The driver can identify the truck condition conveniently through this LED.

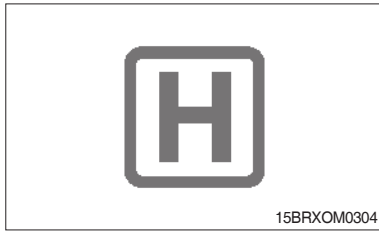


15BRXOM0303

- | | | |
|--|---------------------------------------|-----------------------------|
| 1 ESC button | 8 Wrench warning lamp | 15 Consumable exchange lamp |
| 2 Left/power mode change button | 9 Motor high-temperature warning lamp | 16 Brake oil lamp |
| 3 Home button | 10 Seat lamp | 17 Battery level lamp |
| 4 Right/speed mode button | 11 Warning lamp | 18 Hi mode lamp |
| 5 Enter button | 12 Forward driving lamp | 19 Normal mode lamp |
| 6 Controller high-temperature warning lamp | 13 Parking brake lamp | 20 ECO mode lamp |
| 7 Seat belt warning lamp | 14 Reverse driving lamp | 21 LCD function |

2) WARNING LAMP

(1) Hi mode lamp



Lights up when Power Mode is HIGH.

(2) Normal mode lamp



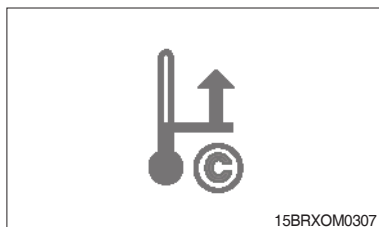
Lights up when Power Mode is NORMAL.

(3) ECO mode lamp



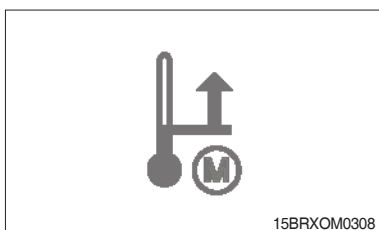
Lights up when Power Mode is in ECO.

(4) Controller high-temperature lamp



Lights up when the controller is in high temperature.

(5) Motor high-temperature lamp



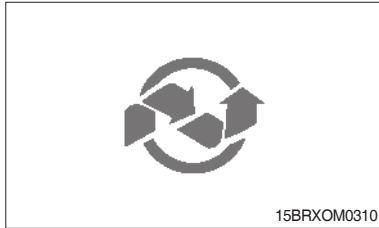
Lights up when the motor is in high temperature.

(6) 12 Forward driving lamp



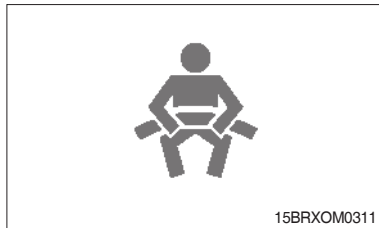
Lights up when the truck is driving forward.

(7) Consumable exchange lamp



Lights up when the consumable must be replaced.

(8) Safety belt warning lamp



Lights up when the safety belt is not tightened.

(9) Seat lamp



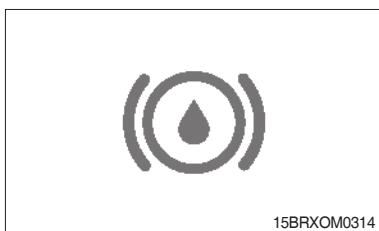
Lights up when the driver is not seated on the driver's seat.

(10) Parking brake lamp



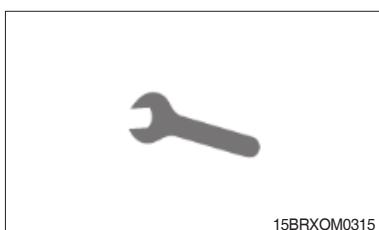
Lights up when parking brake is applied.

(11) Brake oil lamp



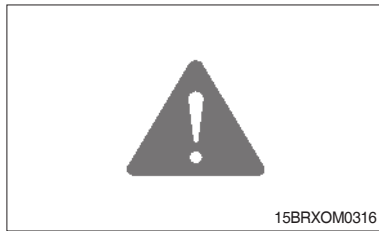
Lights up when brake oil level is low.

(12) Wrench lamp



Lights up when the truck is in abnormal state.

