WHEEL LOADER

SERVICE MANUAL

HL757TM-7

HYUNDAI

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3. WEIGHT

Item	kg	lb
Front frame assembly	1240	2730
Rear frame assembly	1570	3460
Front fender	11	24
Counterweight/Additional conrterweight	550/280	1210/620
Cab assembly	1020	2250
Engine assembly	432	952
Transmission assembly	470	1040
Drive shaft(Front)	19	42
Drive shaft(Center)	15	33
Drive shaft(Rear)	11	24
Front axle(Include differential)	526	1160
Rear axle(Include differential)	766	1690
Tire(20.5-25, 16PR, L3)	203	450
Hydraulic tank assembly	203	450
Fuel tank assembly	350	780
Main pump assembly	37	82
Fan & brake pump assembly	7	15
Main control valve	51	112
Steering valve(EHPS)	15	33
Boom assembly	910	2010
Quick coupler	245	540
2.5m³ bucket, with bolt on cutting edge	1040	2290
2.4m³ bucket, without cutting edge	920	2030
Boom cylinder assembly	120	260
Bucket cylinder assembly	100	220
Steering cylinder assembly	29	64
Quick coupler cylinder assembly	6	13
Seat	40	88
Battery	55	121

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2. TROUBLESHOOTING

1) SERVICE BRAKE

Diagnose malfunction charts are arranged from most probable and simplest to verify, to least likely, more difficult to verify. Remember the following steps when troubleshooting a problem :

Step 1. Operational check out procedure(See section 1)
Step 2. Operational checks(In this group)
Step 3. Troubleshooting
Step 4. Tests and adjustments(See group 3)

Problem	Cause	Remedy
Poor or no brakes	Brake accumulator charge low	Do brake accumulator check.
	Brake pump standby pressure low	Do brake pump standby pressure test.
	Brake pressure low	Do brake valve pressure test.
	Air in system	Bleed brakes.
	Worn brake surface material	Inspect brake surface material.
	Leakage in brake valve	Do brake valve leakage test.
	Leakage in brake piston seal	Check for an over filled differential. Apply brakes and check for leakage from check plug. * It is normal for the oil level to be slightly above the check plug.
Aggressive brakes	Internal restriction in circuit	Remove lines and components.
	Clutch cut-off switch out of adjustment	Adjust switch.
	Brake valve malfunction	Disassemble and inspect.
	Low oil level	Check oil level.
Brakes drag	Brake pedal not returning properly	Inspect floor mat and pedal.
	Debris holding valve partially open in brake valve	Do brake valve pressure test.
	Warped brake disk	Inspect brake disk.
	Stuck brake piston	Repair.
Brakes lock up	Brake valve malfunction	Clean or replace brake valve.

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6. ELECTRIC PARKING, DECLUTCH CIRCUIT

1) OPERATING FLOW

(1) Parking OFF

Fuse box (No.8) → Parking switch OFF [CS-17(6) (8)] → Parking solenoid ON (Activated) → Parking brake released (By hydraulic pressure)

(2) Parking ON

Fuse box (No.8) → Parking switch ON → Parking solenoid [CN-71] OFF → Parking brake applied [By spring force]

Parking switch ON → [CS-17(5) (7)] → T/M control unit [CN-52(21)] → T/M declutch

(3) Declutch ON

Fuse box (No.8) → Clutch cut-off switch ON → Clutch cut-off switch [CS-42(5) (1)] → Controller [CN-58(10) (29)] → Service brake applied → Service brake pressure switch ON [CD-5] → T/M control unit [CN-52(66)] → Declutch

