FORKLIFT

SERVICE MANUAL

50, 60, 70D-7A

HYUNDAI

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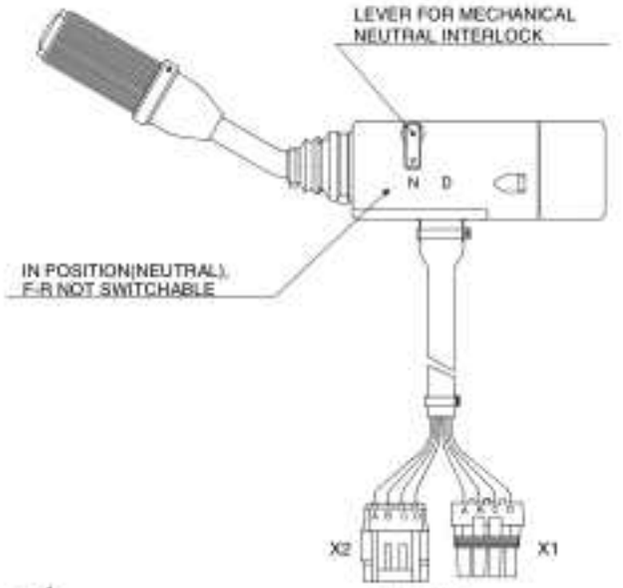
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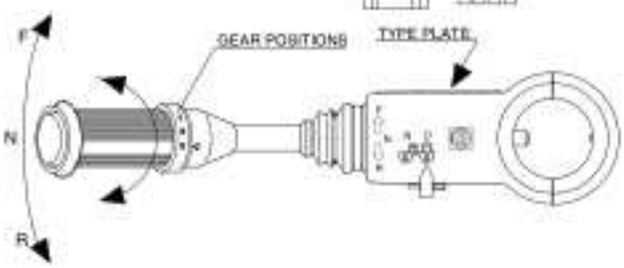
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Gear selector (DW-3)



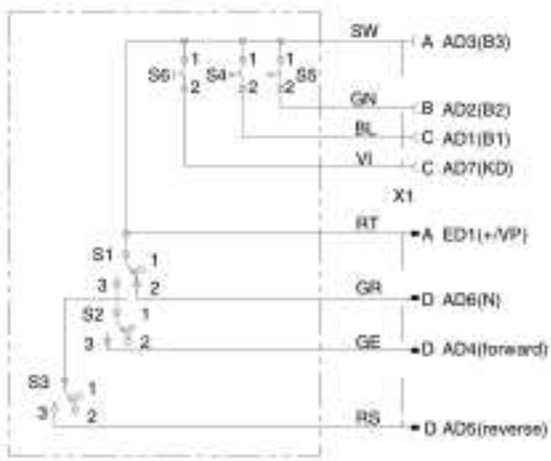


F = Forward
N = Neutral
R = Reverse
D = Mechanical neutral interlock
1 = 1st speed
2 = 2nd speed
3 = 3rd speed

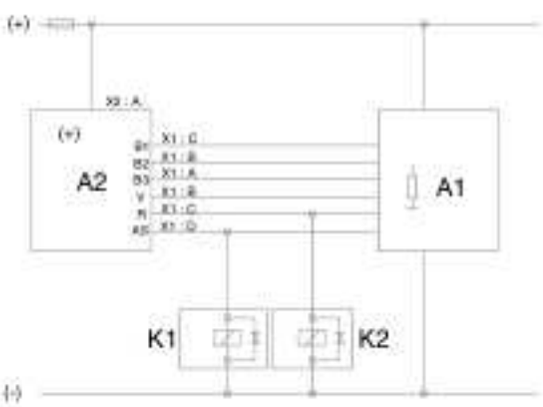
CODING GEAR SELECTOR

		OUTPUT									KD
SPEED		FORWARD			REVERSE			NEUTRAL			
		1	2	3	1	2	3	1	2	3	
AD1	B1	●			●			●			
AD2	B2			●			●			●	
AD3	B3	●	●	●	●	●	●	●	●	●	
AD4	V	●	●	●							
AD5	R				●	●	●				
AD6	AS							●	●	●	
AD7											●

