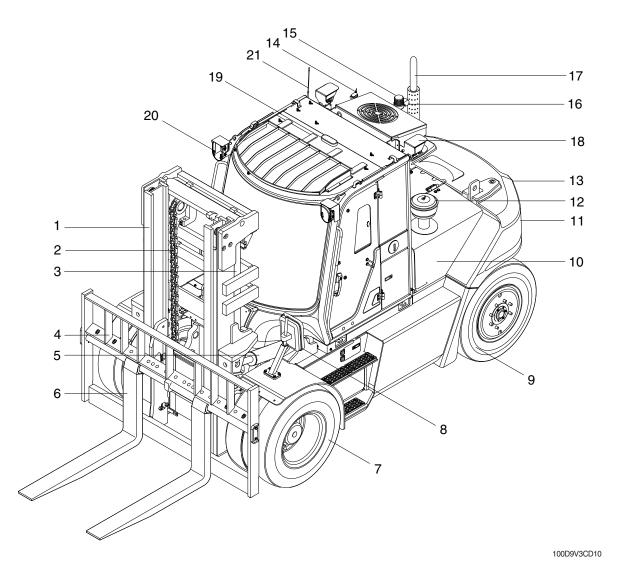
1. GENERAL LOCATIONS

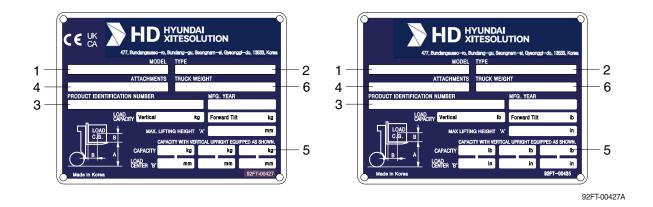


- 1 Mast
- 2 Lift chain
- 3 Lift cylinder
- 4 Carriage and backrest
- 5 Tilt cylinder
- 6 Fork
- 7 Front wheel

- 8 Rear view mirror
- 9 Rear wheel
- 10 Body wing cover
- 11 Rear combination lamp
- 12 Preclenaer
- 13 Counterweight
- 14 Mobile antenna

- 15 Beacon lamp (option)
- 16 Camera (option)
- 17 Silencer
- 18 Rear work lamp
- 19 Cabin
- 20 Head and turn signal lamp
- 21 Antenna

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.

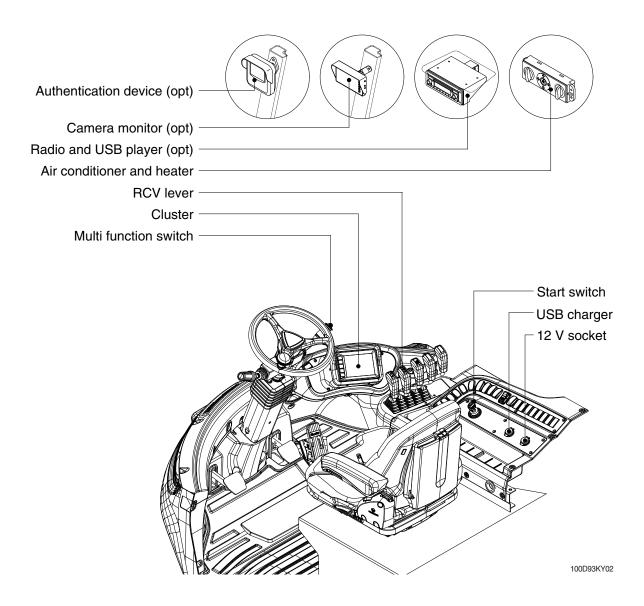
▲ Before modifications that affect the stability of safety systems are made written approval from HYUNDAI. Contact your authorized HYUNDAI dealer for a new nameplate showing the revised capacity.

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.



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.



2) GAUGE

(1) Operation screen

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



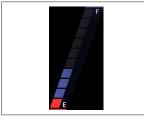
1 Speed meter

2 Fuel gauge

(2) Speed meter



(3) Fuel gauge



3 Coolant temperature gauge

35D9VB3KY04

- 4 Clock
- It indicates the speed of truck and calibrated in miles per hour (mph) or kilometer per hour (km/h).
- Speed unit can be set in the speed unit menu of display set up at page 3-32.
- Fuel gauge displays the approximate amount of fuel remaining in the fuel tank.
- 35D9VB3KY05

(4) Coolant temperature gauge



35D9VB3KY06

- · It indicates the temperature of the engine coolant.
 - White zone : 40 ~ 120 $^\circ\!\mathrm{C}$ (104 ~ 248 $^\circ\!\mathrm{F})$
 - Red zone : Over 120 $^\circ\!\mathrm{C}$ (248 $^\circ\mathrm{F})$
 - Warning lamp on : Over 115 $\,^\circ\!\mathrm{C}$ (239 $\,^\circ\!\mathrm{F})$
- If the gauge display in the red zone, or warning lamp [] comes on, please stop the engine and inspect the coolant system.

(5) Clock



- · It displays current time.
- $\cdot~$ The time can be adjusted at display Set Up > Time Set Up menu.

3) WARNING LAMPS

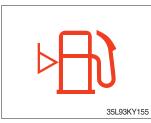


35D9VB3KY08

* 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. And directional indicator lamp will display at the center.

No.		Warning lamp	No.	Warning lamp		
1	⊳ ⊟ }	Fuel Level warning lamp	10	ŧ	Clutch protection warning lamp	
2		Coolant temperature warning lamp	11	COMM ERNOR Cluster-CI - ECU	Communication error warning lamp	
3	+()+	Engine oil pressure warning lamp	12	→((())+	Brake fail warning lamp	
4		Air cleaner warning lamp	13	Å	Seat belt reminder lamp	
5	.	Water in fuel warning lamp	14	(F) (F)	Fingertip warning lamp (NA)	
6	СНЕСК	Engine check warning lamp	15	00	Transmission warning lamp	
7	(Ū)	Engine stop warning lamp	16	Conter Co-550	FSCU Communication error warning lamp	
8	- +	Battery charge warning lamp	17	⚠⚠	FSCU warning lamp	
9	\odot	Transmission oil temperature warning lamp	-	-	-	

(1) Fuel level warning lamp



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

(2) Coolant temperature warning lamp



- \cdot Coolant temperature warning will be lit up when temperature is over 115 $^\circ\!\!C$ (239 $^\circ\!\!F).$
- If the warning lamp is on continuously, please inspect the coolant system.

(3) Engine oil pressure warning lamp



- $\cdot\,$ 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.

(4) Air cleaner warning lamp



- $\cdot\,$ This warning lamp is lit when air cleaner element is clogged up.
- · Please clean up or replace the element.

(5) Water in fuel warning lamp

- · Light up when water in fuel.
- · Stop the engine and please drain the water of the fuel filter.



(6) Engine check warning lamp



- When the engine is ON, it blinks for about 3 seconds. If the warning light remains on after 3 seconds, there is something wrong with the engine control, fuel supply and so on.
- $\cdot\,$ Check the failure code of cluster.
- * Some engine controls may not start if there is a problem.
- Continued operation with the engine warning lamp ON or flashing can damage the exhaust control system, which affects operating performance and fuel consumption. You may also be subject to sanctions related to emission regulations, so be sure to check.

(7) Engine stop warning lamp



- If the lamp lights on, stop the engine immediately and check the engine.
- * Please contact your Hyundai service center or local dealer.

(8) Battery charge warning lamp



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

(9) Transmission oil temperature warning lamp



- Transmission oil temperature warning is consisted of two indications.
 - 110 $^{\circ}$ C (230 $^{\circ}$ F) or higher : Amber is light up
 - 120 $^\circ\!\mathrm{C}$ (248 $^\circ\mathrm{F})$ or higher : Red is flashing
- · When the red lamp lights up during operation, stop the engine and check the truck.

(10) Clutch protection warning lamp



- Warning lamp will be displayed if transmission oil pressure is not enough or while inching operation.
- Please check the transmission when the lamp is displayed without inching operation. If not, the brake performance can be decreased until the problem is resolved.

(11) Communication error warning lamp



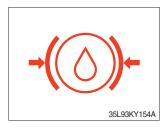
- This warning lamp will be lit up if the communication between cluster-Cl and ECU is fail.
- · Please check the communication line if the warning lamp is lit up.

(12) FSCU communication error warning lamp (option)



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

(13) Brake fail warning lamp



- The lamp lights ON when the oil pressure of service brake drops below the nomal range.
- $\cdot\,$ When the lamp is ON, stop the engine and check for its cause.
- $\ensuremath{\overset{\scriptstyle \otimes}{_{\scriptstyle -}}}$ Do not operate untill the problems are corrected.

(14) Fingertip red warning lamp (NA)



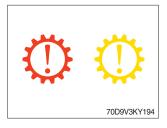
- This lamp lights ON when the forklift truck is in a condition that is serious enough to stop it.
- If the warning light is lit while driving, stop the engine and check the forklift.

(15) Fingertip amber warning lamp (NA)



• This lamp lights ON when there is a problem with the forklift truck system, but the vehicle does not need to be stopped immediately.

(16) Transmission warning lamp



- If the lamp lights on, check the transmission.
- If the red warning light is lit while driving, stop the engine and check the forklift.

(17) Seat belt reminder lamp



- This lamp will be blinked 5 times, after key on.
- If not wearing a seat belt, this reminder lamp will be displayed (option). (If driving over 4 km/h, it will be activated with buzzer)
- If reminder lamp still displayed after wearing seat belt, Please check the seat belt wiring.

(18) FSCU warning lamp (option)



- · If this warning light is lighted, check the failure code of FSCU. (with activating buzzer)
- $\,$ % If the red warning light is lit while driving, stop the engine and check the forklift.

4) INDICATOR LAMPS



35D9VB3KY24

* Warning and indicator lamps will display only items that were set as ON, and all warning and indicator except turning indicator lamp and driving indicator lamp will be displayed in order from the left of screen.

No.		Indicator lamp	No.	Indicator lamp		
1		Consumables management indicator lamp	8	N		
2		Engine warning up indicator lamp	9	F F1 F2 F3	Driving indicator lamp	
3		Fuel warmer indicator lamp	10	R R1 R2 R3		
4	(P)	Parking brake indicator lamp	11	SIDE	Side mirror heated pilot lamp (option)	
5	TILT Lock	Tilt lock indicator lamp (if installed)	12	ED	DrivingHigh beam indicator lamp	
6	OP SS	OPSS indicator lamp	13		Shift mode indicator lamp	
7	••	Driving turn lamp	14	()	Inching switch on indicator lamp	

(1) Consumables management indicator lamp



- · Light 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.

(2) Engine warm-up indicator lamp



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

(3) Fuel warmer indicator lamp



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

(4) Parking brake indicator lamp

· Light up when parking brake is ON.



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

(5) Tilt lock indicator lamp (if installed)

35D9VB3KY29

(6) OPSS indicator lamp



(7) Driving indicator lamp

①Neutral



• This indicator lamp will be lit up when gear selector lever is located in neutral.

· Truck driving and/or mast control will be blocked if lamp is lit up.

· Light up if driver leave seat during operation.

* Please refer to page 0-12 for details.

②Forward



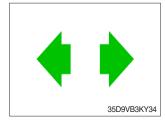
 $\cdot\,$ This indicator lamp will be lit up if the forward gear is selected.

③Reverse



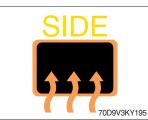
· This indicator lamp will be lit up if the reverse gear is selected.

(8) Driving turn lamp



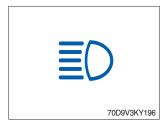
 $\cdot\,$ This indicator lamp will flash if turns on the right or left turn signal.

(9) Side mirror heated indicator lamp (option)



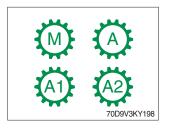
① When the heated mirror is operating, the lamp lights ON.

(10) High beam indicator lamp



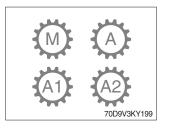
 $\cdot\,$ This indicator is displayed when the vehicle's high beam is on.

(11) Shift mode indicator lamp 1



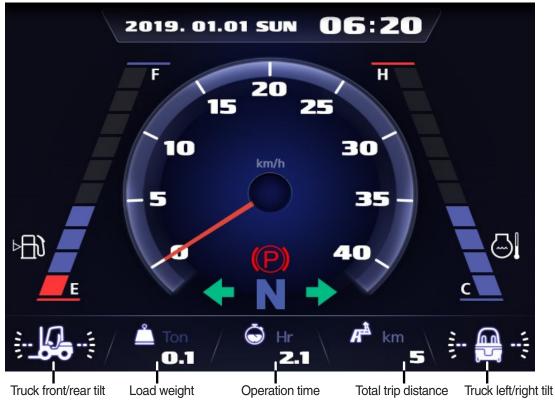
• This indicator shows the current vehicle's shift mode, A1 and A2 are indicated on vehicles with 2nd gear or higher.

(12) Shift mode indicator lamp 2



• This indicator shows the shift mode when activating the 2nd FNR, A1 and A2 are indicated on vehicles with 2nd gear or higher.

5) INFORMATION DISPLAY



35D9VB3KY35

(1) Mast front/rear tilt



· Display the real time tilt of mast.

(2) Truck front/rear tilt



$\cdot\,$ Display the front and rear tilt of truck in real time.

- · The red warning symbol turned on condition.
 - Stop : Tilt angle is higher than 2.3 $^{\circ}$
 - Driving : Tilt angle is higher than 10.2°

(3) Truck left/right tilt



- $\cdot\,$ Display the left and right tilt of truck in real time.
- $\cdot\,$ The red warning symbol turned on condition.
 - Stop : Tilt angle is higher than 3.4°
 - Driving : Tilt angle is higher than 28.0°

(4) Load weight (option)



(5) Total trip distance



- · Display the load weight.
- · Screen will display blurry if the weight sensor has not been mounted.
- · Display total trip distance of the truck.
- · Unit of distance is kilometer.

(6) Operation time



· Display the used time of the truck.

(7) Explanation of warning lamp and indicator lamp



- When warning lamp or indicator lamp comes on, please press the enter button to check detailed explanation.
- During pressing the enter button, it keeps the screen to be shown explanation for warning lamp or indicator.

6) BUTTONS

(1) Camera



(2) UP/Left



· This switch is used to move upward or leftward in menu or

 $\cdot\,$ This switch displays rear camera images. (if the camera is

mounted)

increase the value.

(3) Down/Right



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

(4) Enter (select)



 $\cdot\,$ This switch is used to enter into the menu or to select.

(5) Cancel (ESC)



 $\cdot\,$ This switch is used to cancel or move to upper menu.

7) MAIN MENU

(1) Structure

Menus consist of main menu and sub-menu.



70D9VB3KY42

No.	Main menu screen	Sub menu	Explanation
1	2019. 01.01 SUM 06:20 Equip- ment Main- Main- Display Setting 35D9VB3KY47	 Model select Tilt setting ESL setting Weight sensor setting (option) Camera setting (if installed) Fingertips setting (option, NA) CSC setting (if installed) Auto shift setting (if installed) DCSR setting (if installed) HAC setting (if installed) Vehicle Max speed limit Zero start setting (if installed) Clutch protection beep (if installed) ZF TCU calibration (if installed) Seat belt interlock (option) Cluster-CI info 	 Diesel, LPG Truck tilt initialize ESL setting, Engine start limit, Delay time Enter the cylinder cross section area, Adjust load weight, Weight display setup Reverse gear interworking DCSR on, Cut-off driving speed, Restore driving speed Maximum speed limitation Cluster-Cl information
2	2019. 01.01 SUM 06:20 Equip- ment tenance Display Setting 35D9VB3KY48	 Failure history Consumables management I/O inforamation 	 Engine, Transmission failure history Change oil and filter replacement cycle Analog, Digital signal
3	2019. 01.01 SUM 06:20 Equip- ment Main- tenance Display Setting 35D9VB3KY49	 LCD brightness adjustment User setting A/S phone No. Password change Consumables management 	 Automatic, Manual Time, Unit, Language Change A/S contact Engine starting password connect Maintenance parts management

(2) Equipment menu

① Model Select (a required setting)

Check under the start switch ON status. Selection will be canceled if press the cancel button.

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

1. NO MODEL



Select the your model.

4. Model select



Choose Model Select and enter.

7. Truck model



Please select the exact model name.

10. Check



Check the status which is not shown 'NO MODEL' in main display.

2. Equipment



Enter to Equipment.

5. Diesel or LPG



Please select the fuel type.

