1. GENERAL LOCATIONS

Cabin room top

Cabin RH bottom

35D9HDI3KY01
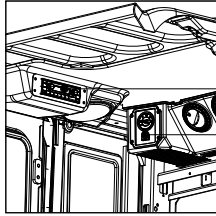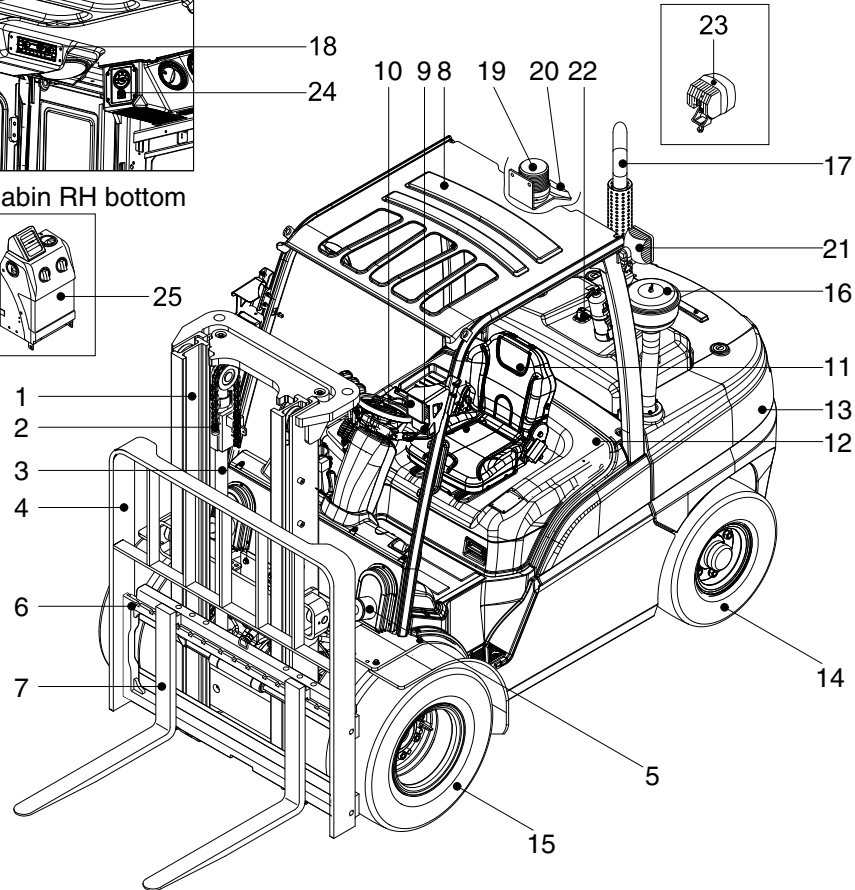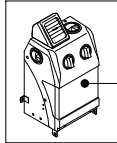
1 Mast	10 Head lamp	19 Beacon lamp (opt)
2 Lift chain	11 Operator's seat	20 Camera (opt)
3 Lift cylinder	12 Bonnet	21 Rear work lamp (opt)
4 Backrest	13 Counterweight	22 Rear handle with horn (opt)
5 Tilt cylinder	14 Rear wheel	23 Blue spot (opt)
6 Lift bracket	15 Front wheel	24 Radio & USB player (opt)
7 Forks	16 Precleaner	25 Heater (opt)
8 Overhead guard	17 Silencer	
9 Turn signal lamp	18 Air conditioner (opt)	

2. NAME PLATE
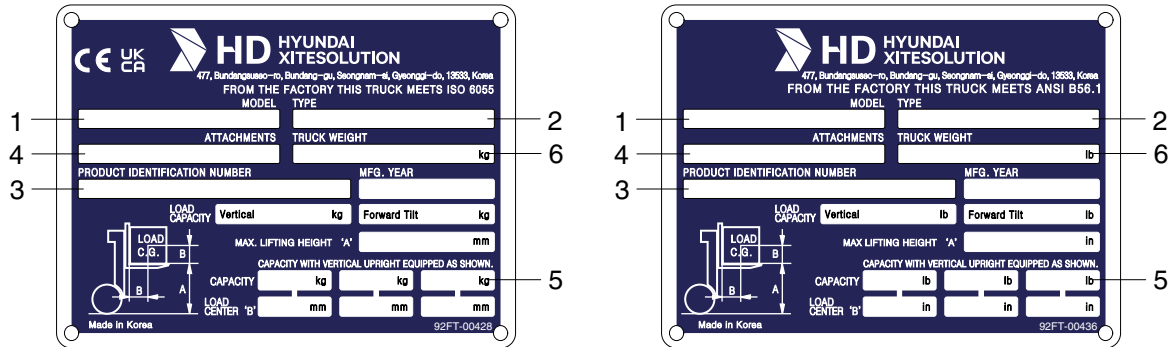
1) TRUCK MODEL NUMBER OR REGISTERED NAME

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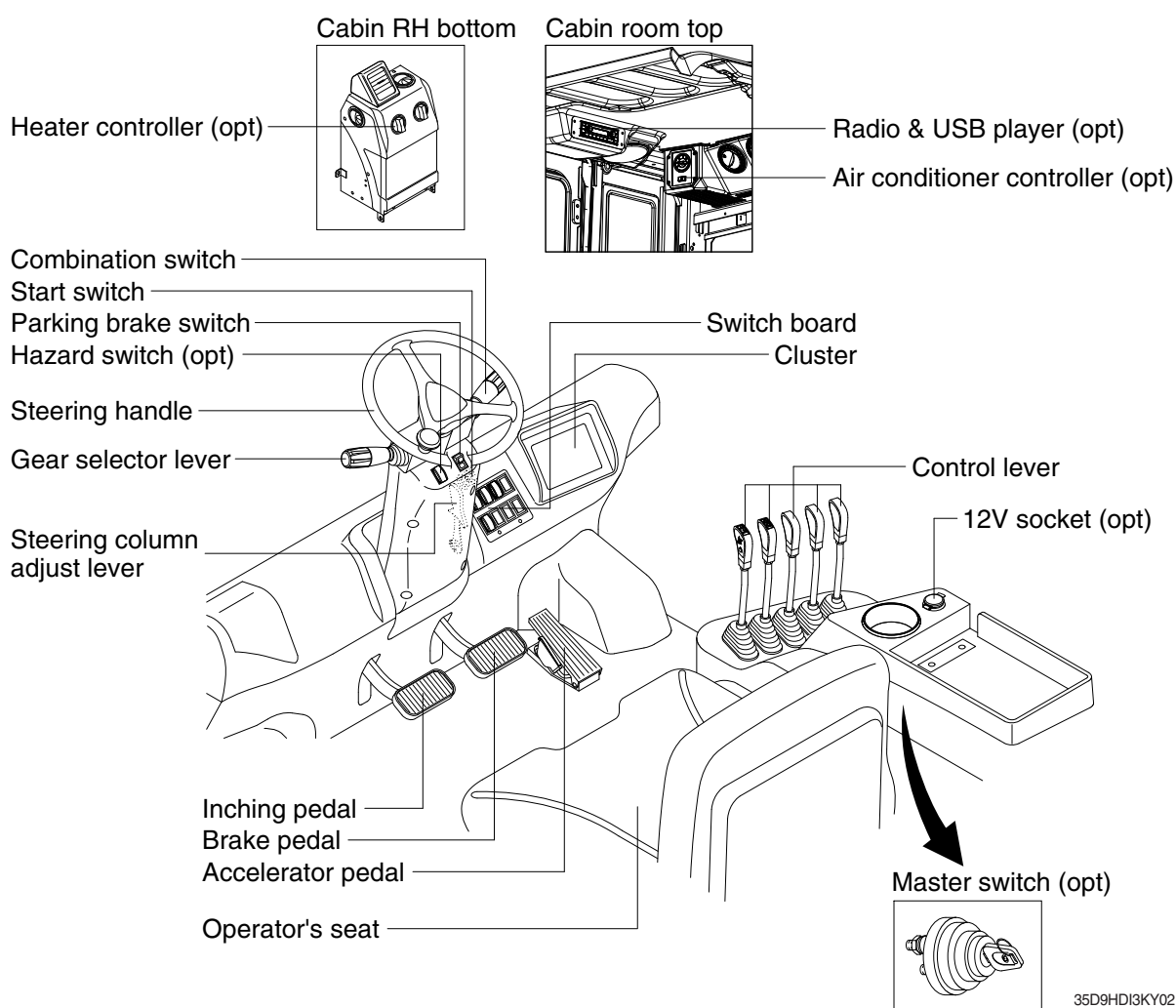
⚠ Before modifications that affect the stability of safety systems are made written approval from HYUNDAI. This is an OSHA requirement. Contact your authorized HYUNDAI dealer for a new nameplate showing the revised capacity.

3. CAB DEVICES

1) The ergonomically designed console box and suspension type seat provide the operator with comfort.

2) ELECTRONIC MONITOR SYSTEM

(1) The centralized electronic monitor system allows the status and conditions of the truck to be monitored at a glance.

(2) It is equipped with a safety warning system for early detection of truck malfunction.

Cabin RH bottom   Cabin room top

Heater controller (opt)

Radio & USB player (opt)

Air conditioner controller (opt)

Combination switch
Start switch
Parking brake switch
Hazard switch (opt)

Switch board
Cluster

Steering handle

Gear selector lever

Control lever

12V socket (opt)

Steering column
adjust lever

Inching pedal
Brake pedal
Accelerator pedal

Master switch (opt)

Operator's seat

35D9HDI3KY02

4. CLUSTER

1) STRUCTURE

Like following figure, cluster is consisted of LCD and buttons. 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.

※ **The cluster installed on this truck does not entirely guarantee the condition of the truck. Daily inspection should be performed according to chapter 7. PLANNED MAINTERNACNE AND LUBRICATION.**

※ **When the cluster provides a warning immediately check the problem, and perform the required action.**

Warning lamps and indicator lamps   Time   LCD

Gauge   Button
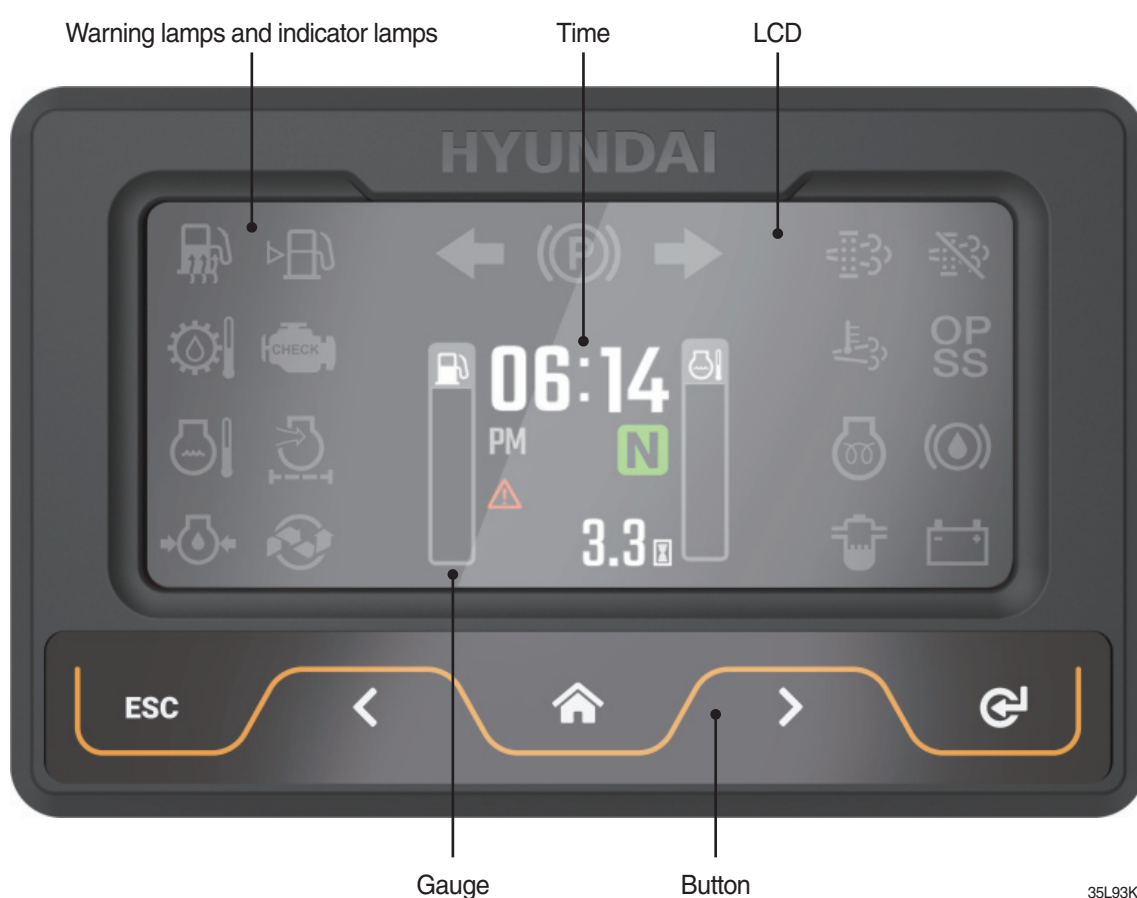
35L93KY03

2) GAUGE

(1) Operation screen

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

35L93KY04

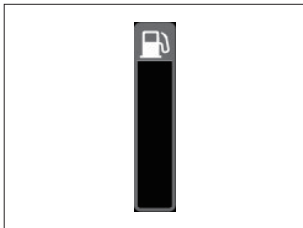|			
1	Speed meter	3	Coolant temperature gauge
2	Fuel gauge	4	Operating time

(2) Speed meter

It indicates the speed of truck and is calibrated in kilometer per hour (km/h) or miles per hour (mph).

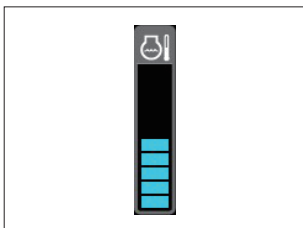※ **Speed unit can be set in the speed unit menu of display set up at page 3-29.**

(3) Fuel gauge

35L93KY05

· Fuel gauge displays the approximate amount of fuel remaining in the fuel tank.
· It shall be obtained fuel as soon as warning lamp ⊳🗗〟 lights on.

(4) Coolant temperature gauge

35L93KY06

· It indicates the temperature of the engine coolant.
  - White zone : 40 ~ 120 ˚C (104 ~ 248 ˚F)
  - Red zone : Over 120 ˚C (248 ˚F)
  - Warning lamp on : Over 115 ˚C (239 ˚F)
· If the gauge display in the red zone, or warning lamp ⊖🌡 comes on, please stop the engine and inspect the coolant system.

(5) Clock

35L93KY07

· It displays the usage time of the truck.

