FORKLIFT

SERVICE MANUAL

HDF50, HDF70-3

HYUNDAI

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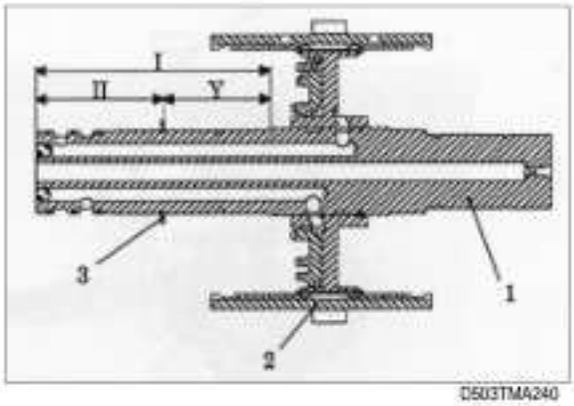
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⑫ Determine dimension **Y**(Figure 240~242)

1 Clutch shaft
2 Plate carrier
3 Circlip

✳ Special tool
Digital-Depth gauge 5870 200 072



D503TMA240

⑬ Determine dimension **I**

· Dimension **I** e.g. 124.92mm

✳ Special tool
Digital-Depth gauge 5870 200 051


D503TMA241

⑭ Squeeze circlip 3 in and determine dimension **II**, see also draft 240.

· Dimension **II** e.g. 68.30mm

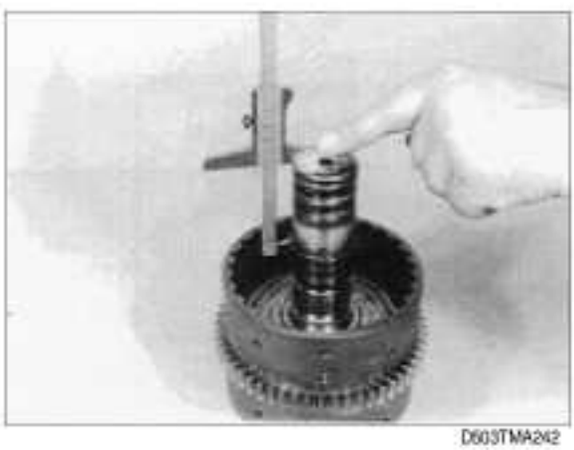
EXAMPLE H_1

Dimension **I**	124.92mm
Dimension **II**	- 68.30mm
Gives dimension Y	**= 56.62mm**

EXAMPLE H_2

Dimension **Y**	56.62mm
Dimension **X**	- 54.40mm
Result	**= 2.22mm**

✳ Shims are only available in 0.05mm gradation.
In order to determine the required axial play max. 0.05mm, a shim s = 2.20mm(corresponding to an axial play of 0.02mm) has therefore to be selected.


D503TMA242

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4. PREHEATING CIRCUIT

Combustion chamber glow plugs are used in order to give satisfactory starting of low ambient temperatures.

1) OPERATING FLOW

Battery(+) terminal → Fusible link[CN-60] → I/conn[CS-2(3)] → Start switch(B)
Battery(+) terminal → Glow relay[CR-24]

※ When you turn the start switch to the HEAT position, the glow relay makes the glow plugs operated and the glow lamp of the cluster turned ON.

Start switch HEAT [CS-2(1)] → Operating panel [CN-56(7)] → glow lamp ON
Start switch HEAT [CS-2(1)] → I/conn[CN-2(8)] → Glow relay ON [CR-24]
Start switch HEAT [CS-2(1)] → Glow plug operating[CN-80]