CIRCUIT DIAGRAM SELECTOR



CIRCUIT DIAGRAM SELECTOR



K1 = Relay starter interlock
K2 = Relay reverse lights
A1 = TCU(Transmission Control Unit)
A2 = Gear selector

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2. TROUBLESHOOTING

Problem	Cause	Remedy
Insufficient braking force	· Hydraulic system leaks oil. · Hydraulic system leaks air. · Disk worn. · Brake valve malfunctioning. · Hydraulic system clogged.	· Repair and add oil. · Bleed air. · Replace. · Repair or replace. · Clean.
Brake acting unevenly. (Machine is turned to one side during braking.)	· Tires unequally inflated. · Brake out of adjustment. · Disk surface roughened. · Wheel bearing out of adjustment. · Hydraulic system clogged.	· Adjust tire pressure. · Adjust. · Repair by polishing or replace. · Adjust or replace. · Clean.
Brake trailing.	· Pedal has no play. · Piston cup faulty. · Brake valve return port clogged. · Hydraulic system clogged. · Wheel bearing out of adjustment.	· Adjust. · Replace. · Clean. · Clean. · Adjust or replace.
Brake chirps	· Brake trailing. · Piston fails to return. · Disk worn. · Disk surface roughened.	· See above. Brake trailing. · Replace. · Replace. · Repair by polishing or replace.
Brake squeaks	· Disk surface roughened. · Disk worn. · Excessively large friction between disk plate.	· Repair by polishing or replace. · Replace. · Clean and apply brake grease.
Large pedal stroke	· Brake out of adjustment. · Hydraulic line sucking air. · Oil leaks from hydraulic line, or lack of oil. · Disk worn.	· Adjust. · Bleed air. · Check and repair or add oil. · Replace.
Pedal dragging.	· Twisted push rod caused by improperly fitted brake valve. · Brake valve seal faulty.	· Adjust. · Replace.

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GROUP 4 COMPONENT SPECIFICATION

No	Part name	Qty	Specification
1	Battery	2	12V × 72 AH RC : 130 min CCA : 630A
2	Working lamp	1	24V, 70W
3	License lamp	1	24V, 10W
4	Rear Combination lamp	2	24V, 21/5W (Turn signal) 24V, 10W (Tail) 24V, 10W (Stop)
5	Head lamp	2	24V, 70W
6	Flasher lamp	2	24V, 25/10W
7	Room lamp	1	24V, 10W
8	Cluster	1	24V, 10W
9	Rear view camera	1	24V, 2.5W
10	12V socket	1	12V, 10A
11	Cigar lighter	1	24V, 5A
12	Regeneration switch	1	24V, 8A
13	Relay (5P)	7	24V, 8A
14	Flasher Unit	1	24V, 85±10 CM, (21W + 21W) × 2 + 3W × 2
15	Back buzzer	1	24V, 90±5 dB, 60±10 C/M
16	Horn	1	24V, 1.5 A, 100 – 115 dB
17	Fuel level sender	1	Float indicator: E / 4/8 / F Resistance (Ω): - / 350 / 50 Tolerance (Ω): +5% / -0 / 5% / +0 / -5%
18	Master switch	1	24V, 180A
19	Working lamp switch	1	24V, 8A
20	Hazard switch	1	24V, 8A
21	Beacon switch	1	24V, 8A
22	Start switch	1	24V, 60A
23	Start relay	1	24V, 300A
24	Tilt switch (cabin)	1	24V, 8A
25	Warning buzzer	1	24V, 200 mA, 90±5 dB (1 m)
26	Auto switch	1	24V, 8A
27	Clutch cut-off switch	1	24V, 8A
28	Main light switch	1	24V, 8A
29	Fuel heater switch	1	24V, 8A
30	Intermittent wiper relay	1	24V, 5A
31	OPSS unit	1	24V
32	Inhibit switch	1	24V, 8A

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(7) After taking out connecting shaft, remove gear housing, drive gear and driven gear set from cover.