35D9VB3KY53

8. Confirm



Confirm the model which you select.

3. Password



35D9VB3KY51

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

6. Truck weight



70D9V3KY44

Please select the truck weight level.

9. Completion



Model selection is completed.

② Tilt Setting

- a. Setting (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.
- A You must set tilt in the flatland since this is a horizontal set up.
- * If tilt sensor for mast is mounted (option), locates the mast vertically.
- * Mast maximum angle depends on the truck.
 - Truck that has not applied the mast angle sensor



1. Equipment



Enter to Equipment.

4. Instruction



Follow the instruction showing in the screen.

Truck that has applied the mast angle sensor (option)



70D9VB3KY59

3. Tilt setting



70D9V3KY50

Choose Tilt Setting and enter.

Enter the password.

8

2. Password

A Ple

6

ase Enter User Password

35D9VB3KY5



Setting has been completed.

b. Check functions

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

b) Auto-leveling (if installed)

- (a) Tilt mast forward or backward.
- (b) Start tilting mast toward its vertical position, pushing the auto tilt leveling switch.
- (c) Check if the mast stops traveling when it becomes vertical to ground.

c) Forward or backward truck tilt warning (red)

- Stop : ±2.3° (1.5 ~ 5 tons)
- \cdot Driving : $\pm 10.2^{\circ}$ (1.5 ~ 5 tons)

d) Left or right truck tilt warning (red)

- Stop : $\pm 3.4^{\circ}$ (1.5 ~ 5.0 tons)
- · Driving

Truck weight	Warning angles (red)
1.5 ~ 2.0 tons	±20.3°
2.2 ~ 3.3 tons	±20.8°
3.5 ~ 4.5 tons	±24.2°
5.0 tons ~	±28.0°

③ ESL (Engine Start Limit) Setting : Default is 'Inactive'

1. Equipment



2019. 01.01 SUN 06:20

🔑 ESL Setting

Inactive

5 min 🕨

35D9VB3KY85

35D9VB3KY88

Enter to Equipment.

a. Setting 1. Inactive

ESL Setting

Choose Inactive.

Inactive Active Delay Time

2. Password Select لم 🔒 Please Enter User Password **** 1 2 3 4 5 7 6 8 9 0 35D9VB3KY51

Enter the password.

2. Change setting 2019. 01.01 SUN 06:20 🔑 ESL Setting Are you sure you want to change the Engine Start Limit? Delay Time 5 min 🕨 35D9VB3KY86

If you want to change setting, press enter button.

3. ELS Setting



Choose ESL setting and enter.

3. Completion



Setting has been completed.

b. Active

1. Active

📙 ESL S	etting
ESL Setting	Inactive
Inactive	
Active	
Delay Time	5 min 🕨

Choose Active.



If you want to change setting, press enter button.

3. Completion



Setting has been completed.

b. Check functions

- (a) Set the mode as active and start switch OFF.
- (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 vehicle 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 vehicle can start within 5 min and start switch OFF.
- (e) check if vehicle requests password after 5 min.
- * Start switch ON screen (When startup control mode is ON)



35D9VB3KY90

c. Delay time

1. Delay time



Choose delay time.

4. Completion



Setting has been completed.

2. Select value

2019. 01.01 SUN 06:20							
🔑 Engine Start Limit							
30min	4hour						
1hour	1day						
2hour	2day						
	ingine Start I 30min 1hour						

35D9VB3KY92 Select value you want to apply. 3. Change setting



35D9VB3KY93

If you are sure to change ESL, press enter.

(4) Weight Sensor Setting (option)

Check under the start switch ON status. There are three settings (unload, load, reset) for weight sensor.

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

a. Setting Cylinder Cross-Section

※ Cylinder cross-section value

			unit : cm ²	
Model	Mast type	V-mast	TS-mast	
	V300~500	113.49	141.76	
100D-9	TS450~500	113.49		
100D-9	V550~600	141.76	100.07	
	TS550~750	141.70	190.07	

. Truck that has not applied the weight sensor



· Truck that has applied the weight sensor (option)



70D9VB3KY63

1. Equipment 2019. 01.01 SUN 06:20 \square Main-tenance Display Setting Equip-ment

Enter to Equipment.

2. Password



3. Weight Sensor Setting 2019. 01.01 SUN 06:20

Model	Select	70D-9V	•
Tilt Se	tting		•
ESL Se	ting	Inactive	•
Weigh	t Sensor Setting		•
Carme	ra Setting	OFF	►

70D9V3KY56 ting and enter.

4. Cylinder Cross-Section 2019. 01.01 SUN 06:20

цц,	Weight Sensor Se	tting	
Cyli	inder Cross-Section	15.00 ar ^a	•
Loa	d Weight Adjustmer	nt	•
Wei	ight Display Setting	n.nn ton	•
Ove	erload alarm	ON	•

70D9V3KY57

Choose Weight Sensor Set- Choose Cylinder Cross-Section. If cylinder crosssection is already set up, setting value is shown in initial screen.

5. Value								
4	Please en	ter the cross	s-section. 🔶	J Select.	/			
ц.	Cylin	der Cro	oss-Se	ction (CII ²)			
66.37								
1	2	3	4	5	•			
6	7	8	9	0	L,			
35D9VB3KY66								

Enter cylinder cross-section Setting has been completed. Check the value whether it value using up or down buttons.

6. Completion



	2019. 01.0	I SUN O	6:20/	
Ľ,	Weight S	ensor Se	etting	
Cyl	inder Cross	-Section	66.37 ണ്	
Loa	d Weight A	Adjustme	nt	1
We	ight Displa	y Setting	n.nn ton	1
Ov	erload alar	m	ON	h

7. Check

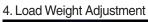
70D9V3KY58 is right.

b. Unloaded status adjustment

1. Equipment



Enter to Equipment menu





Choose Load Weight Adjustment and enter.

7. Completion



Setting has been completed.

2. Password



Enter the password

5. Unloaded Status Adjustment



Choose Unloaded Status Adjustment and enter.

3. Weight Sensor Setting



70D9V3KY56 Choose Weight Sensor Setting

6. Instruction



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

- c. Loaded status adjustment
- ※ Must be prepared to lift up by locating the load on the fork before enter the weight.
- * MCU (Main Control Unit) recognizes the weight automatically by detecting the pressure change.
- * Must be performed within 30 seconds of the lift task. 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.
- * Perform again, if the measurement malfunction is occurred.

1. Equipment



Enter to Equipment menu

4. Load Weight Adjustment



Choose Load Weight Adjustment and enter.

7. Instruction



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



Enter the password



Choose Load Weight Adjustment and enter.

8. Completion



Setting has been completed.

3. Weight Sensor Setting



Choose Weight Sensor Setting

6. Value



Enter load weight using up or down buttons.



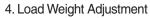
d. Reset

Initialize the all values of 'Unloaded and Loaded Status Adjustment' that were entered previously. (Cylinder cross-sectional area is not initialized.)

1. Equipment



Enter to Equipment menu





Choose Load Weight Adjustment and enter.

7. Completion



Reset has been completed.



Enter the password



Enter to Reset.

3. Weight Sensor Setting



Choose Weight Sensor Setting

6. Check



Press the enter button.

e. Weight Display Setting

Enable to adjust the digit-number fo weight of main screen.

1. Equipment



Enter to Equipment menu

4. Weight Display Setting



Choose weight sensor setting and enter.

· 100 kg unit



35D9vB3KY83

2. Password



Enter the password

5. Unit



Choose unit what you want to use.

· 10 kg unit



35D9vB3KY83

3. Weight Sensor Setting



Choose Weight Sensor Setting

6. Completion



Setting has been completed.

f. Overload Alarm



Enter to Equipment menu

4. Overload alarm



Enter to Overload alarm.





Select ON or OFF.

3. Weight Sensor Setting



70D9V3KY56 Choose Weight Sensor Setting

6. Completion



Setting has been completed.

(5) Camera Setting (if installed)

- · Device setup \rightarrow Camera setup
- 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.
- 1. Equipment



35D9VB3KY47

70D9V3KY70

Enter to Equipment.

3. Reverse gear interworking

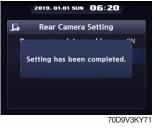


Select ON or OFF.

2. Password								
	Please enter passwo							
A	A Please Enter User Password							
*	****							
1	2	3	4	5	-			
6 7 8 9 0 🚽								
				35D9	/B3KY51			

Enter the password

4. Completion



Setting has been completed.

2. Camera Setting



70D9V3KY69 Choose Camera Setting and enter.



35D9VB3KY98

6 FingerTips Setting (option, NA)

1. Equipment



Enter to Equipment.

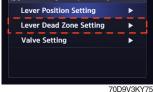
a. Lever Position Setting



Choose Lever Position Setting and Enter

b. Lever Dead Zone Setting





Choose Lever Dead Zone Setting and enter.

c. Valve setting

3-3. Valve Setting

3	2019. 01.01 SUN 06:2	20
Ľ,	Finger-Tip Setting	
Lev	ver Position Setting	►
Lev	ver Dead Zone Setting	•
Va	lve Setting	▶
	/	0D9V3KY

Choose Valve Setting and enter.

2. Password



Enter the password

3. FingerTips Setting



Choose FingerTips Setting and enter.

2. Setting

201	2019. 01.01 SUN 06:20							
_ Le	ver Pos	sition S	etting					
Lift Lever	0.00V	0.00V	0.00V	0.00V				
Tilt Lever	0.00V	0.00V	0.00V	0.00V				
Aux1 Lever	0.00V	0.00V	0.00V	0.00V				
Aux2 Lever	0.00V	0.00V	0.00V	0.00V				
			70D	9V3KY7				

Set minimum and maximum value.

2.8	2. Setting						
	2019. 01.01 SUN 06:20						
Ц	, Lev	er Dead Zone	Setting				
		Upper zone					
Lif	t Lever	0.00V	0.00V				
Til	t Lever	0.00V	0.00V				
Au	x1 Lever	0.00V	0.00V				
Au	x2 Lever	0.00V	0.00V				

70D9V3KY76 Set lever dead zone range.

4. Lift Section Valve

	2019. 01.01 SUN	06:20	/
Ľ,	Valve Sett	ting	
Lif	t Section Valve		•
Til	t Section Valve		•
AL	IX1 Section Valve		•
AL	IX2 Section Valve		•
		70D9	9V3KY78

In the Valve Setting, you can set the lift, tilt, AUX1, or AUX2 section valves

5. Setting.



For each valve value, you can adjust the current value and time on the above screen

⑦ CSC (Curve Speed Control) Setting (if installed)

1. Equipm	nent					
2019. 01.01 SUN 06:20						
L	×	± 1				
Equip- ment	Main- tenance	Display Setting				
		25D0VB2KV/				

Enter to Equipment.

4. Select



Select ON or OFF.

2. Pa	2. Password						
	Please enter passwo 📣 Select.						
	Pleas	e Entei	r User	Passw	ord		
*	**	**					
1	12345-						
	-	2	-	2			
6	6 7 8 9 0 🚽						
F inte	35D9VB3KY51 Enter the password						
Ente	er the	pass	swore	d			

5. Completion

Setting has been completed.

3. CSC Setting



Choose CSC setting and enter.

(8) Auto Shift Setting (if installed)

Enable to turn the function ON or OFF or change the shift speed.

a. Mode Select



Enter to Equipment.

4. Mode Select



Choose Mode Select.

2	. Pas	swo	rd			
	1	Please	enter pass	لم0	Select.	1
	A	Please	e Entei	r User	Passw	ord
	*	* *	* *			
	1 2 3 4 5 -					
		_		•	•	
	6	7	8	9	0	
					35D9	VB3KY51

Enter the password



Select ON or OFF.

3. Auto Shift Setting



Choose Auto Shift setting and enter.

6. Completion



Setting has been completed.

b. Speed Setting

- · In case of 1st gear \rightarrow 2nd gear, it is possible to set up to 7 ~ 10 km/h.
- $\cdot\,$ In case of 2nd gear \rightarrow 1st gear, it is possible to set up to 4 ~ 5 km/h.
- * Depending on the model, the function can be turned on/off only by an external switch.





Choose Speed Setting and enter.



Change the speed value after selecting the shift point that needs to be changed

(9) DCSR (Direction Change Shock Relief) setting (if installed)

- · 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 truck changes direction and starts to travel.
- * Restore drive speed can not be set over the block drive speed.



Enter to Equipment.

4. Mode Select



Select Mode Select.

7. Speed Setting



If you want to change speed setting, enter Speed Setting.

2	. Pas	swo	ord			
		Please	enter pass	لم	Select.	/
	A	Please	e Entei	r User	Passw	ord
	*	* *	* *			
	1	2	3	4	5	-
	6	7	8	9	0	
	U	1	•	5	v	
					35D9	VB3KY51

Enter the password

5. Setting



Select ON or OFF.

8. Drive Speed



Change speed.

3. DCSR Setting



Choose DCSR setting and enter.

6. Completion



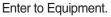
Setting has been completed.

3-32

10 HAC (Hill Assist Control) Setting (if installed)

If you are trying to drive in stop status on the hill, the truck does not move backward when the HAC setting is ON.

1. Equipment 2019. 01.01 SUN 06:20 **└** Equip-ment Display Setting Maintenance 35D9VB3KY47



4. Select



Select ON or OFF.

1 Vehicle Max Speed Limit

1. Equipment



Enter to Equipment.

4. Mode



Enter to Mode.

· Limit speed : 10 km/h



The truck does not exceed the limit speed.

Password A Please Enter User Password **** 2 3 1 4 5 7 6 8 9 0

4

35D9VB3KY51

Enter the password

5. Completion



Setting has been completed.

3. HAC Setting



Choose DCSR setting and enter.



Enter the password

5. Select



Select ON or OFF.

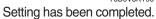
3. Vehicle Max Speed Limit



Choose Vehicle Max Speed Limit and enter.

6. Completion









3-33

2 Zero Start Setting (if installed)

1. Equipment



Enter to Equipment.

4. Select Sensitivity



Select Sensitivity and pressthe enter.

2. Password



Enter the password

5. Setting Sensitivity

	2023.02.0	DI SUN 06	:20
ц	Zero S	Start 기능 설	정
Zero	o Start		ON 🕨
Sen	sitivity	0.4 %	

100D9V3KY10 Change value using up/down

button and press the enter

* Default Sensitivity is 0.4% and it can be changed to maximum 4.8%

(13) Clutch Protection Beep (if installed)



35D9VB3KY47 Enter to Equipment.

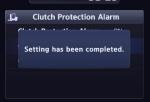


70D9V3KY102 Select ON or OFF.

2. Pas	2. Password						
	Please	enter pass	لہow	Select.			
A	A Please Enter User Password						
*	****						
1	1 2 3 4 5 -						
6	67890 🗸						
v	-	U	5	•			

35D9VB3KY51 Enter the password

5. Completion



70D9V3KY103 Setting has been completed.

3. Zero Start Setting



Choose Zero Start Setting and enter.

3. Clutch Protection Beep



Choose Clutch Protection Beep and enter.

(I) **ZF TCU Calibration** (if installed)

Enable to calibrate the inching and clutch of the transmission.

* Depending on the model, the initial conditions for calibration may be different or the procedure may be automatically skipped.

a. Inching Calibration



Enter to Equipment.



70D9V3KY128

Before starting calibration, turn on the parking switch, the gear neutral, and the inching switch off.

7. Calibration 3



Confirm the completion of calibration and press the ESC button or OK button to exit to the menu



Enter the password



Fully press the inching pedal.





Choose ZF TCU Calibration and enter.

6. Calibration 2



70D9V3KY130

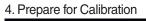
Take your foot off the inching pedal.

b. Clutch Calibration

2-1. ZF TCU Calibration



Choose ZF TCU Calibration and enter.





Before starting calibration, must be satisfied with 5 conditions.

5. Calibration 1	
2019. 01.01 SUN	06:20
📙 TCU Clutch Ca	libration
Clutch K1 🕨 😌	
Clutch K2 🕨 😌	
Clutch K3 🕨 😌	
Clutch K4 🕨 😌	
Clutch KV 🕨 😂	Working
Clutch KR 🕨 😂	Wait
Clutch KW 🕨 😌	Turc
	70D9V3KY186

Wait untill the next button is ON.

2. Password



Enter the password

X Conditions

- 1) Engine RPM 800 to 1100
- 2) T/M temperature 60 $^\circ\!\mathrm{C}$ to 90 $^\circ\!\mathrm{C}$
- 3) Truck speed 0 km/h (stop)
- 4) Gear neutral
- 5) Parking swtich ON

3. ZF TCU Calibration



Choose ZF TCU Calibration and enter.