3) WARNING LAMPS

35L93KY08

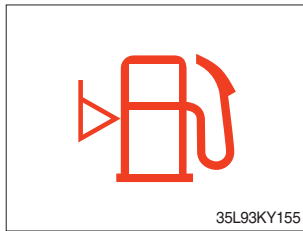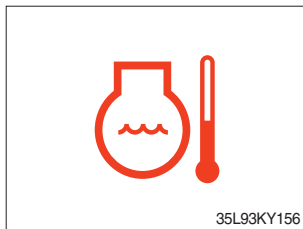| No.	Warning lamp		No.	Warning lamp	
1		Fuel Level warning lamp	8		Transmission oil temperature warning lamp
2		coolant temperature warning lamp	9		Air cleaner fitler warning lamp
3		Engine oil pressure warning lamp	10		DPF regeneration warning lamp (null)
4		Water in fuel warning lamp	11		DPF inhibit warning lamp (null)
5	CHECK	Engine check warning lamp	12		DPF high temperature warning lamp (null)
6		Battery charge warning lamp	13		Brake oil level warning lamp
7	COMM ERROR	Communication error warning lamp			

※ Warning and indicator lamp will display only items that were set as ON, and all warning and indicator will be displayed in the left or right side of screen. And directional indicator lamp will display at the center.
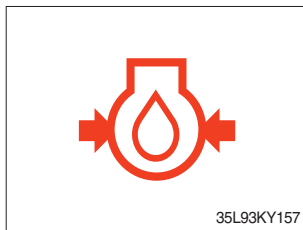
(1) Fuel level warning lamp

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

35L93KY155

(2) Coolant temperature warning lamp

- · Coolant temperature warning will lit up when temperature is over 115 ℃ (239 ℉).
- · If the warning lamp is on continuously, please inspect the coolant system.

35L93KY156

(3) Engine oil pressure warning lamp

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

35L93KY157

(4) Engine check warning lamp
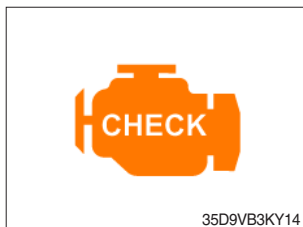
- · If the lamp ligts ON, check the engine and a failure code of cluster. If you have a proper action, the lamp will turn off within 4 times of restart.
- · Check the failure code of cluster.

35D9VB3KY14

(5) Battery charge warning lamp
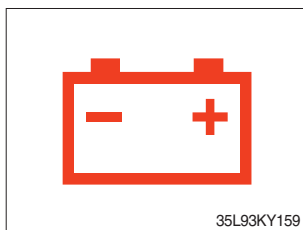
- · This warning lamp is lit up when battery charging voltage is low.
- · Please inspect the battery charging circuit if the warning lamp lights up.

35L93KY159

(6) Communication error warning lamp
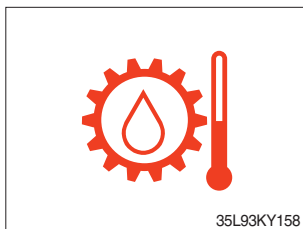

35L93KY09

· This warning lamp will be lit up if the communication between MCU and ECU is fail.
· Please check the communication line if the warning lamp is lit up.
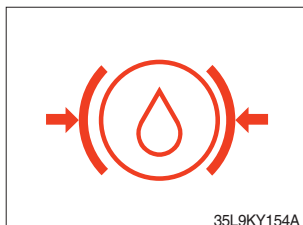
(7) Transmission oil temperature warning lamp

35L93KY158

· Transmission oil temperature warning lamp will be lit up and flashing when temperature is 120 ˚C (248 ˚F) or higher.
· When this lamp lights up during operation, stop the engine and check the truck.

(8) Air cleaner filter warning lamp

35L93KY10
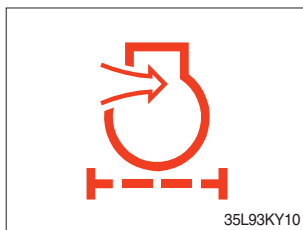
· When the filter of the air cleaner that purifies the air supplied to the engine is clogged and a vacuum is generated inside, the switch is activated and turned on.
· If the lamp is on, check the filter and clean or replace it.

(9) Brake oil level warning lamp

35L9KY154A

· This warning lamp wil be displayed if brake oil is low of reservoir tank.
· Please refill immediately if the lamp lights up.

4) INDICATOR LAMPS

35L93KY11

No.	Indicator lamp		No.	Indicator lamp	
1		Consumable replacement indicator lamp	5	**OP SS**	OPSS indicator lamp
2		Engine warming up indicator lamp	6	**N**	Driving indicator lamp
3		Fuel warmer indicator lamp	7	**F1 F2**	
4	**(P)**	Parking brake indicator lamp	8		

※ Warning and indicator lamp will display only items that were set as ON, and all warning and indicator will be displayed in the left or right side of screen. And directional indicator lamp will display at the center.

(1) Engine warming up indicator lamp

35D9VB3KY25

- · The truck senses the engine coolant temperature and warms up engine when needed.
- · When it is happening, the indicator lamp is ON.

(2) Fuel warmer indicator lamp

35D9VB3KY26

- · Light up when fuel warmer is operating. (Controlled by ECU)

(3) Consumable replacement indicator lamp

35D9VB3KY27

- · Lights up if consumables which must be replaced are exist.
- · The indicator lamp will light up only 3 minutes since start switch ON, and then light OFF.
- · Please check the consumables management list in maintenance menu.

(4) Parking brake indicator lamp

35D9VB3KY28

- · Lights up when parking brake is ON.

(5) OPSS indicator lamp

OP SS

35D9VB3KY30

- · Lights up if driver leave seat during operation.
- · Truck driving and/or mast control will be blocked if lamp is lit up.
- ※ **Please refer to page 0-8 for details.**

(6) Driving indicator lamp

① Neutral

35L93KY12

· This indicator lamp will be lit up when direction lever is located in neutral.
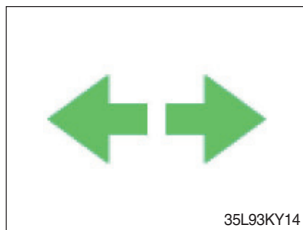
② Forward

35L93KY13

· This indicator lamp is displayed if the forward gear is selected.
· First gear will be displayed as F_1 , and second gear will be displayed as F_2 .

③ Reverse

35L93KY15

· This indicator lamp is displayed if the reverse gear is selected.
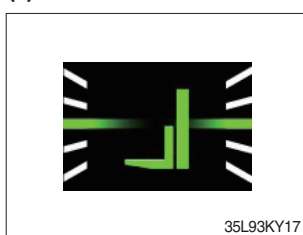
④ Right or left turning indicator lamp

35L93KY14

· This indicator lamp will flash if turns on the right or left turn signal.

5) INFORMATION DISPLAY (option)

Mast front/rear tilt

Load weight

Truck front/rear tilt

35L93KY16

(1) Mast front/rear tilt

35L93KY17

· Display the real time tilt of mast.

(2) Truck front/rear tilt

35L93KY18

· Display the front/rear tilt of truck in real time.
· The red warning symbol turned on condition.
  - Stop : Tilt angle is higher than 2.3°
  - Driving : Tilt angle is higher than 10.2°

(3) Load weight

35L93KY19

· Displays the weight of the cargo.
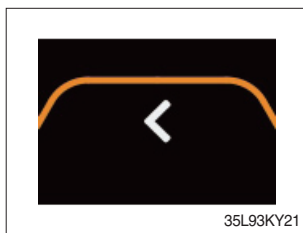· If the weight sensor is not attached, it is dimmed

6) BUTTONS

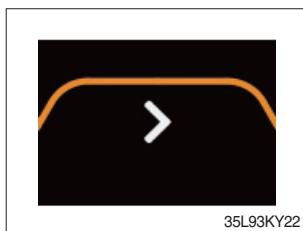### (1) Enter (select)

35L93KY20

· This switch is used to enter into the menu or to select.
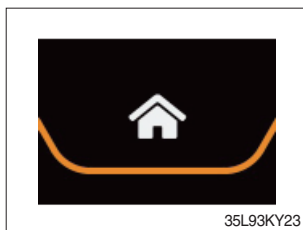
(2) UP/Left

35L93KY21

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

(3) Down/Right

35L93KY22

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

(4) Menu or Home

35L93KY23

· This switch is used to enter into the menu or return to home.
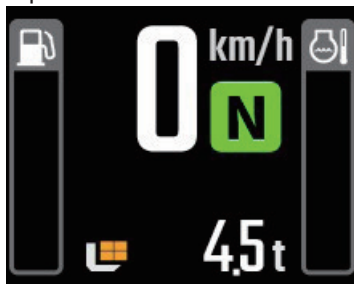
(5) Cancel (ESC)

35L93KY24

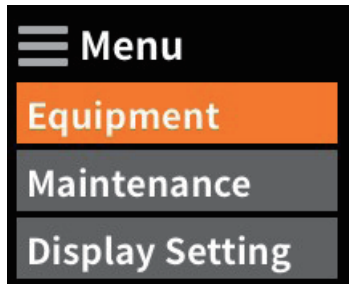· This switch is used to cancel or move to upper menu.

7) MAIN MENU

(1) Structure

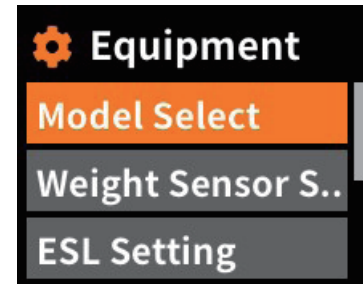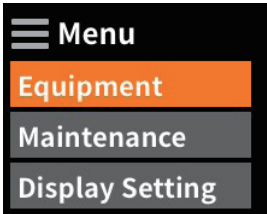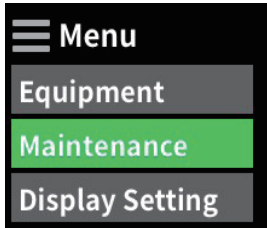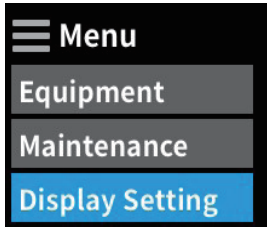A menu consists of main menu and sub-menu.

Operation Screen

Main Menu Screen

Sub-Menu Screen

35L93KY25

35L93KY26

35L93KY27

| No.	Main menu	Sub menu	Explanation

1		· Model select
		· Tilt setting (option)
		· Weight sensor setting (option)
		
		· ESL setting
		· DCSR setting
		
		· HAC setting
		· Vehicle max speed limit
		· Clutch protection alarm
		· Zero start setting
		· Auto shift setting
		· Information
			· Diesel, LPG
			· Vehicle tilt Initialize
			· Enter the cylinder cross section area,
			  Adjust load weight, Weight display setup
			· ESL setting, Engine start limit, Delay time
			· DCSR on, Cut-off driving speed,
			  Restore driving speed
			
			· Maximum speed limitation
			
			· Speed setting, Overlap time setting
			· Cluster-CI information

2		· Failure History · Maintenance management · I/O information · User password change	· Engine failure history Change oil and filter replacement cycle · Analog Input, Digital input/output
3		· Time Setting · LCD brightness adjustment · LED brightness adjustment · Unit Setting · Language · ESL password change	· Date, Time setting · Speed, Weight, Temperature, Pressure, Date

(2) Equipment menu

① Model select (a required setting)

· How to check the Model Select (check under the start switch ON status)

· Selection will be canceled if pressed the cancel button.

※ **This is a required setting. Some functions may not be worked properly if you do not select the model.**
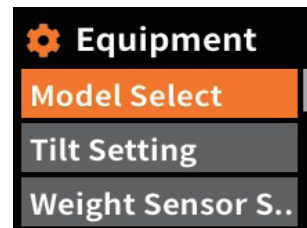
1. Equipment
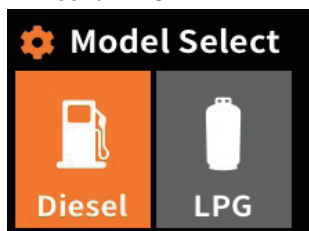

35L93KY26
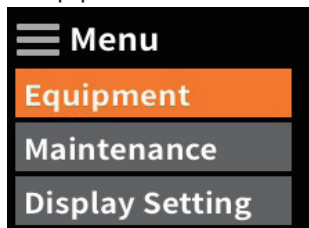
Enter to equipment menu.

2. Password

35L93KY28

Enter the password.
Default password is "00000".
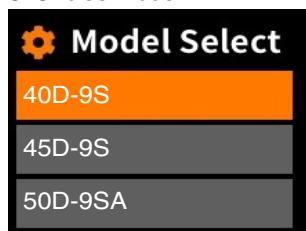Password length must be
5~10 digits.

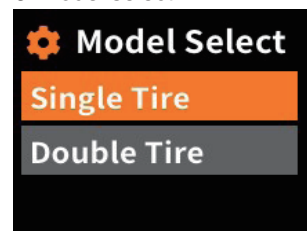3. Model select

35L93KY29

Choose model select

4. Disel or LPG

35D9S3KY30

Please select the fuel type.

5. Choise model

35D9S3KY31

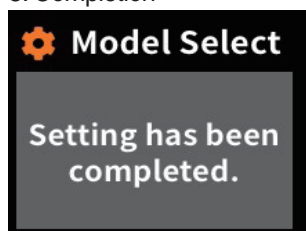Select the your model.

6. Model select

35L93KY32

Select the your tire.

7. Model select

35D9S3KY33
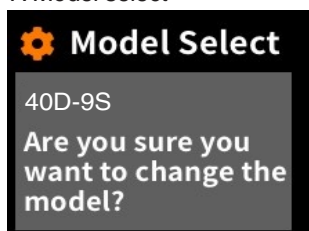
Change on select button.

8. Completion

35L93KY34

※ **If you want to move back to previous page, please enter ESC button in any stage.**

※ **It shall be selected right model to prevent malfunction of truck.**

② **Tilt setting** (option, as required setting)

How to check "Tilt reset" (Check under the start switch ON status.)

※ **The tilt sensor has already been initialized when deliver the truck from factory.**

※ **Tilt reset if the tilt sensor figure or truck tilt is not horizontal in the flatland.**

⚠ **You must set tilt in the flatland since this is a horizontal set up.**
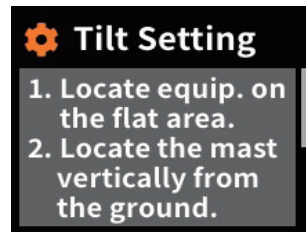
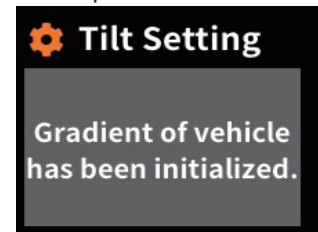1. Tilt setting

35L93KY35

Choose tilt reset.