(13) Warning lamp



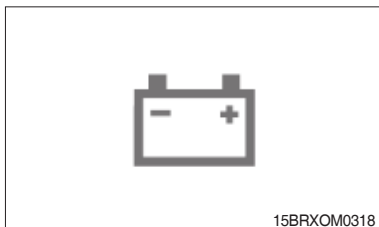
Lights up when the truck is in abnormal state.

(14) Reverse driving lamp



Lights up when the truck is driving in reverse.

(15) Battery level lamp

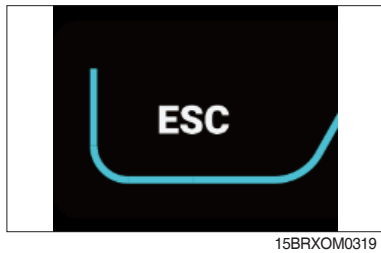


Lights up when the remaining battery amount is low.

3) BUTTON

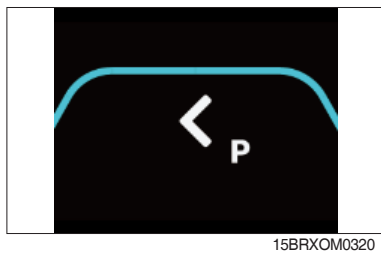
The buttons are used to change or select the cluster menu.

(1) ESC button



Pressed to cancel or to exit the menu.

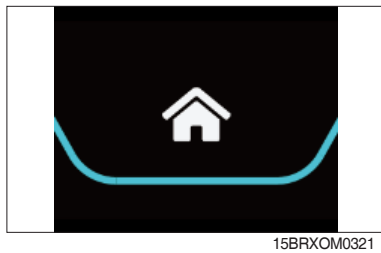
(2) Left/power mode change button



Pressed to move to the left or up.

Also used to change to the Power Mode. (H/N/E)

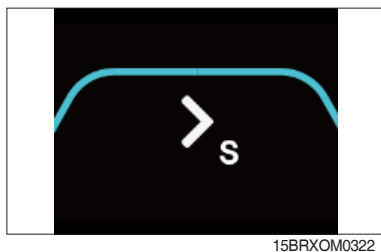
(3) Home button



Pressed to move to the menu from the Home screen.

Also used to move from the menu screen to Home.

(4) Right/speed mode change button



Press when moving to menus on the right or to the lower menu.

Also used to change to the speed mode.

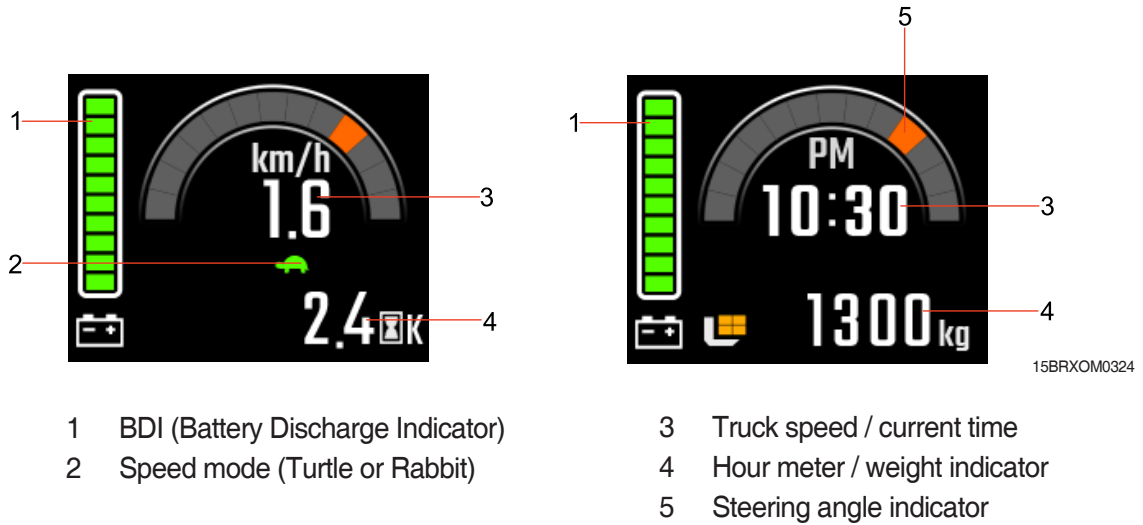
(When changing to the Turtle / Rabbit Mode)

(5) Enter button



Pressed when entering the menu.