6. Calibration 1

Enter the next button.

7. Calibration 2



Confirm the completion of calibration and press the ESC button or OK button to exit to the menu

(15) Seat Belt Interlock (option)

1. Equipment



Enter to Equipment.

4. Select



70D9V3KY133 Select ON or OFF.

16 Cluster-Cl



Enter to Equipment.

4. Cluster-Cl



Choose Cluster-CI and enter.

2. Password



Enter the password (applied master password)

5. Completion



Setting has been completed.

3. Seat Belt Interlock



Choose Seat Belt Interlock and enter.

2. Password Please enter pas J Select A Please Enter User Password **** 2 3 1 4 5 7 8 6 9 0

4

35D9VB3KY51 Enter the password

5. Check Version



3. Version



Choose Version and enter.

(2) Maintenance

① Failure History

1. Maintenance



Enter to Maintenance.

4. Engine or Transmission



Choose what needs to check.

2. Password



Enter the password

5. History



3. Failure History



Choose Failure History and enter.

6. Failure List



② Consumables Management

- · If the consumables replacement cycle has been passed, alarm will be displayed as ON.
- · Press the 'Consumables replacement' if replaced the consumables.
- · Information about recent replacement (maximum 9) will be displayed.

6 7 8 9 0

- · If you want to change the cycle, please press the 'Change' button.
- * Refer to page 7-12 about periodic replacement parts.

1. Maintenance



Enter to Maintenance.

4. Select Replacement Item

2019. 01.01 SU	06:	20/	
🛠 Consumables n	nanagei	nent	
Item	Interval	Elapse	Alarm
Engine Oil & Filter	50	2	
Transmission Oil & Filter	100	2	۲
Differential Gear Oil	100	2	۲
Hyd Air breather Ele	500	2	٠
Hyd Oil Return Filter	250	2	٠
Fuel Filter	1000	2	۲

Select the replaced item.

2. Password Please enter passwo... +J select. A Please Enter User Password ***** 1 2 3 4 5 -

35D9VB3KY51 Enter the password



Select Replacement History.

3. Consumables Mangement



70D9V3KY142 Choose Consumables Mangement and enter.





Check history.

7. Replacement



Select Replacement.

10. Setting Cycle



Change properly the interval.

③ I/O Information

1. Maintenance



Enter to Maintenance.

4. Analog signal





Enter to Digital Signal

8. Confirm 2019. 01.01 SW OG:20 Consumables management Are you sure to replace consumable parts? Interval 50 Replacement Change

70D9V3KY147

Press enter button.

11. Completion



Setting has been completed.

9. Change



70D9V3KY148

Select Change.



3. I/O Information



Choose I/O Information and enter.

2. Password



Enter the password

5. Analog signal list

	- 3 -			
2019	. 01.01 SUN	06:	20/	
*	Analog Si	gnal		-
Item				rement lue
Engine RPM			850	rpm
Coolant Temp	erature		60	ъ
Coolant Senso	or Resist		N/A	
Vehicle Voltag	ge		12	Volt
Alternator Vo	ltage		N/A	
Accelerator			0	%
			(0) (9)	3KY1

Check the analog signal list.

7. Digital signal list

0	0		
2	019. 01.01 SUN 🕻)6:20	
*	Digital Sign	al	
Item		I/O	Status
Engine Ch	eck S/W		
Engine Pr	eheat S/W		٠
Fuel Warr	ner S/W		•
Engine Pr	eheat		•
Engine Oi	Pressure S/W		٠
WiF S/W			•
		7000	/3KY15
		70D91	31113

Check the digital signal list.

(3) Display setting

① LCD Brightness Adjustment

- · LCD brightness has two options. (Automatic and Manual modes)
- · Manual mode always keeps the selected brightness.
- · Brightness : Daytime 100%, Nighttime 50%
- · Daytime/Nighttime time zone : 06 ~ 18
- 1. Display Setting



Enter to Display Setting.





Set day and night brightness in the manual mode.

2 User Setting

Enable to set time, unit, and language.



Enter to Display Setting.

a. Time Setting



Select Time Setting.

2. l	Jser Setting	
	2019. 01.01 SUN 0	6:20
t.	Display Settin	ng
	LCD brightness adju	Manual 🕨
	User Setting	•
	A/S Phone No.	•
	Password Change	•
	Consumables mana	►
		35D9VB3KY14

Choose User Setting and enter.

2019. 01.01 SUN 06:20

🗄 Time Setting

2017 01 01 SUN 07 20

Hour Min

35D9VB3KY150

Current Time Setting

2. Setting

Year

Set time.



Select Time Setting.

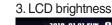


Display Setting		
LCD brightness adju	Manual	•
User Setting		►
A/S Phone No.		►
Password Change		►
Consumables mana		•
	LCD brightness adju User Setting A/S Phone No. Password Change	User Setting A/S Phone No. Password Change

70D9V3KY154 Choose LCD Brightness Adjustment and enter.

5. LCD Brightness 2019. 01.01 SUM 06:20 LCD Brightness Display Brightness Manual Brightness

35D9VB3KY148 Set LCD brightness in the manual mode.





Select Manual or Automatic.

b. Unit Setting

1. Unit Setting 2019. 01.01 SUN 05:20 User Setting Unit Setting Language Setting English 20D9V3KY159

Select Unit Setting.

2. Unit Setting Litst



Enable to set the unit of speed, weight, temperature and pressure.

3. Setting



Set unit.

c. Language Setting

1. Language Setting



Select Language Setting.

③ A/S Phone No.



Enter to Display Setting.

4. New A/S Phone No.



Enter new phone number using up or down buttons and press the enter button.



Choose a language.

2. A/S Phone No.

	2019. 01.01 SUN	5:20
t	Display Settin	g
	LCD brightness adju	Manual 🕨
	User Setting	►
	A/S Phone No.	•
	Password Change	•
	Consumables mana	►
		70D9V3KY1
		700903611

Choose A/S Phone No. and enter.

5. Finish



Contact will be displayed as the modified number.

3. Change



Select phone number if you want to change.

④ 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. Display Setting



Enter to Display Setting.

a. User Password Change



Enter the current user passwrd.

b. ESL Password Change

1. Current User Password



Enter the current user password.



Choose Password Change and enter.



Enter a new user password.



Select User Password Change.





Enter a new user password again.

2. New User Password						
	Please enter password (5~10 digits) Select.					
	Enter new ESL password					
	***	**				
	1	2	3	4	5	-
	6	7	8	9	0	Ļ

TOD9V3KY167 Enter a new user password.

3. Re-enter



Enter a new user password again.

(5) Consumables Management



Enter to Display Setting.

2. Conusmables Management

Choose Consumables Man-

agement and enter.

70D9V3KY174

3. List

2019. 01.01 SUM	06:	20/	
🗶 Consumables n	nanagei	nent	
Item	Interval	Elapse	Alarm
Engine Oil & Filter	50	2	
Transmission Oil & Filter	100	2	۲
Differential Gear Oil	100	2	٠
Hyd Air breather Ele	500	2	٠
Hyd Oil Return Filter	250	2	٠
Fuel Filter	1000	2	٠

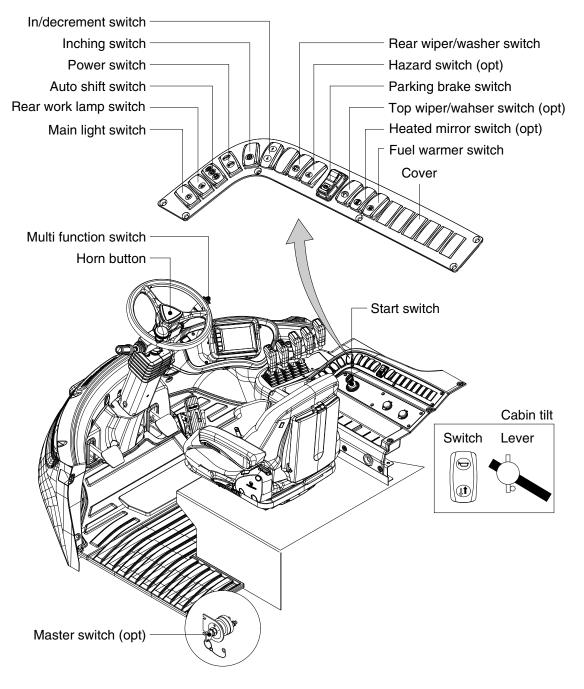
70D9V3KY143

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 fill the engine oil
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 air cleaner filter.
4	Water in fuel warning	1	Water in fuel warning lamp	Please drain the water of the fuel filter.
5	Engine check warning	СНЕСК	Engine check warning lamp	Check the failure code of cluster.
6	Engine stop warning	Ō	Engine stop warning lamp	Check the failure code of cluster.
7	Fuel warmer indicator	, ,,,)	Fuel warmer indicator lamp	Warming up the fuel.
8	Transmission oil temperature warning	ାତା	Transmission oil temperature warning lamp	T/M oil is over temperature condition. 110 $^{\circ}$ C (230 $^{\circ}$ F) or higher : Amber 120 $^{\circ}$ C (248 $^{\circ}$ F) or higher : Red
9	Parking brake indicator	(P)	Parking brake indicator lamp	Parking brake is the operational status.
10	Battery charging warning	- +	Battery charging warning lamp	Battery is not being charged. Please check alternator and wiring.
11	Tilt lock indicator (if installed)	TILT Lock	Tilt lock indicator lamp	Auto-leveling is the operational status.
12	OPSS indicator	OP SS	OPSS indicator lamp	OPSS is working : Driving, lifting, and tilting is locked or the truck is parked status.

No.	Warning lamp types	Symbol	Warning and indicator lamp	Causes and correction
13	Fuel level warning	⊳⊟€	Fuel level warning lamp	Fuel level is low. Please fill the fuel.
14	Coolant temperature warning		Engine coolant temperature warning lamp	Engine coolant is over temperature condition.
15	Clutch protection warm- ing	-	Clutch protection warming lamp	Clutch protection warning operation
16	Consumables replacement indicator		Consumables replacement indicator lamp	Consumables replacement cycle has been passed.
17	LH Turn indicator	•	LH Turning indicator lamp	-
18	RH Turn indicator	•	RH Turning indicator lamp	-
19	Forward gear	F F1 F2 F3	Forward gear, 1 gear, 2 gear, and 3 gear indicator lamp	-
20	Reverse gear	R R1 R2 R3	Reverse gear, 1 gear, 2 gear, and 3 gear indicator lamp	-
21	Communication error warning (ECU)	COMM ERROR Cluster-Cl + ECU	Communication error warning lamp	Communication between cluster-Cl and ECU has been failed. Check communication line.
22	Communication error warning (FSCU)	COMM ERROR Cluster-CI ++ TCU	Communication error warning lamp	Communication between cluster-CI and FSCU has been failed. Check communication line.
23	Brake fail warning	→((()) +	Brake fail warning lamp	Stop the engine and check for its cause.
24	Side mirror heated indicator		Side mirror heated pilot lamp	Side mirror heated operation
25	Seat belt reminder		Seat belt reminder lamp	Please wear seat belt

5. SWITCHES



100D93KY03

1) START SWITCH



- (1) There are three positions, OFF, ON and START.
 - $\cdot \bigcirc$ (OFF) : Position to stop the engine. Insert or remove the ignition key from this position.
 - (ON) : The operation of the electrical device. It is located right next to the OFF position clockwise.
 - $\cdot \bigcirc$ (START) : Engine ignition position. It is located clockwise from the ON position.
- Release the ignition key after the engine is ignited to automatically return to the ON position.
- * To switch the engine back on, return the key to the OFF position and then turn it to the START position.
- If the gear selector lever is not in the neutral position, the engine will not ignite.

2) PARKING BRAKE SWITCH



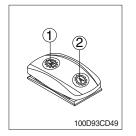
- (1) This switch is used to parking brake lock or release.
- (2) If this switch is pressed, the parking brake is applied and the warning lamp on the cluster will comes ON.
- When operating the gear selector lever, be sure to release the parking brake. If the truck is operated with the parking brake engaged, the brake will overheat and may cause the brake system to go out of order.

3) MAIN LIGHT SWITCH



- (1) This switch is used to operate the head light by one steps.
- 1 First step $% \fbox{2}$: Tail lamp comes ON.
- O Second step : Head lamp comes ON.

4) AUTO SHIFT SWITCH



(1) Manual mode (1)

Press the top of the switch for the manual mode of the autoshift function. The operator selects the desired speed and the desired direction in the manual mode with the gear selector lever.

- (2) Automatic mode (2)
 - Press the bottom of the switch for the automatic mode of the autoshift function.
 - ※ Autoshift function changing from 1st to 2nd forward gear shift mode only. (not for rear gear)

5) POWER SWITCH



(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.

6) INCHING SWITCH



- (1) If this switch is pressed, the inching operation is applied to inching pedal.
- (2) Also, the inching lamp on the cluster is illuminated.

7) IN/DECREMENT SWITCH



(1) When engine running, the low rpm of engine increase or decrease by 25 rpm by operating this switch.

8) REAR WIPER AND WASHER SWITCH



- (1) This switch is used to operate the wiper and washer on the rear of the cab.
- (2) The washer liquid is sprayed and the wiper is operated only while pressing this switch.

9) REAR WORK LAMP SWITCH



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

10) HAZARD SWITCH (OPTION)



- (1) Use for parking, or loading truck.
- * If the switch is left ON for a long time, the battery may be discharged.

11) TOP WIPER AND WASHER SWITCH (OPTION)



- (1) This switch is used to operate the wiper and washer on the top of the cab.
- (2) The washer liquid is sprayed and the wiper is operated only while pressing this switch.

12) HORN BUTTON



(1) If you press the button on the top of the multifunction switch and the center of the steering wheel, the horn will sound.

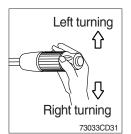
13) MULTI FUNCTION SWITCH





(1) Front wiper and washer switch

- ① When the switch is in J position, the wiper moves intermittently.
- 2 When placed in \blacksquare or \blacksquare position, the wiper moves continuously.
- ③ If you push the grip of the lever, washer liquid will be sprayed and the wiper will be activated 2-3 times.
- * Check the quantity of washer liquid in the tank. If the level of the washer liquid is LOW, add the washer liquid (In cold, winter days) or water. The capacity of the tank is 1 liter.
- Up M Down 50D93CD30



- (2) Dimmer switch
- ① This switch is used to turn the head light direction.
- 2 Switch positions
 - ·Up : To flash for passing
 - · Middle : Head light low beam ON
 - · Down : Head light high beam ON
- ③ If you release the switch when it's in up position, the switch will return to middle.
- (3) Turning switch
- ① This switch is used to warn or signal the turning direction of the truck to other trucks or equipment.
- 2 Push the lever up for turning left, pull the lever down for turning right.

14) MASTER SWITCH (option)



- (1) This switch is used to shut off the entire electrical system. When the machine 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.

15) CABIN TILT SWITCH



(1) Horn (🛏)

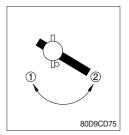
By pressing position ${\rm \ensuremath{\mathbb{I}}},$ the horn sounds and by releasing, the horn stops.

- A Sound the horn to warn near by personnel, before tilting the cabin.
- (2) Tilting of the cabin (\clubsuit , \clubsuit)

Press the cabin tilt switch in order to tilt the cabin to right side or return to original location.

* Refer to page 7-16 for the tilting method of the cabin.

16) HAND PUMP LEVER



- (1) This lever is used when tilting the cabin.
- (2) Turn the hand pump lever to clockwise direction (①), the cabin shall be tilted to right side by the cabin tilt switch.
- (3) Turn the hand pump lever to counterclockwise direction (②), the cabin shall be returned to original location by the cabin tilt switch.

17) HEATED MIRROR SWITCH (option)

- (1) This switch is used to supply heating to side mirrors.
- (2) Turn off the switch when ten minutes elapsed from the switch on or press the switch once more.
- * When the heated mirror is operating, the lamp lights ON.