2. Instruction

35L93KY36

Follow the instruction
showing in the screen.

3. Completion

35L93KY37

Setting has been completed.

a. **Check functions**

(a) Check the real time operation by changing angles of truck tilt and mast tilt.

(b) **Auto-leveling**

ⓐ Tilt mast inward or outward.

ⓑ Start tilting mast toward its vertical position, pushing the auto tilt leveling switch.

ⓒ Check if the mast stops traveling when it becomes vertical to ground.

(c) **Front/rear tilt warning** (red)

· Stop : $\pm 2.3°$ (1.5 tons ~ 5.0 tons)

· Driving : $\pm 10.2°$ (1.5 tons ~ 5.0 tons)

(d) **Left/right tilt warning** (red)

· Stop : $\pm 3.4°$ (1.5 tons~5.0 tons)

· Driving

| Truck weight	Warning angles (Red)
1.5 tons ~ 2.0 tons	$\pm 20.3°$
2.2 tons ~ 3.3 tons	$\pm 20.8°$
3.5 tons ~ 4.5 tons	$\pm 24.2°$
5.0 tons	$\pm 28.0°$

③ **Weight sensor set up** (option)

- · How to check "the weight sensor set up" (Check under the start switch ON status)
- · There are three settings for weight sensor. (unload, load, reset)

※ **The weight sensor has already been set when deliver the truck from factory.**

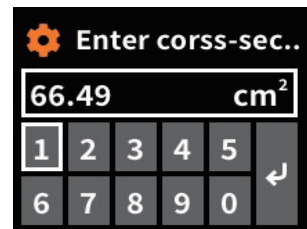### a. Setting cylinder cross section

1. Weight sensor setting

35L93KY38
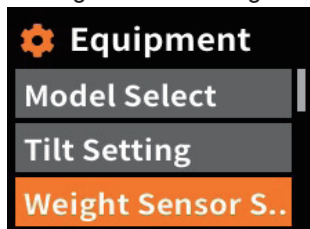
Choose weight sensor setting.
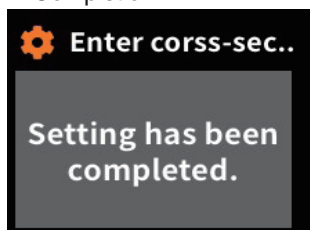
2. Cylinder cross-section

35L93KY39

Choose Cylinder Cross-Section. If Cylinder Cross-Section is already set up, setting value is shown in initial screen.

3. Value

35L93KY40

Enter cylinder cross-section value using up/down buttons.

4. Completion

35L93KY41

Setting has been completed.

※ Cross-section value

Model	V-mast	TF-mast	TS-mast	VF-mast
35/40/45D-9S	66.97	86.59	88.36	86.59
50D-9SA	76.97	86.59	88.36	86.59

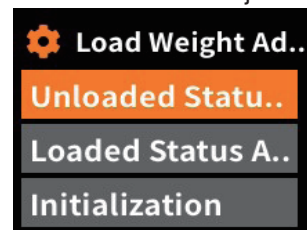### b. Unloaded status adjustment

1. Weight sensor setting

35L93KY38

Choose weight sensor setting and enter.

2. Load weight adjust

35L93KY42

Choose load weight adjust and enter.

3. Unloaded status adjustment
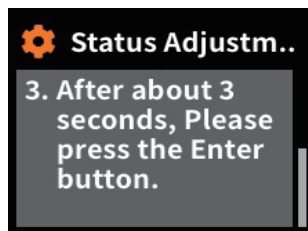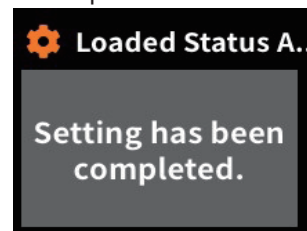

35L93KY43

Choose unloaded status adjustment and enter.

4. Instruction

35L93KY44

Follow the instruction showing in the screen. After finish setting and press enter button
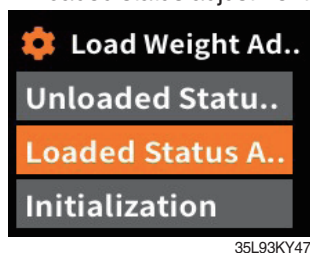
5. Completion

35L93KY45

35L93KY46
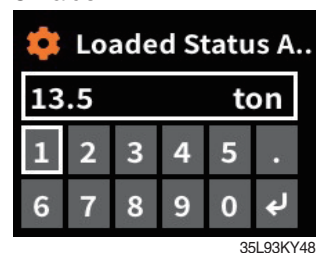
c. Loaded status adjustment

1. Weight sensor setting

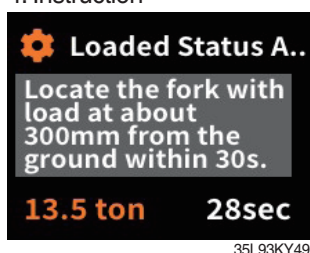Choose weight sensor setting and enter.

2. Loaded status adjustment
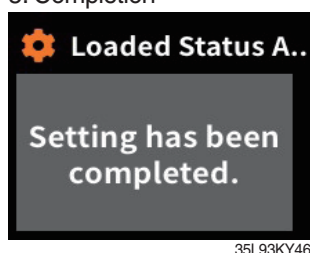
Choose loaded status adjustment and enter.

3. Value

Enter load weight using up/down buttons.

4. Instruction

Follow the instruction showing in the screen. After finish setting and press enter button. Please proceed the operation within 30 seconds.

5. Completion

※ Must be prepared to lift up by locating the load on the fork before enter the weight.

※ MCU recognizes the weight automatically by detecting the pressure change.

※ Must be performed only the load lift task within 30 seconds. If it is not completed within 30 seconds, this process will be canceled automatically.

※ 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.

d. Weight sensor reset

Initialize the all values of "No-Load Adjustment" and "Local Adjustment" that were entered previously. (Cylinder cross-sectional area is not initialized.)
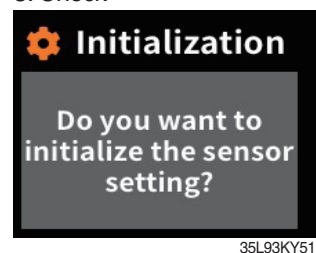
1. Weight sensor setting
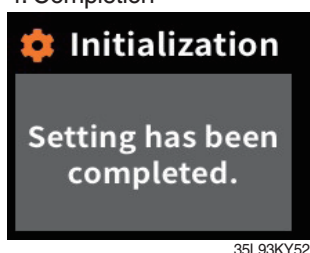
Choose weight sensor setting and enter.

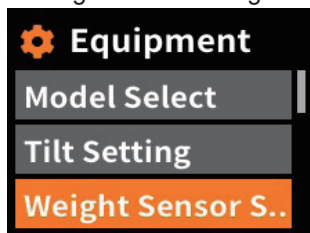2. Reset

Enter to reset.

3. Check

Press the enter button.

4. Completion

e. Weight display

Enable to adjust the digit-number of weight of main screen. Weight will be displayed as 0.5 tons if set as 100 kg unit. Weight will be displayed as 0.52 tons if set as 10 kg unit.

1. Weight sensor setting

35L93KY38

Choose weight sensor setting and enter.
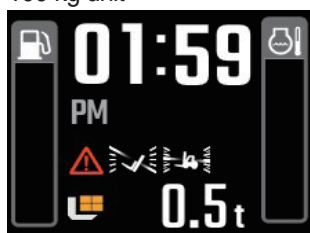
2. Weight display setting
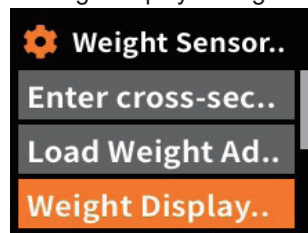
35L93KY53

Enter to weight display setting.

3. Unit

35L93KY54

Choose unit what you want to use.

100 kg unit

35L93KY55

10 kg unit

35L93KY56

f. Overload alarm
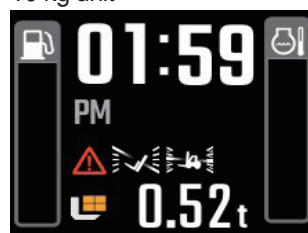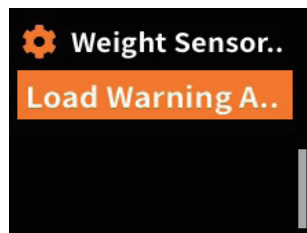
1. Weight sensor setting
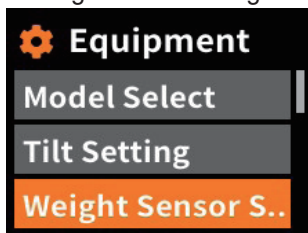
35L93KY38

Choose weight sensor setting and enter.
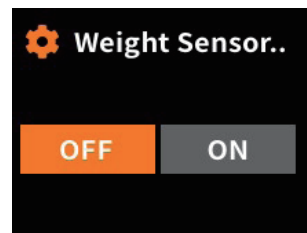
2. Overload alarm

35L93KY57

Enter to overload alarm.

3. Select

35L93KY58

Select on/off.

④ **ESL setting** (Startup control setting, standard) : **Default is "inactive"**

1. ESL setting

35L93KY59
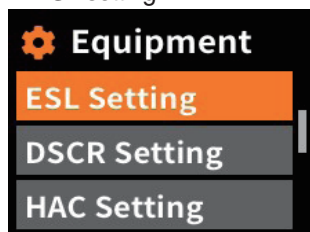
Choose ESL setting and enter.

2. Inactive

35L93KY60
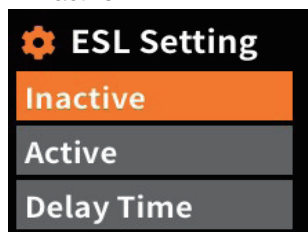
Choose inactive.

3. Change setting

35L93KY61
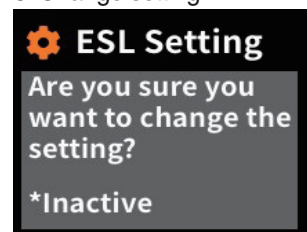
If you want to change setting, press enter button.

2-1. Active

35L93KY63

Choose active.

3-1. Change setting

35L93KY64

If you want to change setting, press enter button.

4. Completion

35L93KY62
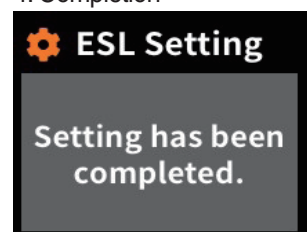
a. Check functions

(a) Set the active mode can be set when engine is starting.

(b) Upon start switch ON, the password screen pops up and starting is prohibited until the right. password has been offered. (But, driver still can start the truck if starts within 10 seconds from start switch OFF)

(c) Set the mode as 5 min of delay time and start switch OFF.

(d) check if the truck can start within 5 min and start switch OFF.

(e) check if the truck requests password after 5 min.

※ **Start switch ON screen (when startup control mode is ON)**

35L93KY65

b. Delay time

1. ESL setting

35L93KY66

Choose delay time.

2. Select value

35L93KY67
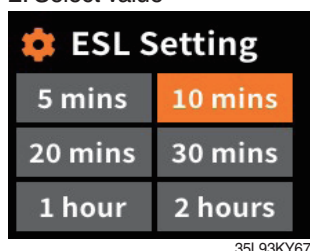
Select value you want to apply.

3. Change setting

35L93KY68
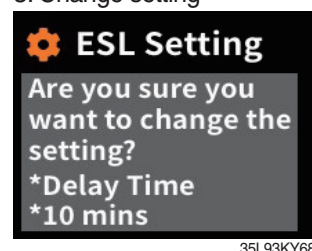
If you are sure to change ESL, press enter.

6. Completion

35L93KY62
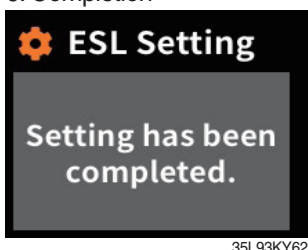
⑤ **DCSR setting** (Direction Change Shock Relief)

Set the mode ON. Below is how this feature functions.

· 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 truck reaches the restore drive speed.

· The car changes direction and starts to travel.

※ **Restore drive speed cannot be set over the block drive speed.**

1. DCSR setting
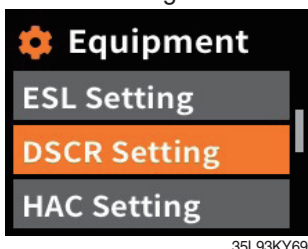
35L93KY69

Choose DCSR setting and enter.

3. Mode
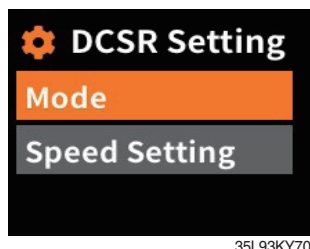
35L93KY70

Select mode.

4. Setting
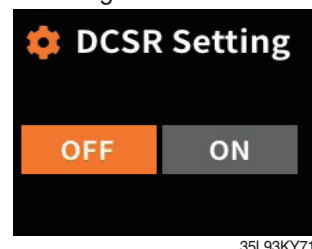
35L93KY71

Select on/off.

5. Completion

35L93KY72

6. Speed set (auto)
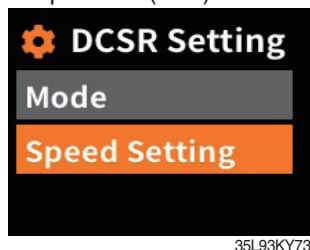
35L93KY73

If you want to change speed set, enter speed setting.

6. Set road speed

35L93KY74

⑥ Vehicle maximum speed limit

1. Vehicle max speed limit

35L93KY78

Choose vehicle max speed limit.

2. Mode
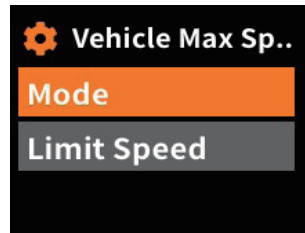
35L93KY79

Enter to mode function.
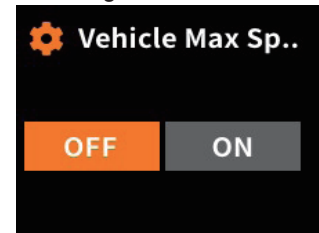
3. Setting

35L93KY80

Select on/off.

4. Speed limit
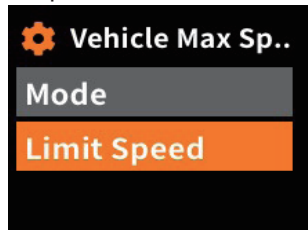
35L93KY81

Enter to limit speed menu.

5. Setting limit speed
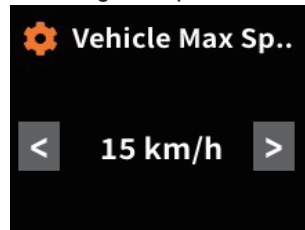
35L93KY82

Set limit speed.