2) CHECK POINT

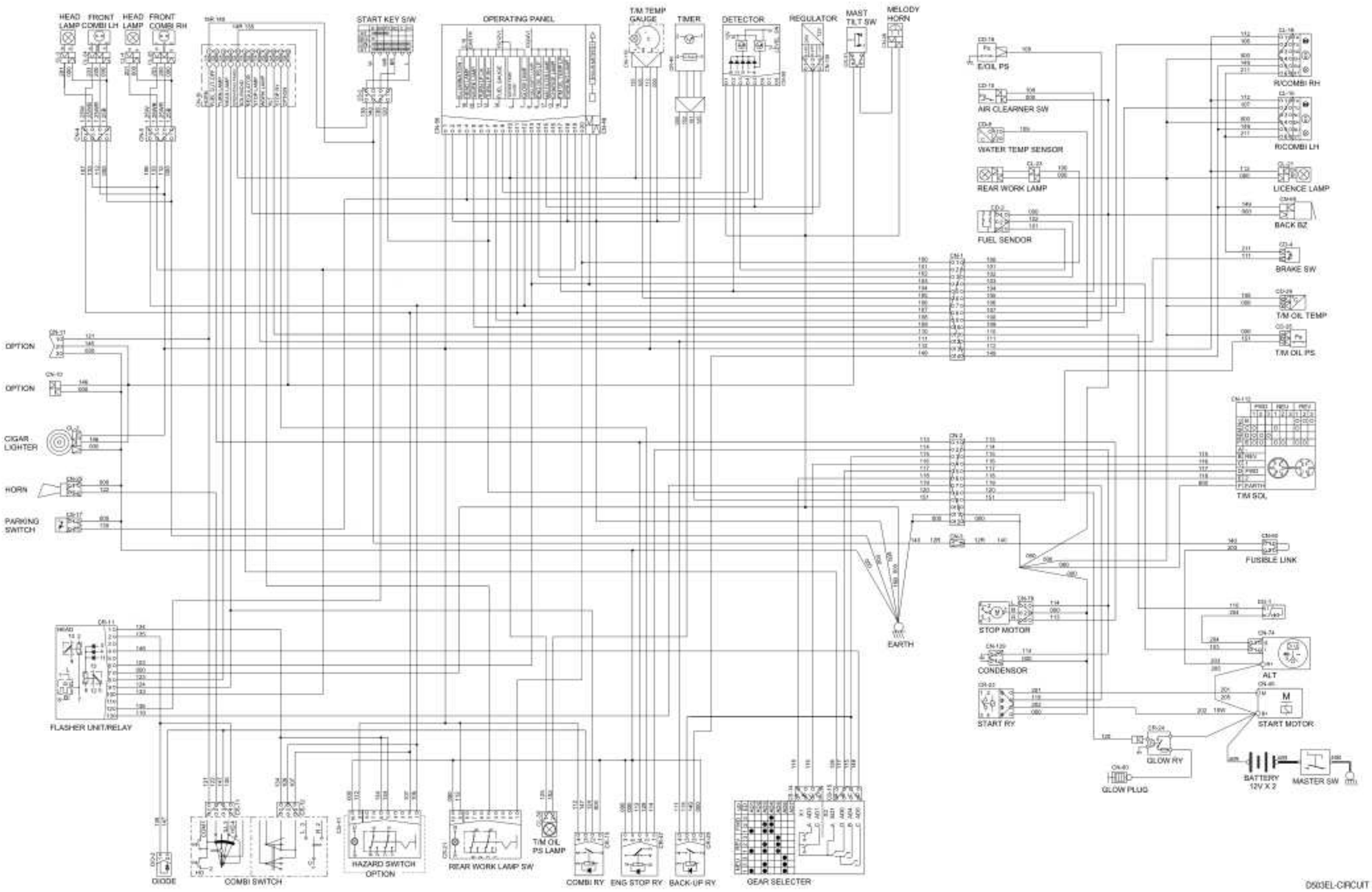
Engine	Key switch	Check point	Voltage
Stop	HEAT	① - GND (Battery B+) ② - GND (Fusible link) ③ - GND (Glow plug) ④ - GND (Glow relay) ⑤ - GND (Start switch) ⑥ - GND (Glow lamp)	10 ~ 13V

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Trouble symptom	Probable cause	Remedy
Lamps dimming even at maximum engine speed.	· Faulty wiring.	· Check for loose terminal and disconnected wire.
Lamps flicker during engine operation.	· Improper belt tension.	· Adjust belt tension.
Charge lamp does not light during normal engine operation.	· Charge lamp defective. · Faulty wiring.	· Replace. · Check and repair.
Alternator makes abnormal sounds.	· Alternator defective.	· Replace
Starting motor fails to run.	· Faulty wiring. · Insufficient battery voltage.	· Check and repair. · Recharge battery.
Starting motor pinion repeats going in and out.	· Insufficient battery voltage.	· Recharge battery.
Excessively low starting motor speed.	· Insufficient battery voltage. · Starting motor defective.	· Recharge battery. · Replace
Starting motor comes to a stop before engine starts up.	· Faulty wiring. · Insufficient battery voltage.	· Check and repair. · Recharge battery.
Heater signal does not become red.	· Faulty wiring. · Glow plug damaged.	· Check and repair. · Replace
Engine oil pressure caution lamp does not light when enigne is stopped (with starting switch left in"ON" position).	· Caution lamp defective. · Caution lamp switch defective.	· Replace · Replace

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GROUP 2 ELECTRICAL CIRCUIT



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