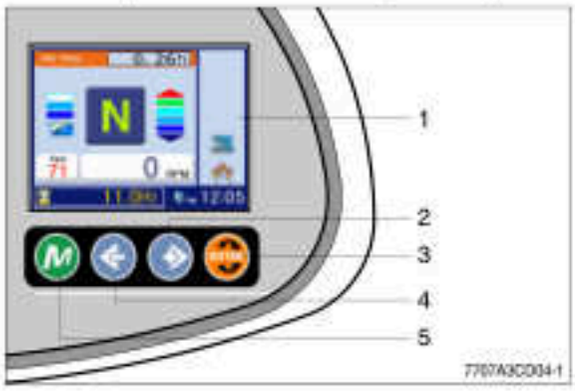
2) CHECK POINT

Engine	Key switch	Check point	Voltage
Running	ON	① - GND (Parking switch input) ② - GND (Parking switch output) ③ - GND (Parking switch input) ④ - GND (Parking switch output) ⑤ - GND (Parking solenoid) ⑯ - GND (Pressure switch clutch cut-off)	20~25V

※ GND : Ground

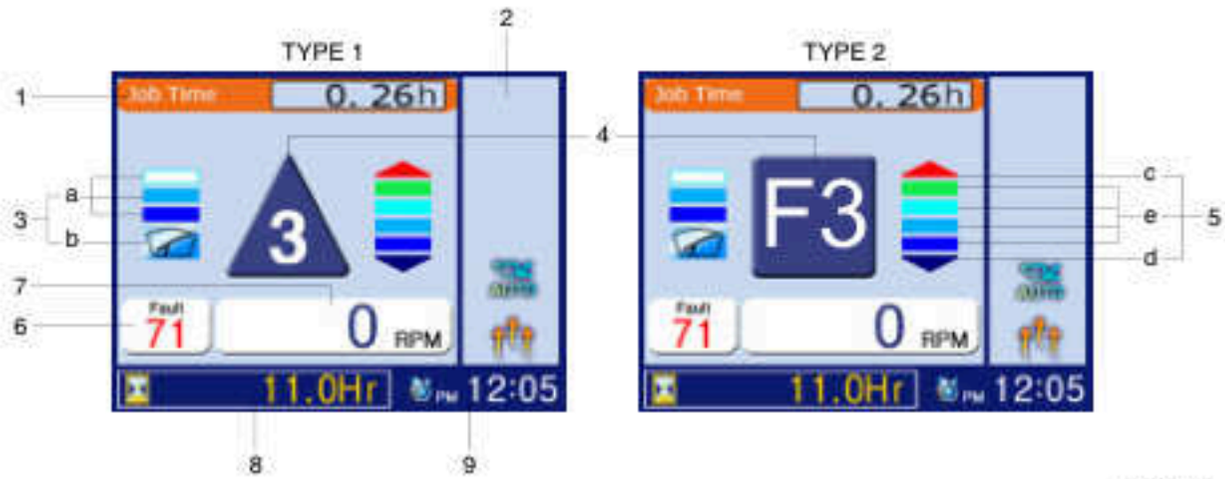
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LCD (Machine serial no. ; #0083-)



1 LCD
2 ( ) Right
Move to the next selection
3 ( ) Select(Enter)
Activate the currently chosen item
4 ( ) Escape
Return to the previous menu
5 ( ) Main, Menu
- Display menu
- Return to the main display