4) LCD FUNCTION




(1) BDI (Battery Discharge Indicator)

The battery charging state is indicated in 10 bars, and one bar shows 10% of battery charge. When the battery is discharged, the bar is turned OFF in order according to the charging ratio of the battery to indicate the remaining battery amount.

BDI %	Battery Bar	Color
91 - 100	10	Green
81 - 90	9	
71 - 80	8	
61 - 70	7	
51 - 60	6	
41 - 50	5	
31 - 40	4	Orange
21 - 30	3	
11 - 20	2	Red
1 - 10	1	

(2) Speed mode

Turtle mode is normally in OFF state. When this symbol is shown, the Turtle mode is operated regardless of the Power mode of the lift truck to reduce the maximum speed to the set value. By pressing the  button, this mode is operated.

(3) Truck speed / current time

1. During operation - Truck speed is indicated in numbers. Unit can be changed to km/h or mph according to the cluster setting.
2. Stopped - When the truck is stopped, the current time is indicated according to the cluster setting.

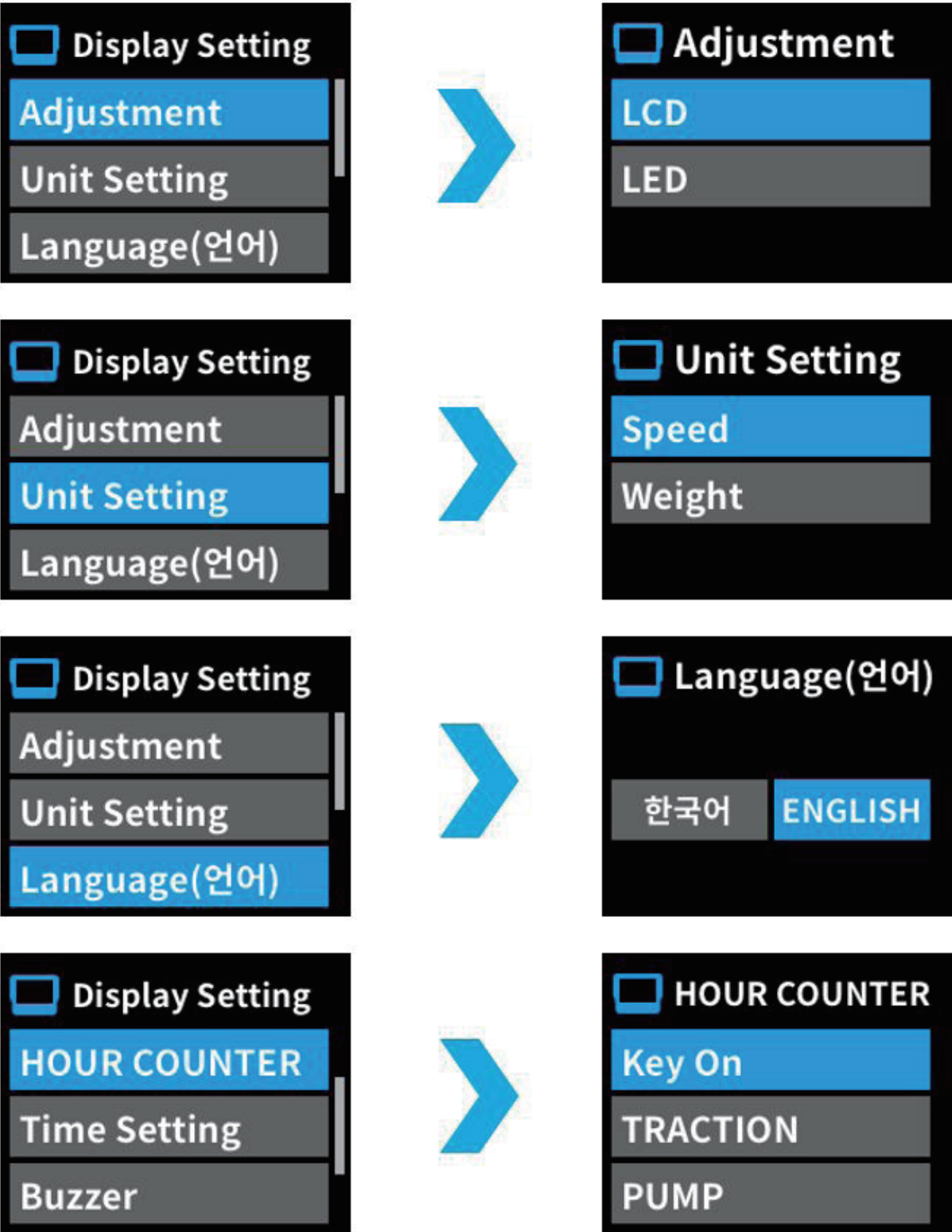
(4) Hour meter / weight indicator

1. Unloaded - Working time is indicated in numbers. For the meaning of the alphabet next to the number,
 - K : Time from turning the key on the truck
 - T : Driving time detected through the driving motor
 - P : Pump use time detected through the pump motor
2. Loaded - The loaded weight is indicated

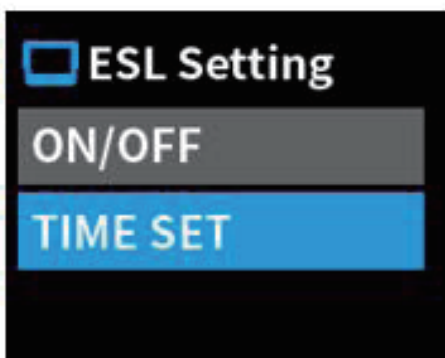
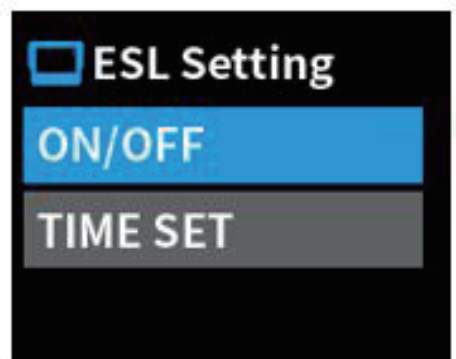
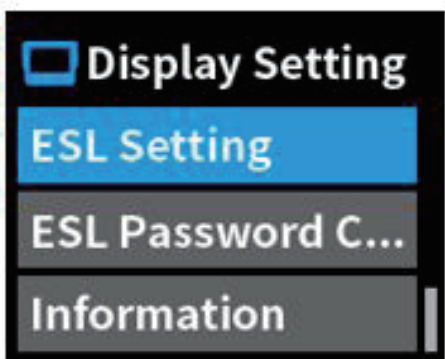
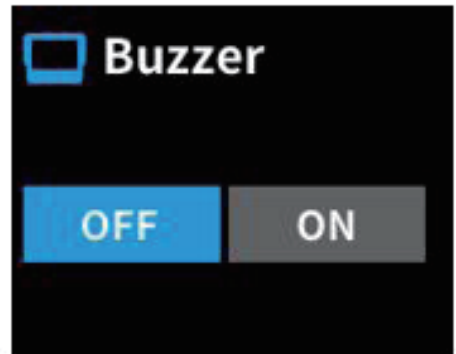
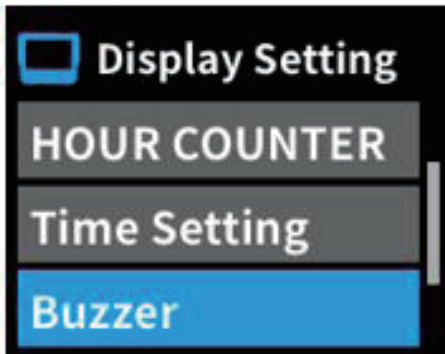
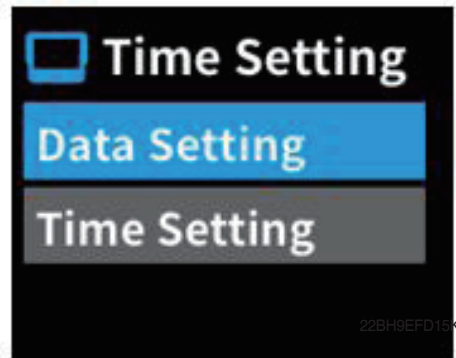
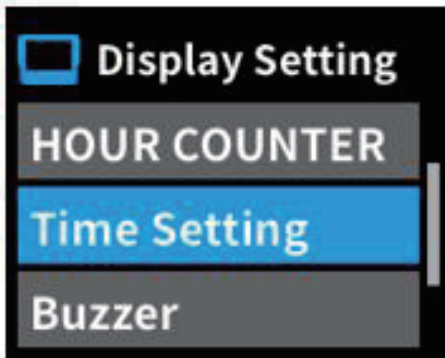
(5) Steering angle indicator

Steering angle of the truck is indicated.