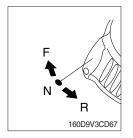
18) FUEL WARMER SWITCH

160D9V3CD68



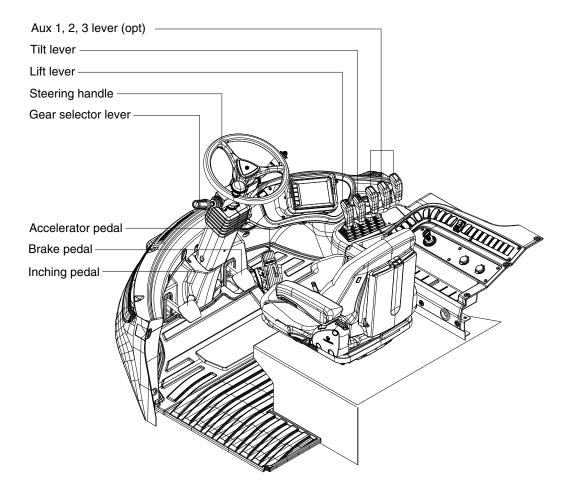
(1) This switch is used to heat the fuel of pre-heater.

19) FNR SWITCH (option)



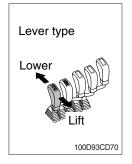
- (1) This switch changes travel direction of truck only when the FNR enable switch is selected ON.
 - \cdot F : Truck moves forward
 - \cdot N : Neutral position
 - $\cdot \, R$: Truck moves backward

6. CONTROL DEVICES



100D93KY04

1) LIFT LEVER



(1) LIFT

PULL the lever BACK to LIFT the forks.

(2) LOWER

PUSH the lever FORWARD to LOWER the load.

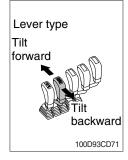
(3) HOLDING

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

* Lifting speed is controlled by the lift lever and the accelerator pedal.

Lowering speed is controlled by the lift lever only.

2) TILT LEVER



(1) TILT FORWARD

PUSH the lever FORWARD to tilt mast FORWARD.

(2) TILT BACKWARD

PULL the lever BACK to tilt mast BACKWARD.

(3) HOLDING

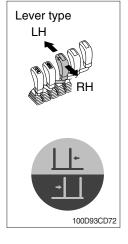
When the lever is released, tilting action stops.

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

3) LEVER FOR SIDE SHIFT

(1) LH MOVEMENT

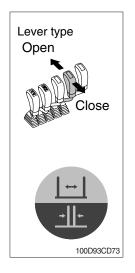
Push the lever forward to move the side shift to the left hand.



(2) RH MOVEMENT

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

4) LEVER FOR SIDE SHIFT WITH FORK POSITIONER (1) FORK POSITIONER (SYNCHRONIZER TYPE)

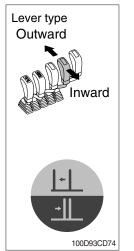


① OPEN THE FORKS

Push the lever forward to open both forks simultaneously.

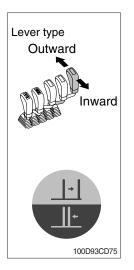
② CLOSE THE FORKS Pull the lever backward to close both forks simultaneously.

(2) FORK POSITIONER (INDEPENDENT TYPE)



1) LH FORK MOVEMENT

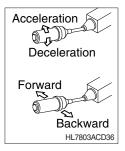
- Push the lever forward to move the LH fork outward.
- Pull the lever backward to move the LH fork inward.



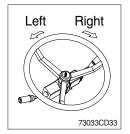
2 RH FORK MOVEMENT

- Push the lever forward to move the RH fork outward.
- Pull the lever backward to move the RH fork inward.
- ※ Operate the aux 2 lever while holding down the aux 3 mode switch.

5) GEAR SELECTOR LEVER



6) STEERING HANDLE



- (1) This lever is used for gear selection, forward 3 stages and reverse 3 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.
- (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.

7) ACCELERATOR PEDAL



8) BRAKE PEDAL



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

(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.

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

9) INCHING PEDAL



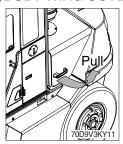
- (1) Inching pedal is used for fine control of forward and reverse movement when lifting up or putting down loads.
- ※ Do not put your foot on the inching pedal or brake pedal unless using it.

10) STEERING COLUMN ADJUST LEVER



- (1) By pulling down the lever, the handle is adjustable to tilt.
- (2) By pulling up the lever, the handle is adjustable to telescope.
- (3) Adjustable steering handle; Accommodates the various conditions of the operator.
 - Tilting abgle : 40°
 - Telescopic stroke : 80 mm

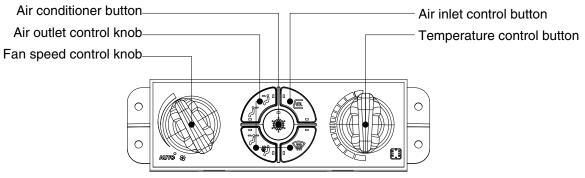
11) BODY WING COVER



- (1) Pull the handle attached on the body wing cover to open it.
- * Keep the body wing cover closed when open the cabin doors.

7. AIR CONDITIONER AND HEATER

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



Air conditioner and heater controller

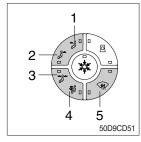
70D9V3KY12

1) AIR CONDITIONER BUTTON



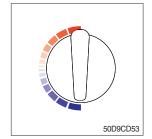
- (1) When you push this button, air conditioner system is operated.
- (2) Determines whether to perform a cooling function of air conditioner.
 ① Pilot lamp ON : Air conditioner operation
 - 2 Pilot lamp OFF : Fan only
- * The AUTO pilot lamp ON when this button is pushed.

2) AIR OUTLET CONTROL BUTTON



- There are five kinds of air flow.
- ① Face
- 2 Rear
- 3 Face and rear
- 4 Face and defrost
- 5 Defrost
- * The pilot lamp is turned ON when the button is pushed.

3) TEMPERATURE CONTROL KNOB



- This knob regulates the temperature of air.
- ① Right rotation (red zone) : Heat up air temperature
- ② Left rotation (blue zone) : Cool down air temperature

4) AIR INLET CONTROL BUTTON



This button regulates the inlet air.

- 1 Pilot lamp ON : Fresh air intake.
- 2 Pilot lamp OFF : The air circulates in the cab.
- * The pilot lamp is turned ON when the button is pushed.
- * Check out the fresh air filter periodically to keep a good efficiency.
- * Change air occasionally when using recirculation for a long time.
- * Check out the recirculation filter periodically to keep a good efficiency.

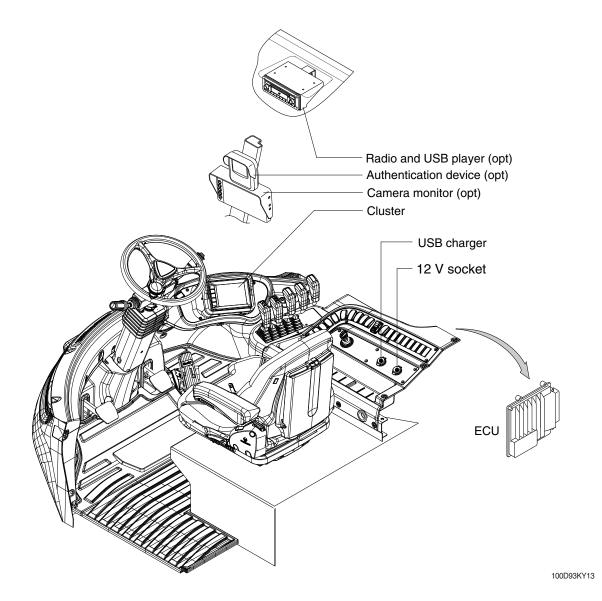
5) FAN SPEED CONTROL KNOB



- ① Fan speed is controlled automatically by set temperature.
- * The AUTO pilot lamp ON when the air conditioner button is pushed.
- ② This knob controls fan speed manually.
- $\ensuremath{\overset{\scriptstyle \ensuremath{\scriptstyle \times}}{}}$ The AUTO pilot lamp OFF when this knob is operated.
- 3 This knob makes the system ON.

Error	Meaning
Ambient sensor open	1. Check assembly status.
Ambient sensor short	2. Ambient temperature sensor exchange after single item check.
In-cabin temperature sensor open	1. Check assembly status.
In-cabin temperature sensor short	2. In-cabin temperature sensor exchange after single item check.
Evap. sensor open	1. Check assembly status.
Evap. sensor short	2. Evap. sensor exchange after single item check.
Water valve sensor open	1. Check assembly status.
	2. Mix actuator exchange after single
Gauge pressure circuit error	1. Check assembly status.
	2. Please refer to the type of fault diagnosis using gauge.
	3. Failure diagnosis and measures. Failure diagnosis of gauge type.

8. OTHERS

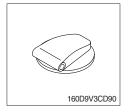


1) 12V SOCKET



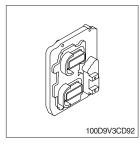
(1) Utilize the power of 12 V as your need and do not exceed power of 12 V, 120 W.

2) USB CHARGER



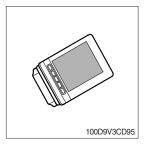
(1) This is possible to use a USB cable to connect a device to a power supply.

3) ENGINE CONTROL MODULE (ECM)



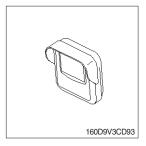
The engine control module (ECM) is the control center of the engine system.

4) CLUSTER



It consists of electronic parts and controls all lamps and buzzers on cluster in accordance with signals transmitted from the switches, the ECM, TCU, the engine and the hydraulic pressure sensors.

5) AUTHENTICATION DEVICE (option)

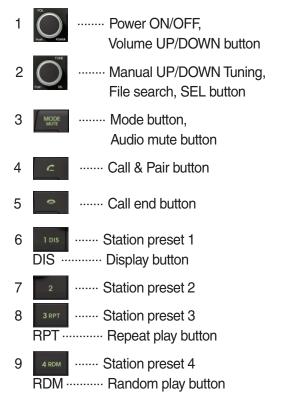


- This is used for RF ID tagging by touching the ID card or entering pin number as an option.
 Also, it is possible to manage driver and safety.
- * Refer to page 3-91 for details.

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



FRONT PANEL PRESENTATION

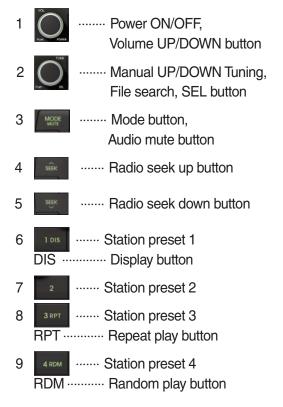


10	5 DIR Station preset 5 DIR- Directory down button
11	6 DIR+ Station preset 6 DIR+ Directory up button
12	Scan play button (SCAN) Best station memory (BSM) button
13	www.Auto tune up, Seek up button
14	Auto tune down, Track down button
15	WX ······· USB connector
16	🔫 AUX IN Jack
17	MIC hole

RADIO AND USB PLAYER (WITHOUT BLUETOOTH, OPTION)



FRONT PANEL PRESENTATION



10 Some 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 Track up button
14 Track down button
15 AXX ······· USB connector
16 🔫 ······· AUX IN Jack

GENERAL

(1) Power and volume button



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.

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



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

 $\mathsf{BAS} \rightarrow \mathsf{TREB} \rightarrow \mathsf{BAL} \ \mathsf{L=R} \rightarrow \mathsf{FAD} \ \mathsf{F=R} \rightarrow \mathsf{EQ} \rightarrow \mathsf{LOUD} \ \mathsf{ON} \rightarrow \mathsf{BEEP} \ \mathsf{2ND}$

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.
- \cdot 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



(2) Manual tuning button



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

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

(3) Auto tuning button





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

(4) Station preset button



- 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



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



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



SEEK

TRACK

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

9403CD107



 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



- 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 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



- 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



(8) ID3 v2 (DISP)



- 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.
- 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°F), 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 mm 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

 \times be used.

BLUETOOTH (if equipped)

(1) Using a bluetooth wireless connection

- \textcircled 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.

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.

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.



a. Bluetooth icon

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



b Battery icon It indicates the battery status of the connected bluetooth device.



c. Single strength icon

It indicates the signal strength of the connected bluetooth device.

(2) Pairing in hands free modes



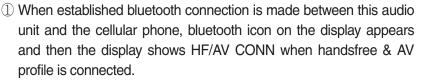
- Press and hold CALL button (4) for 2 seconds until you hear beep sound, then PAIR STR will appear on the display.
- 2 For the next procedure, go to cellular phone pairing mode.
- ③ If it is in pairing status with audio unit and cellular phone, PAIRING will show on the display.
- ④ If you want to exit 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.
- O 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.
- T 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





Press and hold CALL END button (5) for 2 seconds, it shows DIS

2 To disconnect bluetooth link

CON and bluetooth Icon disappears on the display.



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.

- 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



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.

* 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.



- 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



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 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
	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
	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

7) CAMERA MONITOR (option)



960A3CD65

(1) Summary of key actions

No.	Button	Description	Single Cam mode	Function menu - Single Cam
1	٩	POWER	- Beep stop*	- Beep stop* - Menu escape (save & exit)
2		SELECT	Parking guide line On / Off	- 0 : Menu select - 1 : Adjust menu escape
3	\$	MENU	- 0 : Menu enter - 1 : Parking guide line adjust (long key/2 sec)	Menu next page
4		UP	- S*: Previous view - L*: Adjust to the volumn set in the menu	- Menu Up - Menu Adjust Up
5		DOWN	Next view	- Menu Down - Menu Adjust down

· Beep stop : Operates with Power button during beep (MOD) operation and has the highest priority.

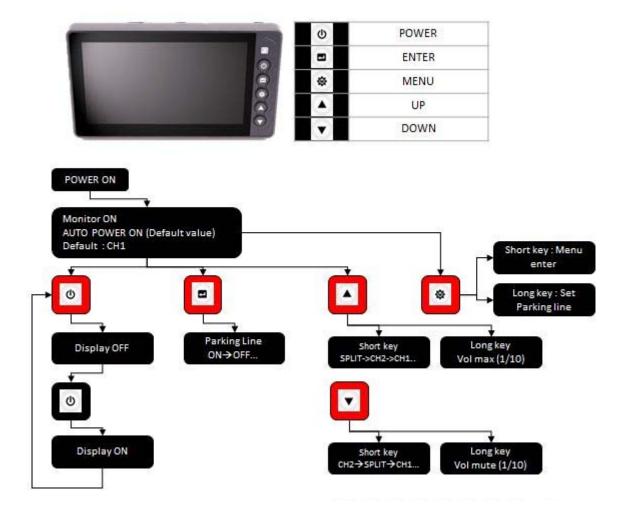
 \cdot Beep stop off : Monitor OFF \rightarrow ON or UP key (L)

 \cdot When alarm beep occurs, key beep mute.