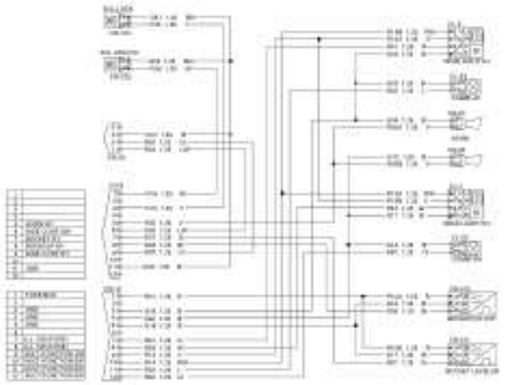
(1) Main display



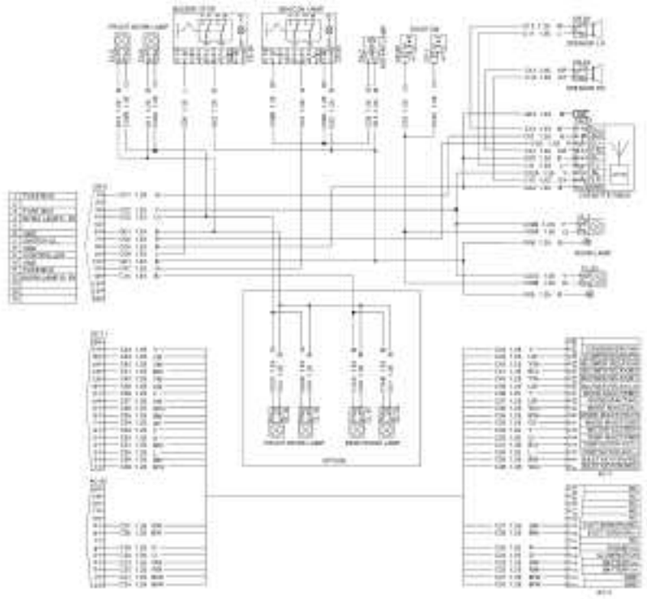
No	Symbol	Meaning	Remark		
1	Job Time 1.26h	Monitoring information	Job timer, Odometer, Hydraulic temperature, Battery voltage, Coolant temperature, T/M oil temperature.		
2	AUTO	State information	Ride state(option), Warming up		
3	a	Wiper display	When operating intermittently, it shows an operating time interval		
	b		Wiper motor intermittently operating		
4	△·▽·□	Actual gear display	Forward, reverse, neutral	LCD type 1	
	F, R, N		Forward, reverse, neutral	LCD type 2	
	1, 2, 3, 4		Actual gear		
	P		Parking brake mode active		
5	c, d	Select gear display	Up and down shifting	c: Forward, d: Reverse	Automatic mode
	e		Pre-selected gear		
6	Fault 71	Fault code display	Fault code state display		
7	0 RPM	Engine rpm display	Now engine rpm state display		
8	11.0Hr	Hour meter display	Hour meter state display		
9	PM 12:05	Timer & alarm display	Now time & alarm state display		

※ Both type1 and type2 are LCD modes and they can be changed each other by operator's selection.
(Adjustment/Display, see page 7-34)

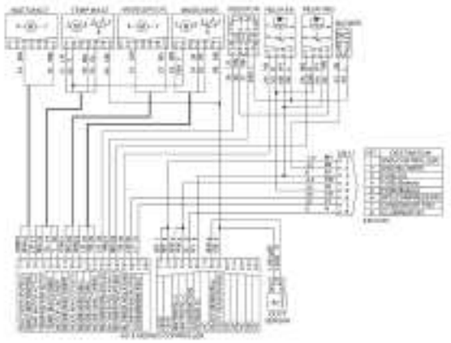
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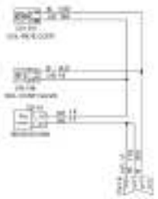
FRONT HARNESS



