

4. MODE SELECTION SYSTEM

1) STRUCTURE OF CAPO SYSTEM

CAPO, Computer Aided Power Optimization system, is the name of mode selection system developed by Hyundai.

(1) Power mode

3 power modes can be selected for the optimal power of the machine operation.

① H mode

This mode is used for heavy-duty work.

② S mode

When key switch is turned ON, this mode is selected automatically. This mode is used for standard work.

③ L mode

This mode is used for light-duty work.



(2) Wiper switch

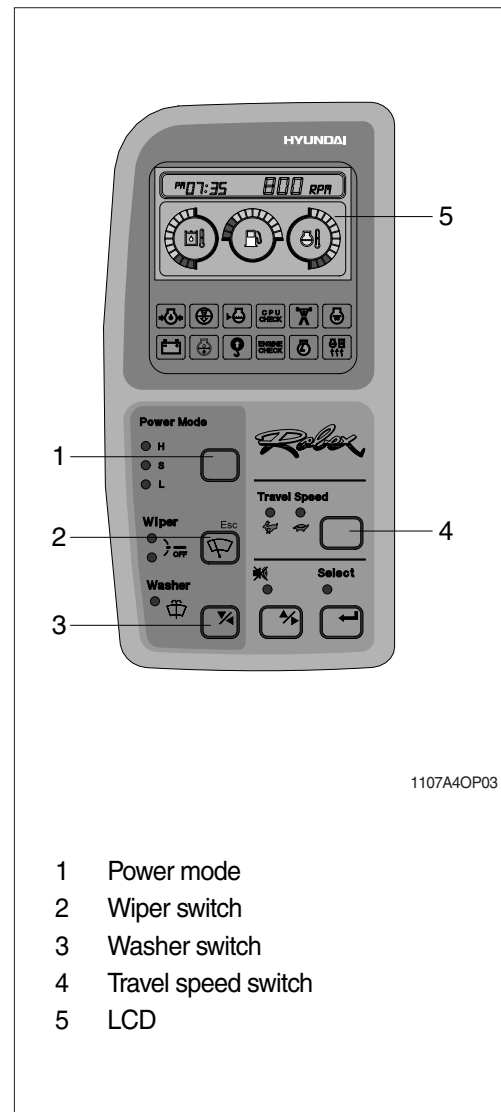
- Press the switch once to operate wiper.
- Press the switch once more to intermittently operate wiper low speed.
- Press the switch a third time to turn off wiper.

(3) Washer switch

The washer liquid is sprayed and the wiper is operated only while pressing the switch.

(4) Travel speed switch

-  : Low speed traveling.
-  : High speed traveling.



- 1 Power mode
- 2 Wiper switch
- 3 Washer switch
- 4 Travel speed switch
- 5 LCD

(5) Monitoring system

Information of machine performance as monitored by the MCU controller can be displayed on the **LCD**. Refer to the page 3-5.

(6) Self diagnostic system

① MCU controller

The MCU controller diagnoses problems in the CAPO system caused by electric parts' malfunction and by open or short circuit, which are displayed on the **LCD** as error codes(2 digit).

② Engine controller(ECU)

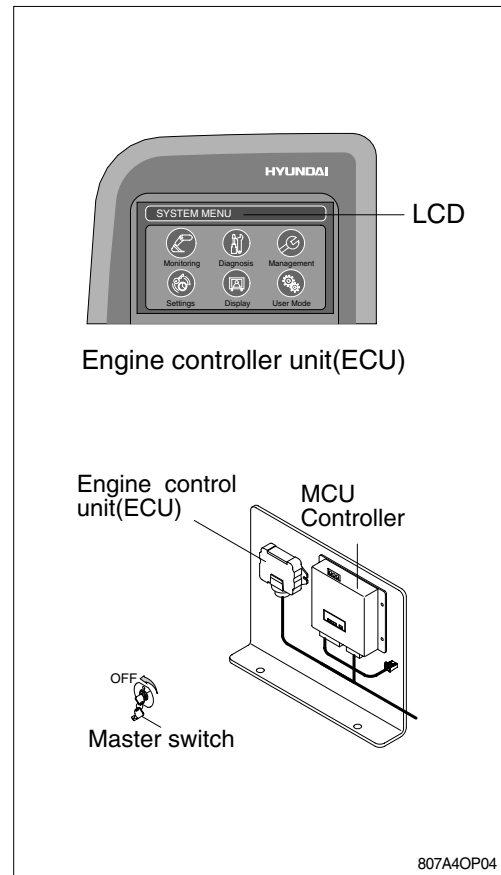
If the engine or relevant system has problem ECU diagnoses and displays on the **LCD** as fault codes(3 digit or more).