6. Completion
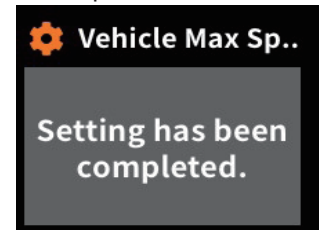
35L93KY83

· Driving speed < 10 km/h

35L93KY84

· Driving speed ≥ 10 km/h

35L93KY85

⑦ Clutch protection alarm

1. Clutch protection alarm

35L93KY86
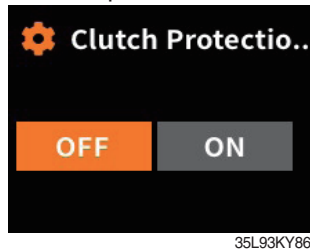
Choose clutch protection alarm.

2. Setting

35L93KY87

Select on/off.

3. Completion

35L93KY88
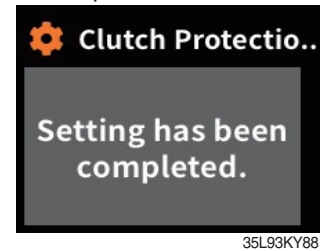
⑧ Zero start setting

1. Zero start setting

35L93KY89

Choose zero start setting.

2. Mode

35L93KY90

Enter to mode function.

3. Setting

35L93KY91
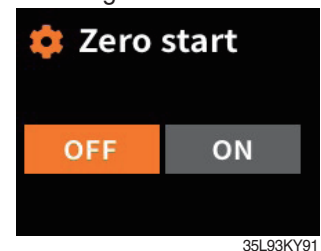
Select on/off.

4. Completion
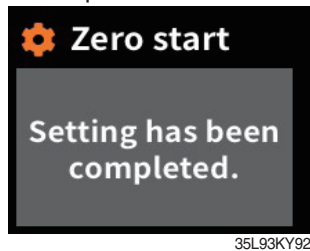
35L93KY92

⑨ Auto shift setting

1. Auto shift setting

35L93KY93

Choose auto shift setting.

2. Mode

35L93KY94
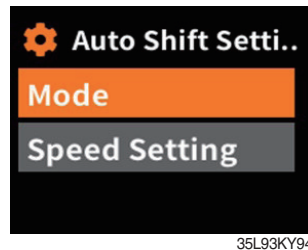
Enter to mode function.

3. Setting
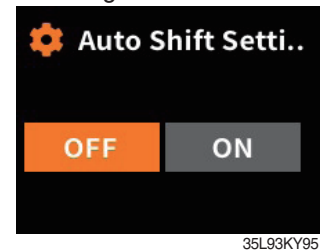
35L93KY95

Select on/off.
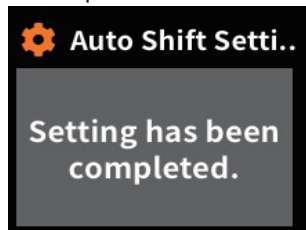
4. Completion

35L93KY96

5. Speed setting
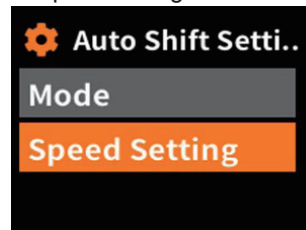
35L93KY97

Enter to speed setting.

6. Gear shift setting
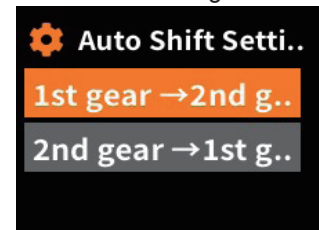
35L93KY98

Select the desired change value.

7. Speed setting
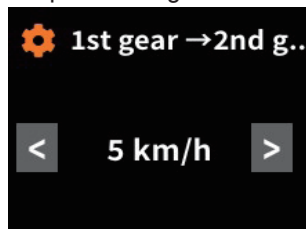
35L93KY99

8. Completion
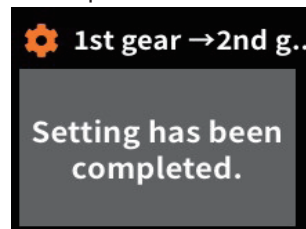
35L93KY100

⑩ Cluset information

1. Information
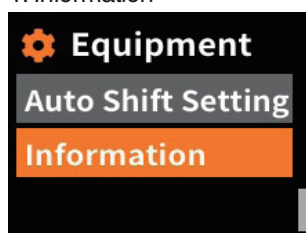
35L93KY101

Choose information.

2. Cluster
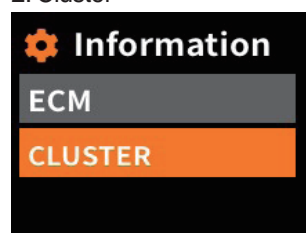
35L93KY102

Enter to cluster.

3. Checking.
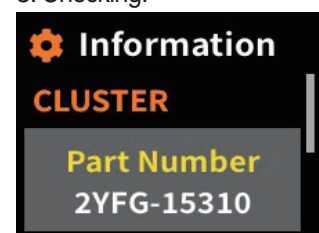
35L93KY103
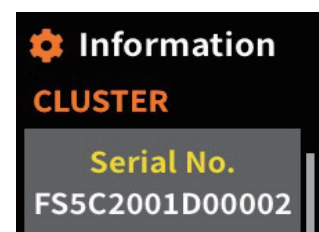
35L93KY104

(3) Maintenace

① Engine failure history

1. Maintenance

35L93KY105
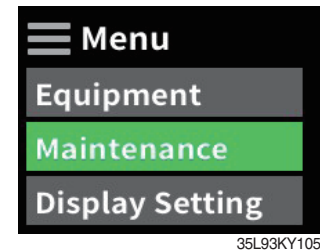
Enter to maintenance menu.

2. Password

35L93KY106

Enter the password.

3. Failure history

35L93KY107

Choose failure history.

a. Check active fault

4. Active fault

35L93KY108

Enter to active fault.

5. Check active fault

35L93KY109

b. Check logged fault

4. Logged fault

35L93KY110

Enter to logged fault.

5. Check Logged fault

35L93KY111

c. Delete logged fault

4. Delete logged fault

35L93KY112
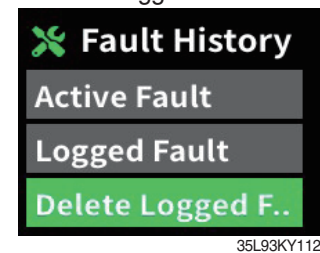
Enter to delete logged fault.

5. Check delete logged fault

35L93KY113
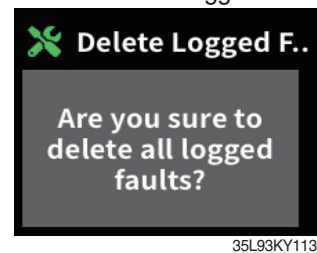
② Maintenance management

· If the consumables replacement cycle has been passed, alarm will be displayed as ON.
· Press the "Replacement" if replaced the consumables.
· Information about recent replacement (Max. 9) will be displayed.
· If you want to change the cycle, please press the "Change cycle" button.

1. Maintenance mangement
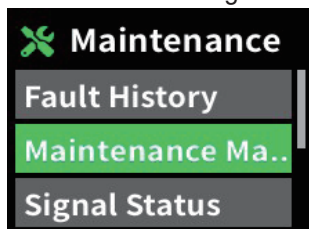
35L93KY114

Choose maintenance management and enter.

2. Select replacement item.
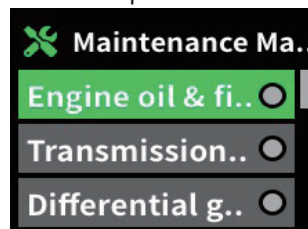
35L93KY115

Select the replace item.

3. Check
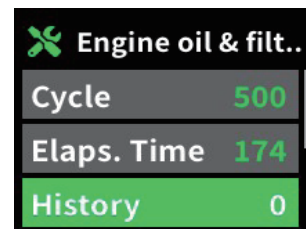
35L93KY116

Select replacement using Up/Down button and press enter button.

4. Replacement
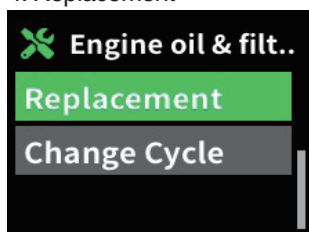
35L93KY117

If you are sure to replace supplies, press enter buttton.

5. Select the item.
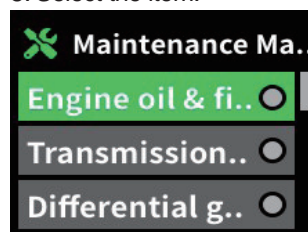
35L93KY118

Select the item you want to change maintenance interval.

6. Change
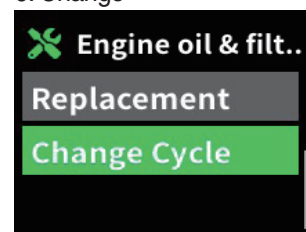
35L93KY119

Select using Up/Down button and press enter button.

7. Setting
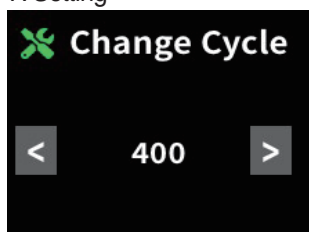
35L93KY120

Set the item value using Up/Down button and press enter button

8. Completion
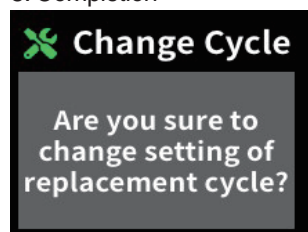
35L93KY121

③ I/O information

a. Analog input

1. I/O information

35L93KY122
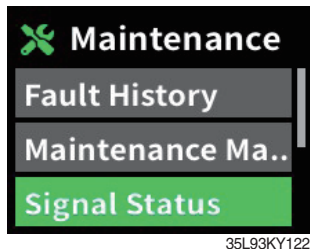
Choose I/O information.

2. Analog input

35L93KY123
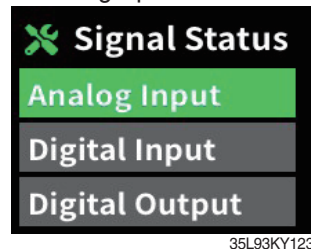
Eneter to analog input.

3. Analog signal list

35L93KY124

35L93KY125
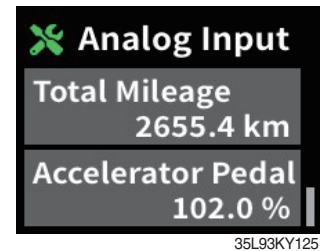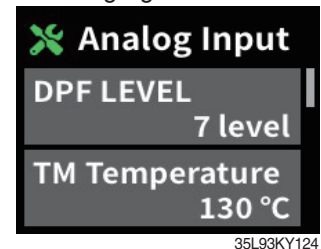
You can check the analog
signal list.

b. Digital input

1. Digital input

35L93KY126
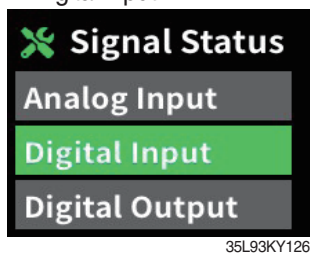
Enter to digital input.

2. Digital signal list

35L93KY127

You can check the digital
signal list.

35L93KY128
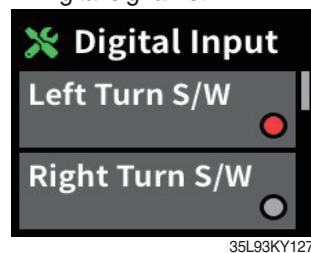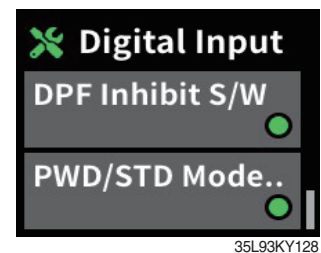
c. Digital output

1. Digital output

35L93KY129
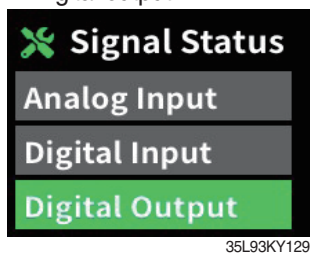
Enter to digital output.

2. Digital signal list

35L93KY130

You can check the digital
signal list.

35L93KY131
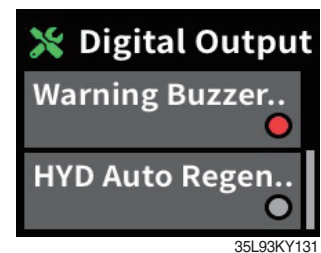
④ **User password change**
- · This function is to allow to change password from default password to user defined password.
- · Password length must be 5~10 digits.

※ **Since, if you forget the password, you must request the A/S, do not forget the password.**

1. User password change
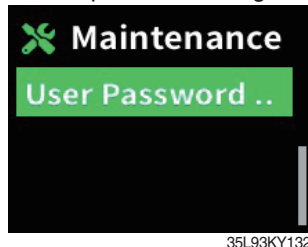
35L93KY132

Choose password change.

2. Enter current user password
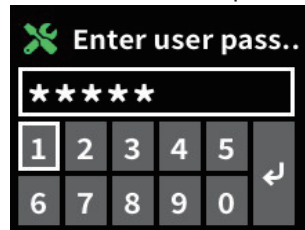
35L93KY133

Eneter current user password.

3. Enter new user password
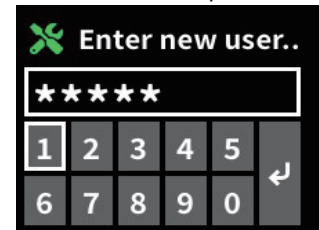
35L93KY134

Eneter new user password.

(3) **Display setting**

① **Time setting**

1. Display setting
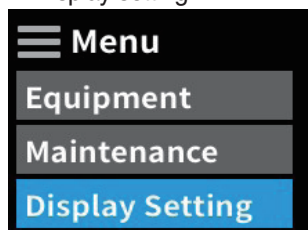
35L93KY135

Enter to display setting.

2. Time setting
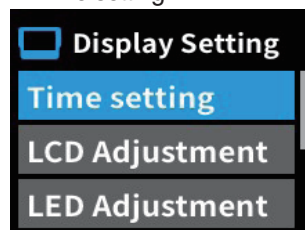
35L93KY136

Choose time setting.

3. Date setting
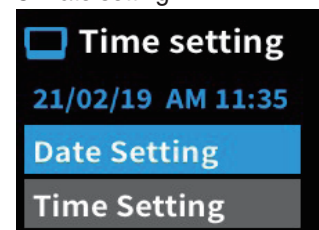
35L93KY137

Choose date setting.