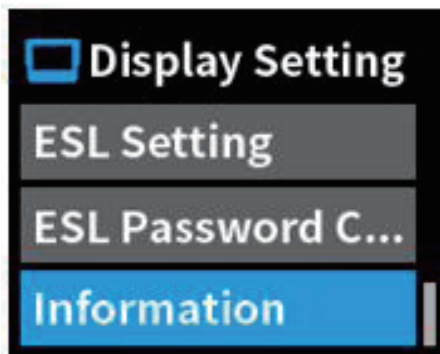
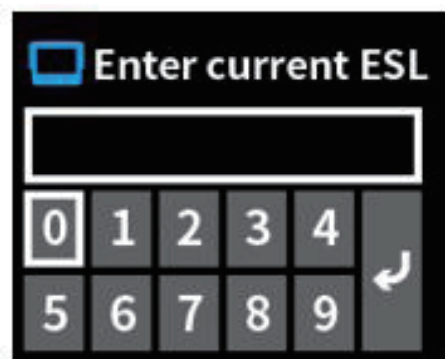
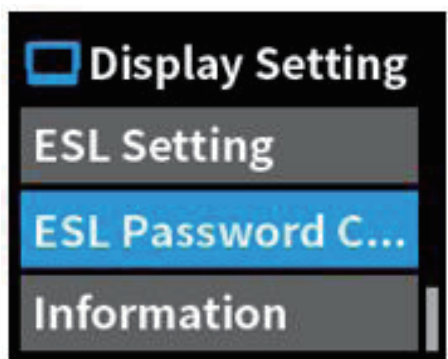
5) HOW TO SET THE CLUSTER MENU



15BRXOM0325-1



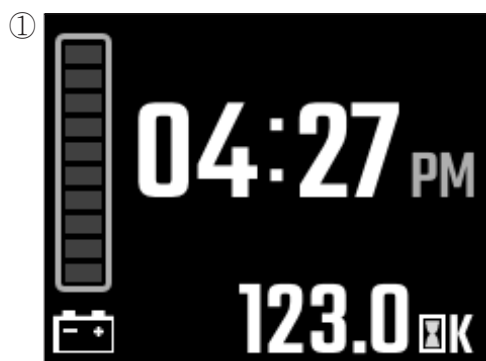
15BRXOM0326-1



15BRXOM0327-1

6) SERVICE MENU

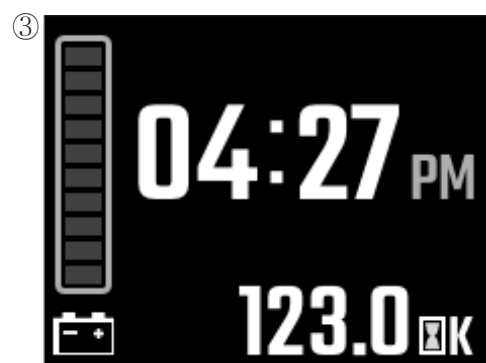
(1) How to enter the service menu



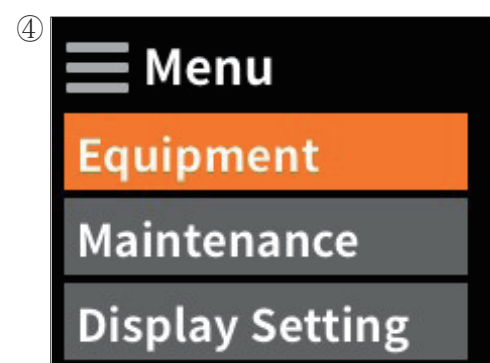
The above screen is shown when the engine is started on the truck. ESC button is pressed for more than 1 sec.



When the password input screen is shown, use the left/right button and ENTER button to enter the password.



After entering the password, the initial screen is shown as above, and HOME button is pressed.