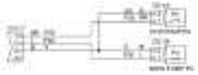
CABIN HARNESS



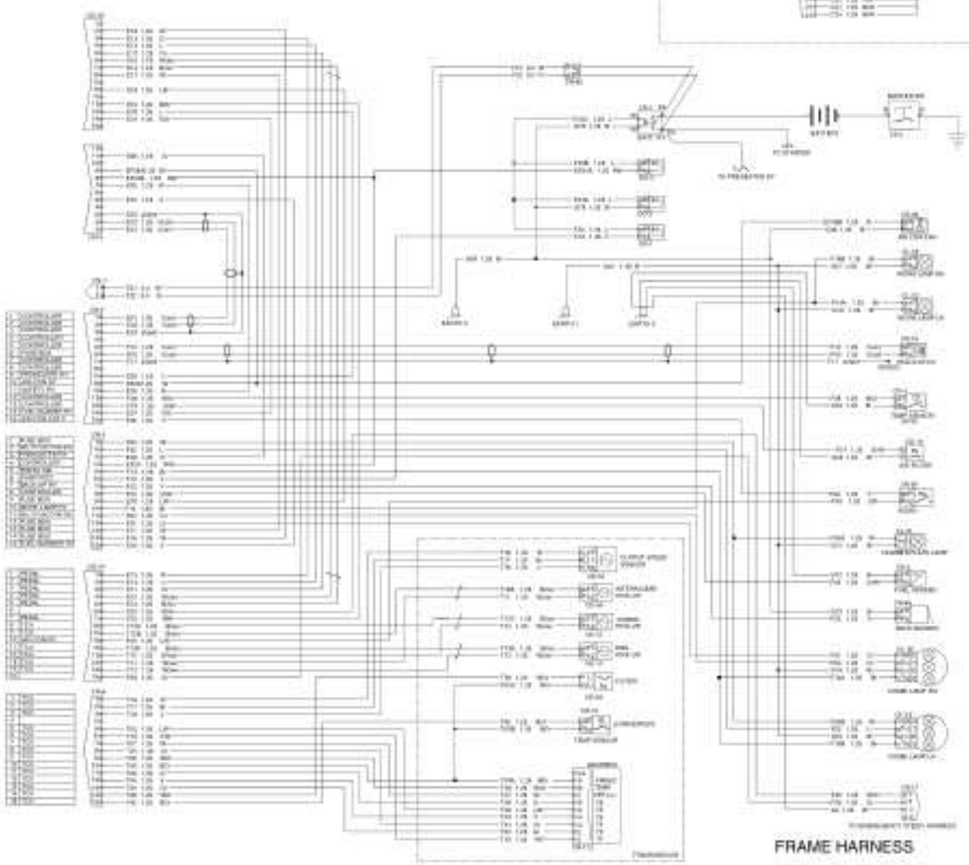
AIR-CON HARNESS



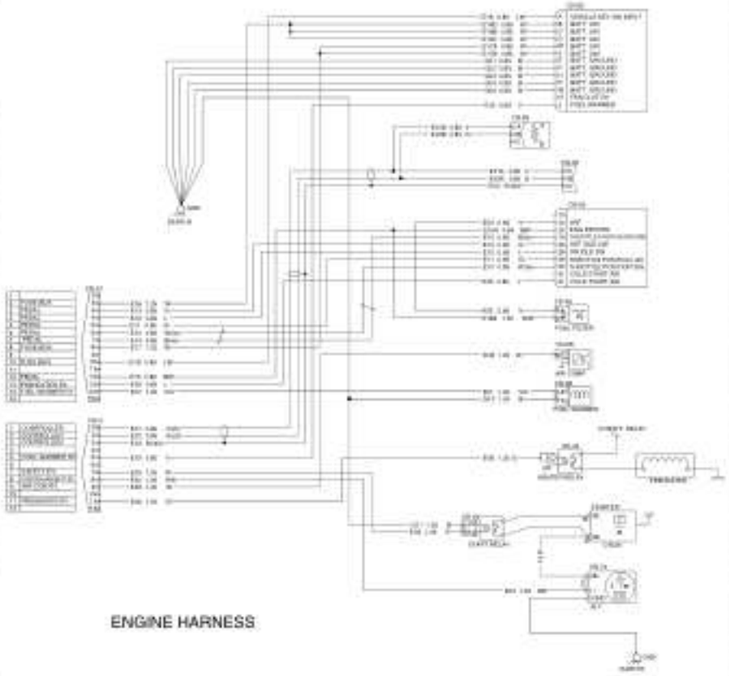
RIDE CONTROL HARNESS



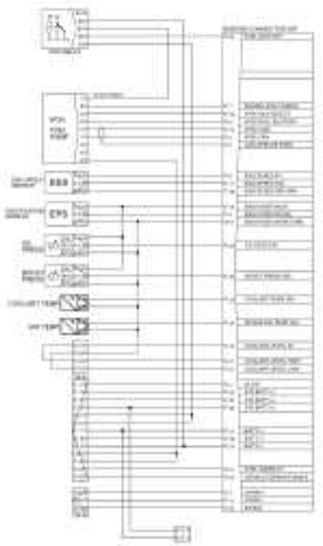
EMERGENCY HARNESS



FRAME HARNESS



ENGINE HARNESS



ENGINE(CUMMINS) HARNESS

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