4. Date
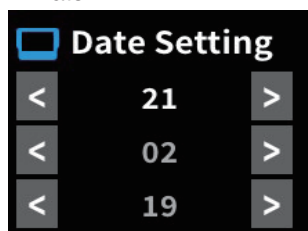
35L93KY138

Change time using R/L button and enter button.

5. Time setting
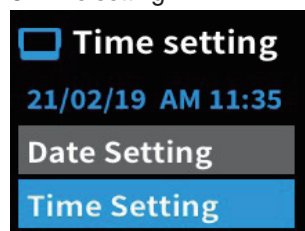
35L93KY139

Choose time setting.

6. Change
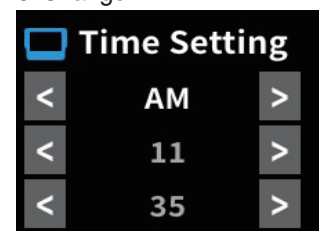
35L93KY140

Change time using R/L button and enter button.

3-28

② LCD brightness adjustment

1. LCD adjustment

35L93KY141
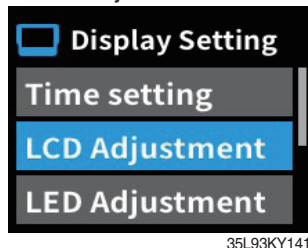
Choose LCD brightness adjustment

2. LCD brightness

35L93KY142
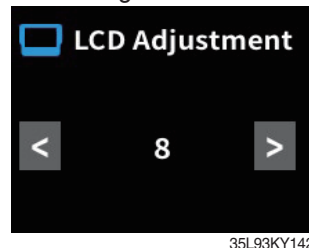
You can see this display when you choose Display Brightness is automatic.

③ LED brightness adjustment

1. LCD adjustment

35L93KY143
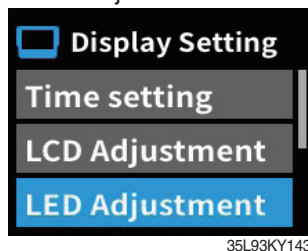
Choose LED brightness adjustment

2. LCD brightness

35L93KY144
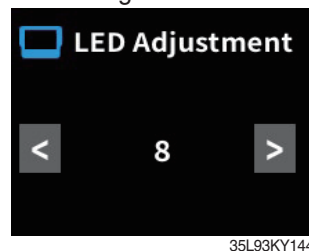
You can see this LED when you choose LED Brightness is automatic.

④ Unit setting

1. Unit setting

35L93KY145
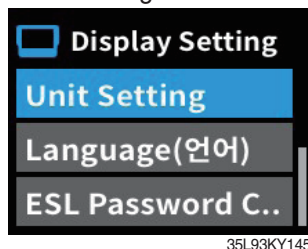
Enter to unit setting.

2. Select unit

35L93KY146
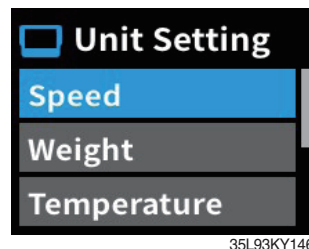
Select the unit you want to change.

6. Unit

35L93KY147
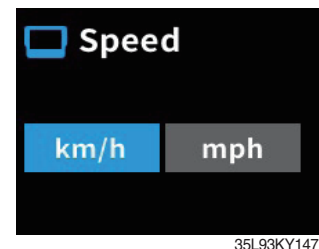
Select the unit.

⑤ Language

1. Language

35L93KY148

Enter to language.

2. Select

35L93KY149

Select language.

⑥ ESL password change

1. ESL password change

35L93KY150

Enter ESL password change and enter.

2. Enter cuurent ESL password

35L93KY151
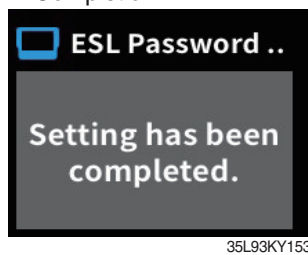
Enter current user password.

3. Enter new ESL password

35L93KY152

Enter new ESL password.

4. Completion

35L93KY153

8) CAUSES AND CORRECTION OF CLUSTER WARNING LAMP

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 warming up indicator		Engine warming up indicator lamp	Warming up will be started.
3	Water in fuel warning		Water in fuel warning lamp	Please drain the water of the fuel filter.
4	Engine check warning	CHECK	Engine check warning lamp	Check the failure code of cluster.
5	DPF regeneration warning (null)		DPF regeneration warning lamp	DPF regeneration is required.
6	DPF inhibit warning (null)		DPF inhibit warning lamp	DPF regeneration is inhibited.
7	High Exhaust System Temperature (null)		Exhaust system high temperature waring lamp	Exhaust system high temperature will be started.
8	Fuel warmer indicator		Fuel warmer indicator lamp	Warming up the fuel.
9	TM oil temperature warning		TM oil temperature warning lamp	TM oil is over temperature condition.
10	Parking brake indicator	(P)	Parking brake indicator lamp	Parking brake is operating.
11	Battery charging warning		Battery charging warning lamp	Battery is not being charged. Please check alternator and wiring.
12	OPSS indicator	OP SS	OPSS indicator lamp	Lights up when the operator leaves the seat.
13	Fuel warning		Fuel warning lamp	Fuel level is low. Please refill the diesel oil.
14	Coolant temperature warning		Engine coolant temperature warning lamp	Engine coolant is over temperature condition.
15	Air cleaner filter warning		Air cleaner filter warning lamp	When the air cleaner needs to be checed and replaced.
16	Consumables replacement indicator		Consumables replacement indicator lamp	Consumables replacement cycle has been passed.
17	Communication error warning	COMM ERROR	Communication error warning lamp	Communication with between MCU and ECU has been failed. Check communication line.

No.	Warning lamp types	Symbol	Warning and indicator lamp	Causes and correction
18	Break oil level warning		Brake oil level warning lamp	Brake oil level is low. Please top up brake oil.
19	LH/RH turn		LH/RH turn indicator lamp	-
20	Forward 1st/2nd gear	F1 F2	Foward 1st/2nd gear lamp	-
21	Reverse gear	R	Reverse gear indicator lamp	-
22	Neutral gear	N	Neutral gear indicator lamp	-

5. SWITCHS

Hazard switch (opt)
Parking brake switch
Start switch
Power switch
Rear work lamp switch (opt)
Front wiper/washer switch (opt)

Cover

Multi function switch

Horn switch

Rear grip
horn switch

Master switch (opt)
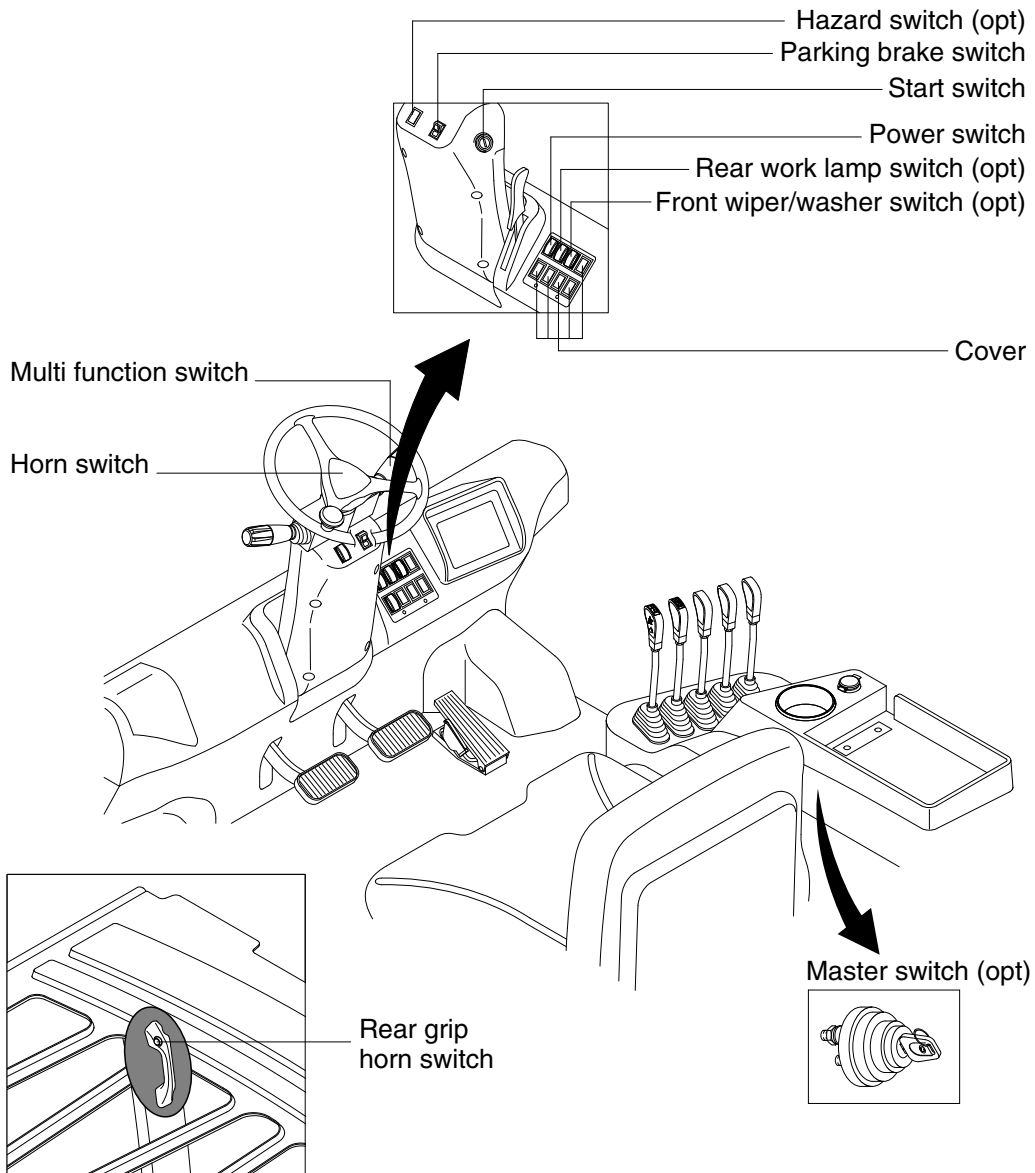
35D9HDI3KY162

1) START SWITCH

35D9SOM10
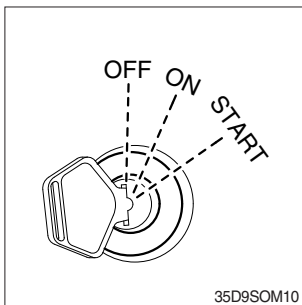
(1) There are three positions, OFF, ON and START.

※ Before starting, set gear shift lever at NEUTRAL and pull parking brake lever to LOCK position.

· OFF : None of electrical circuits activates.

· ON : All 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 truck damage.

2) MULTI FUNCTION SWITCH

(1) Clearance lamp switch

35D9AOM92
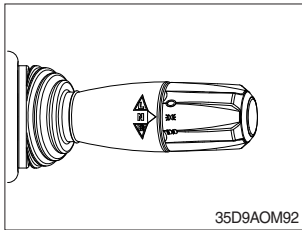
① Clearance lamp lights up

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.**

(2) Head lamp switch

35D9AOM91
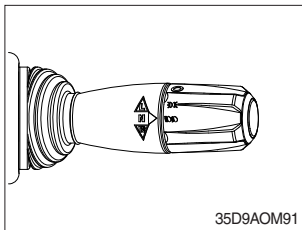
① Head lamp lights up

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 ◎.

(3) Turning signal switch

Left turning

Right turning

35D9OM93
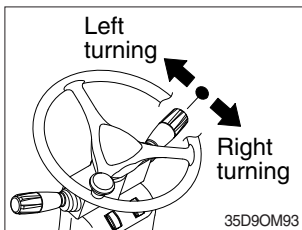
① This lever makes the turn signal lamp flash.

· Turning left : Push lever forward

· 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.**

3) POWER SWITCH

70D9V3KY04

(1) This switch offers two selectable operating mode.

The operator can adjust the truck's performance with this selection switch.

(2) Function

① STD MODE

This mode provides maximum fuel efficiency for general loading.

② PWR MODE

This mode provides maximum power output for heavy loading or hill climb.

4) PARKING BRAKE SWITCH

35D9FOM21A
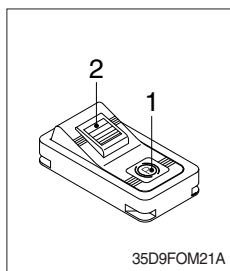
(1) Position 1

Parking brake is applied and front wheel is locked.

(2) Position 2

① Parking brake is released.

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

5) HORN SWITCH

35D9AOM97

35D9AOM97A
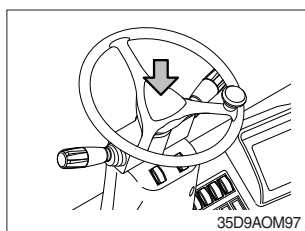
(1) The horn sounds when the button is pressed.
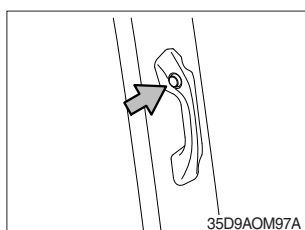
6) HAZARD SWITCH (option)

OFF   ON
35D9AOM17
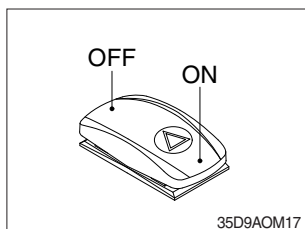
(1) Use when emergency situation or while loading operation.

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

7) REAR WORK LAMP SWITCH (option)

OFF   ON
35D9AOM16
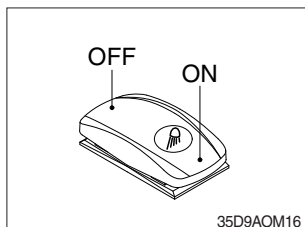
(1) This switch is used to operate work lamps.

Press this switch to turn on work lamps.

8) FRONT WIPER/WASHER SWITCH (option)

OFF
ON
35D9AOM20
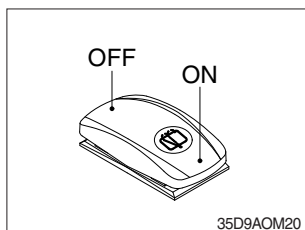
(1) This switch is used to operate the front wiper and washer by two steps.
· First step : The front wiper operates.
· Second step : The washer liquid is sprayed and the front wiper is operated only while pressing. If release the switch, return to the first step position.