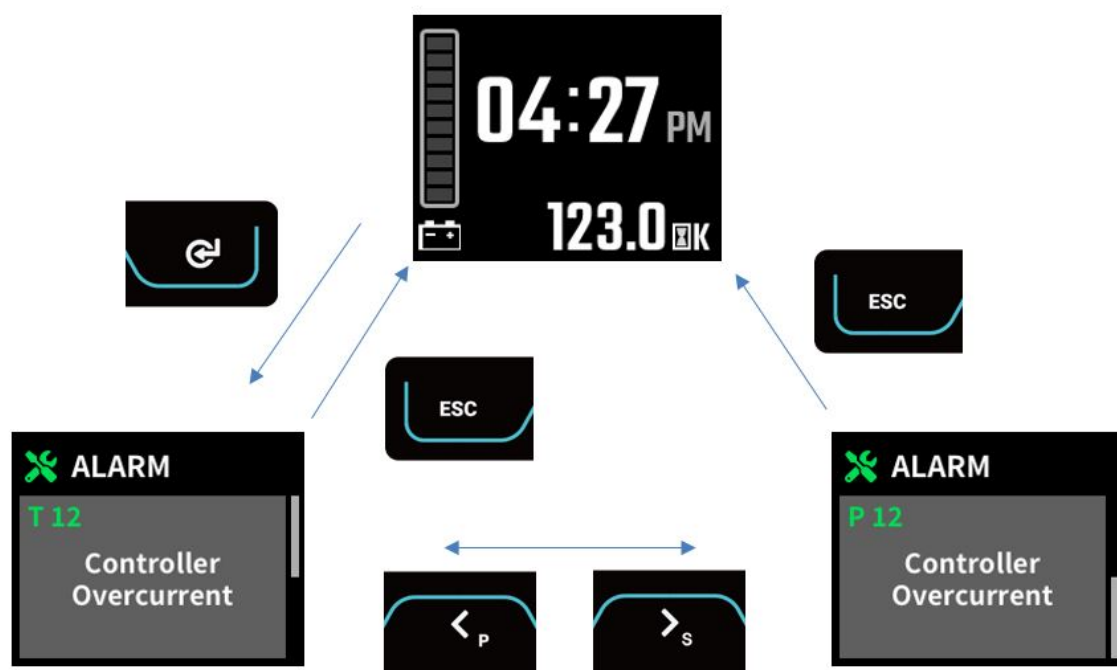


When the service menu is shown, press the left/right button is select the preferred menu, and press ENTER. Press ESC to go to the upper menu.

7) Alarm and alarm history

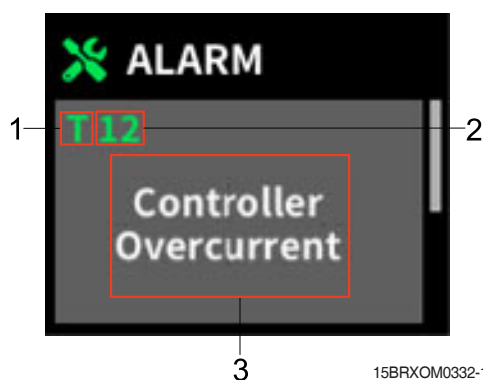
(1) Alarm verification method

Alarm screen is displayed when alarm is occurred, and “ENTER” and “ESC” buttons can be pressed as shown below to change to the Main screen and Alarm screen.



15BRXOM0331

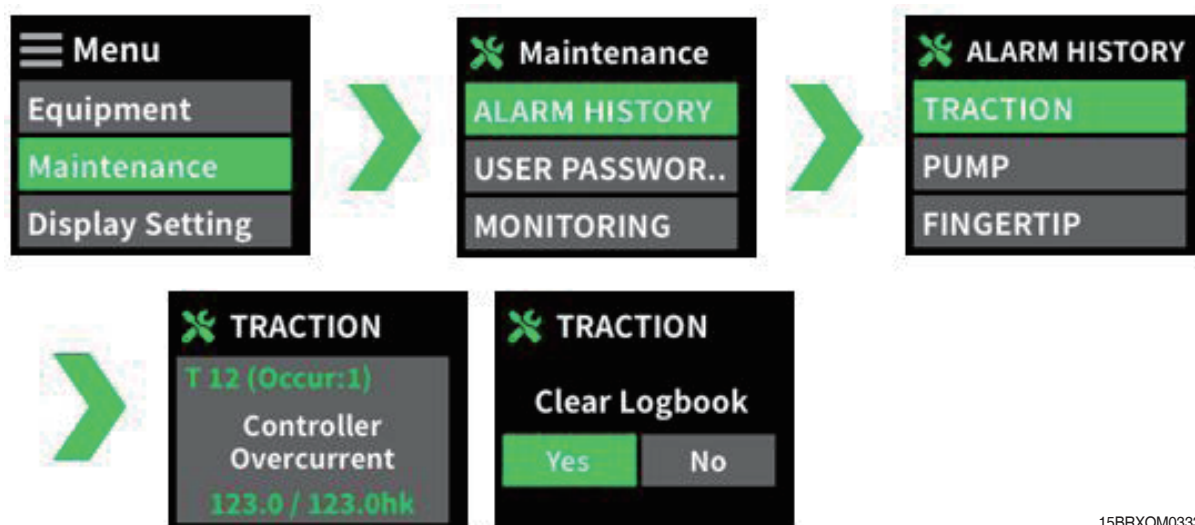
(2) Detailed description of the Alarm screen