※ When removing the gear housing, keep it as straight as possible so that it can not happen scratch or damage to inner surface by touching gear teeth.
Inspect scoring or excessive wear of shaft and gear teeth for both drive gear and driven gear set.



(8) Remove lip seal from the cover.

※ When remove the lip seal from the cover, take care not to give any scratch or damage on the surface of shaft hole or seal bore.



4) ASSEMBLY

(1) Throughly clean seal bore, press the shaft seal in to the seal bore of the cover.

※ Uniform pressure must be used to prevent misalignment or damage to the seal.



(2) Assemble shaft to the cover.

※ Throughly clean mounting surface of the gear housing for the seals.



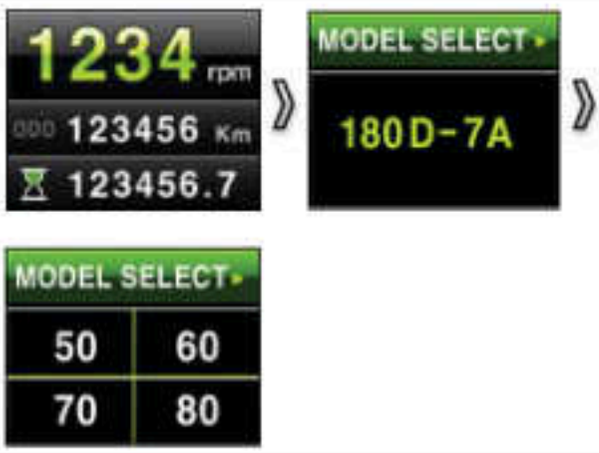
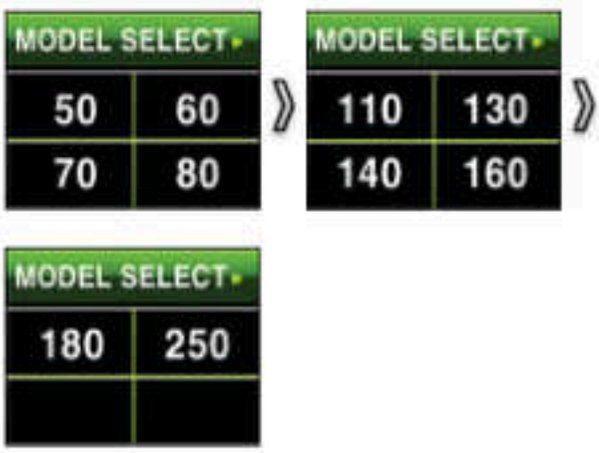
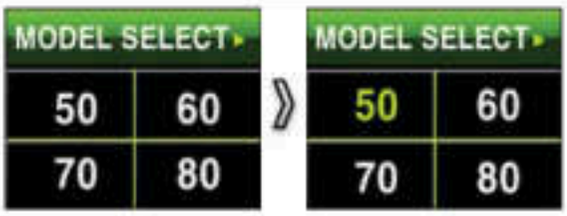
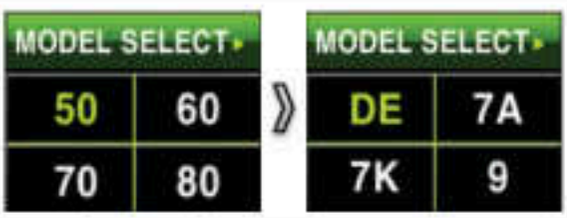
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(4) Menu and next buttons