9) FNR AND HORN SWITCH (option)

FNR switch
Horn switch
35D9VB3KY164
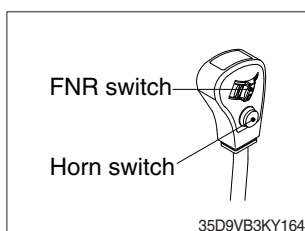
(1) FNR switch
If you move the FNR switch forward, the truck moves forward, but if you move the FNR switch backward, the truck moves reverse.
※ **FNR switch has no speed select switch, thus use autoshift "ON" only.**

(2) Horn switch
The horn sounds when the button is pressed.

10) AUTO TILT LEVELING SWITCH (option)

Auto tilt leveling switch
35D9OM95
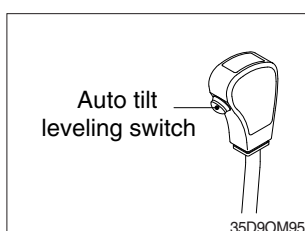
(1) When the lever is operated on pressing this auto tilt leveling switch, the auto tilt leveling function is activated.

(2) Auto tilt leveling function
This function is mast tilt angle adjust to zero (0) degree (refer to the truck position).
※ **This function have to be used at the engine low idle rpm and stop position. If this function is activated at the high idle rpm or during starts, do not guarantee the mast stop at upright vertical position.**
※ **Operate the auto tilt function with unload conditions.**
⚠ **When used in load condition, the load on the fork can fall down.**

11) MASTER SWITCH (option)

OFF
O I
807A3CD03
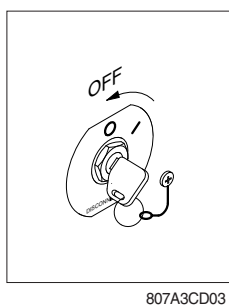
(1) This switch is used to shut off the entire electrical system.
When the truck is not operated for a long time, turn OFF the master switch for the safety purpose.

(2) Ⅰ : The battery remains connected to the electrical system.
O : The battery is disconnected to the electrical system.

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

6. CONTROL DEVICE

Steering wheel
Gear selector lever

Steering wheel
lock lever

Inching pedal
Brake pedal
Accelerator pedal

Lift lever
Tilt lever
3-spool lever
4-spool lever (opt)
5-spool lever (opt)

35D9HDI3KY165A

1) GEAR SELECTOR LEVER

Forward
Backward

Acceleration
Deceleration

35D9OM96
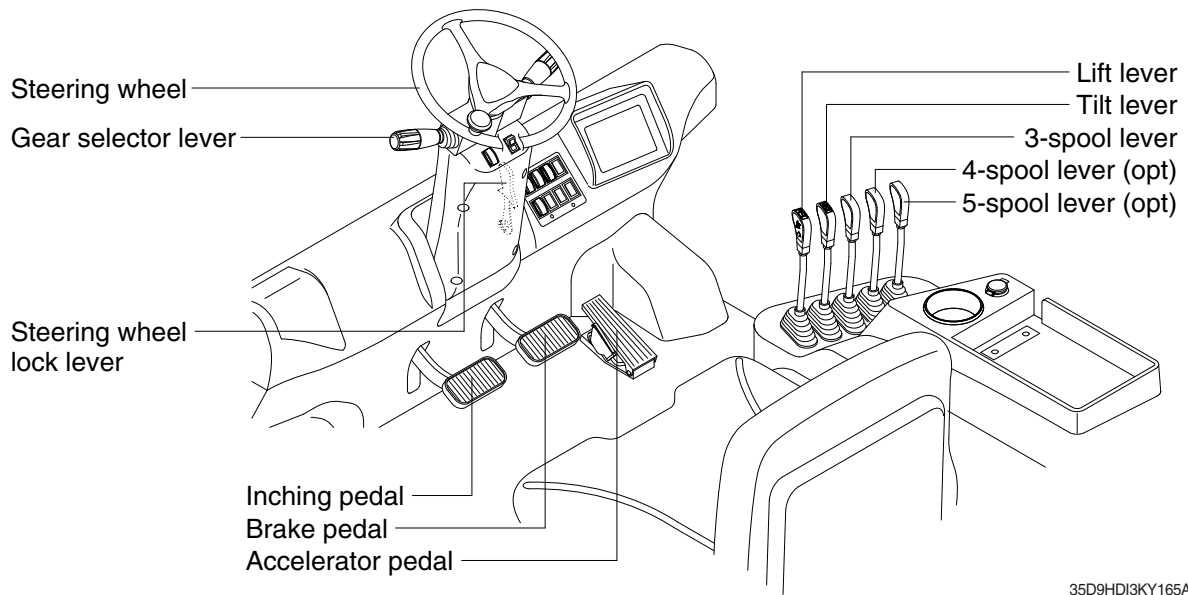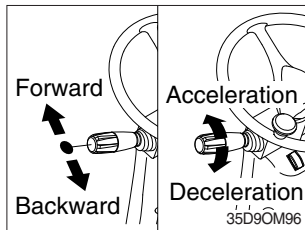
(1) This lever is used for gear selection, forward 2 stages and reverse 2 stages.

(2) If you push the gear selector lever, the truck moves forward, but pulling the gear selector lever, the truck moves backward.

(3) If you turn the gear selector lever forward, the truck increases the speed, but if you turn the gear selector lever backward, the truck reduces the speed.

2) STEERING WHEEL

Right
Left

35D9OM97
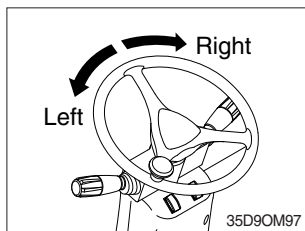
(1) A steering cylinder in the center of the steering axle will operate the steering function.

(2) Turning the steering wheel left, the truck moves to the left side and turning it right, the truck moves to the right side.

3) BRAKE PEDAL

Brake pedal

35D8CD98A
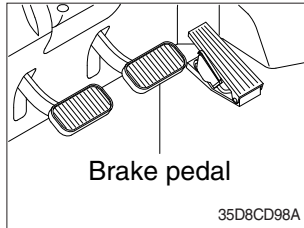
(1) If the pedal is pushed, braking force is generated and bring the truck to a stop.

※ **Do not operate the truck with stepping on the brake pedal unnecessarily, or bring premature wear of brake disc.**

4) ACCELERATOR PEDAL

Accelerator pedal

35D9OM98B
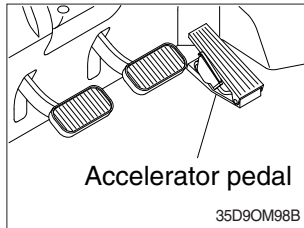
(1) This pedal controls the engine speed. The engine speed will increase in proportion to the degree of force applied to this pedal.

(2) Unless this pedal is pressed, the engine will run at low idling.

5) INCHING PEDAL

Inching pedal

35D9OM98C
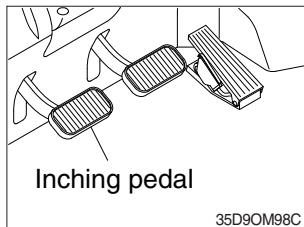
(1) The inching pedal is used for fine control of forward and reverse movement when lifting up or putting down loads.

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

6) LIFT LEVER

Lower
Lift

35D9OM17
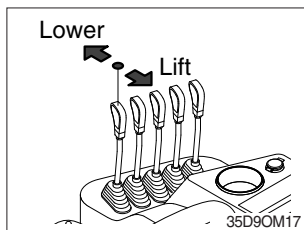
(1) Lift
PULL the lever BACK to LIFT the load.

(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.**

7) TILT LEVER

Tilt
Forward
Tilt
backward

35D9OM18
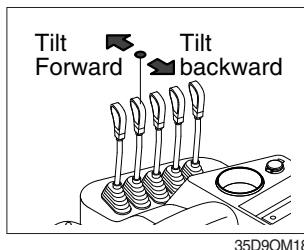
(1) Tilt forward
PUSH the lever FORWARD to tilt mast FORWARD.

(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.**

8) LEVER FOR SIDE SHIFT

35D9CD17
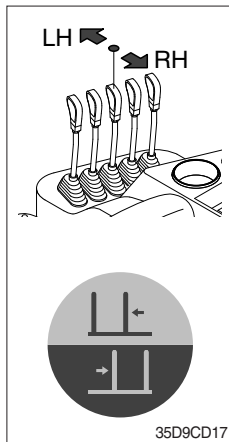
(1) LH movement

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

(2) RH movement

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

9) LEVER FOR SIDE SHIFT WITH FORK POSITIONER

(1) Fork positioner (synchronizer type)

35D9VB3KY168A
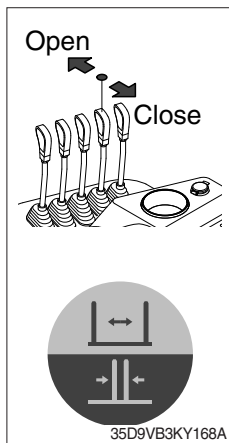
① Open the forks

Push the lever forward to open both forks simultaneously.

② Close up the forks

Pull the lever backward to close both forks simultaneously.

(2) Fork positioner (independent type)

35D9CD21
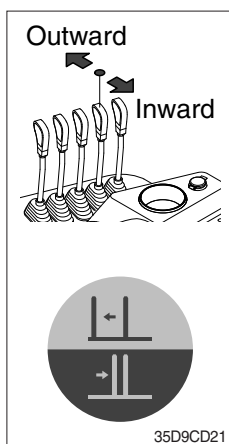
① LH fork movement

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

Outward

Inward

35D9CD22
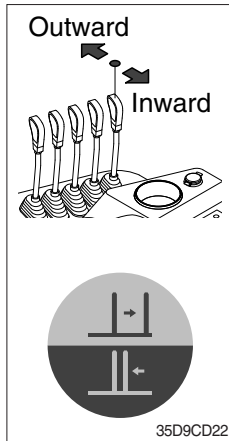
② RH fork movement
- Push the lever forward to move the RH fork outward.
- Pull the lever backward to move the RH fork inward.

10) STEERING COLUMN ADJUST LEVER

Lock

Release

Steering
column cover
RH side

35D9AOM91A
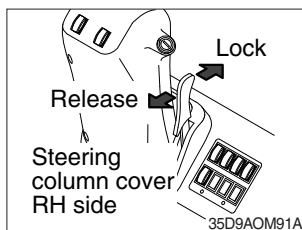
(1) The angle of the steering column can be adjusted forward and backward to 13 degree.

① Release : Pull the lever backward.
② Lock   : Release the lever.

※ **METHOD OF ADJUSTING STEERING COLUMN ANGLE**

(1) Pull the lock lever backward.

(2) Move the steering column forward or backward to select the most suitable position.

(3) Release the lever to lock the steering column in the desired position.

※ **After adjusting, try to move the steering column backward and forward to check that it is locked in the selected position.**

⚠ **Always carry out the adjustment with the machine stopped. Never try to adjust the steering column when the machine is moving.**

11) BONNET LATCH

bonnet

Latch

22D9TCD25
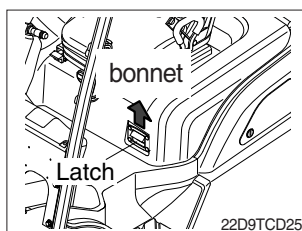
(1) Pull the latch and raise the bonnet to open it.

(2) Inspection and maintenance can then be carried out easily.

7. AIR CONDITIONER AND HEATER (OPTION)

Full auto air conditioner and heater are equipped for pleasant operation against outside temperature and defrost on window glass.

Air conditioner   Heater
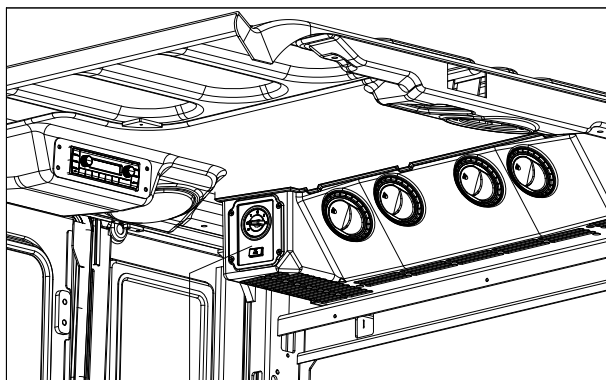
Air conditioner controller   Heater controller
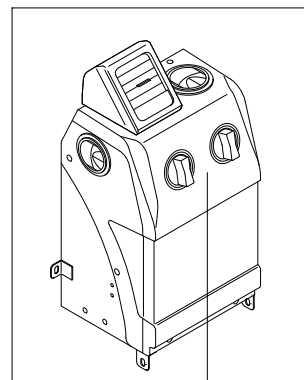
35D9VB3KY169

1) AIR CONDITIONER CONTROLLER

25BX3KY57
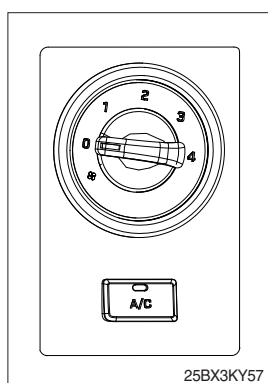
(1) The A/C button determines whether to perform a cooling function of the air conditioner. Push the button and the A/C lamp is ON or OFF.
   · A/C lamp ON : Air conditioner operation
   · A/C lamp OFF : Fan only
(2) The knob is possible to control fan speed to 4 steps.

2) HEATER CONTROLLER

35D9VB3KY170
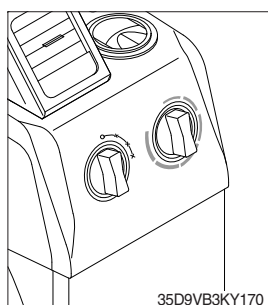
(1) The left knob turns the system ON/OFF and controls fan speed to 3 steps.
(2) The right knob controls the air temperature of the heater.