15BRXOM0332-1

- ① The green capital letter indicates the location of the controller (T : Travel, P : Pump)
- ② The number indicates the alarm code.
- ③ The name of the alarm is displayed.

(8) Alarm history



15BRXOM0333-1

- ① The Maintenance menu is entered from the Main menu.
- ② In the Maintenance menu, enter the Alarm History menu.
- ③ The alarm history of each controller is checked.
- ④ 20 alarm histories and details can be checked.
- ⑤ Alarm history can be deleted by pressing the "ENTER" button, and "ESC" button is pressed to return to the previous screen.

8) PARAMETER CHANGE

Variable value of the travel and pump controller can be changed.



15BRXOM0334-1

- ① The Maintenance menu is entered from the Main menu.
- ② In the Maintenance menu, enter the Alarm History menu.
- ③ The alarm history of each controller is checked.
- ④ 20 alarm histories and details can be checked.
- ⑤ Alarm history can be deleted by pressing the "ENTER" button, and "ESC" button is pressed to return to the previous screen.

9) MONITORING

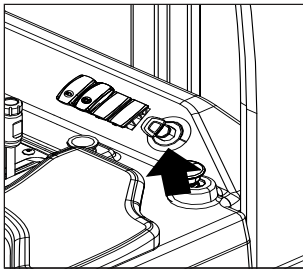
The monitoring status of the traction, pump, finger tip controller can be checked.



15BRXOM0334-2

5. SWITCHES AND LEVERS

1) START SWITCH

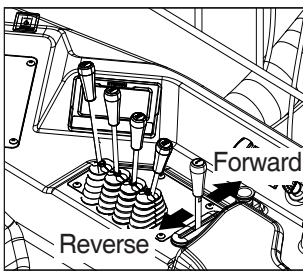


15BRXOM0335

(1) The switch supplies power to control circuit, and operates in sequence of OFF → ON clockwise.

- ① OFF : The key is inserted or removed, and the power is OFF.
- ② ON : The preparation for operation of the circuit for controlling the hydraulic device and travel is completed.

2) FORWARD AND REVERSE DRIVING LEVER (ACCELERATOR)

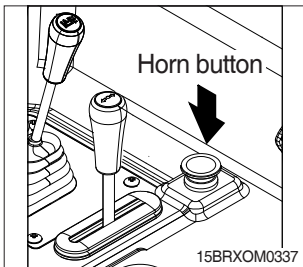


15BRXOM0336

- (1) Forward driving : Lever is pushed forward.
- (2) Reverse driving : Lever is pulled backward.
- (3) In neutral state, the control circuit in operation is stopped.
- (4) When the lever is changed to the opposite direction while driving, electric brake applies.

⚠ The driving speed is increased proportional to the operating range, so sudden operation and change in direction can cause accidents.

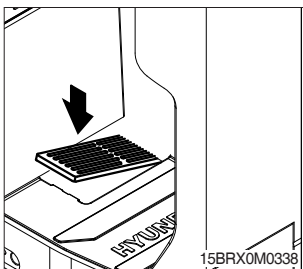
4) HORN SWITCH



15BRXOM0337

- (1) Horn is sounded when the switch is pressed.
- (2) The horn is released automatically when letting go of the switch.

5) BRAKE PEDAL



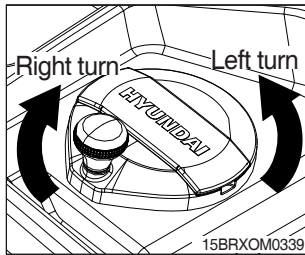
15BRXOM0338

(1) Press the pedal to operate the truck, and take your foot off the pedal to stop.

⚠ Take special caution on brake operation when carrying the load.

