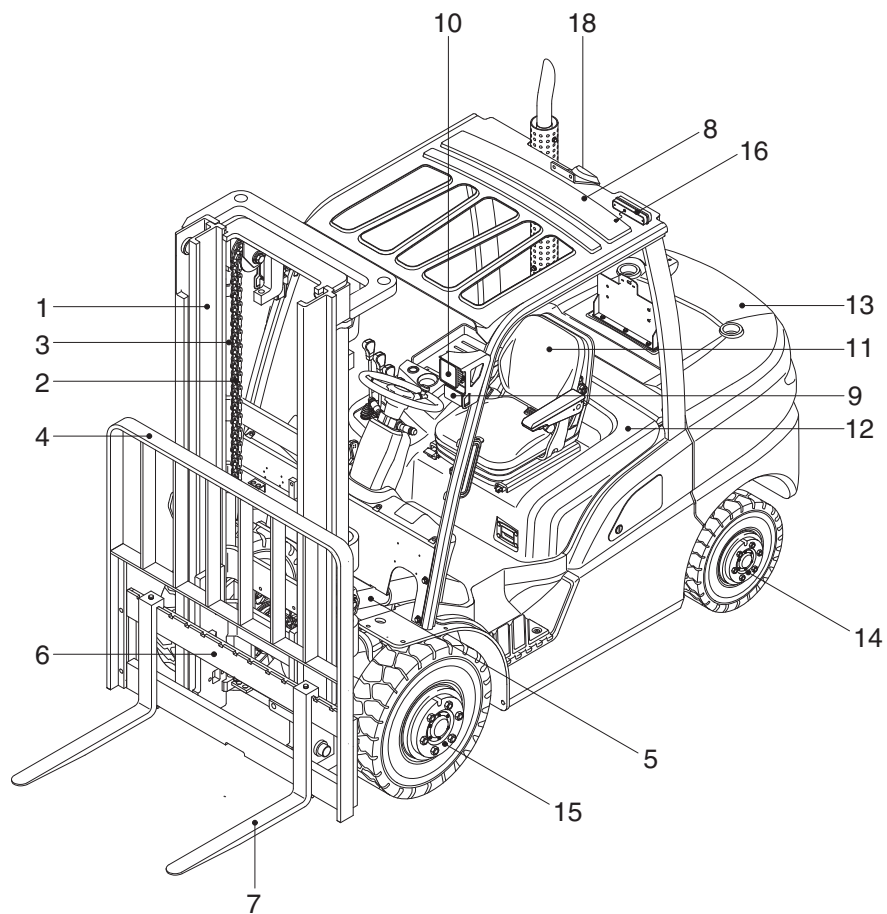


3. KNOW YOUR TRUCK

1. GENERAL LOCATIONS

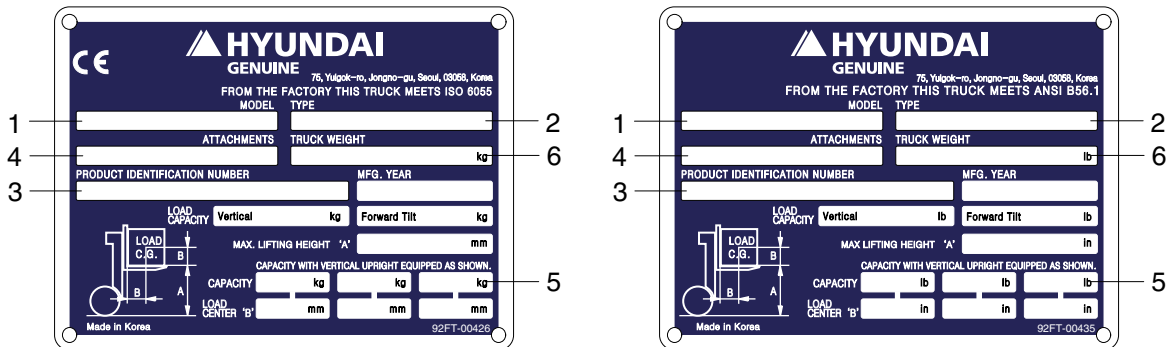


22D9OM54

- | | | |
|-----------------|--------------------|--------------------------|
| 1 Mast | 7 Forks | 13 Counterweight |
| 2 Lift chain | 8 Overhead guard | 14 Rear wheel |
| 3 Lift cylinder | 9 Turn signal lamp | 15 Front wheel |
| 4 Backrest | 10 Head lamp | 16 Rear combination lamp |
| 5 Tilt cylinder | 11 Operator's seat | 18 Rear camera |
| 6 Lift bracket | 12 Bonnet | |

2. DATA/SAFETY PLATES AND DECALS

1) TRUCK DATA AND CAPACITY PLATE



(1) Truck model number or registered name

(2) Truck type

The type is indicated a type of the truck such as diesel, LPG or battery.

(3) 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.

(4) 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.

(5) 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.

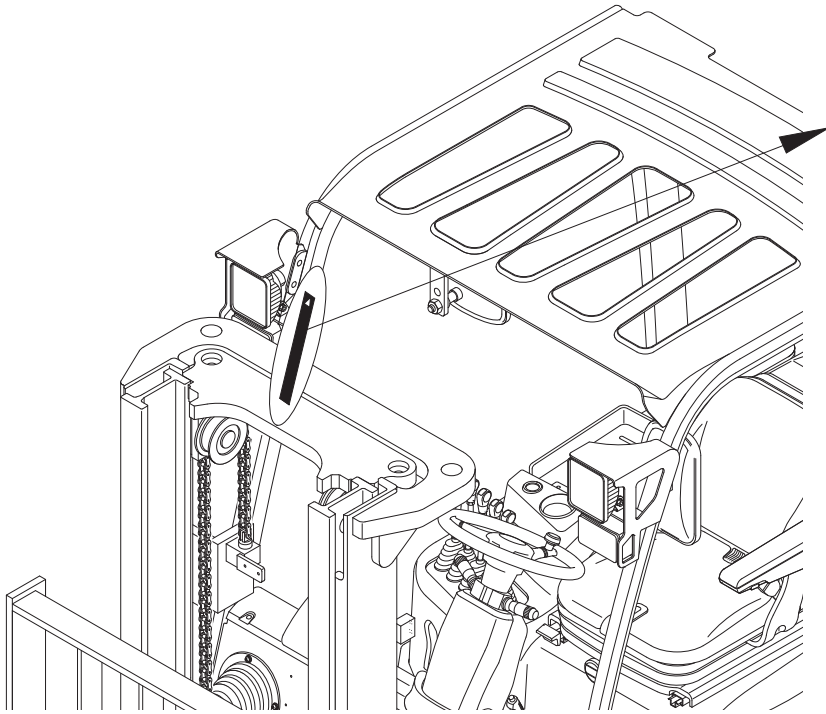
Do not exceed the maximum capacity specified.

(6) 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.

▲ 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) OPERATOR SAFETY WARNING DECAL



15D9SOM59K

- ⚠ **Safety and warning decals are placed in conspicuous locations on the truck to remind you of essential procedures or to prevent you from making an error that could damage the truck or possibly cause personal injury. You should know, understand, and follow these instructions. Safety and warning decals. Should be replaced immediately if missing or defaced (Damaged or illegible). Refer to your Service manual for the location of all decals.**

⚠ **Operator/Tip-over warning decal**

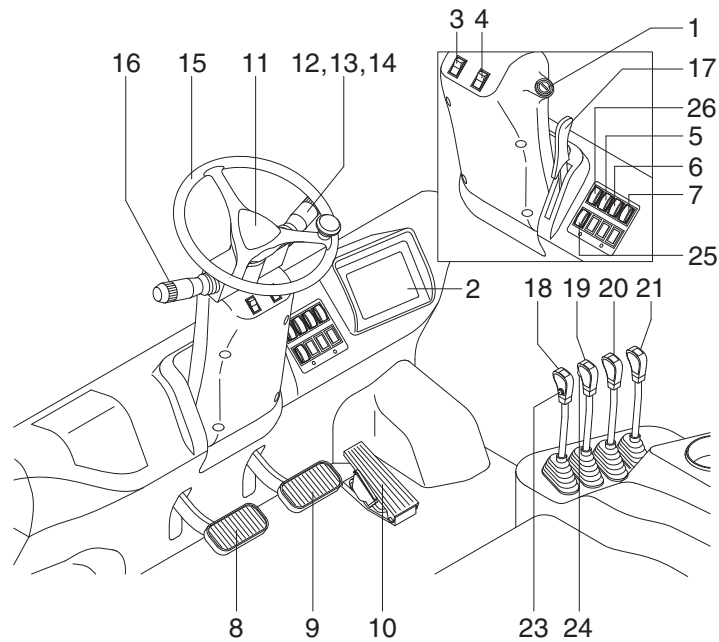
This decal is located on the front right hand leg of the driver's overhead guard. Its purpose is to remind the operator that staying in the seat provides the best chance of avoiding injury in the event of a truck-tipping or driving off a dock mishap.

Lift trucks can be tipped over if operated improperly. Experience with lift truck accidents has shown that the driver cannot react quickly enough to jump clear of the truck and overhead guard as the truck tips. To protect operators from severe injury or death in the event of a tip over, it is best to be held securely in the seat. So, please, always buckle up when driving your lift truck.



35D9SOM09A

3. INSTRUMENTS AND CONTROLS



22D9OM64T

- | | | |
|-----------------------------------|------------------------------|------------------------------------|
| 1 Start switch | 10 Accelerator pedal | 19 Tilt lever |
| 2 Cluster | 11 Horn button | 20 Attach lever 1 (opt) |
| 3 Hazard lamp switch (opt) | 12 Head lamp switch | 21 Attach lever 2 (opt) |
| 4 Parking brake switch | 13 Clearance lamp switch | 23 FNR and horn switch (opt) |
| 5 Rear work lamp switch (opt) | 14 Turn signal switch | 24 Auto tilt leveling switch (opt) |
| 6 Beacon switch (opt) | 15 Steering wheel | 25 Heater switch (opt) |
| 7 Front wiper/washer switch (opt) | 16 Forward-reverse lever | 26 Fuel warmer switch |
| 8 Inching pedal | 17 Steering wheel lock lever | |
| 9 Brake pedal | 18 Lift lever | |

△ Familiarize yourself with the controls and follow safe operating procedures.

4. CLUSTER

1) STRUCTURE

Like following figure, cluster is consisted of LCD and switch. LCD will indicate the operation and abnormal status of truck to the driver in order to use and maintenance.

Also, LCD allows to set and indicate the various modes, monitoring, and gadgets.



35D9SCL001

2) GAUGE

(1) Operation screen

Operating screen will be displayed if turn on the ignition switch.



35D9SCL002K

- 1 Speed meter
- 2 Fuel indicator

- 3 Coolant temperature indicator
- 4 Clock

(2) Speed meter

- ① Display the trip speed of vehicle.
- ② Speed unit is km/h or mile.

※ **Speed unit can be set in the speed unit menu of display set up.**




35D9SCL003K

(3) Fuel indicator




35D9SCL004K

- ① Display the remains of fuel tank.
- ② If the indicator point to the red zone, or warning lamp  will be lit up in red, please refuel.

(4) Coolant temperature indicator



35D9SCL005K

- ① Display the coolant temperature.
 - While zone : 40 ~ 120°C
 - Red zone : Over 120°C
 - Warning lamp on : Over 115°C
- ② If the gauge points to the red zone, or warning lamp  is on, please stop the engine and inspect the coolant system.

(5) Clock



35D9SCL006K

- ① Display current time.
- ② You can enter current time at display Set Up > Time Set Up menu.

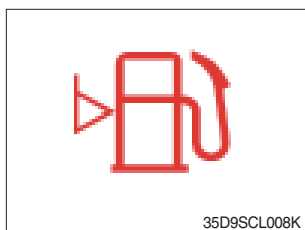
3) WARNING LAMP AND INDICATOR LAMP



35D9SCL007K

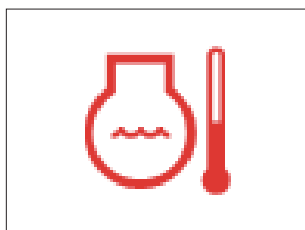
- ※ Warning and Indicator lamp will display only items that were set as ON, and all warning and indicator except fuel level warning and coolant temperature warning will be displayed in order from the left of screen.