Camera monitor (opt) ————

Radio and USB player (opt) ————
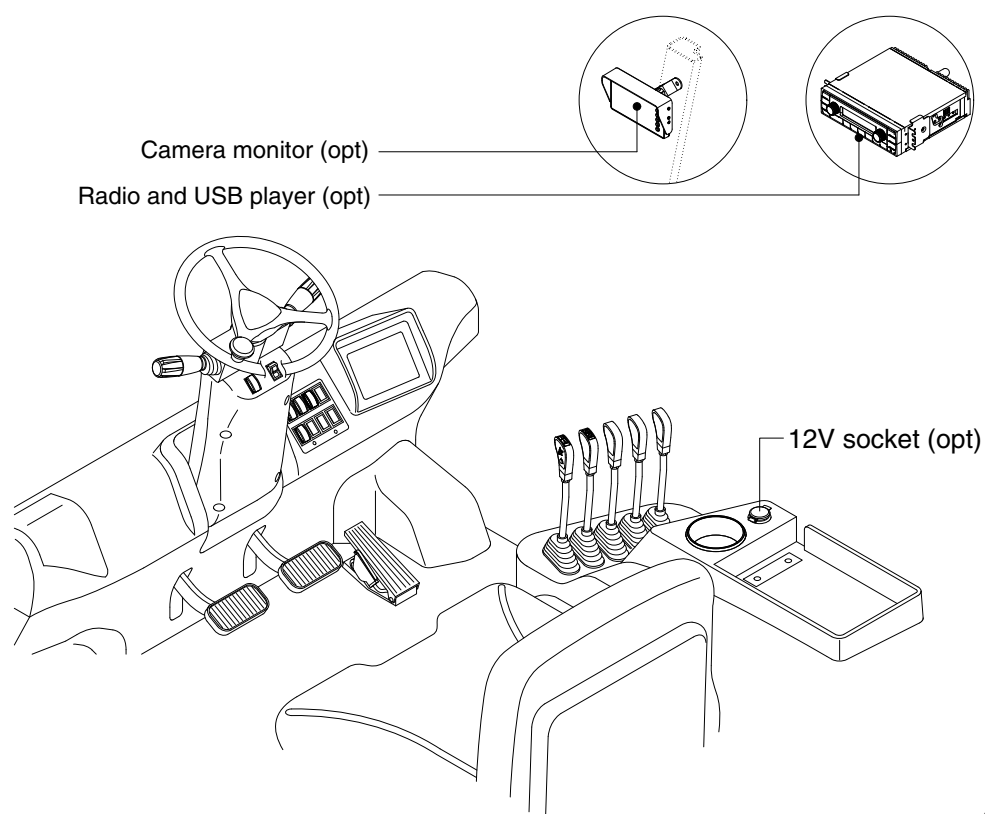
12V socket (opt)

35D9HDI3KY166

1) 12V SOCKET (OPTION)
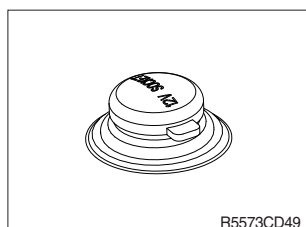
R5573CD49

(1) Utilize the power of 12 V as your need and do not exceed power of 12 V, 120 W.

2) MONITOR (OPTION)
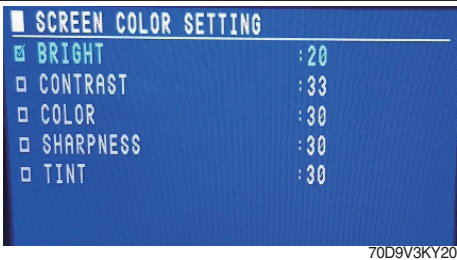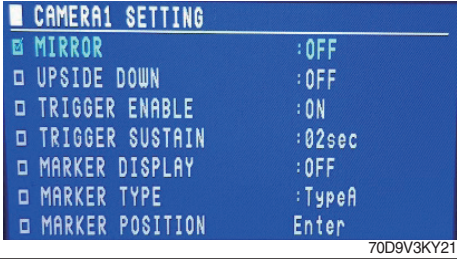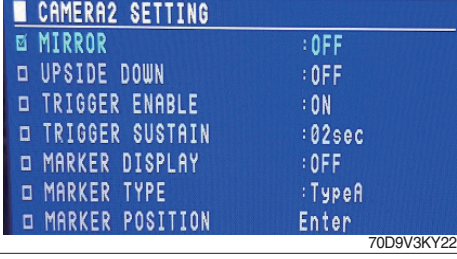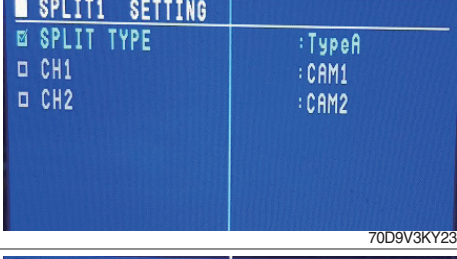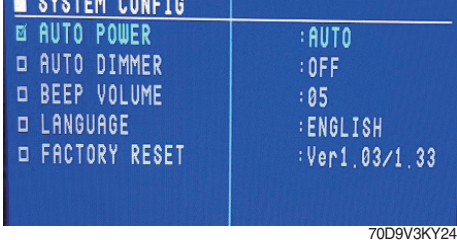
It is possible to adjust the angle to the up, down, left, or right.

Power button
Select button
Menu button
Up button
Down button

70D9V3KY14
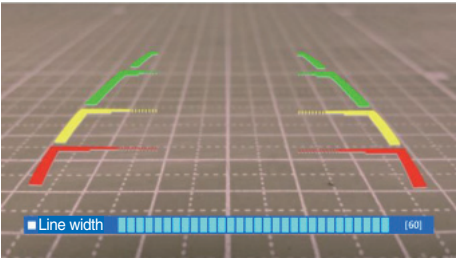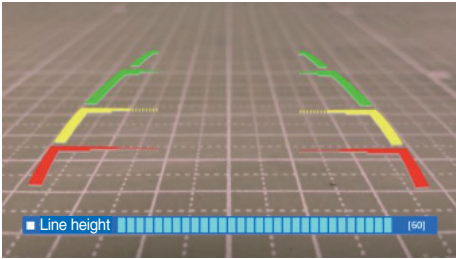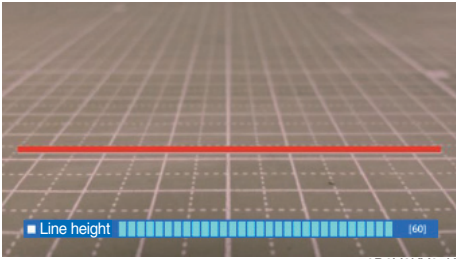
No.	Symbol	Name	Description
1	⏻	Power	- Alarm off or off release - Menu save and exit
2	↵	Select	- Parking line on or off - Select the menu - Adjust the menu
3	M	Menu	- Enter and change the menu - Adjust the parking line (press the button for 2 seconds.)
4	▲	Up	- Return the previous display - Maximum volume or alarm off release (press the button for long time) - Move or adjust upward
5	▼	Down	- Move the next display - Mute volume (press the button for long time) - Move or adjust downward

(1) Menu function

No.	Menu	Dispaly	Setting value
1	Screen color setting	**SCREEN COLOR SETTING** BRIGHT :20 CONTRAST :33 COLOR :30 SHARPNESS :30 TINT :30 70D9V3KY20	- Bright : 0 ~ 60 (1 step) - Contrast : 0 ~ 60 (1 step) - Color : 0 ~ 60 (1 step) - Sharpness : 0 ~ 60 (1 step) - Tint : 0 ~ 60 (1 step)
2	Camera 1 setting	**CAMERA1 SETTING** MIRROR :OFF UPSIDE DOWN :OFF TRIGGER ENABLE :ON TRIGGER SUSTAIN :02sec MARKER DISPLAY :OFF MARKER TYPE :TypeA MARKER POSITION Enter 70D9V3KY21	- Mirror : on or off - Upside down : on or off - Trigger enable : on or off - Trigger sustain : 1 ~ 20 seconds (1 second) - Marker display : on or off - Marker type : type A or B - Marker position : enter
3	Camera 2 setting	**CAMERA2 SETTING** MIRROR :OFF UPSIDE DOWN :OFF TRIGGER ENABLE :ON TRIGGER SUSTAIN :02sec MARKER DISPLAY :OFF MARKER TYPE :TypeA MARKER POSITION Enter 70D9V3KY22	- Mirror : on or off - Upside down : on or off - Trigger enable : on or off - Trigger sustain : 1 ~ 20 seconds (1 second) - Marker display : on or off - Marker type : type A or B - Marker position : enter
4	Split 1 setting	**SPLIT1 SETTING** SPLIT TYPE :TypeA CH1 :CAM1 CH2 :CAM2 70D9V3KY23	- Split type : type A or B - CH 1 : cam 1 or 2 - CH 2 : cam 1 or 2
5	Sysetm config	**SYSTEM CONFIG** AUTO POWER :AUTO AUTO DIMMER :OFF BEEP VOLUME :05 LANGUAGE :ENGLISH FACTORY RESET :Ver1.03/1.33 70D9V3KY24	- Auto power : on, off or auto - Auto dimmer : on or off - Beep volume : 0 ~ 10 (1 step) - Language : english or korean - Factory reset : Ver 1.xx

(2) Parking line adjusting

Press the menu button for 2 seconds or enter the marker position in the camera 1 setting menu or the camera 2 setting menu.

※ To set the marker position, the marker display should be ON in the camera 1 setting menu or the camera 2 setting menu.

No.	Type	Dispaly	
1	A	■ Line width ▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮ [60] 70D9V3KY25K	■ Line height ▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮ [60] 70D9V3KY26K
2	B		■ Line height ▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮▮ [60] 70D9V3KY27K

3-45

3) RADIO AND USB PLAYER (WITH BLUETOOTH, OPTION)

1   LCD   2

9403CD100

■FRONT PANEL PRESENTATION

1 ······· Power ON/OFF, Volume UP/DOWN button

2 ······· Manual UP/DOWN Tuning, File search, SEL button

3 ······· Mode button, Audio mute button

4 ······ Call & Pair button

5 ······ Call end button

6 ······ Station preset 1
DIS ··········· Display button

7 ······ Station preset 2

8 ······ Station preset 3
RPT ··········· Repeat play button

9 ······ Station preset 4
RDM ··········· Random play button

10 ······· Station preset 5
DIR- ··········· Directory down button

11 ······· Station preset 6
DIR+ ··········· Directory up button

12 ······· Scan play button (SCAN) Best station memory (BSM) button

13 ······· Auto tune up, Seek up button

14 ······· Auto tune down, Track down button

15 ······· USB connector

16 ······· AUX IN Jack

17 ······· MIC hole

RADIO AND USB PLAYER (WITHOUT BLUETOOTH, OPTION)

1   LCD   2

9403CD101

■FRONT PANEL PRESENTATION

1 .... Power ON/OFF,
           Volume UP/DOWN button

2 .... Manual UP/DOWN Tuning,
           File search, SEL button

3 .... Mode button,
           Audio mute button

4 .... Radio seek up button

5 .... Radio seek down button

6 .... Station preset 1
DIS .... Display button

7 .... Station preset 2

8 .... Station preset 3
RPT .... Repeat play button

9 .... Station preset 4
RDM .... Random play button

10 .... Station preset 5
DIR- .... Directory down button

11 .... Station preset 6
DIR+ .... Directory up button

12 .... Scan play button (SCAN)
           Best station memory (BSM) button

13 .... Track up button

14 .... Track down button

15 .... USB connector

16 .... AUX IN Jack

■GENERAL

(1) Power and volume button

9403CD102

① Power ON / OFF button

Press power button (1) to turn the unit on or off.

② Volume UP/DOWN control knob

Turn VOL knob (1) right to increase the volume level.

Turn VOL knob (1) left to decrease the volume.

After 5 seconds the display will return to the previous display mode.

③ Initial volume level set up

I-VOL is the volume level the unit will play at when it is next turned on. To adjust the I-VOL level, press and hold VOL button (1) for longer than 2 seconds. The current volume level displays on the display panel.

Then turn button (1) right or left to set the volume level as the I-VOL level.

④ Clock ON/OFF control

The CLOCK was default at off status. To turn CLOCK ON, press and hold VOL button (1) for longer than 2 seconds to display I-VOL, then short press VOL again, turn VOL knob while CLOCK OFF display, then the CLOCK ON will be displayed.

※ Due to time tolerance, the clock display on the Audio unit might have slight difference.

⑤ Clock adjustment

With CLOCK ON selected, press VOL knob again after CLOCK ON display, the hour will blink, turn VOL knob right or left to adjust hour.

Simply press VOL again, the minute will blink, turn VOL knob to adjust minute. Then press VOL again to confirm the clock once finished.

(2) Menu Selection

9403CD103

① This button can adjust the effect of the sound and other things. Each time you press this button (2), LCD displays as follows :

BAS → TREB → BAL L=R → FAD F=R → EQ → LOUD ON → BEEP 2ND

On each setting, the level can be controlled by turning TUNE knob (2). When the last adjustment is made, after 5 seconds, the display will automatically return to the previous display mode.

② **Bass control**

To adjust the bass tone level, first select the bass mode by pressing SEL button (2) repeatedly until BASS appears on the display panel. Then turn knob (2) right or left within 5 seconds to adjust the bass level as desired. The bass level will be shown on the display panel from a minimum of BASS-7 to a maximum of BASS+7.

③ **Treble control**

To adjust the treble tone level, first select the treble mode by pressing SEL button (2) repeatedly until TREB appears on the display panel. Then turn knob (2) right or left within 5 seconds to adjust the treble level as desired. The treble level will be shown on the display panel from a minimum of TREB -7 to a maximum of TREB +7.

④ **Balance control**

To adjust the left-right speaker balance, first select the balance mode by pressing SEL button (2) repeatedly until BAL indication appears on the display panel. Then turn knob (2) right or left within 5 seconds to adjust the balance as desired. The balance position will be shown by the bars on the display panel from BAL 10R (full right) to BAL 10L (full left).

⑤ **Fader control**

To adjust the front-rear speaker balance, first select the fader mode by pressing SEL button (2) repeatedly until FADER indication appears on the display panel. Then turn knob (2) right or left within 5 seconds to adjust the front-rear speaker level as desired. The fader position will be shown by the bars on the display panel from FAD 10F (full front) to FAD 10R (full rear).

⑥ **EQ control**

You can select an equalizer curve for 4 music types (CLASSIC, POP, ROCK, JAZZ). Press button (2) until EQ is displayed, then turn knob (2) right or left to select the desired equalizer curve. Each time you turn the knob, LCD displays as follows :

EQ OFF → CLASSIC → POP → ROCK → JAZZ

※ **When the EQ mode is activated, the BASS and TREBLE modes are not displayed.**

⑦ **Loud control**

When listening to music at low volume levels, this feature will boost the bass and treble response. This action will compensate for the reduction in bass and treble performance experienced at low volume.

To select the loudness feature, press button (2) until LOUD is displayed, then turn knob (2) right or left to activate or deactivate loudness.

⑧ **Beep control**

To adjust the BEEP mode, first select the BEEP mode by pressing button (2) repeatedly until BEEP indication appears on the display panel. Then turn knob (2) left or right within 5 seconds to select BEEP 2ND, BEEP OFF or BEEP ON.

· BEEP 2ND : You will only hear the beep sound when the buttons are held down for more than 2 seconds.
· BEEP OFF : You can not hear the sound beep when you press the buttons.
· BEEP ON : You can hear the beep sound each time you press the buttons.

(3) Mute control

① Press and hold MUTE button (3) for over 2 seconds to mute sound output and MUTE ON will blink on the LCD. Press the button again to cancel MUTE function and resume to normal playing mode.

(4) Mode selection

① Repeat press MODE button (3) to switch between FM1, FM2, AM, USB, AUX, BT MUSIC.

※ **If there is no USB, AUX, Bluetooth Phone connected, it would not display USB, AUX, BT when you press button (3).**

■RADIO

(1) Mode button

9403CD104

① Repeat press MODE button to select FM1, FM2 or AM.