⚠ This truck does not have a separate parking brake system, and the driving motor does not operate when the pedal is not pressed, so brake is applied at all times on the truck.

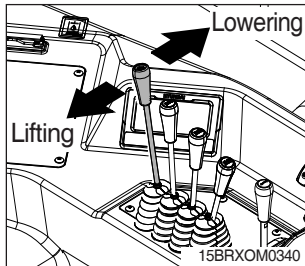
6) STEERING WHEEL



- (1) A knob is mounted on the wheel for handling the steering wheel with a hand.
- (2) It is allowed to perform unloading work with the right hand, and handle the steering wheel with the left hand.

⚠ Rapid handling of the steering wheel may cause risky situation.

7) LIFT LEVER

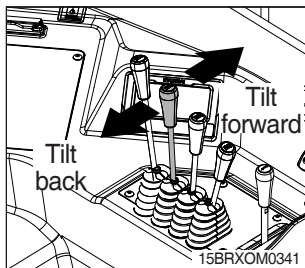


- (1) Lift : The fork is lifted when the lever is pulled backward.
- (2) Lower : The fork is lowered when the lever is pushed forward.
- (3) Maintain : When the lever is released while the fork is lifted (lowered) to the preferred position, the fork is stopped in that position.

※ The fork speed is adjusted according to the slope of the lever.

⚠ The maximum lowering speed is maintained constantly by the flow control valve regardless of the load.

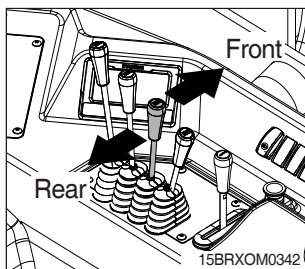
8) TILT LEVER



- (1) Front tilt : The carriage and backrest are tilted forward when the lever is pushed forward.
- (2) Back tilt : The carriage and backrest are tilted backward when the lever is pulled backward.
- (3) Maintain : The tilting operation is stopped when the lever is released.

※ The tilting speed is adjusted according to the slope of the lever.

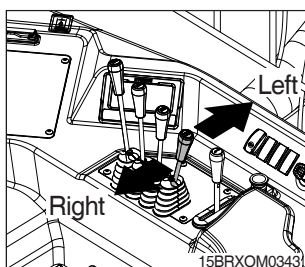
9) REACH LEVER



- (1) This lever moves the mast forward·backward horizontally.
 - ① Forward movement : The mast moves forward when the lever is pushed to the front.
 - ② Backward movement : The mast moves backward when the lever is pulled to the back.

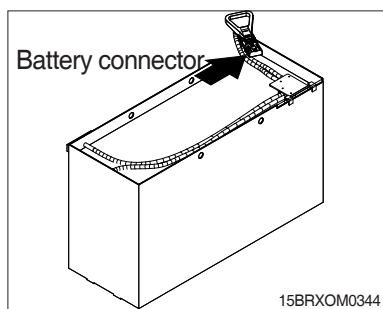
※ The movement speed is adjusted according to the slope of the lever.

10) SIDE SHIFT (OPTION)



- (1) Left movement : The carriage moves to the left when the lever is pushed to the front.
- (2) Right movement : The carriage moves to the right when the lever is pulled to the back.

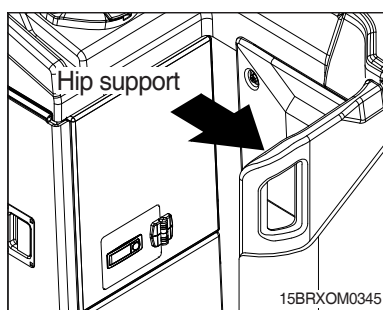
6. BATTERY CONNECTOR



Please connect the battery connector.

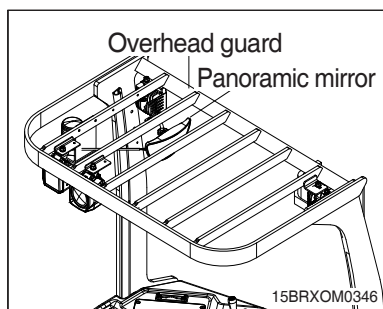
7. SUPPORT AND SAFETY PARTS

1) HIP SUPPORT



Pad is installed on the location in contact with the back of the driver to reduce the fatigue while operating the truck.

2) OVERHEAD GUARD



Reinforced structure of head guard is provided to guarantee the safety of the driver.