(1) Fuel level warning lamp



- ① Warning lamp will be displayed if fuel level is low.
- ② Please refuel immediately if the lamp is on.

(2) Coolant temperature warning lamp



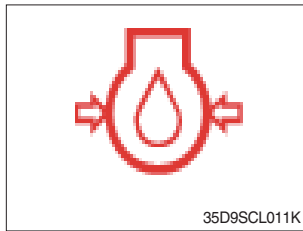
- ① Coolant temperature warning will be lit up when temperature is over 115°C.
- ② If the warning lamp is on continuously, please inspect the coolant system.

(3) Expendables replacement indicator lamp



- ① Light up if expendables which must be replaced are exist.
- ② The indicator will light up only 3 minutes since KEY ON, and then light off.
- ③ Please check the expendables management list in maintenance menu.

(4) Engine oil pressure warning lamp



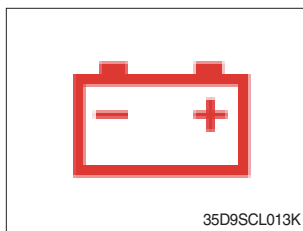
- ① This warning lamp will be lit up when engine oil pressure is low.
- ② Stop the engine immediately if the warning lamp is lit up.
- ③ Please check the engine oil.

(5) Engine check warning lamp



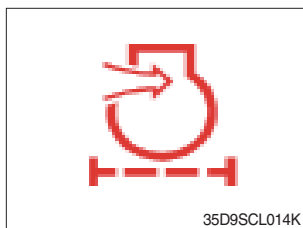
- ① This warning lamp will be lit up if the engine ECM sends a failure code to cluster or receives the signal.
- ② Check the failure code of cluster.

(6) Battery charge warning lamp



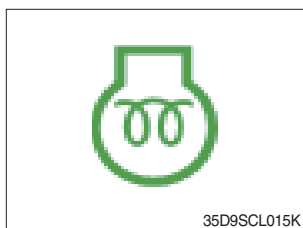
- ① This warning lamp is lit when battery charging voltage is low.
- ② Please inspect the battery charging circuit if the warning lamp is lit.

(7) Air cleaner warning lamp



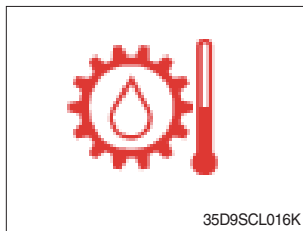
- ① This warning lamp is lit when air cleaner filter is clogged up.
- ② Please clean up or replace the filter.

(8) Engine warm-up Indicator lamp



- ① The truck senses the engine coolant temperature and warms-up the engine when needed (coolant temperature < 0°C).
- ② When it is happening, the indicator lamp is ON.

(9) TM oil temperature warning lamp



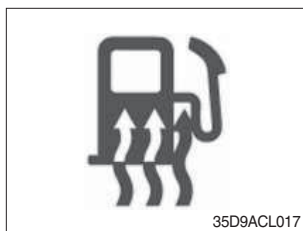
- ① Transmission oil temperature warning is consisted of two indications.
 - 110°C or higher : Amber is light up
 - 120°C or higher : Red is flashing
- ② When this lamp light up during operation, stop the engine and check the machine.

(10) Water in fuel indicator lamp



- ① Light up when water in fuel.
- ② Stop the engine and please drain the water of water separator.

(11) Fuel warmer lamp



- ① Light up when operation the fuel warmer switch.

(12) OPSS Indicator lamp



- ① Light up if driver leave seat during operation.
- ② Machine driving and control will be blocked if lamp is lit up.

(13) Parking indicator lamp



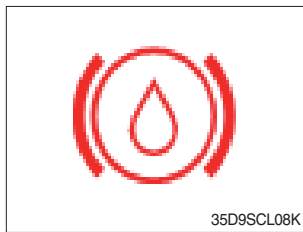
- ① Light up when parking brake is ON.

(14) Tilt lock (auto tilt leveling) Indicator lamp



- ① The Indicator lamp will be lit up if the tilt lock switch (optional) is entered.
- ② Tilt action will be limited if this Indicator lamp is lit up and the mast is located at 90 degrees.

(15) Brake oil level warning lamp



- ① Warning lamp will be displayed if brake oil is low of reservoir tank.
- ② Please refill immediately if the lamp is on.

(16) T/M oil pressure warning lamp



- ① Warning lamp will be displayed if transmission oil pressure is not enough.
- ② The lamp also will be displayed while inching operation.
- ③ Please check the transmission when the lamp is displayed without inching operation.

(17) Communication error warning lamp



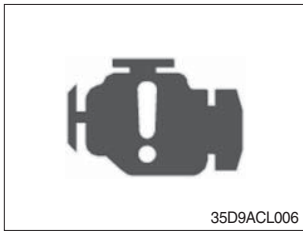
- ① This warning lamp will be lit up if the communication between MCU and ECU is fail.
- ② Please check the communication line if the warning lamp is lit up.

(18) Communication error warning lamp



- ① This warning lamp will be lit up if the communication between MCU and cluster is fail.
- ② Please check the communication line if the warning lamp is lit up.

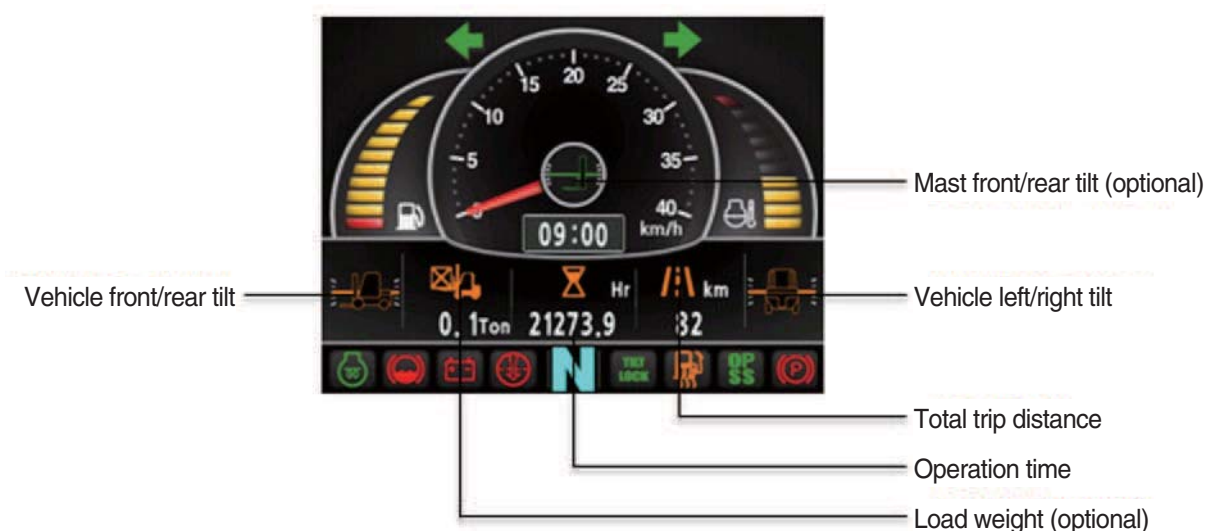
(19) Engine stop warning lamp



① If the lamp lights ON, stop the engine immediately and check the engine.

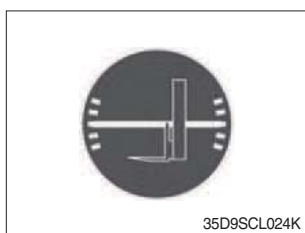
※ **Please contact your Hyundai service center or local dealer.**

4) INFORMATION DISPLAY



35D9SCL023K

(1) Mast front/rear tilt (optional)



- ① Display the real time tilt of mast.

(2) Vehicle front/rear tilt



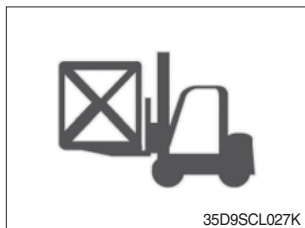
- ① Display the front/rear tilt of vehicle in real time.
 - Stop : Tilt angle is higher than 2.3° then the red warning symbol.
 - Driving : Tilt angle is higher than 10.2° then the red warning symbol.

(3) Vehicle left/right tilt



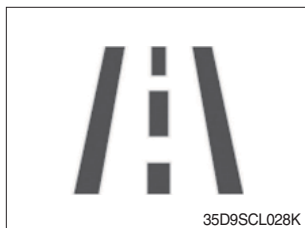
- ① Display the left/right tilt of vehicle in real time.
 - Stop : Tilt angle is higher than 3.4° then the red warning symbol.
 - Driving : Tilt angle is higher than 20.8° then the red warning symbol.

(4) Load weight (optional)



- ① Display the load weight.
- ② Screen will display blurry if the weight sensor has not been mounted.

(5) Total trip distance



- ① Display total trip distance of vehicle.
- ② Unit of distance is kilometer.

(6) Operation time

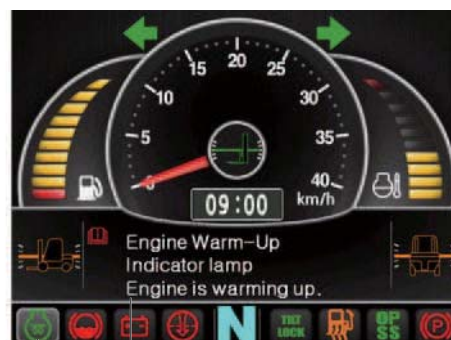


- ① Display the used time of vehicle.
- ② Icon will be changed as follow if starts ignition.



35D9SCL030K

(7) Explanation of warning lamp and indicator lamp



Explanation of selected warning lamp or indicator lamp

Selected icon

35D9ACL031

- ① Explanation will be displayed if press the arrow (refer to page 3-16) while warning lamp or indicator lamp is on.
- ② Explanation for warning lamp or indicator lamp that are shown on the screen will be displayed if press the arrow continuously.

5) DRIVING INDICATOR LAMP



35D9SCL032K

(1) Neutral



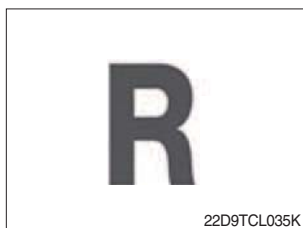
- ① This Indicator lamp will be lit up when direction lever is located in neutral.

(2) Forward



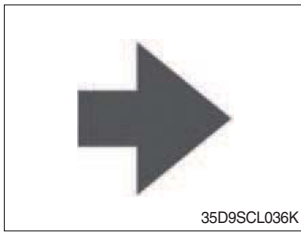
- ① This indicator lamp is displayed if the forward gear is selected.
- ② First gear will be displayed as **F**.

(3) Reverse



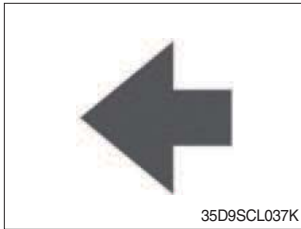
- ① This indicator lamp is displayed if the reverse gear is selected.
- ② First gear will be displayed as **R**.

(4) Right turning pilot lamp



① This pilot lamp will flash if turns on the right turn signal.

(5) Left turning pilot lamp



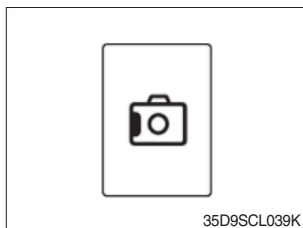
① This pilot lamp will flash if turns on the left turn signal.