(2) Manual tuning button

9403CD105

① To manually tune to a radio station, simply turn encoder TUNE (2) left or right to increase or decrease the radio frequency.

(3) Auto tuning button

9403CD106

① To automatically select a radio station, simply press Seek up or Track down button.

9403CD107

(4) Station preset button

9403CD108

① In radio mode, pressing buttons (6) to (11) will recall the radio stations that are memorized. To store desired stations into any of the 6 preset memories, in either the AM or FM bands, use the following procedure :

  a. Select the desired station.
  b. Press and hold one of the preset buttons for more than 2 seconds to store the current station into preset memory. Six stations can be memorized on each of FM1, FM2, and AM.

(5) Preset scan (PS) / Best station memory (BSM) button

9403CD109
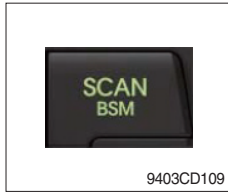
① Press BSM button (12) momentarily to scan the 6 preset stations stored in the selected band. When you hear your desired station, press it again to listen to it.

Press BSM button (12) for longer than 2 seconds to activate the Best Station Memory feature which will automatically scan and enter each station into memory.

※ **If you have already set the preset memories to your favorite stations, activating the BSM tuning feature will erase those stations and enter into the new ones. This BSM feature is most useful when travelling in a new area where you are not familiar with the local stations.**

■ USB PLAYER

(1) USB playback

9403CD110

① The unit was equipped with a front USB jack and also a rear USB Jack.
With a USB device plugged in the front USB jack, it will be detected as front USB mode. And with a USB device plugged in the rear USB jack, it will be detected as rear USB. To get to a USB mode, press MODE (3) button momentarily or insert the USB device in front or rear USB jack.

※ **If there are no mp3 or wma files in USB device, it will revert to the previous mode after displaying NO FILE.**

(2) Track Up / Down button

9403CD106

9403CD107

① Press SEEK up (13) or TRACK down (14) to select the next or previous track. Press and hold the buttons to advance the track rapidly in the forward or backward direction.

(3) MP3 directory / File searching

9403CD111

① Button (2) is used to select a particular directory and file in the device. Turn button (2) right or left to display the available directories. Press button (2) momentarily when the desired directory is displayed, then turn button (2) right or left again to display the tracks in that directory. Press button (2) to begin playback when the desired file is displayed.

(4) Directory Up / Down button

9403CD112

① During MP3/WMA playback, simply press DIR- button (10) to select the previous directory (if available in the device); simply press DIR+ button (11) to select the next directory (if available in the device).

※ **If the USB device does not contain directories, it would play MP3/ WMA tracks at 10- file when you press DIR- button (10), and play MP3/WMA tracks at 10+ file when you press DIR+ (11) button.**

(5) Track Scan Play (SCAN) button

SCAN
BSM

9403CD113
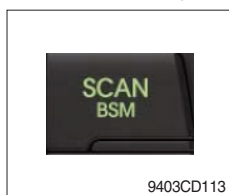
- SCAN playback : Simply press SCAN (12) button to play the first 10 seconds of each track.
- SCAN folder : Press and hold SCAN button for longer than 2 seconds to scan play the tracks in current folder.
- SCAN off : Simply press it again to cancel SCAN feature.

(6) Track Repeat Play (RPT) button

3 RPT

9403CD114

- REPEAT playback : Simply press RPT (8) button to play current track repeatedly.
- REPEAT folder : Press and hold RPT for longer than 2 seconds to repeat play the tracks in current folder.
- REPEAT off : Simply press it again to cancel REPEAT feature.

(7) Track Random Play (RDM) button

4 RDM

9403CD115

- RANDOM playback : Simply press RDM (9) button to play the tracks in the device in a random sequence.
- RANDOM folder : Press and hold RDM button for longer than 2 seconds to randomy play the tracks in the current folder.
- RANDOM off : Simply press it again to cancel RANDOM feature.

(8) ID3 v2 (DISP)

1 DIS

9403CD116

① While a MP3 file is playing, press DISP button (6) to display ID3 information. Repeat push DISP button (6) to show directory name / file name and album name / performer / title.

※ **If the MP3 disc does not have any ID3 information, it will show NO ID3.**

∗ USB Information and Notice
  a. Playback FILE SYSTEM and condition allowance.
     - FAT, FAT12, FAT16 and FAT32 in the file system.
     - V1.1, V2.2 and V2.3 in the TAG (ID3) version.
  b. Display up to 32 characters in the LCD display.
  c. No support any of MULTI-CARD Reader.
  d. No high speed playback but only playing with normal full speed.

※ **DRM files in the USB may cause malfunction to playback in the radio unit.**
※ **In temperatures below -10℃ (14℉), the audio unit with USB hook up may be affected and not play well.**

■AUX OPERATION

It is possible to connect your portable media player to the audio system for playback of the audio tracks via the cab speakers.

To get the best results when connecting the portable media to the audio system, follow these steps :

- Use a 3.5 ㎜ stereo plug cable to connect the media player headphone socket at each end as follows.
- Adjust the portable media player to approximately 3/4 volume and start playback.
- Press the MODE button (3) on the audio unit to change into AUX mode.
- The volume and tone can now be adjusted on the audio unit to the desired level.

※ The audio quality of your media player and the audio tracks on it may not be of the same sound quality as the audio system is CD Player.

※ If the sound of the media player is too low compared with the radio or CD, increase the   volume of the player.

※ If the sound of the media player is too loud and/or distorted, decrease the volume of the player. When in AUX mode, only the Volume, Bass, Treble, EQ and Mode functions of the audio unit can

※ be used.

■BLUETOOTH (if equipped)

(1) Using a bluetooth wireless connection

① Your audio unit supports bluetooth wireless technology. You can set up a wireless link with bluetooth cellular phone.

② Continue to pair the cellular phone with the audio unit. Within a few moments the two should be able to connect.

※ Since this audio unit is on standby to connect with your cellular phone via bluetooth wireless technology, using this audio unit without running the engine can result in battery drainage.

※ This audio units phone call reception is on standby when ignition switch is set to ACC OFF or ON.

※ The line-of-sight distance between this audio unit and your cellular phone must be 10 meters or less for sending and receiving voice and data via bluetooth wireless technology. However the transmission distance may become shorter than the estimated distance depending on the environment where it is being used.

※ Digital Noise & Echo suppression system provides the best sound clarity with little or no distortion (Echo & side tone will happen depending on cellular phone or service network).

※ To ensure the quality of calling, you should select a proper bluetooth VR level. This audio unit is already equipped with the best bluetooth VR level.

290F3CD215
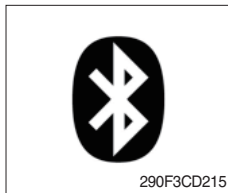
a. Bluetooth icon

It will blink while establishing the bluetooth pairing.
It will light up after a bluetooth device connected.

7709A3BT02
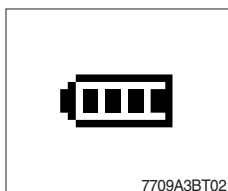
b. Battery icon

It indicates the battery status of the connected bluetooth device.

7709A3BT03

c. Single strength icon

It indicates the signal strength of the connected bluetooth device.

(2) Pairing in hands free modes

9403CD117

① Press and hold CALL button (4) for 2 seconds until you hear beep sound, then PAIR STR will appear on the display.

② For the next procedure, go to cellular phone pairing mode.

③ If it is in pairing status with audio unit and cellular phone, PAIRING will show on the display.

④ If you want to exit pairing mode, press CALL END button (5) briefly while pairing, then it will show PAIR CLR on the display.

⑤ Bluetooth Icon and PAIR OK appear on the display when pairing is successful.

(3) Cellular phone pairing mode

① Browse your cellular phone menu and find the connectivity or bluetooth connection section.

② Select search for a new handsfree device function and allow the phone to find the mobile.

③ HYUNDAI should appear on your cellular phone screen.

④ Press connect menu among the handsfree option on your cellular phone.

⑤ The cellular phone should prompt for a pin code. Insert the pin code 1234.

⑥ The cellular phone should confirm that it has established a new paired connection.

⑦ Close the menu. The pairing is now completed. It appears PAIR FAIL on the display for 3 seconds.

※ Each cellular phone type has distinct phone menu so you may need to refer to your manufactures instruction for the correct procedure on how to connect a new bluetooth device.

※ Please retry the pairing instruction if HYUNDAI does not appear on the cellular phone screen.

※ Please select authorized, if there is authorized menu in the menu of bluetooth connection in your cellular phone.

※ Once the bluetooth pairing is completed between your cellular phone and this audio unit, both units will be automatically recognized on its paring like when you turn on the key in your car even though the audio unit is turned off.

※ This audio unit can store up to 6 phones pairings. If the memory is full, the first stored paired phone will be deleted.

※ The connecting priority will be given to the last connected cellular phone.

※ If you want to change the connecting priority, try to connect this audio unit from the cellular phone you want.

(4) Bluetooth connection and disconnection

① When established bluetooth connection is made between this audio unit and the cellular phone, bluetooth icon on the display appears and then the display shows HF/AV CONN when handsfree & AV profile is connected.

② To disconnect bluetooth link
Press and hold CALL END button (5) for 2 seconds, it shows DIS CON and bluetooth Icon disappears on the display.

9403CD118

③ To connect bluetooth link
Press CALL button (4) briefly, it blinks bluetooth Icon on the display while bluetooth is being connected. If the connection is completed, bluetooth Icon displays on the display.

9403CD117

※ When your cellular phone battery is at low charge, the bluetooth connection may occasionally be lost. To maintain good connectivity ensure that your phone battery is adequately charged.
※ In case of failure of bluetooth pairing :
  - Delete item in paired list on your phone.
  - Reset both phone by power off/on and the audio unit by ACC off/on.
※ Connecting priority of handsfree profile is higher than headset profile.
※ The headset mode does not support caller ID, reject call and call Transfer.

(5) Using the audio unit as a handsfree device

① When the audio unit is ringing, it shows CALL and follows with the phone number ********** on the display.

② To accept call
Press CALL button (4), ANSWER CALL followed by TALKING will show in the display.

③ To end call
To end call, press CALL END button (5), REJECT appears on the display.

9403CD117/8

※ If reject call is activated in your phone, then your cellular phone does not support reject call function.

(6) Audio transfer between the audio unit and phone

The audio transfer function is for switching the call from the audio unit to the cellular phone for private conversation.

9403CD117

① Press CALL button (4) briefly during conversation, it appears CALL TRANS on the display. To switch back to the audio unit, press button (4) briefly during private conversation, then it appears CALL TRANS on the display again.

※ This function will be a cause of disconnection of bluetooth link in some nokia phones, but do not worry, just press button (4) during private conversation, then switch back to the audio unit automatically.

※ The quality of calling between cellular phone and audio unit is better than calling between one audio unit and another one.

(7) Last call number dialing

9403CD117

① Press CALL button (4) briefly, it appears CALL TO on the display, then simply press CALL button once again, it would make the last call with phone number displayed on LCD.
If Reject call is activated in your phone, then your cellular phone does not support Reject Call function.

※ If you are using SAMSUNG phone, then you may need to press send button once more. With the first press of button it should show contact list in your phone, then if you press again you should be ready to make the last call.

(8) To make a call by cellular phone

The audio transfer function is for switching the call from the audio unit to the cellular phone for private conversation.

① The audio unit will be activated automatically when you make a call with cellular phone.
② When you make a call processing by cellular phone, it shows CALLING on the display.
③ When you receive a call, the phone number ******** appears on the display.

(9) Using the audio unit as bluetooth music

The audio unit supports A2DP (Audio Advanced Distribution Profile) and AVRCP (Audio Video Remote Control Profile), and both profiles are available to listen music at the audio unit via cellular phone which is supporting the two profiles above.

① To play music, search the menu on your cellular phone as below :
  i.e : Menu→ File manager→ Music→ Option→ Play via bluetooth.
  It appears BT MP3 on the display.
② During BT MP3 playing, you could select the previous or next track by pressing SEEK up or TRACK down button on audio unit or operate via your cellular phone.
③ To stop music, press button (5) briefly and it will automatically switch into the previous mode.
④ To resume music playing, press the play button on your cellular phone.

※ This function may be different depending on cellular phone. Please follow the cellular phone menu. Some types of phones need to pair once more for bluetooth MP3 connection.
※ This function will be caused to disconnect A2DP, AVRCP depends on cellular phone.
※ Information about songs (e.g.: the elapsed playing time, song title, song index, etc.) cannot be displayed on this audio unit.

■ RESET AND PRECAUTIONS

(1) Reset function

Interfering noise or abnormal compressed files in the MP3 disc or USB instrument may cause intermittent operation (or unit frozen/locking up). It is strongly recommended to use appropriate USB storage to not cause any malfunction to the audio unit. In the unlikely event that the player fails to operate correctly, try to reset unit by any of following two methods.

① press and hold [SEEK] [5 DIR-] simultaneously for about 5 seconds. (without Bluetooth)

② Press and hold [☎] [5 DIR-] simultaneously for about 5 seconds. (with Bluetooth)

※ Take out the fuse for the audio system in the truck once and then plug it back in.

※ It will be necessary to re-enter the radio preset memories as these will have been erased when the microprocessor was reset.

After resetting the player, ensure all functions are operating correctly.

(2) Precautions

When the inside of the cab is very cold and the player is used shortly after switching on the heater, moisture may form on the disc or the optical parts of the player and proper playback may not be possible.

If moisture forms on the optical parts of the player, do not use the player for about one hour. The condensation will disappear naturally allowing normal operation.

① Operation voltage : 9~32 volts DC, negative

② Output power : 40 watts maximum (20 watts x 2 channels)

③ Tuning range

Area	Band	Frequency range	Step
USA	FM	87.5~107.9 MHZ	200K
USA	AM	530~1710 KHZ	10K
EUROPE	FM	87.5~108.0 MHZ	50K
EUROPE	AM	522~1620 KHZ	9K
ASIA	FM	87.5~108.0 MHZ	100K
ASIA	AM	531~1602 KHZ	9K
LATIN	FM	87.5~107.9 MHZ	100K
LATIN	AM	530~1710 KHZ	10K

● AREA Selection :

- To select an area, press and hold related buttons at FM1 band for about 3 seconds.
- USA Area: Press and hold mode + 1DIS buttons for 3 seconds
- EUROPE Area: Press and hold mode + 2 buttons for 3 seconds
- ASIA Area: Press and hold mode + 3RPT buttons for 3 seconds
- LATIN Area: Press and hold mode + 4RDM buttons for 3 seconds.

④ USB version : USB 1.1

⑤ Bluetooth version : V2.1

⑥ Bluetooth supported profile :

- A2DP : Advanced Audio Distribution Profile
- AVRCP : Audio/Video Remote Control Profile
- HFP : Hands-Free Profile