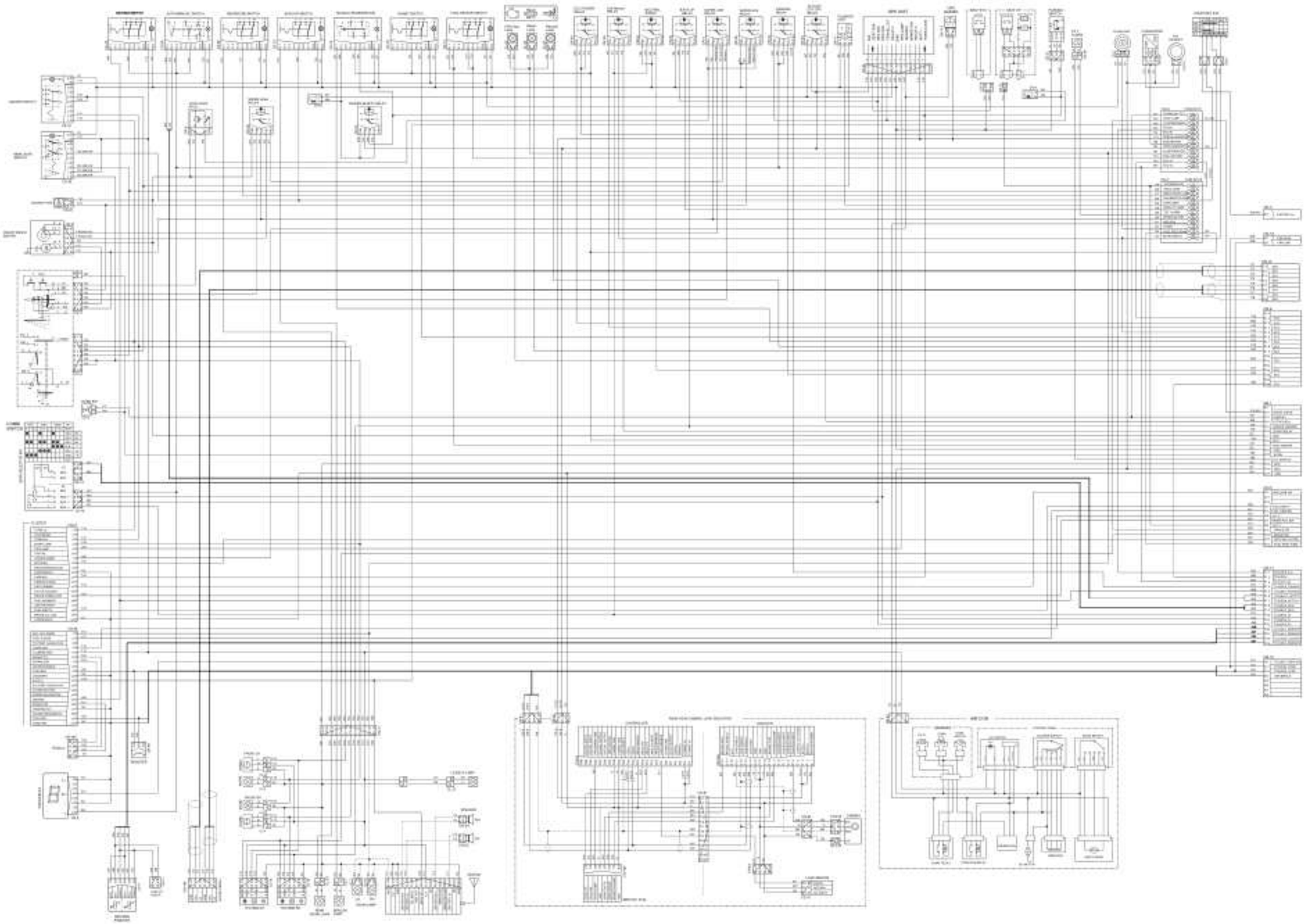
※ These buttons are used to select the model select mode.

※ The initial model is selected at the factory, so don't change the different model.

Display	Description
	① Press MENU and ▶ until model select mode is displayed, where parking is ON. To select model select mode, press ▶
	② To change another ton group, press ▶. (Equipment ton group screen)
	③ To set the location of ton group, press ⏎. And then to change another ton press ▶.
	④ To set the ton, press ⏎. Go to the equipment model screen.

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