6) SWITCH



35D9SCL038K

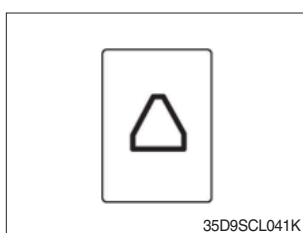
(1) Camera



- ① This switch displays rear camera images. (if the camera is mounted)

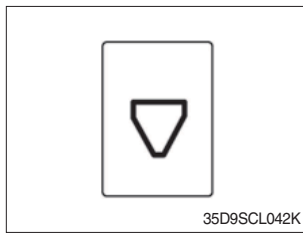


(2) UP/Left



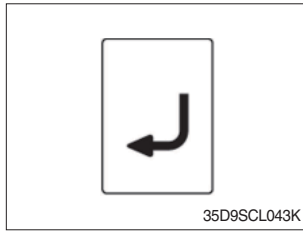
- ① This switch is used to move upward or leftward in menu or increase the value.

(3) Down/Right



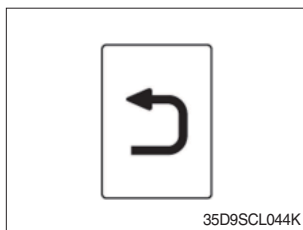
- ① This switch is used to move downward or rightward in menu or decrease the value.

(4) Select



- ① This switch is used to enter into the menu or to select.

(5) Cancel (ESC)



- ① This switch is used to cancel or move to upper menu.



35D9SCL045




7) MAIN MENU



35D9SCL046

A menu consists of main menu and sub-menu.

(1) Structure

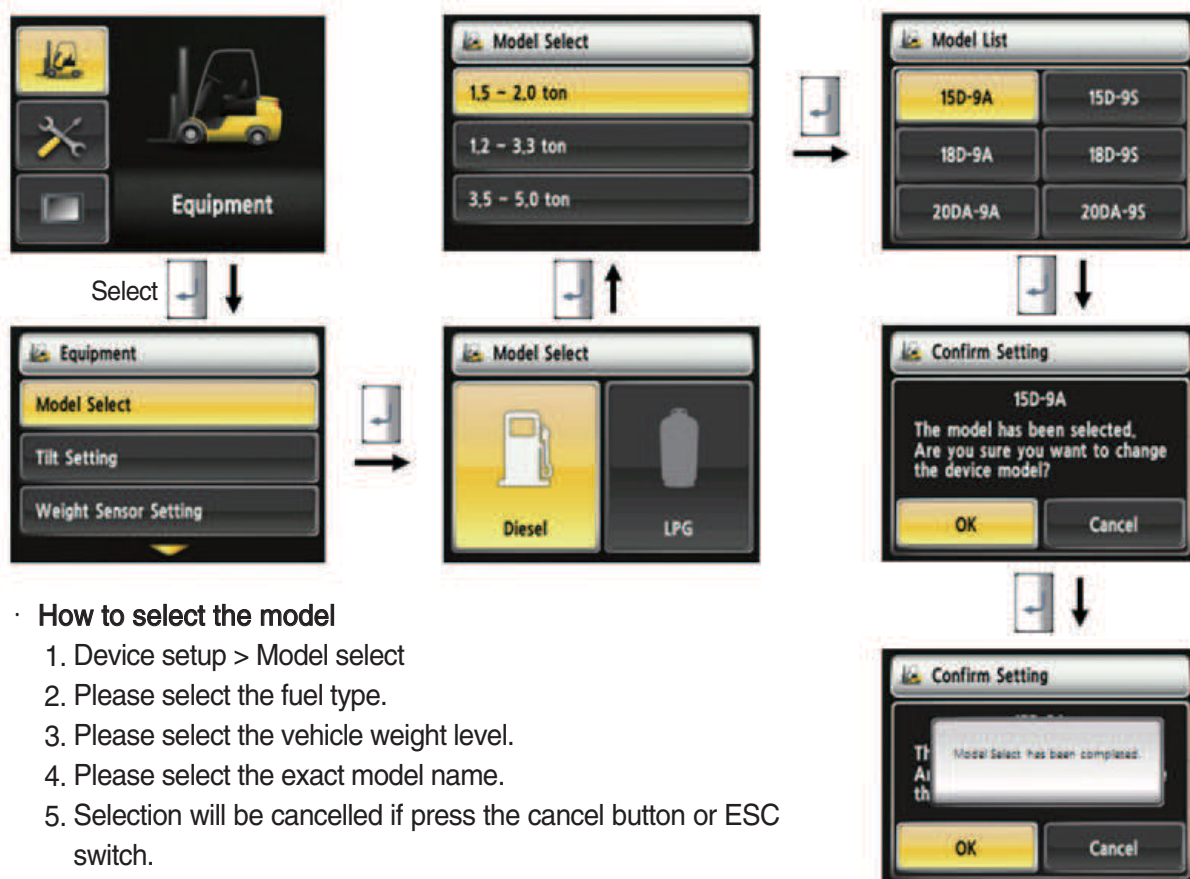
No	Main menu	Sub menu	Explanation
1		Model select Vehicle tilt Initialize Weight sensor setup Ignition control setup Camera setup Auto-shift speed setup DCSR speed setup Vehicle max speed limit MCU Cluster information	Diesel, LPG Vehicle tilt Initialize Enter the cylinder cross section area , Adjust load weight, Weight display setup Ignition control, Change password Interoperate with reverse gear Null DCSR On, Block driving speed, Restore driving speed Maximum speed limitation MCU/Cluster Information
2		Failure History Expendables management I/O Information A/S Contact	Current engine failure, Engine failure history Change oil and filter replacement cycle Analog Input, Digital input/output Change A/S contact
3		LCD Brightness Time Setup Unit Setup Language Setting ESL password Maintenance management	Automatic, Manual Clock Speed, Weight, Temperature, Pressure, Date type Korean, English E/G starting password context Maintenance parts management

(2) Model select (a required setting)

- ※ This is a required setting. Some functions may not be worked properly if you do not select the model.
- How to check the Model Select (Check under the KEY ON status)



35D9KCL070



35D9SCL047

- How to select the model
 1. Device setup > Model select
 2. Please select the fuel type.
 3. Please select the vehicle weight level.
 4. Please select the exact model name.
 5. Selection will be cancelled if press the cancel button or ESC switch.
 6. Check the phrases would be disappeared in the main screen.
- ※ To use full function of vehicle, exact model must be selected.



35D9KCL071

(3) Initialize vehicle tilt (a requid setting)

- How to check the "Initialize Vehicle Tilt" (Check under the KEY ON status)

1) Vehicle that has not applied the mast angle sensor



2) Vehicle that has applied the mast angle sensor



35D9KCL072



35D9SCL048

Initialize vehicle tilt

- The tilt sensor has already been initialized when deliver the vehicle from factory.
- Initialize vehicle tilt if the tilt sensor figure or vehicle tilt is not horizontal in the flatland.
Vehicle set up > Initialize vehicle tilt
- You must set tilt in the flatland since this is a horizontal set up.
- If tilt sensor for mast is mounted (optional), locates the mast vertically.
- Mast maximum angle depends on the vehicle.

· **Check functions**

(1) Check the real time operation by changing angles of vehicle tilt and mast tilt,

(2) Auto-leveling (option)

- ① Tilt mast inward or outward.
- ② Start tilting mast toward its vertical position, pushing the auto tilt leveling switch.
- ③ Check if the mast stops traveling when it becomes vertical to ground.

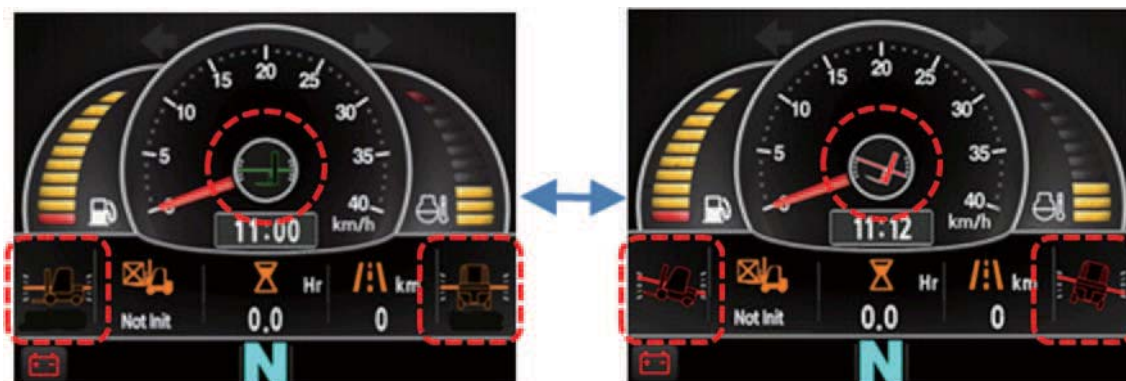
(3) Front/Rear Tilt Warning (red)

- ① Stop : $\pm 2.3^\circ$ (1.5 tons~5.0 tons)
- ② Driving : $\pm 10.2^\circ$ (1.5 tons~5.0 tons)

(4) Left/Right Tilt Warning (red)

- ① Stop : $\pm 3.4^\circ$ (1.5 tons~5.0 tons)
- ② Driving

Vehicle Weight	Warning Angles (Red)
1.5 tons~2.0 tons	$\pm 20.3^\circ$
2.2 tons~3.3 tons	$\pm 20.8^\circ$
3.5 tons~4.5 tons	$\pm 24.2^\circ$
5.0 tons	$\pm 28.0^\circ$



35D9KCL073

(4) Weight sensor set up (optional)

- How to check the "Weight Sensor Setting" (Check under the KEY ON status)

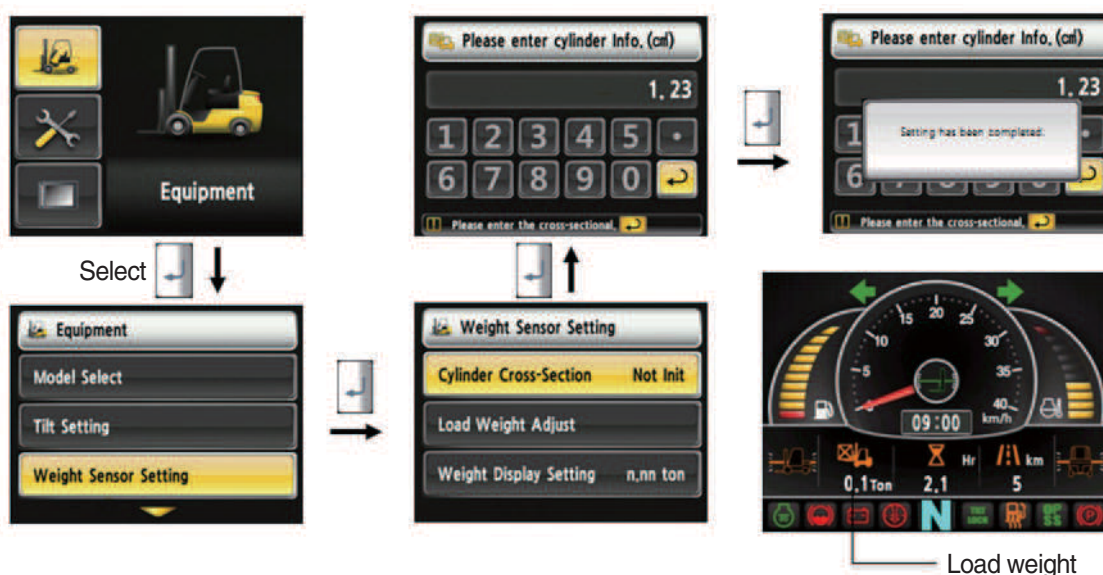
1) Vehicle that has not applied the weight sensor



2) Vehicle that has applied the weight sensor (not set)