· S : Short key

· L : Long key

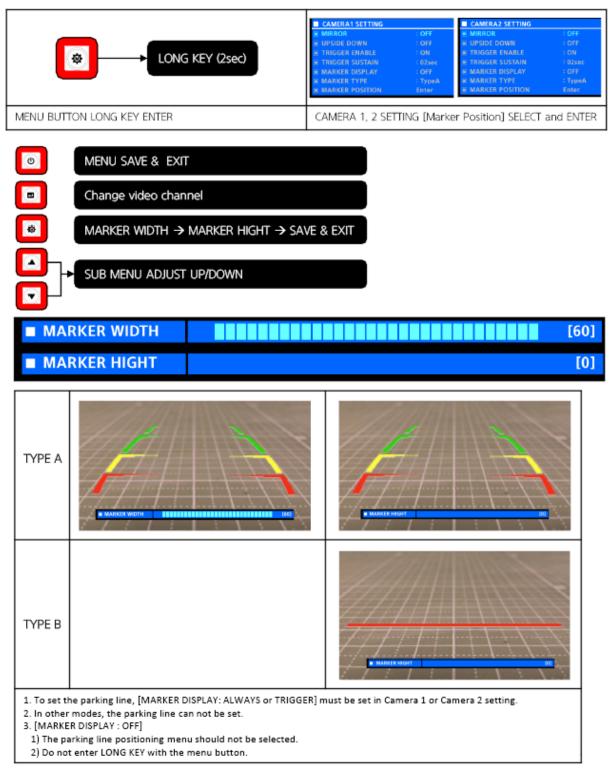
(2) Operation scenario (Single camera mode)



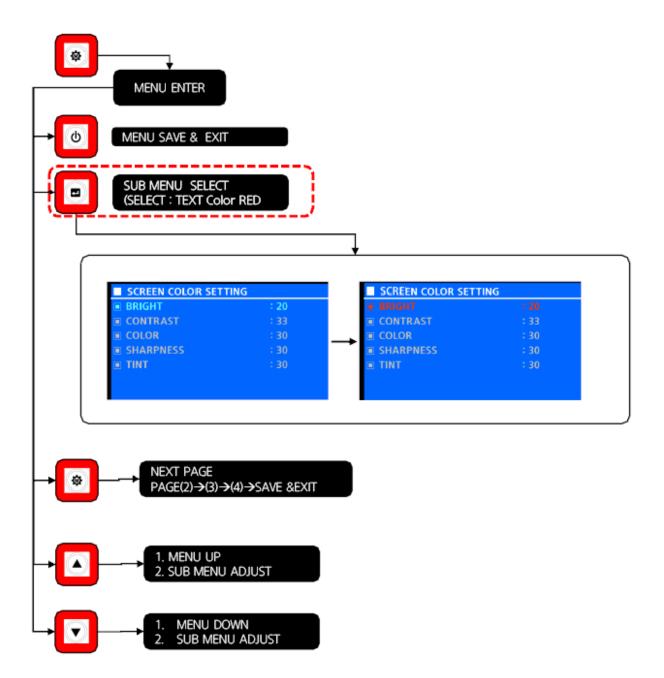
(3) Function menu tree (Single cam mode)

SHOP	RT KEY				
NO	MENU	Pop-up menu	Background video	SETTING VALUE	비고
		SCREEN COLOR SETTING		BRIGHT : 0~60 / 1STEP	DEFAULT : 20
	SCREEN	IN BRIGHT : 20 IN CONTRAST : 33		CONTRAST : 0~60 / 1STEP	DEFAULT : 33
1	COLOR	COLOR : 30 SHAIRPNESS : 30	Previous view	COLOR : 0~60 / 1STEP	DEFAULT : 30
	SETTING	■ TINT : 30	view	SHARPNESS : 0~60 / 1STEP	DEFAULT : 30
				TINT : 0~60 / 1STEP	DEFAULT : 30
				MIRROR : ON/OFF	
		CAMERA1 SETTING		UPSIDE DOWN : ON/OFF	
		IN: MIRROR : OFF		TRIGER ENABLE : ON/OFF	
2	CAMERA 1	UPSIDE DOWN : OFF TRIGGER ENABLE : ON	CAMERA 1	TRIGER SUSTAIN : 1~20sec / 1sec	
2	SETTING	■ TRIGGER SUSTAIN : 02sec ■ MARKER DISPLAY : OFF	CAMERA I	MARKER DISPLAY : ALWAYS/TRIGER/OFF	
	MARKER TYPE MARKER POSITION	MARKER TYPE : TypeA MARKER POSITION Enter		MARKER TYPE : TYPE A / TYPE B	
	MARKER POSITION EITER			MARKER POSITION : ENTER	MARKR WIDTH / HIGHT ADJUST
				MIRROR : ON/OFF	
		CAMERA1 SETTING		UPSIDE DOWN : ON/OFF	
		I MIRROR : OFF UPSIDE DOWN : OFF		TRIGER ENABLE : ON/OFF	
3	CAMERA 2	TRIGGER ENABLE : ON	CAMERA 2	TRIGER SUSTAIN : 1~20sec / 1sec	
5	SETTING	■ TRIGGER SUSTAIN : 02sec ■ MARKER DISPLAY : OFF		MARKER DISPLAY : ALWAYS/TRIGER/OFF	
		MARKER TYPE : TypeA MARKER POSITION Enter		MARKER TYPE : TYPE A / TYPE B	
				MARKER POSITION : ENTER	MARKR WIDTH / HIGHT ADJUST
		SPLIT1 SETTING		SPLIT TYPE : TYPE A / TYPE B	
4	SPLIT 1 SETTING	■ CH1 : CAM1 ■ CH2 : CAM2	SPLIT VIEW	CH1 : CAMERA1 / CAMERA 2	
				CH2 : CAMERA1 / CAMERA 2	
		SYSTEM CONFIG		AUTO POWER : AUTO / ON / OFF	
		AUTO POWER : AUTO AUTO DIMMER : OFF		AUTO DIMMER : ON / OFF	
5	SYSTEM CONFIG	IX BEEP VOLUME : 05 IX LANGUAGE : ENGLISH	SPLIT VIEW	BEEP VOLUME : 0~10 / 1 STEP	DEFAULT : 5
	CONFIG	IX FACTORY RESET : WHOSS/133		LANGUAGE : 한국어 / ENGLISH	DEFAULT : ENGLISH
				FACTORY RESET : Ver x.xx / x.xx	

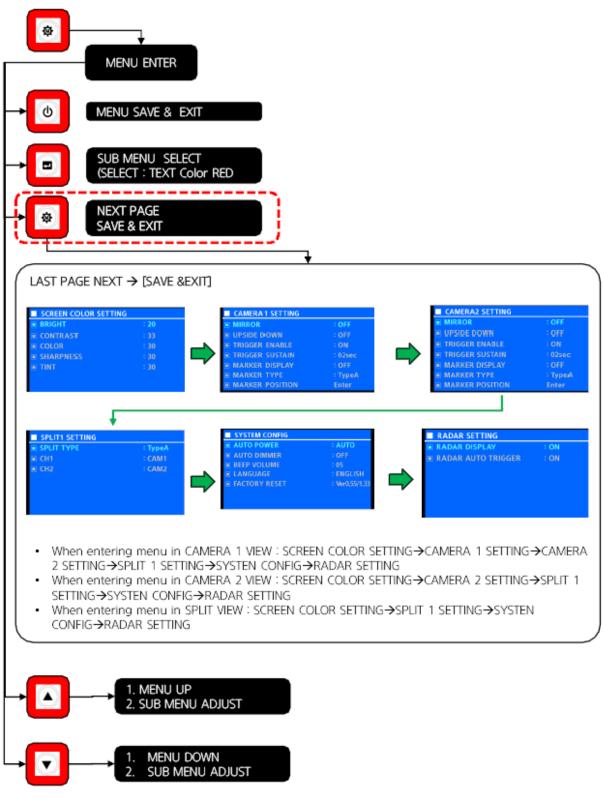
(4) Parking guide line adjust



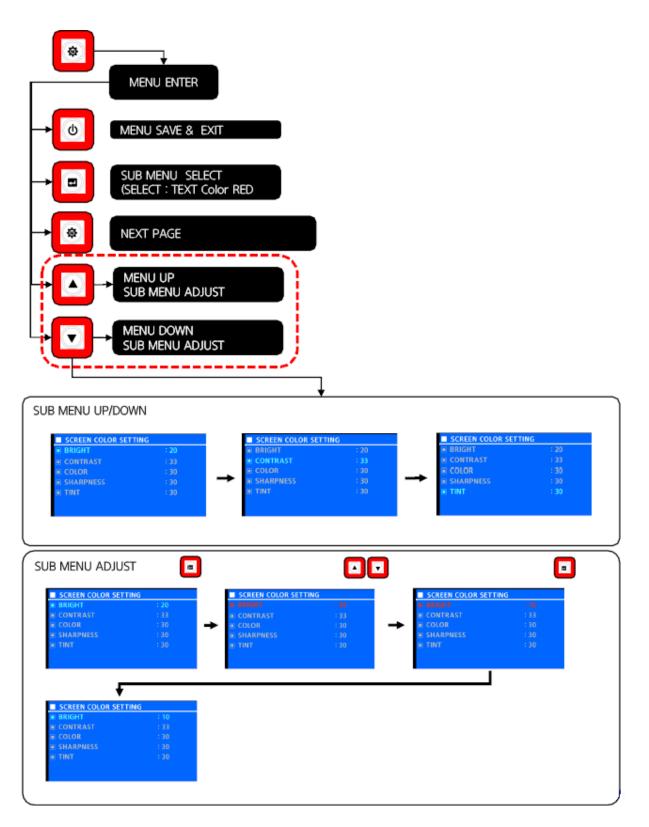
(5) How to set function menu



(6) Composition of menu screen



(7) Value adjustment



8) HI-MATE (BASIC)

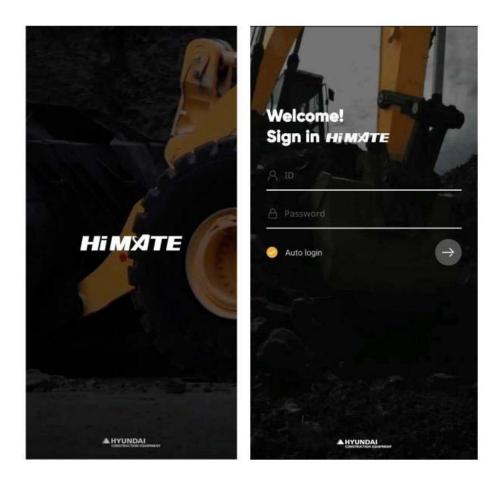
(1) How to connect

① Web : https://himate.hyundai-ce.com



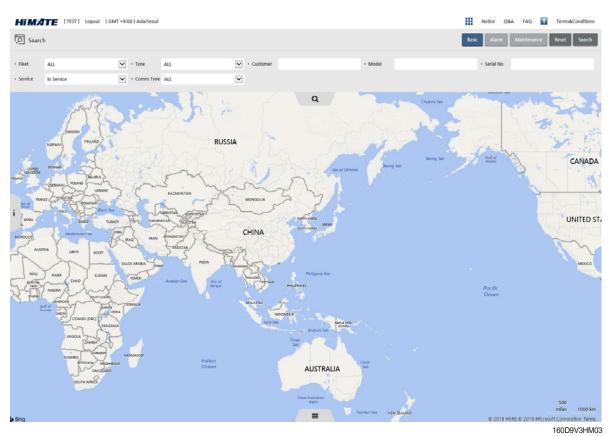
92FT-00426

② App : iOS App Store / Google Play Store Search "HiMATE

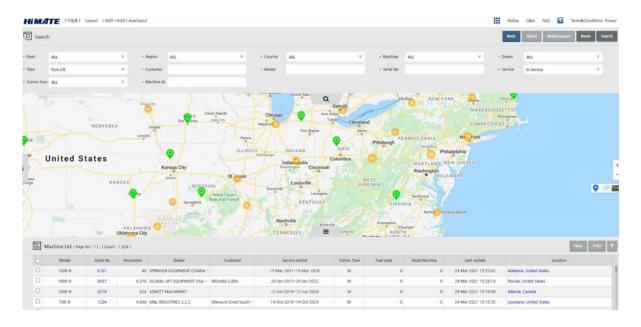


(2) How to search

① You can search, see the result and get additional valuable information at a glance.



2 You can search, see the result and get additional valuable information at a glance.

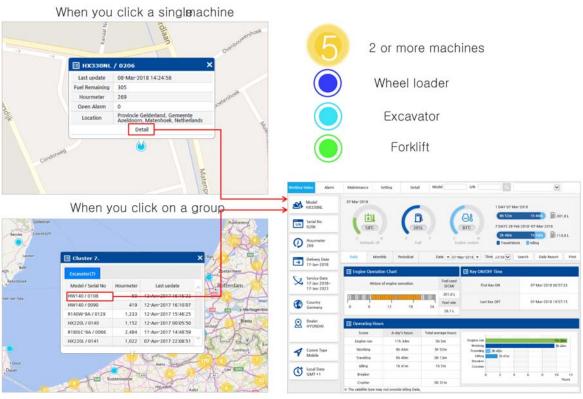


③ After you click the search button, the location (map) and list of the devices that appear as search results appear.

Search									Besk	Alarm Maintenance	level Search
t. All		V + Repla	n All	. v.	+ Country ALL		- Machine ALL	v	+ Dealer	ALL	
e Fork Lift		V • Custa	rtver		* Model		Serial No		+ Service	In Service	v
1600-9/0218	1	384 - 9 70	× 🗉	HX160L / 0304		×	III HL940TM / 02	67		×	
t update	21-Oct-2020 2	2:56:48	Las	t update	29-Mar-2021 11:00:05		Last update	29-Mar-2021 09:59:59)		
el Remaining	210		Fue	Remaining	282		Fuel Remaining	61			
urmeter	ieter 1.082 Hourmeter		837		Hourmeter	267					
en Alarm	1		Opt	en Alarm	0		Open Alarm	0		Ublanc	×
ation	Louisiana, Unit	ed States	Loc	ation	Louisiana, United States		Location	Oklahoma, United Stat	es /		0
	Deta				Detail			Detail	/		Otens
rth Korea		diife Grosse					Norman SEM	NOLE NEVER STATES Sectors Sectors Sectors			Targetta and with the second
							Norman SEM	NEVACA LIAN			- 13440 - 2414 - 13440
en korea		uge					Norman SEM	NEVACA LIAN			- 13440 - 2414 - 13440
Machine Lis	Japan Barris	uge				Committee	Norman SEA	NEVACA LIAN			· 1949 • 0014
Machine Lis	Japan State (Pror No : 1). (Count Senar No	1.001) Hourneter				Com her I	Norman SEA	NUMA USA	CODENSIO AL		Part of the second seco
Machine Lis	Aligner (Typer Hp : 1) . (Count Secial Ho. 0 0014	1.0013 Hourister 5.003 UF	lete O		Serie seriel		Torel cosed.	Noted to a second secon	rs wr. of the second se		Puer P
Machine Lis Machine Lis Model Model 1100-3 1300-3	Japan B (Pere No 1) . (Count Senia No. 0 0014 0000	1.001 J Houmster 1.001 UF 4.995 10	lere O	Customer	Service service 394:00 - 101 - 05 4 60 - 2022 27 Mar: 2019 - 27 Mar: 2024	w	Norman BLA	Version Lab under	Antherica State St	ates ates	Sector and a secto
Machine Lis Model 1100-5 1300-5	(Pron No 1) . (Count Serial No 0 0014 0 0014 0 0030 0339	1.001) Haumster 1.03 UF 4.995 L01 11.847 WR		Customer	Service service 394:00 - 101 - 05 4 60 - 2022 27 Mar: 2019 - 27 Mar: 2024	u u	Norman DE M Norman DE M No E M DE M DE M DE M DE M DE M DE M DE M	Warning Market State 1 24-69-2021 Market 0 24-69-2021 Market	Concerning of Arrivation Concerning of Arrivat	a to service a s	Next of a state of states

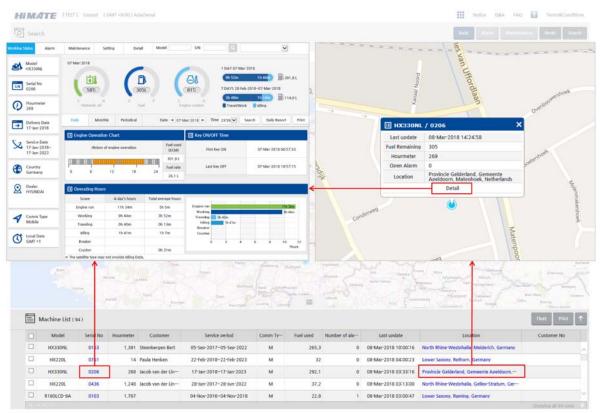
The equipment is expressed in green, sky blue, purple, depending on the type.

4 The icon of the map refers to different types of equipment by color.



(3) How to search machine list

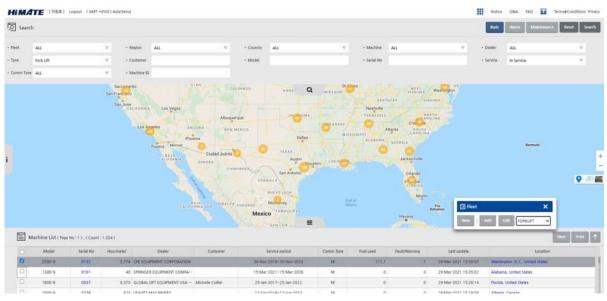
When you click S/N in the list, the details of appliance will be displayed, and when you click the location, the map screen moves to the location of the equipment.



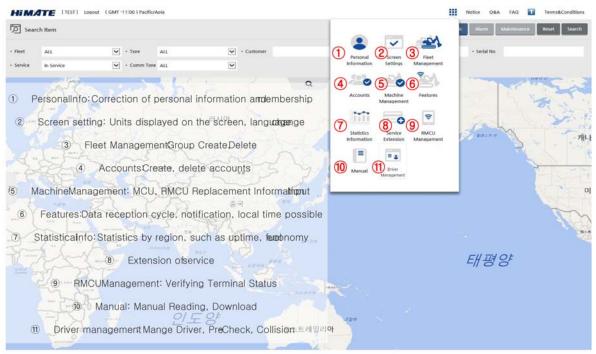
160D9V3HM07

(4) How to create fleet

You can search, see the result and get additional valuable information at a glance.