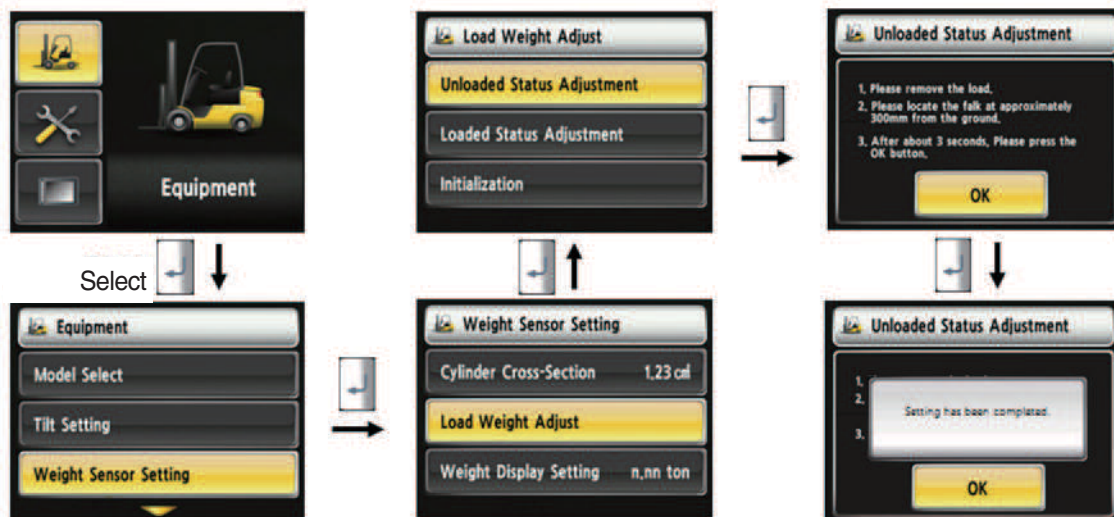
35D9KCL074



35D9SCL049

How to set weight sensor

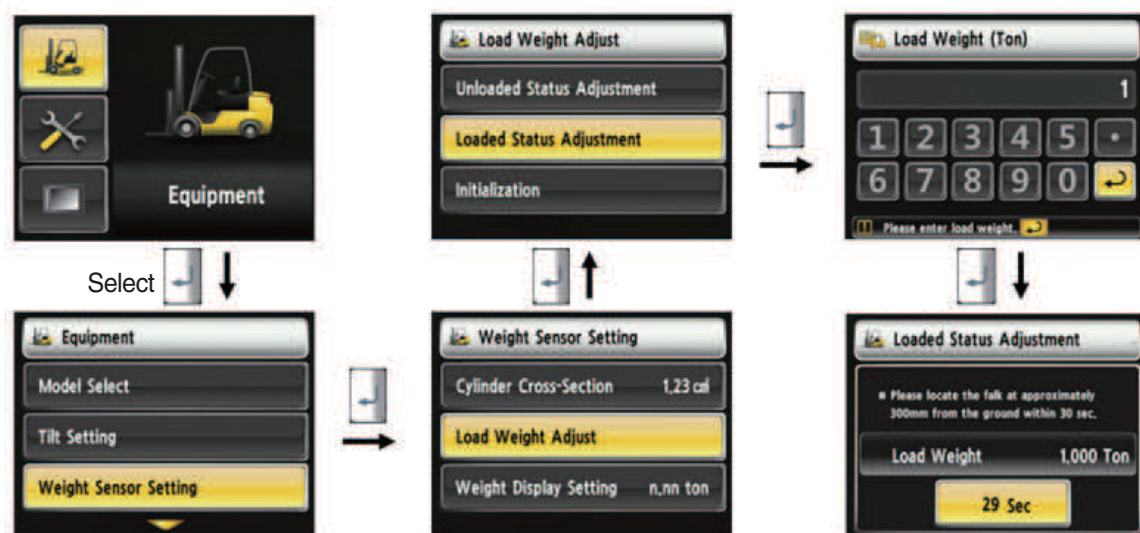
- The weight sensor has already been set when deliver the vehicle from factory.
- Device setup > Weight sensor setup
- There are three ways to setup. (unload, load, initialization)
- A cylinder cross sectional area value will be displayed in initial screen, please enter the cross sectional area using shift and select button if there are changes.
- Please finish setup using enter button when input is done.



35D9SCL050

How to set weight sensor (unload)

1. Device setup > Weight sensor setup
2. The way to adjust the no-load weight is as follow
3. First, please select the no-load adjust.
4. Wait 3 seconds after lifting no-load fork approximately 30 cm from the ground level, then press OK button.



35D9KCL051

How to set weight sensor (load)

1. Device Setup > Weight Sensor Setup
2. The way to adjust the load weight is as follow
3. First, please select the load adjust.
4. Please enter load weight.
 - ※ **Must be prepared to lift up by locating the load on the fork before enter the weight.**
5. Please locate the loaded fork approximately 30 cm from the ground level.
 - ※ **MCU recognizes the weight automatically by detecting the pressure change.**
 - ※ **Must be performed only the load lift task within 30 seconds.**
 - ※ **Accurate weight value is not recognized if other pressure changes that are occurred besides salvage work.**
 - ※ **Re-perform the "Load/No-Load Adjustment" if the measurement malfunction is occurred.**
6. If set is completed, the screen will be switched automatically.
7. Please proceed the operation within 30 seconds.
8. Operating will be cancelled automatically if the time is elapsed longer than 30 seconds

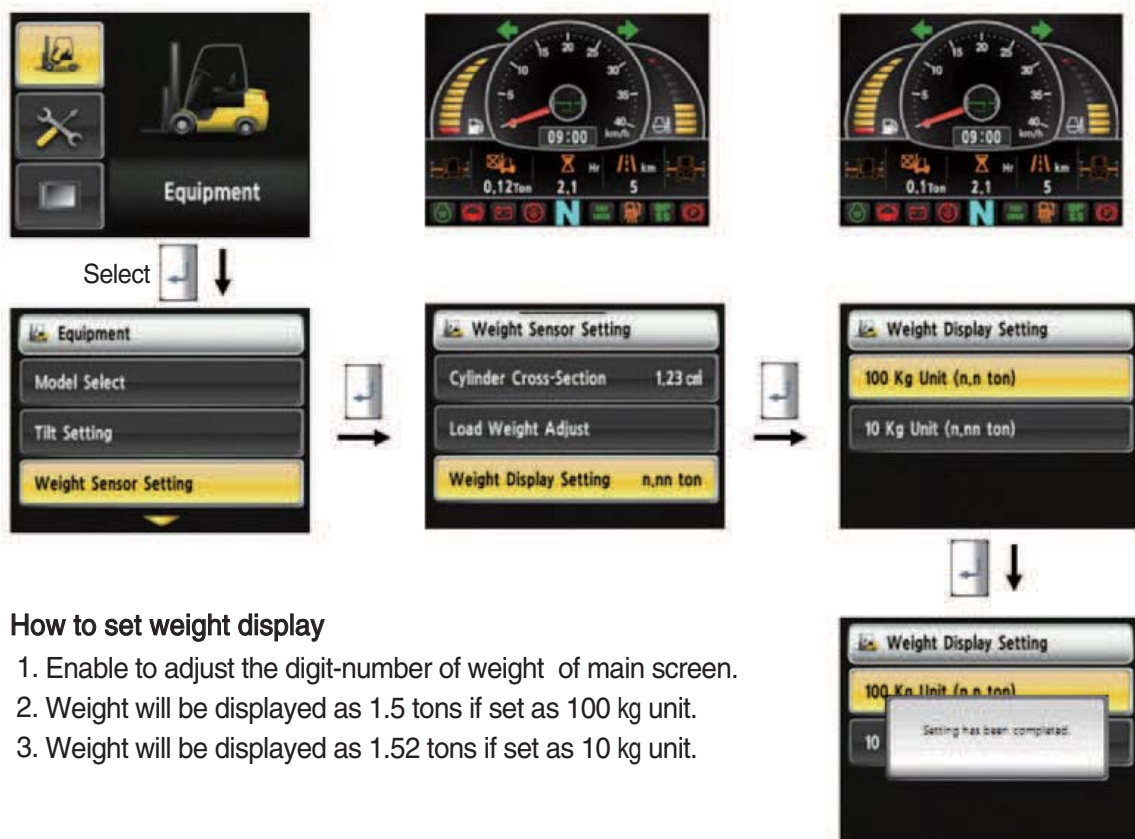


35D9KCL052

How to set weight sensor (initialization)

Initialize the all values of "No-Load Adjustment" and "Load Adjustment" that were entered previously (Cylinder cross-sectional area is not initialized.)

(5) Weight setup

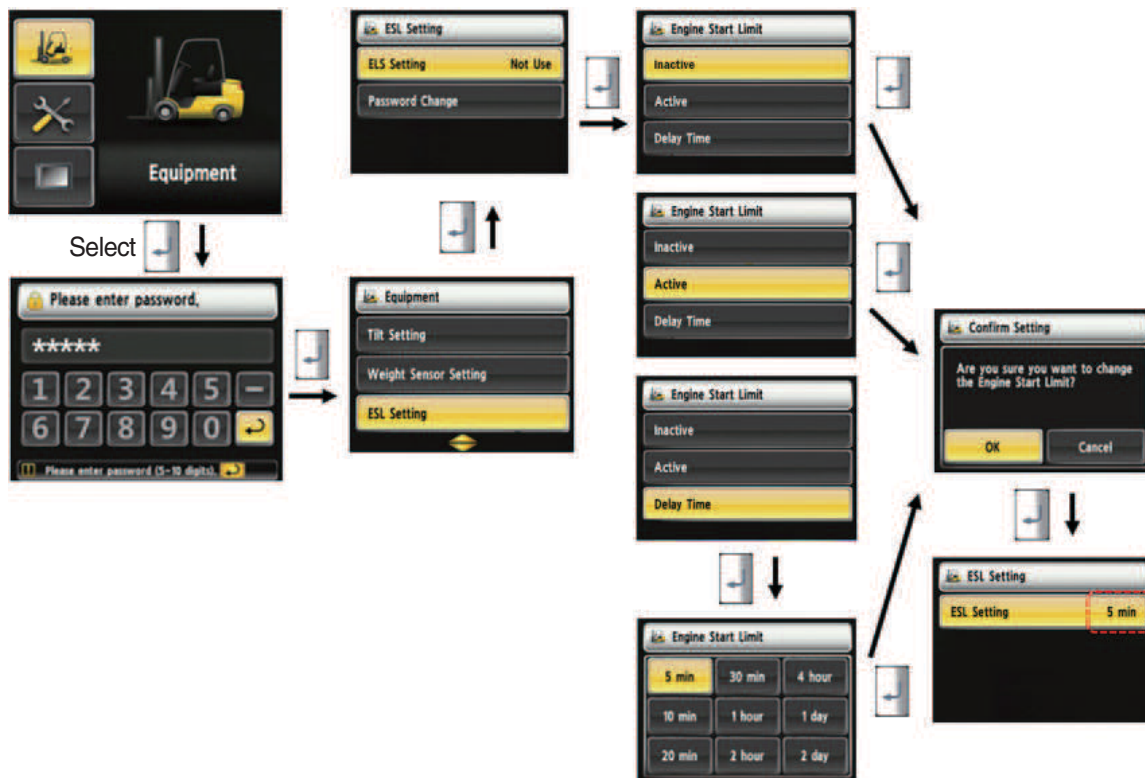


How to set weight display

1. Enable to adjust the digit-number of weight of main screen.
2. Weight will be displayed as 1.5 tons if set as 100 kg unit.
3. Weight will be displayed as 1.52 tons if set as 10 kg unit.

35D9SCL053

(6) Startup Control Setting (Standard) : Default is "Not Use"



35D9KCL054

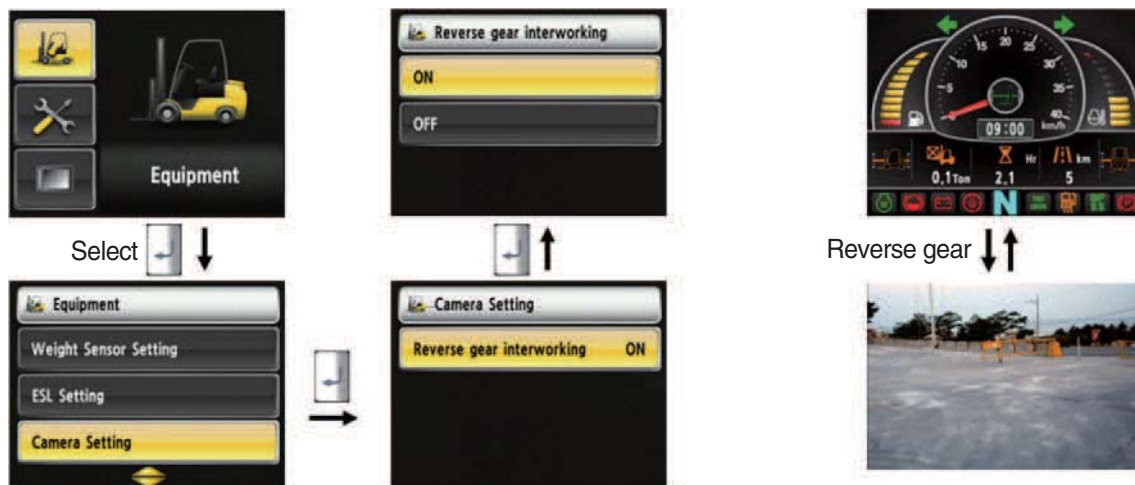
How to set ESL setting

1. Device Setup > ESL setting
2. Password request screen will be displayed if you select the menu. Default password is "00000".
3. Password length must be 5~10 digits.
4. Next step is allowed only if password is authenticated.
5. Check functions
 - ① Set the mode as active and key-OFF.
 - ② Upon key-ON, the password screen pops up and starting is prohibited until the right password has been offered. (But, driver still can start the vehicle if starts within 10 seconds from key-off)
 - ③ Set the mode as 5 min of delay time and key-OFF.
 - ④ Check if vehicle can start within 5 min and key-OFF.
 - ⑤ Check if vehicle requests password after 5 min.
- ※ **KEY-ON screen (When startup Control mode is ON)**



35D9KCL075

(7) Camera setup

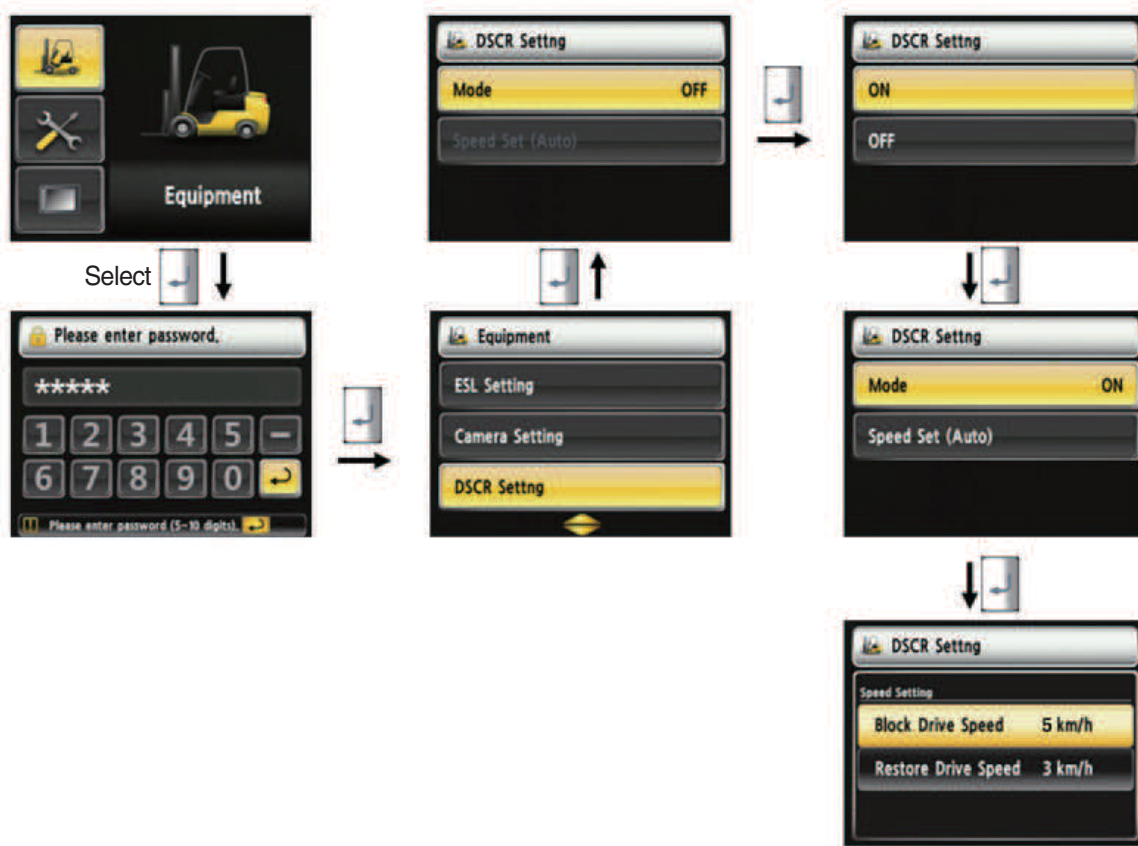


35D9SCL056

How to set camera

1. Device setup > Camera setup
2. After set the reverse gear interoperation as ON, the screen will be changed from main screen to camera mode if put gear into reverse, and if the gear is changed, screen will be back to the main screen.

(8) DCSR Setup (standard)

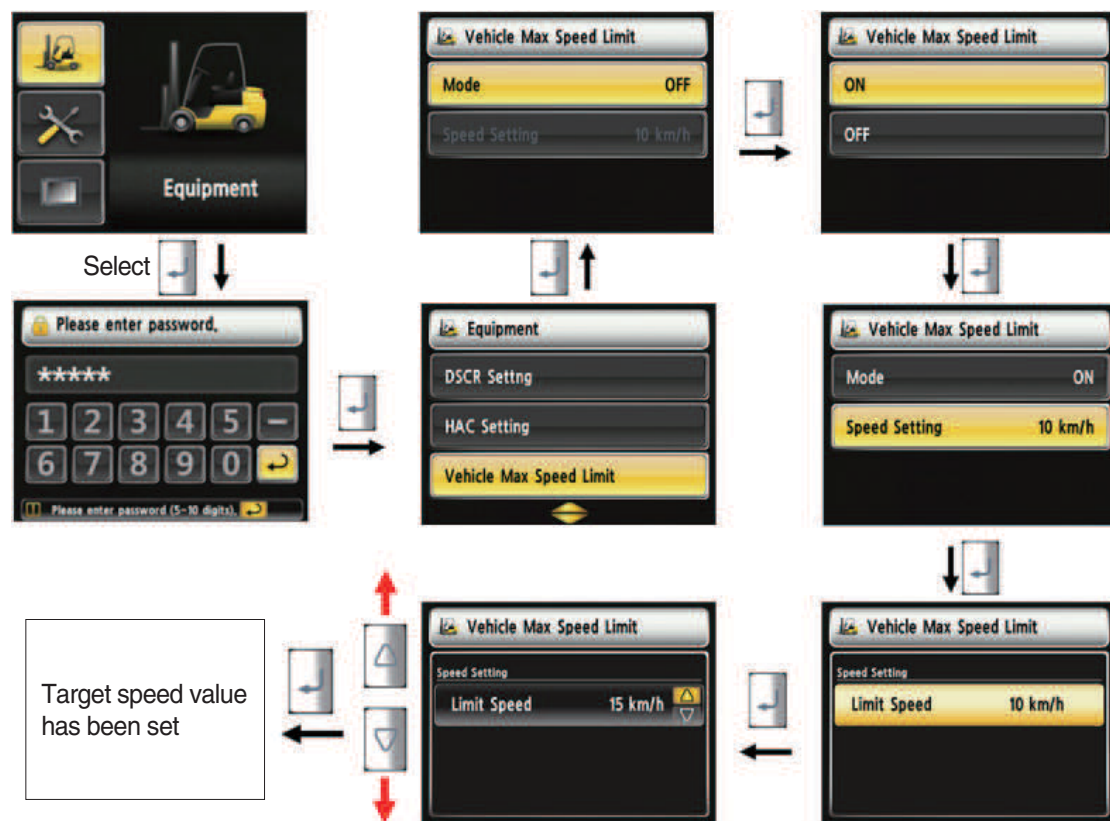


35D9KCL058

How to set DCSR

1. Device setup > DCSR setup
 2. User password is required in order to set this function.
 3. Set the mode ON. Below is how this feature functions.
 4. If you are driving at over the block drive speed and then change gear from forward to reverse (or reverse to forward), the gear stays as neutral until the vehicle reaches the restore drive speed.
 5. The car changes direction and starts to travel.
- ※ DCSR : Direction change shock relief
 - ※ Restore drive speed cannot be set over the block drive speed.

(9) Vehicle max speed limit

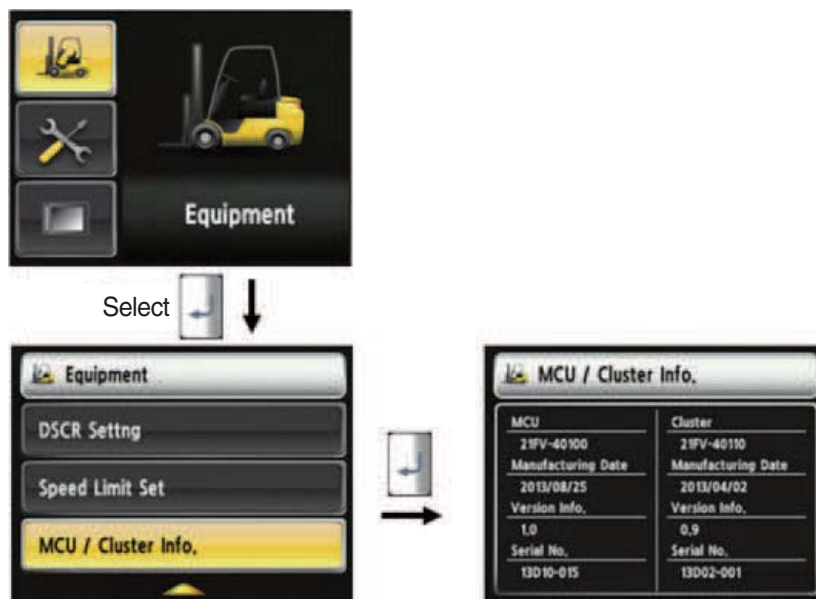


22D9CL059

How to set vehicle max speed limit

1. Equipment > Vehicle max speed limit.
2. User password is required in order to set this function.
3. The default setting is off with the speed of 10 km/h.
4. The speed setting range is 8~20 km/h
5. The vehicle reaches smoothly to the target speed.

(10) MCU/Cluster information

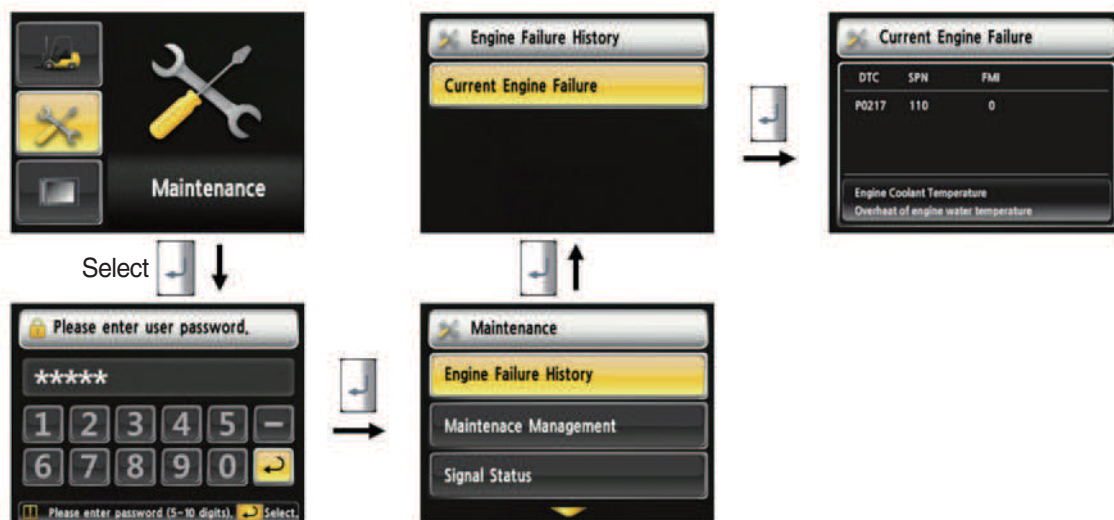


35D9SCL060

MCU / Cluster information

1. Device Setup > MCU/Cluster information
2. MCU, manufactured date and version of cluster, and serial number will be displayed.