(5) Application list



160D9V3HM09

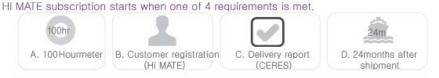
(6) Extension of service

Free subscription for New Equipment with RMS option

HCE offers free Hi MATE subscription for equipment purchased with RMS as an option or a standard. The period may differ by communication type and region. If you replaceor move the RMCU to another equipment, free subscription is not offered

Mobile	Satellite	Dual		
5 years	2 years	2 years		

Forklift is only available for Mobile



How to Extend Hi MATE Subscription

To continue Hi MATE service after termination or to start it for retrofitted RMS, use a service extension card.

Period	Mobile	Satellite	Dual
1 month	21Q8-32360	21Q8-32270	8-3
6 months	21Q8-32350	21Q8-32260	2 .80
1 year	21Q8-32340	21Q8-32250	6
3 years	21Q8-32330	21Q8-32230	

(7) Machine details (engine type)

In the working status, you can find more information, including operation information, alarm, and etc.



160D9V3HM11

(8) Machine details (electric type)

In the working status, you can find more information, including operation information, alarm, and etc.

	Working Status Alarm	Setting Detail			Mode 5/	N	Cluster Gauge		
Menus	Model TEST_DUAL	25-Feb-2021	0	0		AY 23-Feb-2021	Motor Temperature (Master, Traction, Pump, I		
 Working Status Alarm 	Serial No onon	48% 50°C		1000	1000 70	h 08m 0h 01m 🖻 27%	Battery		
 Maintenance Setting Detail 	Hourmeter 1,675	E T C Motor(R	NotorCatt	+ C Motor(Pump)	6 C	Ih 16m Gh 21m 22% Travel/Work kiing	<		
Detail	Delivery Date 23:Apr:2020	Daily Monthly	Periodical		Date # 23-Feb-2021	H Search Daily Report Print	Operation hr & Fuel Used		
General Information	Service Date 23:Apr-2020- 22:May-2025	Machine Operation Ch History of machin		Battery used 27 %	H Key ON/OFF Time	23:Feb-2021 08:30:00	Operationhr/Battery used -Weekly		
 ModelName S/N 	Country South Korea	0 6 12	18 2.	Battery rate 23,1 %/h	Last Key OFF	23-Feb-2021 19:30:00	Operationhr/BatteryUsed		
HourmeterDelivery Date	Dealer HCE TEST LAB	Operating Hours Scope A	day's hours Tota	everage hours	1		Operation Report Machine Operation Cha		
ServiceDateCountry	₩ Mobile	Machine run	1h 10m	1h 26m	Machine na Working Traveling	th 10m. Th Bm Th Am	 Key on/off time Battery Used, Battery R 		
DealerCommunication	C Local Date GMT +9	Working Traveling	1h 8m 1h 4m	1h 3m 0h 59m	Iding 0 0.2	0.4 0.6 0.0 1 1.2			
Type Local Date		Iding	0h 1m ovide Idling Data.	0h 24m	9. N.S.	Hours			
List	Conte	nts		Rema	ĸ				
Battery	Current Bat	tery(%)			192				
Battery Used	Cumulative Batte	ry usage(1day)							
Motor(Right)	Measuring Motor	Temperature	Mas	ter, Traction.	Right Master				
Motor(Left)	Measuring Motor	Temperature	If no mo	or, show N.A	(NOT AVAILABLE)	If there is no Loadweight sensor			
Pump	Measuring Motor	Temperature					entfunction can not be used		
EPS	Measuring Motor	Temperature	If no mo	tor, show N./	(NOT AVAILABLE)	543 (5.027 M			
Machine Run	When Ke	y on					FEH0 for FEH03 must be selected		
Working	When Pump Mo	otor Running				(weight measure	ement screen is dispage		
Traveling	When Traction M	otor Running	0.0						
Idling	When two situations are	not(Working, Traveling)							

(9) Load and angle sensor (EH)

	9)	Load	& Angle Senso	or(EH)
Option Code	Mean	Туре	Detail Mean	Remark
FEH	Load &	FEH01	Load Sensor	9Ser. All
ГСП	Angle Sensor	<u>FEH03</u>	Load Sensor + Angle Sensor	<u>16~30ton</u>
Load Sensor		EH01,EH03) (P	MCU CAN (250k ressure Sensor)	
		onitoring-Indica	ate steering wheel angle for easy opera	ation(EH02,03)

160D9V3HM34A

(10) Machine details (monthly period)

Can check the operating history, temperature distribution, and fuel usage.



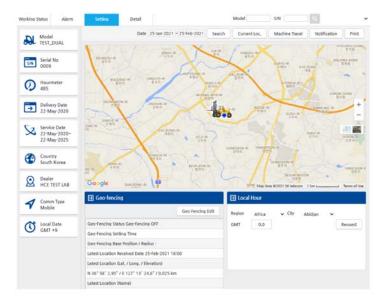
(11) Alarm

Model TEST_DUAL									54	arch Notice Print Al	arm Code Co	slectio
COP ISSISTER		Alarm Not	ice									
Serial No 0009		Date 251	en 2021	- 25-Feb-20	8 +1	ieventur	All		÷	Alem Troe ALL V		
AB5		Dete	Time	Hourineter	Alarm Type	Alem	57%	m	Severity	Description	Trouble Shooting Guide	Casa Shud
Delivery Data		25-feb- 2021	1531		A	8				Weak Signal		
22-May-2020		25-Feb 2021	13:03	404	w	08	537		Stop Soon	(Warning) Transmission Oil Temperature High		
Service Date 22-May-2020-		24 Feb 2021	15:00		A	¥.				Weak Signal		
22-May-2025		24 Feb 2021	13:12	477	w	08	537	•	Stop Soon	(Warning) Transmission OII Temperature High		
Country South Korea		23-feb- 2021	09:29			¥.				Weak Signal		
Dealer HCE TEST LAB		23-feb- 2021	06:29	460	w	D	303	+	Level 5	(Warning) Fuel level low		
		22-Feb- 2021	10:19	460	w	0	537	•	5858 5008	(Warning) Transmission Oil Temperature High		
Comm Type Mobile		20-Feb- 2021	10:48		· A -	The second secon				Week Signal		
C Local Date GMT +9		19-Feb 2021	05:50	451	w	2	319	•	Stor Now	(Werning) Engine Stop		
		19-feb- 2021	05/49	451	w	-	320		Level 5	(Warning) Engine Check		
	50 L	utings							12345			

1,675	neter Alarm Alarm 5/%	 Alamitipe ALL Findle Findle Tradicion Tradicion Tradicion Tradicion Tradicion 	
1,675			1000
		Guide	Cele Shuth
Delivery Date 2021	1674 W 🚺 M243	Service SEQUENCE ANULT	
227eb 1520	1671 W 🔼 M344	Service SLAVE WARNING	
Service Date 22-Febr 16:08 23-Apr-2020- 2021 16:08	1671 W 🕅 M251	+ Service WATTING FOR NODE	
C 22246 15:48	1671 W 🔼 #251	Senice www.misi.rok.noosi	
Country 5outh Kores C 2021 09/23	1669 W 🕅 M243	+ Service SEQUENCE FAULT	
O Dealer 0 20-Febr 1400	1669 W 🕅 M243	Service SEQUENCE FAULT	
C 1976br 1737	1888 W 🕅 M243	Service SEQUENCE FAULT	
Mobile	1667 W 🔼 #251	Service WWITING FOR NODE	
Cocal Data 0 18 feb- 15:12	168.7 W 🚺 1346	Service MASTERIO	
C 1874br 15706	1667 W 🔼 M243	Service SEQUENCE MULT	
27 Eldings		123 -	

Machine issent to HillMate immediately when an alarm occurs. You can check in real time.

(12) Geo-fencing



After setting the location range to use to prevent theft from the current position, the alarm occurs when the position is exceeded.(Can be received.MgrilE& SMS)

160D9V3HM15

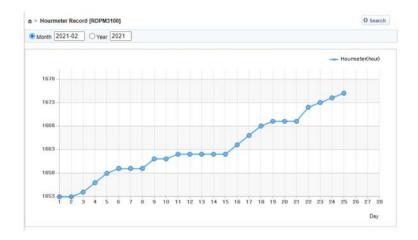
(13) Alarm



Weight can be measured up to 99,999ton a day, and workloads are recorded during the day. Electric: ECONOM (⇐ E), Standard (₦), POWER = H) mode Engine: Standard (=Eco), Power (=Standard) mode.

Weight logic: When the weight is more than 100kg, Stackedevery second. When it is less than Weight (ton)= Weight Sum / Count

(14) Hourmeter



You can check the daytime HOURMETER to verify that it was excessively used in a specific date.

160D9V3HM17

(15) Temperature (available in dealer accounts)



The engine type measures theydraulic, Engine Coolant, Transmission Oil temperature. The electrictype measuresthe temperature for each motor. You can measure the temperature distributionom 30°C to 100°C to determine whether the equipmentis excessively used or there is notoblem. In addition, it is possible to manage the equipment to make sure that the maximum temperature is recorded.

(16) MCU information (available in dealer accounts)

					 A ≥ MCU Information MCU Information Manufacture Date 06-Oct-2020 MCU Change Histor No Replace I 	MCU Program Version 2.6	MCU Serial No 20J06-013 Hourmeter diff	Machine Model 45D-9E Terence	O MCU info Required date 02-Feb-2021 10:25
					MCU Information Manufacture Date 06-Oct-2020	MCU Program Version 2.6			Received date
					MCU Information Manufacture Date	MCU Program Version			Received date
					MCU Information		MCU Serial No	Machine Model	
						[RDPM0500]			O MCU info Req
						[RDPM0500]			O MCU info Requ
	occase bare	HICO SKINE NO	Hour	<u>Sec</u>	Name	Date			
lo	Replace Date	MCU Serial No	Hourmeter dif	Terence		Input			
	ge History					-Manufactoria (2019)			
	ar-2020	3.6	1903M00451	(inter-	BT-9(4)	02-Feb-2021 11:55			
Manufact	ture Date	MCU Program Version	MCU Serial No	Mac	hine Model	Received date			
CU Infor	rmation								
MCO IN	formation [RDP	-M0500]				O MCU info Request			

You can check the date of manufacture, MCU Program version, serial numlaethinemodel name

160D9V3HM19

(17) Running history (available in dealer accounts)

Month 20	21-02 O Period 25-Jan-2021 - [25-Feb-2021					
Dete	History of engine specalion	tiourmeter	Engine.run	Working	Itaminu	Inchine.Hour	Dest.Lore
28-Feb-2021							
27-Feb-2021							
25-Feb-2021							
25-Feb-2021		405	4h 53m	2h 57m	38 Qm		77.%
24-Feb-2021		400	5h 42m	3h 52m	3h 41m		51.%
25-Feb-2021		474	6h 10m	4h 0m	31:5411		39 N
22-Feb-2021		450	10n 7m	6h 17m	6h 18H		85
21-Feb-2021							
20-Feb-2021		458	On 56m	0n 30m	0n 22m		32 %
19-Feb-2021		457	6h 16m	3h 22m	35.25m		44.55
18-Feb-2021		451	6n 34n	3n 41m	3h 48m		54.7
17-Feb-2021	4 12 11 24	444	6h 36m	4h 1m	3h 45m		35 %
16-Feb-2021	CHARLES AND AND AND ADDRESS AND ADDRESS	437	61.63m	3h 24m	31.34m		55 N

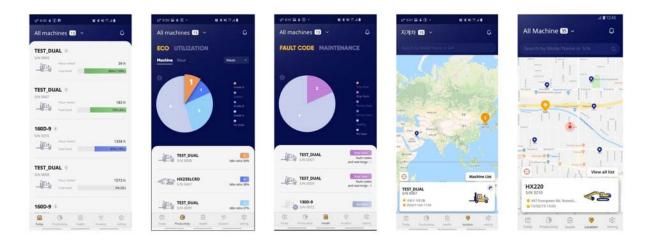
Month 20	21-02 OPeriod 25-Jan-2021 = 2	5-Feb-2021					
Date	History of machine operation	Hoarmeter	Machine run	Actual worki	Traveling	kling	Batlery Leve
28-Feb-2021							
27-Feb-2021							
26-Feb-2021	$\begin{array}{c} \hline \\ \hline \\ 0 \\ 0 \\ \end{array} \\ \hline \\ 0 \\ \end{array} \\ \hline \\ 0 \\ 0 \\ \end{array} \\ \hline \\ 0 \\ 0 \\ 0 \\ \end{array} \\ \hline \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$						
25-Feb-2021		1,675	1h 6m	0h 52m	0h 49m	0h 13m	67.%
24-Feb-2021		1,674	1h 4m	1h 3m	1h 2m		84 %
23-Feb-2021		1,673	1h 10m	Th Bm	1h 4m	On 1m	96 W
22-Feb-2021		1,672	3h 23m	2n 17m	2n 7m	1h ôm	73 %





You can see how you used thequipmentby date and you can export it with PRINT (Excel, etc.).

(18) Mobile app



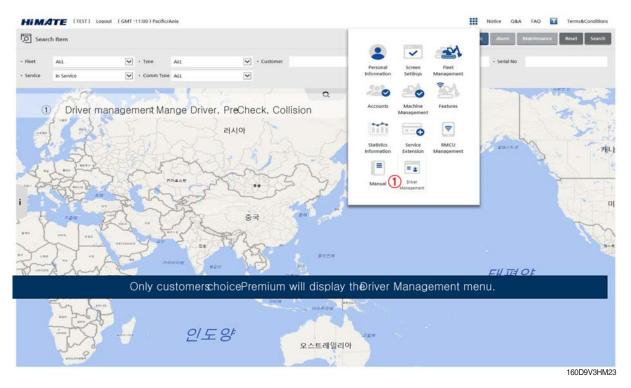
You can check equipmenstatus,utilizationrate, fault, positionetc. <u>Easyto check</u>

9) HI-MATE (PREMIUM)

(1) Brief benefit

	New features - Built in Impact sensor : Detect and report the truck shock. - RF ID tag : To use the truck, operator has to touch the ID CARD or enter Pin N (Login and Logoff time is on reporting via tele communication) Case engine forklift - During key on: Can'tstart the engine(disableengine start function) - During Enginerun: Unableto drive/work.(enabletravel cut, attachcut) Case Electricforklift: - During key on(=machinerun): cannotdrive/work.(truck active: No status)
DRIVER MANAGEMENT	It is possible to certify drivers and manage their work throughind or PIN password. You can see when the driver has used and stopped experipment. You can also see how well the driver used thequipment. (You can check the operating hours for each driver)
SAFETY MANAGEMENT	It provides a precheck& Collision & Over speed check function Make sure the driver is ready to work It provides collision information function If a impactoccurs, thempactevent is sent to HMate.
Manage Elles Manage Difeer Manage Percheck Manage Collicion Manage Collicion	
a Categori Haven - Calibases report (ICOPORTA)	Period (17-Dec-2021) - [25-Dec-2021] - Site MOOMS. V = Model
B TET DOM/DD1 N 0 204.4 Own Exclution Value Date <	Name No Ste Date & Time Model Power OI A1 Time so No No Name Yes ZAM Yes Yes Yes ZAM Yes Yes
	160D9V3HM22

(2) How to access menu



(3) Manage sites

	himate.hyund	ai-ce.com/Page	/Pop/E	OPO/EOF	00001.a	spx					
	Manage Sites	Manage <mark>Driver</mark>	м	anage Pre	check	Manage Collision	Manag	e report			
	III SITE										
											Refresh
		1	ave	New	WO	HO TEST	Add	Machine	WONHO TEST	Add	
	Site	WONHO TEST				Model	Serial No	Driver	User Name	User ID	
	Site	E	uipmen	t	TEST	M3_TAEHA	0001	7	LEE KANG SUN	A4220**	
	MOONSU TEST		3	1	TEST.	DUAL	0007	0	PARK MOON SU	A4497**	
	PAOLO TEST		2	5	TEST.	DOAL	0010	8	KIM WAN SOO	A4615**	
	WONHO TEST		Ą		UST.	DUALF	0002	9	SHIN YOUNG PYUNG	A5070**	
				/					Kyungwoo Kyungwoo	Kyungw**	
			8	2			Save Can	cei	HYUNDAI		
400	Machines of site group								CONSTRUCTION EQUIP AMERICAS,	Morga**	
Mo	del - 5/ħ	4 Sea	rch	+ Si	te	WONHO TEST			INC JASON		
	Model	Serial No		0		Model	Serial No		TAEHA MECHATRONICS	tae	
	MODE			0	TEST	M3_TAEHA	0001		meenantonics		
	TESTM3_TAEHA	0001					0007				
	TESTM3_TAEHA TEST_DUAL	0001			TE	ST_DUAL					
	TEST_DUAL	0006		0		ST_DUAL	0010				
	TEST_DUAL TEST_DUAL	0005			TE		0010				
	TEST_DUAL TEST_DUAL TEST_DUAL	0005 0007 0008		0	TE	ST_DUAL					
	TEST_DUAL TEST_DUAL TEST_DUAL TEST_DUAL	0005		0	TE	ST_DUAL					
	TEST_DUAL TEST_DUAL TEST_DUAL	0006 0007 0008 0009		0	TE	ST_DUAL					
	TEST_DUAL TEST_DUAL TEST_DUAL TEST_DUAL TEST_DUAL	0006 0007 0008 0009 0010		0	TE	ST_DUAL					