(11) Engine Failure History



35D9KCL078

Engine failure history

1. Device Setup > Engine failure history
2. Device that has an error code among the engine.

(12) Expendables replacement management



35D9KCL079

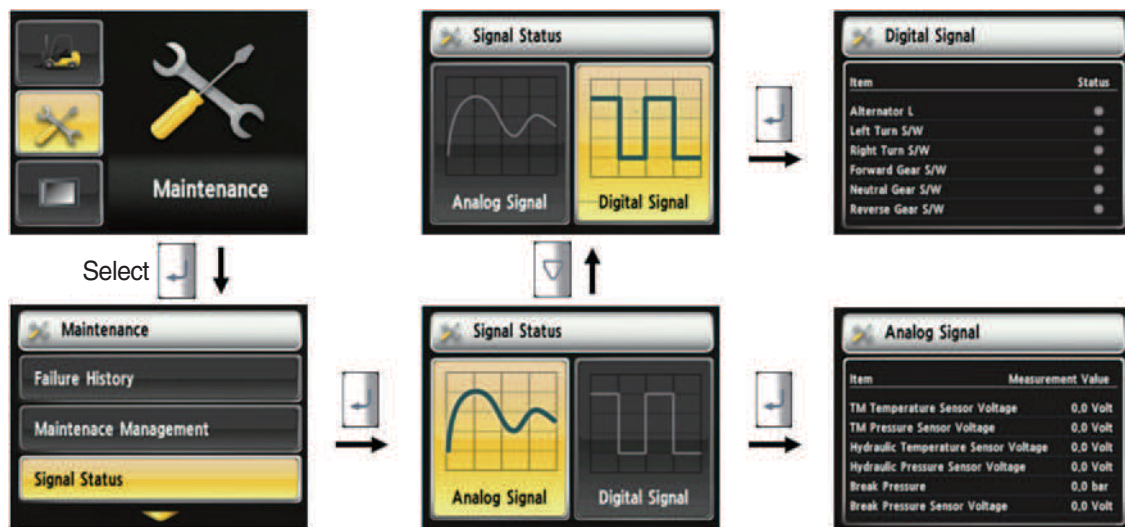


35D9SCL061

How to replace expendables

1. Device setup > Expendables management
2. If the expendables replacement cycle has been passed, alarm will be displayed as ON
3. Press the "Expendables replacement" if replaced the expendables.
4. Information about recent replacement (max. 9) will be displayed.
5. If you want to change the cycle, please press the "Change cycle" button.

(13) I/O Information

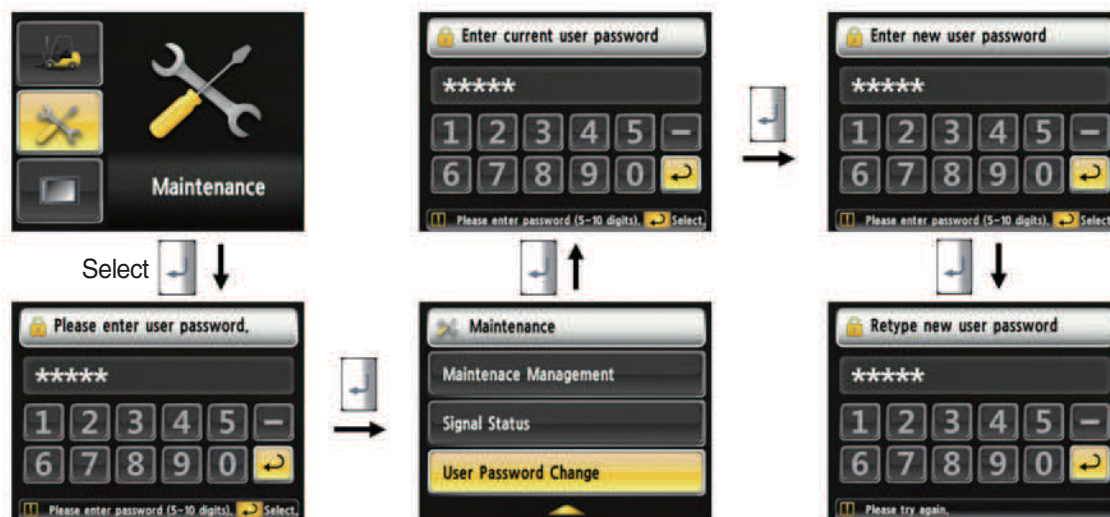


35D9SCL062

How to set I/O information

1. Maintenance > I/O information
2. I/O information can be classified as two signals. Analog signal can see the numeric data. Digital signal can indicate only ON/OFF.
3. User can change the cycle.

(14) User password change

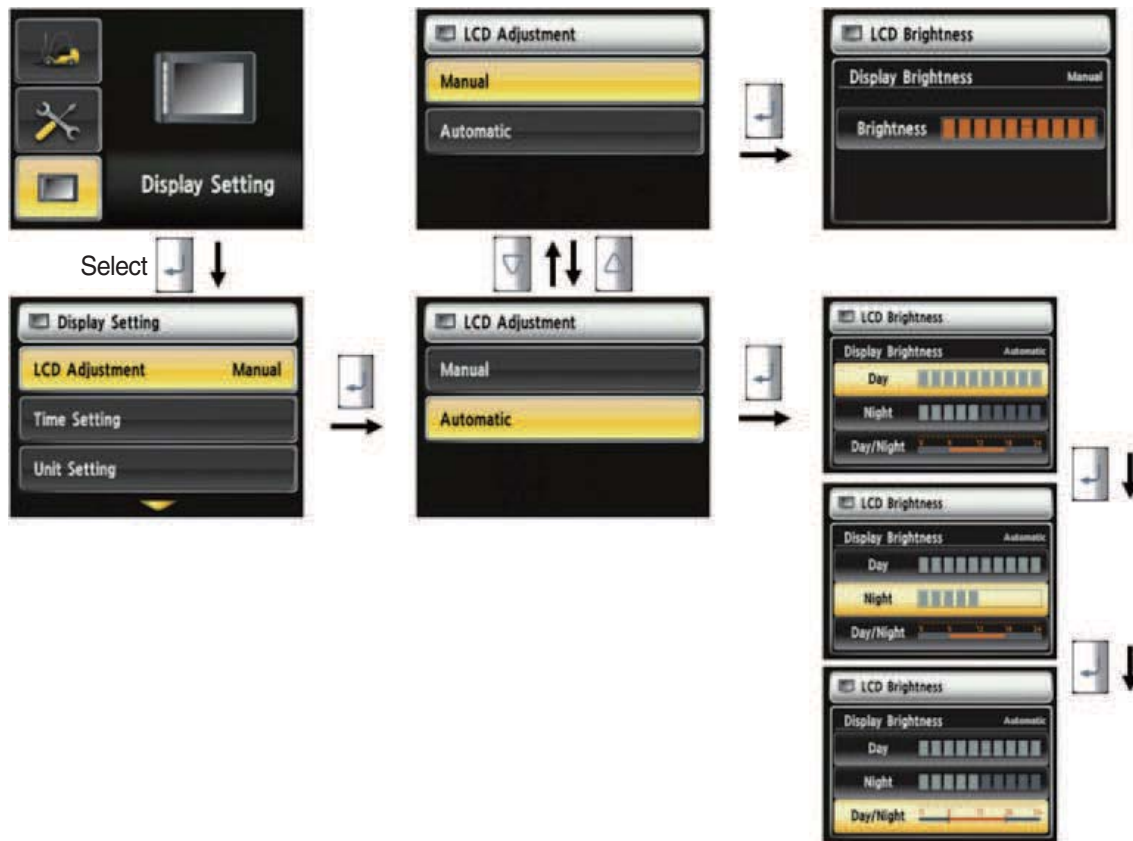


35D9KCL080

How to change "User Password"

1. Device setup > User password set up
2. Change password
3. This function is to allow to change password from default password to user defined password.
4. Password length must be 5~10 digits.
5. Since, if you forget the password, you must request the A/S, do not forget the password.

(15) LCD brightness

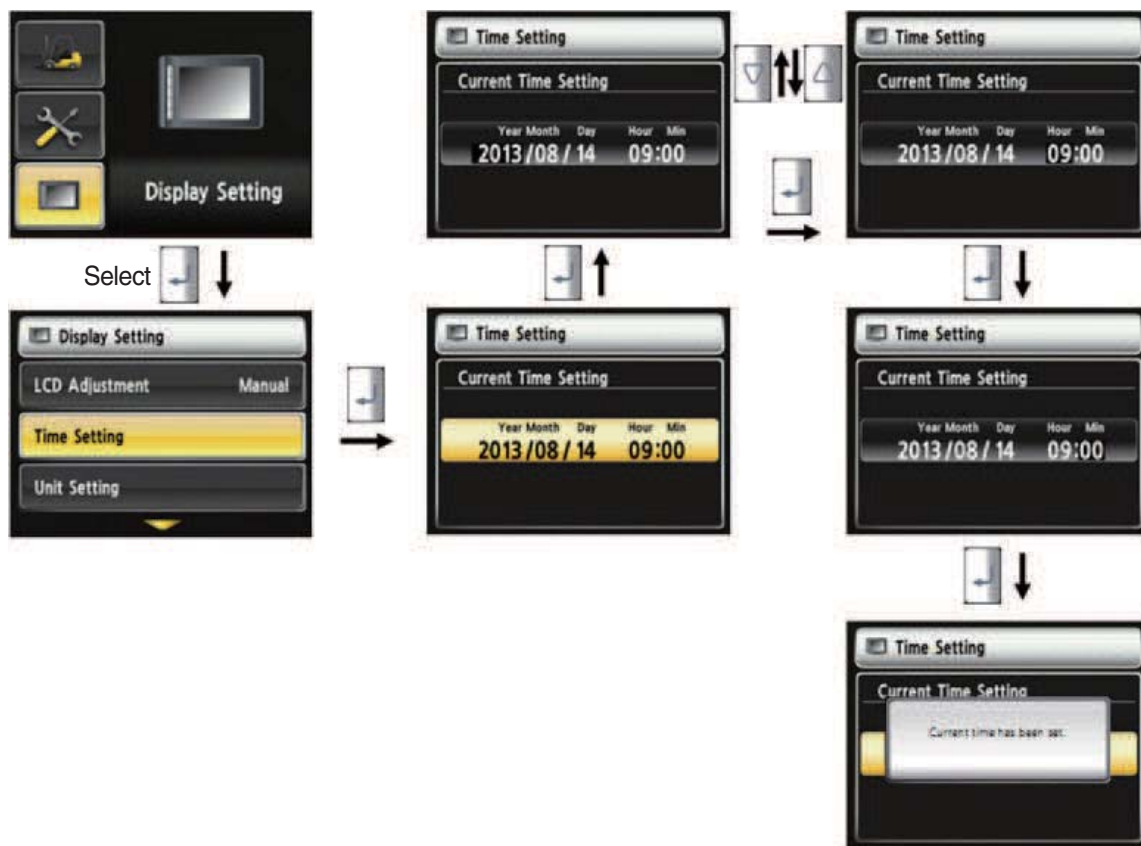


35D9SCL064

How to set LCD brightness

1. Display > LCD brightness
2. LCD brightness has two options. Automatic mode and manual mode.
3. Manual mode always keeps the selected brightness.
4. Daytime brightness : 100%, Nighttime brightness : 50%, Daytime/Nighttime time zone : 06~18