You can also register SUB users with Site and managem together

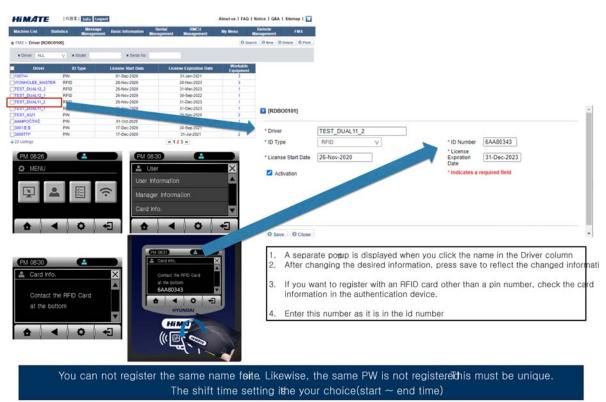
160D9V3HM24

(4) Manage drivers (use pin number)

Site WONHO	V Model		Serial No		Driver									
Site	Driver	ID Ty	e License Start	License Expiration Date	Start Time	End Time	Workable		Not					
/ONHO TEST	W3000	PIN	2021-03-04	2021-03-31			2		and a constant of the					
ONHO TEST	W3001	PIN	2021-03-04	2021-03-19			3							
VONHO TEST	W3002	PIN	2021-03-04	2021-03-22			3							
VONHO TEST	W3003	PIN	2021-03-04	2021-03-25			3	D	100		18 - 22			
ONHO TEST	WCARD	REID	2021-03-17	2023-12-21			2	1.	Press	the New bi	utton t	o register	a nester	
VONHO TEST	WONHO1000	PIN	2021-03-04	2021-03-18	16.21	16:24	3	2.	Set dr	ver inform	ation a	ind expiration	tion date	to be regi
	and the last of the particular to the second							3.	Andes	ve it after	nrocei	na the act	ivation h	utton
ONHO TEST	WONHO2000	PIN	2021-03-04	2021-03-17	01:56	12:57	2	0.	And Se	ve it after	pressi	ing the act	ivation c	otton.
/ONHO TEST	현대 1007	PIN	2021-03-04	2022-01-21			3							
/ONHO TEST	현대4000	PIN	2021-03-03	2021-10-21	03:41	12:01	3							
THE GIVEN	latrie cart be en	tered up to	16 characters					Update	Mgt [EOPO					O Save
THO GIVE I	laine cair de en	tered up to	16 characters				* Driver	Update	WONH	0 HYUNDAI		C. M. online	7777	O Save
mounter		tered up to	<u>16 characters</u>					Update		0 HYUNDAI	_	D Number	7777	
		tered up to	<u>16 characters</u>				* Driver		WONH	O HYUNDAI		D Number License Expiration		
	nage Driver (EOP00200)	tered up to	<u>16 characters</u>		O Search O New		* Driver * ID Type * License Star	rt Date	PIN 17-Mai	0 HYUNDAI	- I D	License Expirationate	on 20-Apr	-2021
		• Serial No		Criwer	D Search O New		* Driver * ID Type * License Star & Start Time	rt Date e	PIN 17-Mai	O HYUNDAI	D. Er	License Expirationate ate nd Time	on 20-Apr 오후	
e Manage Driver > Mar • Site WoherD	nage Driver (EOPO0200) V • Modet	• Serial No		Driver		O Delete O	* Driver * ID Type * License Star	rt Date e	PIN 17-Mai	0 HYUNDAI	D. Er	License Expirationate	on 20-Apr 오후	-2021
e Manage Driver > Mar • Site WONHO Site	nage Driver (EOP00200) V + Model Ditreer	• Serial his ID Type Licens D	Start License o Expiration Date		Time Works	O Delete O	* Driver * ID Type * License Star & Start Time	rt Date e	PIN 17-Mai	0 HYUNDAI	D. Er	License Expirationate ate nd Time	on 20-Apr 오후	-2021
Manage Driver > Mar Site WORHO Site WORHO TEST	nage Driver (EOPO0200) V e Model Driver V13000	• Senial No 10 Type Licens Pdv 2021-	start Lorese to Expansion Date 304 2021-03-31	Driver	Time Works Equiper 2	O Delete O able Not transmitte	* Driver * ID Type * License Star & Start Time	rt Date e	PIN 17-Mai	0 HYUNDAI 2021 2:34 ©	El	License Expiration ate Ind Time Indicates a requ	on 20-Apr 오후 uired field	-2021
e Manage Driver > Mar • Ente VVONHO Site	nage Driver (EOP00200) V + Model Ditreer	• Serial his ID Type Licens D	start License 6 Examples Date 10-04 2021-03-31 3-04 2021-03-19	Driver	Time Works	O Delete O able Not transmitte	* Driver * ID Type * License Star & Start Time	rt Date e	PIN 17-Mai	0 HYUNDAI 2021 2:34 © Pin Tyr	EI EI EI EI EI EI EI EI EI EI EI EI EI E	License Expiration ate Ind Time Indicates a requ Only enter	on 20-Apr 오후 uired field 4 digits	-2021 11:34 ©
6 Manage Driver - Ma • Sta Wotero Sta Wotero TEST • Wotero TEST	Nage Driver (EOP00200) V + Madel Driver W3000 W3001	• Senial Para to Type Licens Para 2021- Para 2021-	Start License Expension Data 2021-03-31 30-4 2021-03-32 30-4 2021-03-32	Driver	Time Works Equiper 2	O Delete O able Not transmitte	* Driver * ID Type * License Star & Start Time	rt Date e	PIN 17-Mai	0 HYUNDAI 2021 2:34 © Pin Tyr	EI EI EI EI EI EI EI EI EI EI EI EI EI E	License Expiration ate Ind Time Indicates a requ Only enter	on 20-Apr 오후 uired field 4 digits	-2021
Manage Driver - Mai Site WORHO WORHO TEST WORHO TEST WORHO TEST	Nage Driver (EOPO0200) V Nage W3000 W3001 W3002	Genal No Type License D Type D PiN 2021- PiN 20	Start L Sense 0 Excuestion Data 04 2221-423-31 15-04 2221-423-19 13-04 2221-43-23 13-04 2221-43-24 13-04 2221-43-25	Driver	Time Works Equiper 2 3 3	O Delete O able Not transmitte	* Driver * ID Type * License Star & Start Time	rt Date e	PIN 17-Mai	2021 2:34 0 Pin Typ PFID Ty	DE: Can	License Expiration ate Ind Time Indicates a requ Only enter	on 20-Apr 오후 uired field 4 digits	-2021 11:34 ©
Manage Driver > Mai Stal WORHO Stal WORHO TEST WORHO TEST WORHO TEST WORHO TEST WORHO TEST WORHO TEST	Driver [EOP00200] V • Madgi Driver V13001 V13002 V13002 V13003 V13002	Bertal Fus D Type License D Type PIN 2021- PIN 2021	Start Lorese Explasion Date Explasion Date 304 2021-03-31 304 2021-03-32 304 2021-03-32 304 2021-03-32 30-4 2021-03-32 30-4 2021-03-32 30-4 2021-03-32 30-7 3023-142-32 30-77 2023-142-32	Driver	Time Works Equipm 2 3 3 3 3 2	O Delete O Ible Nol Intent Transmitte	* Driver * ID Type * License Star & Start Time	rt Date e	PIN 17-Mai	2021 2:34 0 Pin Typ PFID Ty	DE: Can	License Expiration ate Ind Time Indicates a required only enter n only enter	on 20-Apr 오후 uired field 4 digits	-2021 11:34 ©
Manage Driver - Mar Sale Workero Test Workero Test Workero Test Workero Test Workero Test Workero Test Workero Test Workero Test Workero Test	Node Entrer (E0P00000) V • Model V0000 V0000 V0000 V0000 V0000 V0000 V0000 V0000 V00000 V00000 V00000 V00000	Sprist No D Type Licens D Type Vicens PN 2021- PN 2021- PN 2021- RFID 2021- FN 2021- FN	Statt L berree 1000000000000000000000000000000000000	Start Time End	Time Worka Equipr 2 3 3 3 3 4 0 2 4 3 4 0	O Delatar O	* Driver * ID Type * License Star & Start Time	rt Date e	PIN 17-Mai	2021 2:34 0 Pin Typ PFID Ty	DE: Can	License Expiration ate Ind Time Indicates a required only enter n only enter	on 20-Apr 오후 uired field 4 digits	-2021 11:34 ©
Manage Driver - Mai Bite WORHO WORHO TEST WORHO TEST WORHO TEST WORHO TEST WORHO TEST WORHO TEST WORHO TEST	Nage Driver [[/OP00200] V • Model Extrem Cather W1300 W1001 W1000 W1000 W0040 D W0040 W0040 D W004100 W0041000 W0041000	Cental Pairs Control Pairs Control Control PIN 2021- PIN 2021- PIN 2021- PIN 2021- PIN 2021- FIN 2021	Start Lcense Capation Date Capation Date 3-04 2021-63-31 3-04 2021-63-22 3-04 2021-63-25 3-04 2021-63-25 3-04 2021-63-25 3-77 2023-162-10 3-97 2021-63-25 3-97 2021-63-25 3-97 2021-63-25 3-94 2021-90-17 3-94 2021-90-17	Start Time End	Time Works Equiper 2 3 3 34 57 2	O Delate O Dia Nol Internet Uranenintit	* Driver * ID Type * License Star & Start Time	rt Date e	PIN 17-Mai	2021 2:34 0 Pin Typ PFID Ty	DE: Can	License Expiration ate Ind Time Indicates a required only enter n only enter	on 20-Apr 오후 uired field 4 digits	-2021 11:34 ©
Manage Driver - Mar Site Workeo Workeo TEST Workeo TEST Workeo TEST Workeo TEST Workeo TEST Workeo TEST	Node Entrer (E0P00000) V • Model V0000 V0000 V0000 V0000 V0000 V0000 V0000 V0000 V00000 V00000 V00000 V00000	Sprist No D Type Licens D Type Vicens PN 2021- PN 2021- PN 2021- RFID 2021- FN 2021- FN	Stati L Device Experison Experison 10-44 2021-40-31 10-44 2021-40-32 10-44 2021-40-32 10-44 2021-40-32 10-47 2021-40-42 10-47 2021-40-42 10-47 2021-40-42 10-47 2021-40-42 10-44 2021-40-11 10-44 2021-40-11	Start Time End	Time Works Equiper 2 3 3 3 3 4 0 2 3 4 0 2 5 7 2 3 3	O Delate O cole Nol ment Pranswitte	* Driver * ID Type * License Star & Start Time	rt Date e	PIN 17-Mai	2021 2:34 0 Pin Typ PFID Ty	DE: Can	License Expiration ate Ind Time Indicates a required only enter n only enter	on 20-Apr 오후 uired field 4 digits	-2021 11:34 ©

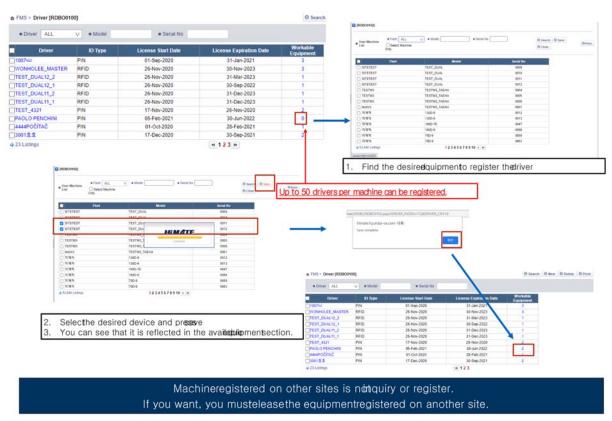
You can not register the same name foite. Likewise, the same PW is not registereithis must be unique. The shift time setting ithe your choice(start ~ end time)

(5) Manage drivers (use RFID number)



160D9V3HM26

(6) How to register a driver to use the equipment



(7) How to check driver information in the authentication device

Driver ALL	V Model	Serial No					
- one	v House	- Gernar (10					
Driver	ID Type	License Start Date	License Expiration Date	Start Time	End Time	Workable Equipment	No
001호호	PIN	17-Dec-2020	30-Sep-2021			2	
DOOTTP	PIN	17-Dec-2020	31-Jul-2021			3	
006LÄGENHET	PIN	01-Sep-2020	31-Jan-2021			3	
ARE DE DA DE ALANT	PIN	01-Sep-2020	28-Feb-2021			3	
4 Listings PM 08:26		PM 08:30	≪ 123	08:30			
PM 08:26			≪ 123	08:30 User Informatio	_	9] 🗙	
4 Listings PM 08:26		PM 08:30			_		
4 Listings PM 08:26		(PM 08:30) User User User Information		User Informatio	_		
4 Listings PM 08:26 MENU		PM 08:30		User Informatio IHO 1000 IHO 2000	_		
4 Listings PM 08:26		(PM 08:30) User User User Information		User Informatio IHO 1000 IHO 2000 00	_		
4 Listings PM 08:26		PM 08:30 Liser Information Manager Information	▲ 123	User Informatio IHO 1000 IHO 2000 00	_		

When registration is complete, it can be checked at the authentication device
 For example, youan see that the driver's name on the web is in user information

Registered information is stored in the operating statey on)