(16) Time setup

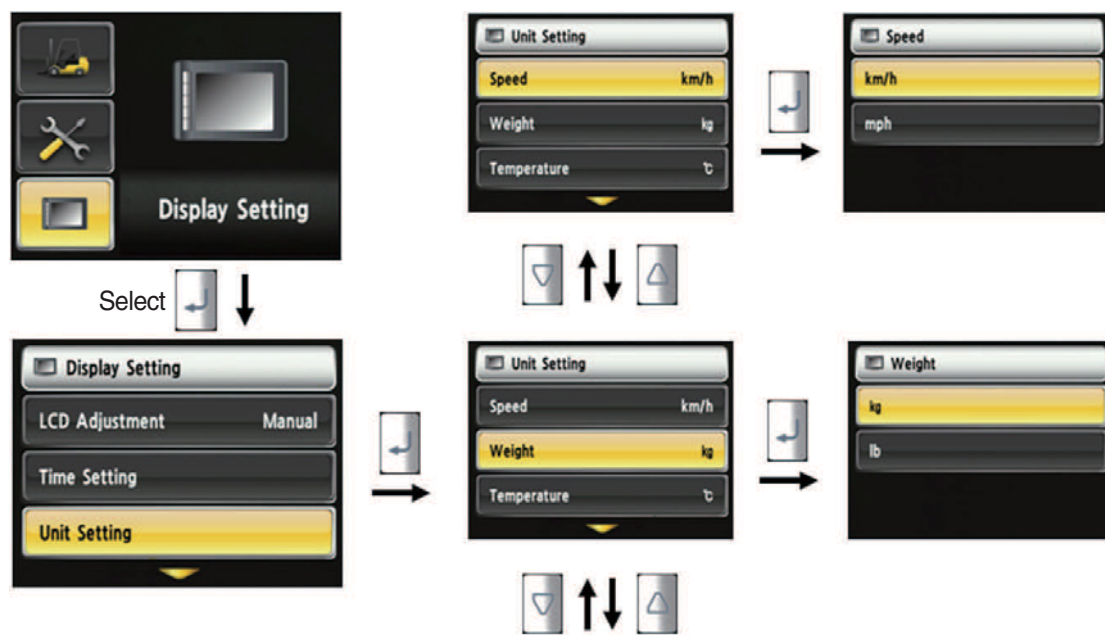


35D9SCL065

How to set current time

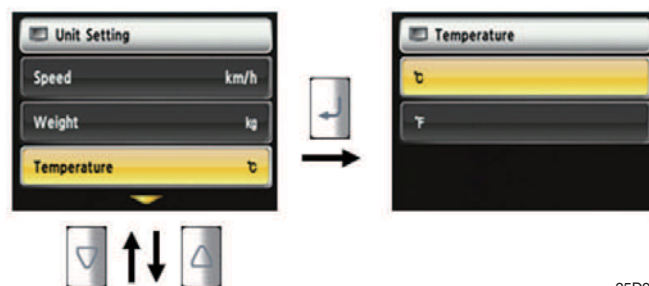
1. Display setup > Time setup
2. Enable to set the time that is displayed in main screen.
3. Set time in following order. (year > month > day > hour > minute)

(17) Unit setup

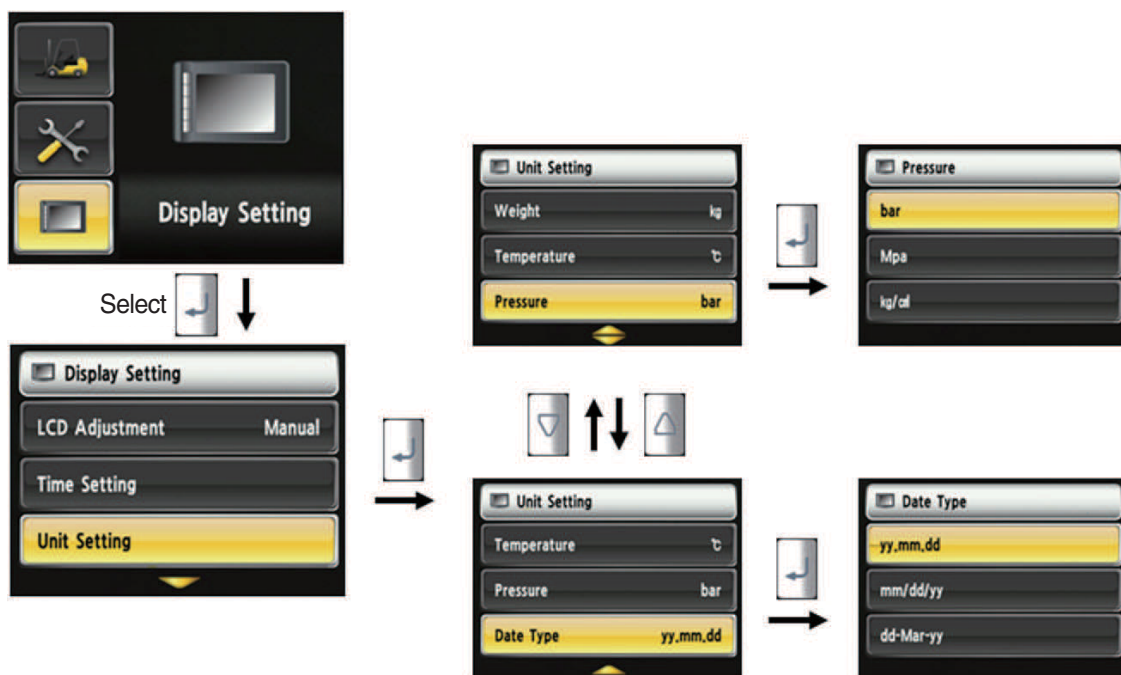


Unit setup

1. Display setup > Unit setup
2. Enable to set all unit values that displayed on screen.
3. It is displayed by calculating as setting unit.

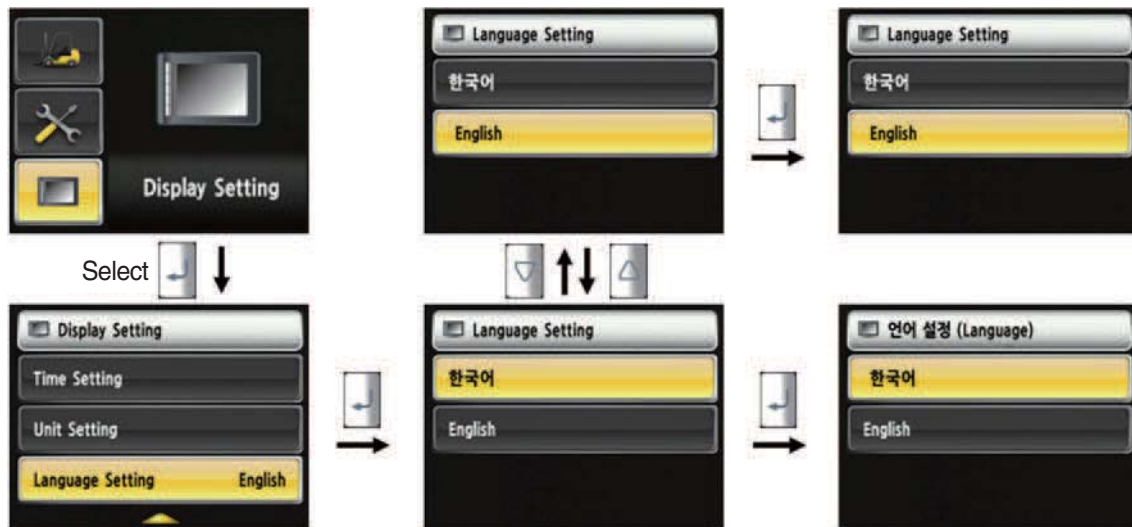


35D9SCL066



35D9SCL067

(18) Language setup



35D9SCL068

· How to set language



1. Display Setup > Language setup
2. Language setup changes the language that is displayed on the screen to language that user defined.
3. Currently, supported language is Korean and English.

(19) A/S Contact Setup

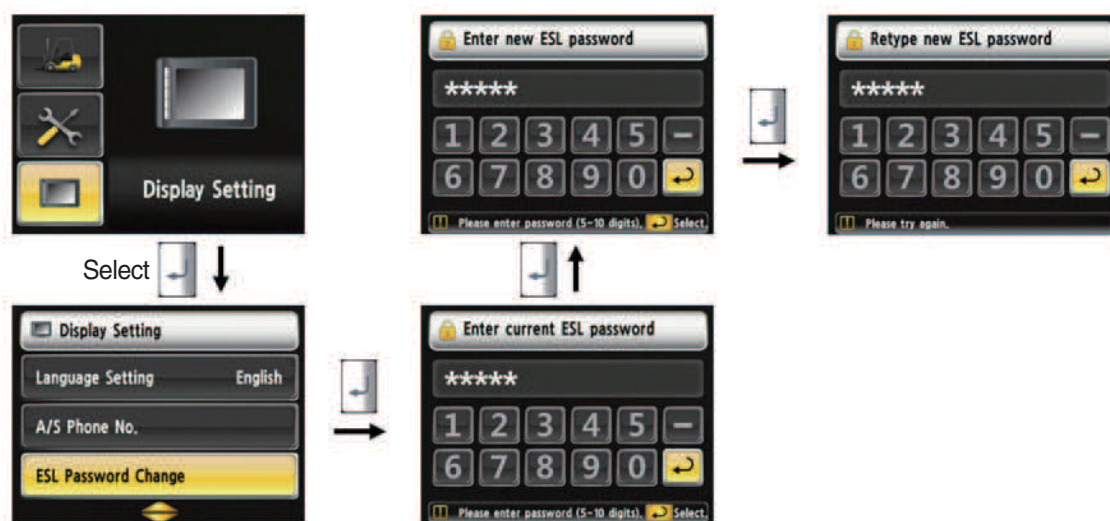


35D9SCL063

· How to set A/S contact

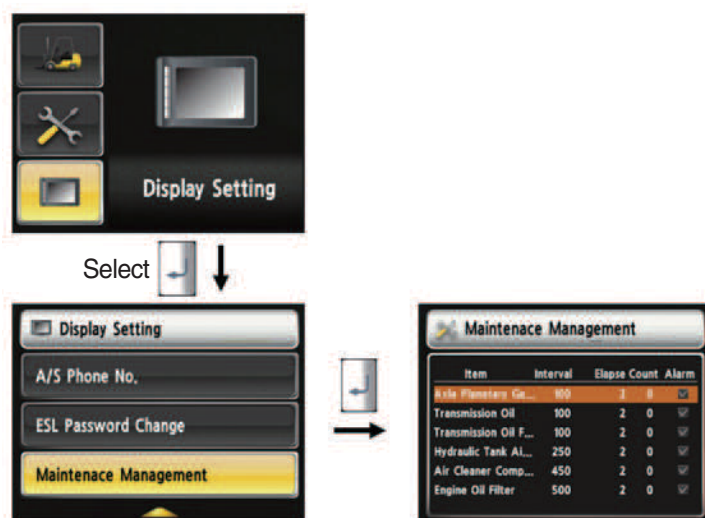
1. Maintenance > A/S Contact
2. User can change the A/S contact when deliver the vehicle from factory.
3. If user moves numeric number using arrow, and press the  select button, number will be displayed on the screen.
4. If user press the  enter key, the value will be set.
5. Contact will be displayed as the modified value.