160D9V3HM28

(8) Manage pre-check

Manage Sites	Manage Driver	Manage Pre-che	CK M	anage Collision	Man	age report												
Driver Manag	ement > Manage Pre-che	eck [EOPO0300]							O Search	O Pri	nt O Se	nd						
= Site MC	ONSU TEST	V Model		seria	al No												Sa	* 6
No	Site	M	odel	Seri	ial No F	re-check coun	Not transmitted	Add I	Pre-check of N	Aachines	é.							
1 MOON	ISU TEST	TESTM	3_TAEHA	00	004	2		I No	Question	Answer	Critical			• Model	TESTM3_T	AEHA	- Serial No	0004
2 MOON			3_TAEHA		005	2		0 1	TIRE IS OK??	Yes	Yes			-				
3 MOON	ISU TEST	TESTM	3_TAEHA	00	006	2		0 2	ARE YOU	Yes	Yes			Question	Answer	Critical		
3 Listings					1				OK??					VOU D	Yes	Yes		
							1	а з	D, DID YOU WORK OUT	Yes	No			D, DID				
								-	LAST NIGHT?					YOU				
								4	ннншкнкнк	Yes	Yes		-	O WORK	Yes	No		
				r i			k per machir	-					-	LAST NIGHT2				
						Mashina		E	-	Delete								
No	Question		Answer	Critical	Last upde	Count		E	-		heck New U	pdate Mgt	[EOP003	10]				
No 1 TIRE IS	OK??		Yes	Yes	17-Mar-20	21 Count		E	-		heck New/U	pdate Mgt	[EOP003	10]		O Save	O Close	
No 1 TIRE IS 2 ARE YO	0K?? DU 0K??	NGHT?	Yes Yes	Yes Yes	17-Mar-20 18-Mar-20	Count 21 2 21 3		E	-	D Pre-c		pdate Mgt	[EOP003	t0]		O Save	O Close	
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	aight?	Yes	Yes	17-Mar-20	Count 21 2 21 3 21 1		E	-			pdate Mgt	EOP003	10]		O Save	O Close	
1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	IGHT?	Yes Yes Yes	Yes Yes No	17-Mar-20 18-Mar-20 27-Mar-20	Count 21 2 21 3 21 1		0	-	D Pre-c	ion	ipdate Mgt		10] No		O Save	O Close	
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	liGHT?	Yes Yes Yes	Yes Yes No	17-Mar-20 18-Mar-20 27-Mar-20	Count 21 2 21 3 21 1		C	-	Pre-c	lon Ir		'es 🕇			O Save	O Close	
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	UGHT?	Yes Yes Yes	Yes Yes No	17-Mar-20 18-Mar-20 27-Mar-20	Count 21 2 21 3 21 1		E	-	Pre-c Ausor Cuest Anson Critice	lon Ir	• 1 • 1	'es 🕇	OND		O Save	O Close	
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	UGHT?	Yes Yes Yes	Yes Yes No	17-Mar-20 18-Mar-20 27-Mar-20	Count 21 2 21 3 21 1		E	-	Pre-c Ausor Cuest Anson Critice	lon Ir	• 1 • 1	'es 🕇	OND		O Save	O Close	
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	NGHT?	Yes Yes Yes	Yes Yes No	17-Mar-20 18-Mar-20 27-Mar-20	Count 21 2 21 3 21 1		. [-	Pre-c Ausor Cuest Anson Critice	lon Ir	• 1 • 1	'es 🕇	OND		O Save	O Close	
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	UGHT?	Yes Yes Yes	Yes Yes No	17-Mar-20 18-Mar-20 27-Mar-20	Count 21 2 21 3 21 1		C	-	Pre-c Ausor Cuest Anson Critice	lon Ir	ed field	41 95	⊖ No ⊖ No				
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	ught?	Yes Yes Yes	Yes Yes No	17-Mar-20 18-Mar-20 27-Mar-20	Count 21 2 21 3 21 1		[-	Pre-c Ausor Cuest Anson Critice	lon Ir	ed field	41 95	OND	ersca			
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	aght?	Yes Yes Yes	Yes Yes No	17-Mar-20 18-Mar-20 27-Mar-20	Count 21 2 21 3 21 1		[-	Pre-c Ausor Cuest Ansor Critice	lon Ir	ed field	41 95	⊖ No ⊖ No	ersca			
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	NGHT?	Yes Yes Yes	Yes Yes No Yes	17-Mar-20 18-Mar-20 27-Mar-20 31-Mar-20	Count 21 2 21 3 21 1 21 0				Pre-C Ouest Answe Critice Indice	lon Ir Ites a requi	ed field	41 95	⊖ No ⊖ No	ers ca			
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N	UGHT?	Yes Yes Yes	Yes Yes No Yes	17-Mar-20 18-Mar-20 27-Mar-20 31-Mar-20	Count 21 2 21 3 21 1 21 0	e desired			Pre-C Ouest Answe Critice Indice	lon Ir Ites a requi	ed field	41 95	⊖ No ⊖ No	ersca			
No 1 TIRE IS 2 ARE YO 3 D. DID	OK?? DU OK?? YOU WORK OUT LAST N		Yes Yes Yes Yes	Yes Yes No Yes	17-Маг-20 18-Маг-20 27-Маг-20 31-Маг-20 31-Маг-20	21 2 21 3 21 3 21 1 21 0	e desired	d p	hrase	Pre-C Ansur Critica Tindica	ion ir il ites a requi	red field	** *5 to 94	⊖ No ⊖ No	ers œ			

(9) Manage collision and over speed

Manage report	rt	Manage report	sion	Manage Collisi	nage Pre-check	Man	anage Driver	s Ma	Sites	nage S	anage	anage	age S	089
O Search O Delete O Print O Send					0400]	[EOPO0	anage Collision	ision > Ma	Collisio	inage (anag	anage	nage (inag
No		No l	Serial No	= S	= Model	v		X TEST	B-X 1	Site	Site	Site	Site	Site
Ref. Collision X Ref. Collision Y Ref. Collision Z Ref. Over Not Speed transmitted	f. Collision Y	f. Collision X Ref.	Ref.	Serial No	Model		Site			No	No	No	ło	No
2G 2G 2G N/A	2G	26		0003	25B-X			X TEST	B-X T	1	2		1	
2G 2G 2G N/A				0004	25B-X			X TEST						
2G 2G 2G N/A				0005	25B-X			X TEST						
2G 2G 2G N/A	2G	2G		0003	30B-X			X TEST	B-X T					
												-	5	
26 26 26 N/A		26		0004	30B-X			X TEST	B-X T	3				
26 26 26 NA		26		0004	30B-X			X TEST	B-X T	3				
26 28 28 N/A © Remote Management System - Chrome himate.hyundai-ce.com/Page/PO Collision New/Update Mgt [EOPO0410]		26		0004	308-X	I.		X TEST	B-X T	3				
26 28 28 N/A © Remote Manadement System - Chrome himate.hyundai-ce.com/Page/POI Collision New/Update Mgt [EOPOd410] Model / Serial No 25B-X #0003		26	×	0004	308-X			X TEST	B-X T	3				
26 29 28 N/A Remote Management System - Chrome himate.hyundai-ce.com/Page/POI Collision New(Update Mgt [EOPO0410] Model / Serial No 256-X #0003 Ref. Collision X 2.0		23	×	0004				X TEST	B-X T	3				
26 26 26 N/A Image: Second Secon		29	×	0004	308-X			X TEST	B-X T	3				
26 29 28 N/A Remote Management System - Chrome himate.hyundai-ce.com/Page/POI Collision New(Update Mgt [EOPO0410] Model / Serial No 256-X #0003 Ref. Collision X 2.0		20	×	0004				X TEST	B-X T	3				

You can set the G'value that the crashor 'Over speed' evenbccurred. If the G value is exceeded or the speed is checked, the event will occur immediately (if it occurs several times in 1 minute, only 1 event will occur respectively

160D9V3HM30

(10) Driver report

Manage Sites	Manage Driver	Manage Pre-ch	eck Manage	Collisie	os Manage	resent		
Driver report	Pre Check report	Collision repo	a					
Driver report > Dri	ver report (EOPO65	10]						O Search O Print
* Period 23-Ma	ir-2021 - [31-Mar-	2021 # 10%	MOONS V	# Mos	Sel	· Serial No	*0	war
LOGIN	LOG OFF	Site	Model	Serial No	Driver	Hourmeter	Engine	Working
26-Mar-2021 09:12	26-Mar-2021 09 17	MCONSU TEST	TESTM3_TAEHA	0004	NICE GUY	LOGIN 1,805 LOG OFF: 1,805 total 0 trs	LOGIN On 46m LOG OFF On 51m total: 0h 5m	LOG OFF: 0h 19m total: 0h 0m
26-Mar-2021 09-12	26-Mar-2021 09 12	MOONSU TEST	TESTM3_TAEHA	0004	NICE GUY	LOGIN 1,805 LOG OFF 1,805 total 9 hrs	LOGIN 0h 46m LOG OFF: 0h 46m total: 0h 0m	LOGIN 0h 19m LOG OFF: 0h 19m total: 0h 0m
24-Mar-2021 19:13	24-Mar-2021 19:52	MOONSU TEST	TESTM3_TAEHA	0005	HYUNDAI 001	LOGIN 3,471 LOG OFF: 3,472 total 1 hrs	LOGIN: 19h 43m LOG OFF: 20h 22m total: 0h 39m	LOGIN 2h 43m LOG OFF: 2h 48m total: 0h 4m
24-Mar-2021 16:10	24-Mar-2021 17.42	MOONSU TEST	TESTM3_TAEHA	0005	HYUNDAI 001	LOGIN 3,458 LOG OFF: 3,471 total 3 trs	LOGIN: 18h 11m LOG OFF: 19h 43m total: 1h 32m	LOG IN: 2h 25m LOG OFF: 2h 43m total. 0h 18m
24-Mar-2021 01 23	24-Mar-2021 01:50	MOONSU TEST	TESTM3_TAEHA	0005	HYUNDAI 001	LOG IN 3,455 LOG OFF 3,456 total 1 frs	LOGIN 11h 45m LOG OFF 12h 14m total 0h 26m	LOG OFF: th 56m total. 0h 3m
23-Mar-2021 21 18	24-Mar-2021 00:04	MOONSU TEST	TESTM3_TAEHA	0005	HYUNDAI 001	LOG N 3,449 LOG OFF: 3,455 Iotal 6 hrs	LOGIN 9h tm LOG OFF 11h 45m total 2h 45m	LOG OFF: th 52m total. 0h 39m
23-Mar-2021 16:01	23-Mar-2021 18:58	MOONSU TEST	TESTM3_TAEHA	0005	HYUNDAI 001	LOG OFF 3,449 total 5 hrs	LOG OFF: 9h 0m total 2h 56m	LOG OFF: th 12m total: 0h 35m

driver report Jser ID : A509157 (2021-03-31, 14:59) LOGIN LOG OFF Model Serial Driver Engine Traveling LOGIN: Oh 5m Working Hourmeter Fuel or battery LOGIN: 0h 6m LOGIN: 1,815 LOGIN: Oh 1m LOGIN: 0h 7m LOGIN: 979 LOG OFF: 0h 8m LOG OFF: 0h 7m LOG OFF: 0h 1m 31-Mar-2021 03:52 31-Mar-2021 03:54 MOONSU TEST TESTM3_TAEHA 0004 NICE GUY LOG OFF: 1,815 LOG OFF: 0h 9m LOG OFF: 97% total 0 hrs LOGIN: 1,815 LOG 0FF: 1,815 total: 0h 2m LOGIN: 0h 5m LOG OFF: 0h 7m total: 0h 1m LOGIN: 0h 3m LOG OFF: 0h 5m total: 0h 1m LOGIN: 0h 3m LOG OFF: 0h 5m total: 0h 0m LOGIN: 0h 1m LOG OFF: 0h 1m LOGIN: 97% 31-Mar-2021 03:15 31-Mar-2021 03:18 MOONSU TEST TESTM3_TAEHA 0004 NICE GUY LOG OFF: 97% total: 0h 2m LOGIN: 0h 2m LOG OFF: 0h 5m total: 0h 1m LOGIN: 0h 1m LOG OFF: 0h 3m total: 0h 1m LOGIN: 0h 1m LOG OFF: 0h 3m totat: 0h 0m LOGIN: 0h 0m LOG OFF: 0h 1m total 0 hrs LOGIN 1.815 LOGIN: 97% LOG OFF: 1,815 31-Mar-2021 03:01 31-Mar-2021 03:04 MOONSU TEST TESTM3_TAEHA 0004 NICE GUY LOG OFF: 97% total: 0h: 2m LOGIN: 0h:0m LOG OFF: 0h:0m total: 0h:0m total: 0h 1m LOGIN: 0h 0m LOG OFF: 0h 0m total: 0h 0m total 0 hrs total: Oh 3m total: Oh Om
 31-Mar-2021 02:53
 31-Mar-2021 02:53
 MOONSU TEST
 TESTM3_TAEHA
 0004
 NICE GUY
 LOG OFF: 1,815
 LOGIN: 0h 0m LOG OFF: 0h 0m total: 0h 0m LOGIN: 0h 1m LOG OFF: 0h 1m total: 0h 0m LOGIN: 97% LOG OFF: 97% total 0 hrs

> You can check the login and logoff information by the driver This can be easily managed by output by Excel.

(11) Pre-check report

Manage Sites	Manage Driver	Manage Pre	check	Manage (Collision Ma	nage	report											
Driver report	Pre Check repo	t Collision re	port															
Manage report	Pre Check report	[EOPO0520]									1	D Search	O Print					
Period 24	-Mar-2021 ~ 01-A	pr-2021 Site	M	DONS V	= Model		= Serial N	0			= Drive	r						
Site	Date & Time	Model	Serial No	Driver	Q1	A1	Q2	A2	03	1	A3	Q4		A-				
IOONSU TEST	31-Mar-2021 11:00	TESTM3_TAEHA	0005	HYUNDAI 002	ARE YOU OK??	Yes	TIRE IS OK??	Yes										
MOONSU TEST	31-Mar-2021 10:54	TESTM3_TAEHA	0005	HYUNDAI 002	ARE YOU OK??	Yes	TIRE IS OK??	Yes										
MOONSU TEST	31-Mar-2021 05:07	TESTM3_TAEHA	0004	NICE GUY	D. DID YOU WORK OUT LAST NIGHT?	Yes	ARE YOU OK??	Yes										
IOONSU TEST	31-Mar-2021 04:34	TESTM3_TAEHA	0004	NICE GUY	D. DID YOU WORK OUT LAST NIGHT?	Yes	ARE YOU OK??	Yes		No			Ques	tion	Answer	Critical	Last update	Machi
IOONSU TEST	31-Mar-2021 04:25	TESTM3_TAEHA	0004	NICE GUY	D. DID YOU WORK OUT LAST NIGHT?	Yes	ARE YOU OK??	100	_		TIRE IS (Yes	Yes	17-Mar-2021 18-Mar-2021	Cour
MOONSU TEST	31-Mar-2021 04:21	TESTM3_TAEHA	0004	NICE GUY	D. DID YOU WORK OUT LAST NIGHT?	Yes	ARE YOU OK??	Yes			D. DID Y		OUTL	AST NIGHT?	Yes Yes	No	27-Mar-2021	
NOONSU TEST	31-Mar-2021 04:17	TESTM3_TAEHA	0004	NICE GUY	D. DID YOU WORK OUT LAST NIGHT?	Yes	ARE YOU OK??	Yes										
MOONSU TEST	31-Mar-2021 03:58	TESTM3_TAEHA	0004	NICE GUY	D. DID YOU WORK OUT LAST NIGHT?	Yes	ARE YOU OK??	Yes										
IOONSU TEST	31-Mar-2021 03:52	TESTM3_TAEHA	0004	NICE GUY	D. DID YOU WORK OUT LAST NIGHT?	Yes	ARE YOU OK??	Yes										
	31-Mar-2021 03:15	TESTM3_TAEHA	0004	NICE GUY	D. DID YOU WORK OUT LAST NIGHT?	Yes	ARE YOU OK??	Yes										
100NSU TEST																		

You can check the response to the registered questions Questionshow randomly changed. It is possible to manage with this or one Excel.

160D9V3HM32

(12) Collision and over speed report

Manage Sites	Manage Driver	Manage Pre-	check	Manage Collision	Manag	e report						
Driver report	Pre Check report	Collision re	port									
Collision report	> Collision report [E	OP00530]							O Set	arch O Print		
Period 17	-Dec-2021 - 25-De	ec-2021 = Site	MOO	NS V Mode		= Se	erial No		Driver			L
Site	Date & Time	Model	Serial No	Driver	Collision Detect	X-Axis	Y-Axis	Z-Axis	Over speed detect	Over speed		
MOONSU TEST	23-Dec-2021 14:33	TESTM3_TAEHA	0005	INTERFACE	No	0G	0G	0G	Yes	23Km	X	
MOONSU TEST	23-Dec-2021 14:32	TESTM3_TAEHA	0005	INTERFACE	No	0G	0G	0G	Yes	22Km		
Site	Date & Time	Model	Serial No	Driver	Collision Detect	X-Axis	Y-Axis	Z-Axis	Over speet	¹ Over speed		
WONHO TEST	23-Nov-2021 14:36	TESTM3_TAEH	0002	Hi MATE Master	Yes	0.4G	1.4G	2.6G	No	0Km		
WONHO TEST	12-Oct-2021 15:07	TEST_DUAL_F	0001	WONHO HYUNDAJ	Yes	0.7G	0.6G	1.7G	No	0Km		QYY
Site	Date & Time	Model	Serial	Driver	Collision Detect	X-Axis	Y-Axis	Z-Axis	Over spee	d Over speed		1070
B-X TEST	23-Dec-2021 11:43	25B-X	0005	현대산업차량 B-X	Yes	0.4G	0.4G	2.60	No	0Km		
B-X TEST	22-Dec-2021 12:18	25B-X	0005	현대산업차량 B-X	Yes	1.1G	0.5G	3G	No	0Km		
									1			
				Manage Site	s Mana	ge Driver	Manage	Pre-check	Manage (collision Man	e report	

1	Manage	Collision > Manage Collision (EC	PO0400]				O Search	O Delete O	Print O Sen
	= Site	B-X TEST	V Model	= S	erial No				
l	No	Site	Model	Serial No	Ref. Collision X	Ref. Collision Y	Ref. Collision Z	Ref. Over Speed	Not
	1	B-X TEST	258-X	0003	26	20	2G	N/A	
	2	B-X TEST	25B-X	0004	26	26	26	N/A	
	3	B-X TEST	25B-X	0005	2G	26	20	N/A	
	4	B-X TEST	30B-X	0003	20	20	26	N/A	
	5	B-X TEST	30B-X	0004	20	20	2G	N/A	

Event occurs when a value higher than the registered G vatureover speed ismeasured. It is possible to manage with this or one Excel.