(20) ESL password change



35D9KCL081











(21) Maintenance management









35D9KCL082

- ※ Only viewing is available in this menu
- ※ Other management options can be accessed from the Maintenance → Maintenance management menu

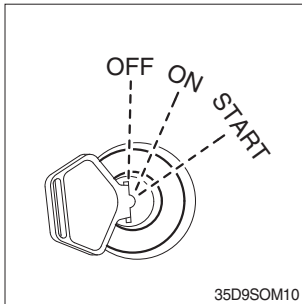
8) CAUSES AND CORRECTION OF CLUSTER WARNING LAMP

S/No.	Warning lamp types	Symbol	Warning and indicator lamp	Causes and correction
1	Engine oil pressure warning		Engine oil pressure warning lamp	Engine oil pressure is low. Please the engine oil refill.
2	Engine warm-up indicator		Engine warm-up indicator lamp	Warm-up will be started.
3	Air cleaner warning		Air cleaner warning lamp	Replace the filter.
4	Water in fuel warning		Water in fuel warning lamp	Please drain the water of water separator.
5	Engine check warning		Engine check warning lamp	Check the failure code of cluster.
6	Engine stop warning		Engine stop warning lamp	Check the failure code of cluster.
7	Fuel warmer indicator		Fuel warmer indicator lamp	warming up the fuel.
8	TM oil temperature warning		TM oil temperature warning lamp	TM oil is over temperature condition.
9	Parking brake indicator lamp		Parking brake indicator lamp	Parking brake is operating.
10	Brake oil level warning		Brake oil level warning lamp	Brake oil level is low. Please refill the brake oil.
11	Battery charging warning		Battery charging warning lamp	Battery is not being charged. Please check alternator and wiring.
12	Tilt lock indicator		Tilt lock indicator lamp	Auto-leveling is the operational status.
13	OPSS indicator		OPPS indicator lamp	OPPS is working : Driving, tilting, lifting locked and vehicle parked.
14	Fuel warning		Fuel warning lamp	Fuel level is low. Please refill the diesel oil.
15	Coolant temperature warning		Engine coolant temperature warning lamp	Engine coolant is over temperature condition.
16	T/M oil pressure warning		Clutch oil pressure warning lamp	Inching operation. Check T/M to find out pressure drop.

S/No.	Warning lamp types	Symbol	Warning and indicator	Causes and correction
17	Communication error warning		Communication error warning lamp	Communication between MCU and ECU has been failed. Check communication line.
18	Communication error warning		Communication error warning lamp	Communication between CLUSTER and MCU has been failed. Check communication line.
19	LH Turn indicator		LH Turning pilot lamp	-
20	RH Turn indicator		RH Turning pilot lamp	-
21	Forward gear		Forward gear indicator lamp	-
22	Reverse gear		Reverse gear indicator lamp	-

5. OPERATING LEVER AND SWITCH

1) START SWITCH



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

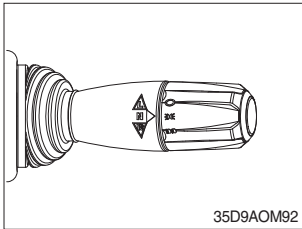
※ Before starting, set gear shift lever at N, and pull parking brake.

- OFF : None of electrical circuits activates.
- ON : All the electrical systems are ON.
- 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) CLEARANCE LAMP SWITCH



(1) Clearance lamp lights up

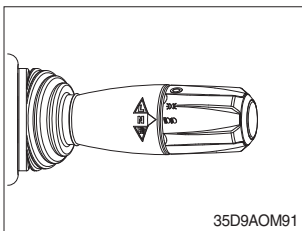
Twist the handle beneath steering wheel and make the notch align to ☸☹.

(2) Clearance lamp goes out

Twist the handle just opposite until the notch being aligned to ☉.

※ When clearance lamp light up, then the Clearance lamp and all panel lamps light up too.

3) HEAD LAMP SWITCH



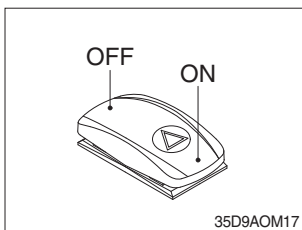
(1) Head lamp lights up

Twist the handle beneath steering wheel and make the notch align to ☸☹.

(2) Head lamp goes out

Twist the handle just the opposite until the notch being aligned to ☉.

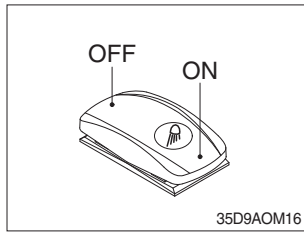
4) HAZARD LAMP SWITCH (option)



(1) Use when emergency situation or while loading operation.

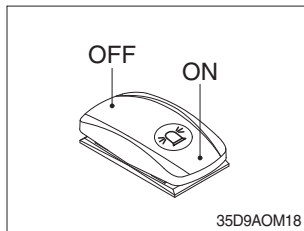
※ If the switch is left on for a long time while the engine does not run, the battery would be dead (discharged).

5) REAR WORK LAMP SWITCH (option)



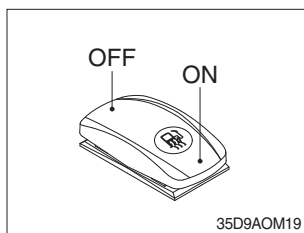
- (1) This switch is used to operate work lamps.
Press this switch to turn on work lamps.

6) BEACON SWITCH (option)



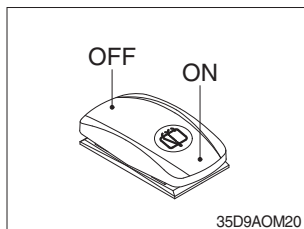
- (1) This switch turn ON the rotary light.

7) FUEL WARMER SWITCH



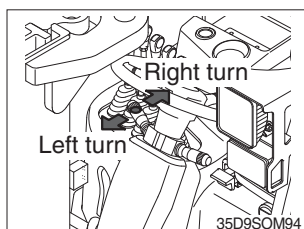
- (1) This switch is used to heat the fuel of pre-heater.

8) FRONT WIPER/WASHER SWITCH (option)



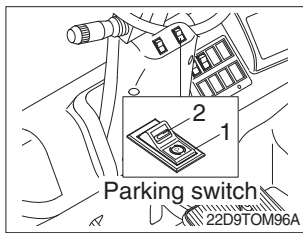
- (1) This switch is used to operate the front wiper and washer by two steps.
- First step : The front wiper operates.
 - Second step : The washer liquid is sprayed and the front wiper is operated only while pressing. If release the switch, return to the first step position.

9) TURN SIGNAL SWITCH



- (1) This lever makes the turn signal lamp flash.
- ① Turning LEFT : Push lever forward
 - ② Turning RIGHT : Pull lever backward
- ※ When the steering wheel is returned to straight, the turn signal is not cancelled. Return the lever to central position by hand.

10) PARKING BRAKE SWITCH



(1) Position 1

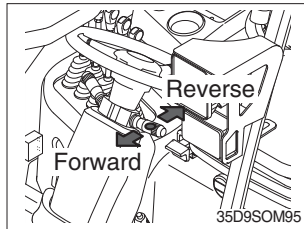
Parking brake is applied and front wheel is locked.

(2) Position 2

Parking brake is released.

※ **Before moving the truck be sure the parking brake is released.**

11) FORWARD-REVERSE LEVER

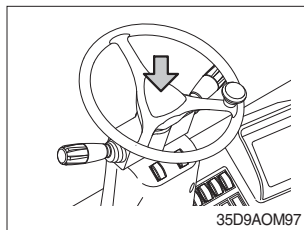


(1) Push lever for forward driving.

(2) Pull lever for reverse driving.

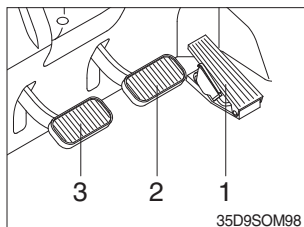
※ **When changing direction or speed, there can be some sound but it's nothing to do with performance.**

12) HORN BUTTON



(1) The horn sounds when the button is pressed.

13) PEDALS



(1) 1 : Accelerator pedal

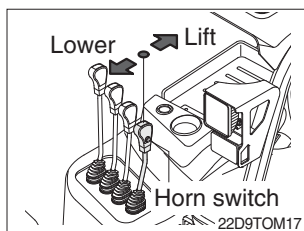
2 : Brake pedal

3 : Inching pedal

※ **The inching pedal is used for fine control of forward and reverse movement when lifting up or putting down loads.**

※ **Do not put your foot on the inching pedal or brake pedal unless using it.**

14) LIFT LEVER



(1) LIFT

PULL the lever BACK to LIFT the load.

(2) LOWER

PUSH the lever FORWARD to LOWER the load.

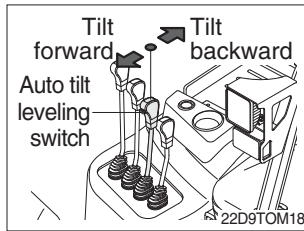
(3) HOLDING

When the lever is released, the lifting or lowering action stops.

※ **Lifting speed is controlled by accelerator pedal.**

Lowering speed is controlled by lever only.

15) TILT LEVER



(1) TILT FORWARD

PUSH the lever FORWARD to tilt mast FORWARD.

(2) TILT BACK

PULL the lever BACK to tilt mast BACKWARD.

(3) HOLDING

When the lever is released, tilting action stops.

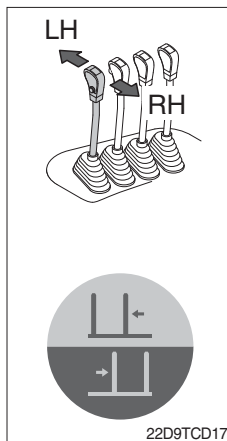
※ Forward and backward tilting speeds are controlled by tilt lever and accelerator pedal.

(4) TILT LOCK (OPTION)

When the lever is operated on pressing tilt switch, auto tilt leveling function activated.

※ Auto tilt leveling : This function is mast tilt angle adjust to 0 degree(reference to truck position). This function have to be used at the engine low idle rpm and stop position. If this is activated at the high idle rpm or driving status, Don't gurantee the mast stop at upright vertical position.

16) LEVER FOR SIDE SHIFT



(1) LH MOVEMENT

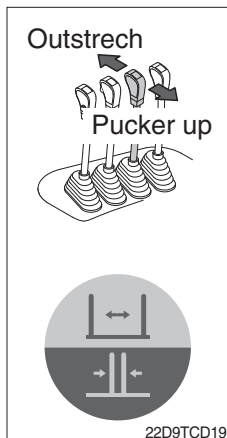
Push the lever forward to move the left hand for the side shift.

(2) RH MOVEMENT

Pull the lever backward to move the right hand for the side shift.

17) LEVER FOR SIDE SHIFT WITH FORK POSITIONER

(1) Fork positioner (synchronizer type)



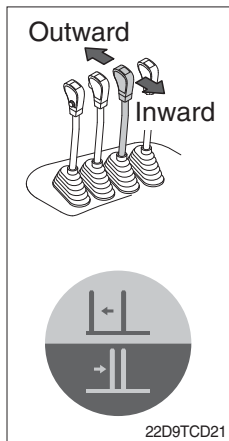
① OUTSTRECH THE FORKS

Push the lever forward to outstrech simultaneously outward of the both forks.

② PUCKER UP THE FORKS

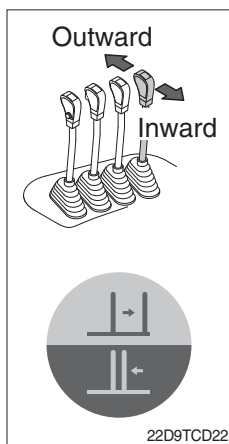
Pull the lever backward to pucker up simultaneously inward of the both forks.

(2) Fork positioner (independent type)



① LH FORK MOVEMENT

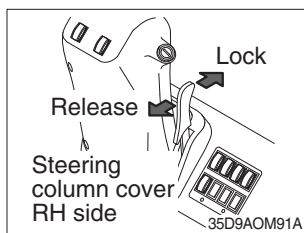
- Push the lever forward to move outward for the LH fork.
- Pull the lever backward to move inward for the LH fork.



② RH FORK MOVEMENT

- Push the lever forward to move outward for the RH fork.
- Pull the lever backward to move inward for the RH fork.

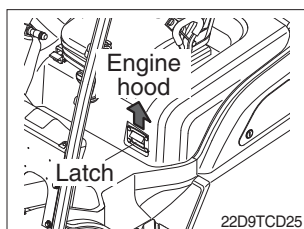
18) STEERING WHEEL LOCK LEVER



- (1) The angle of the steering shell can be adjusted forward and backward.

- ① **Release** : Pull the knob backward.
- ② **Lock** : Release the knob.

19) ENGINE HOOD



- (1) Pull the knob on the dashboard and raise the engine hood to open it.
- (2) Inspection and maintenance can then be carried out easily.