※ **Consult hyundai or hyundai dealer for details.**

※ **Refer to the page 3-5 for LCD display.**

(8) Anti-restart system

The system protects the starter from inadvertent restarting after the engine is already operational.



2) HOW TO OPERATE MODE SELECTION SYSTEM



(1) When start key is turned ON

- ① When start key is turned ON, all illumination lamps are ON and all lamps are OFF automatically after 5 seconds. But a battery charging warning lamp and an engine oil pressure warning lamp keep turned ON until engine starting.
- ② After lamp check「1.00」, the version of cluster program, is displayed on **LCD** for 2 seconds.
- ③ After the version of program is displayed, the cluster returns to default. Exactly engine rpm, battery charging warning lamp and engine oil pressure warning lamp are turned ON and S mode, auto decel, low travel speed(Turtle mark) are displayed.
- ④ In default condition self-diagnostic function including trouble detecting of electric system can be carried out.

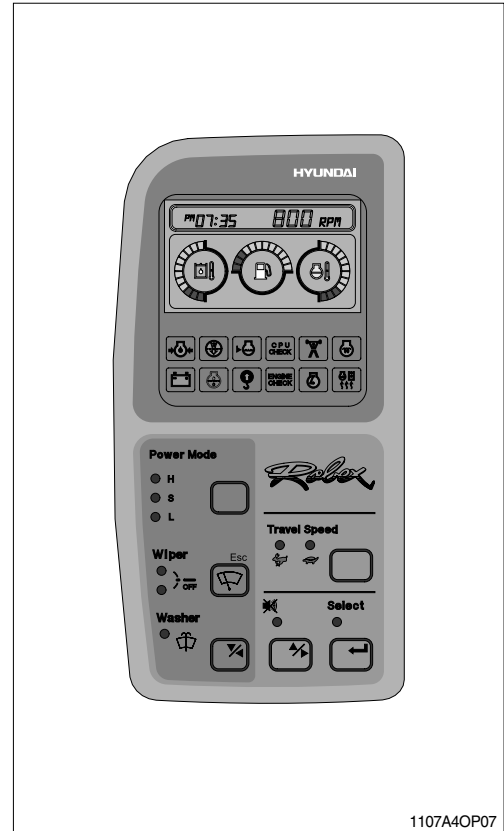


(2) After engine start

- ① When the engine is started, three lamps are ON as below.

Mode		Status
Work mode		ON
Power mode	S	ON
Travel mode	Low()	ON
Auto decel mode		ON

- In this condition, tachometer indicates low idle, 950 ± 100 rpm.
 - If coolant temperature is below 30°C , after 10 seconds the engine speed increases to 1200 ± 100 rpm automatically to warm up the machine.
 - After 2-3 minutes, you can select any mode depending on job requirement.
- ② Self-diagnostic function can be carried out the same as start key is ON.
- ※ Refer to the page 3-5 for details.



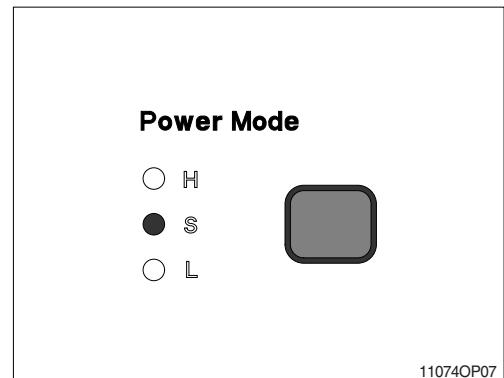
3) SELECTION OF POWER MODE

(1) S mode

When the accel dial is at setting 10 and auto decel mode is cancelled and S mode is selected.

Engine rpm	Effect
2050 ± 50	Same power as non mode type machine.

- ※ When the accel dial is located below 9 the engine speed decreases about 50~100rpm per dial set.

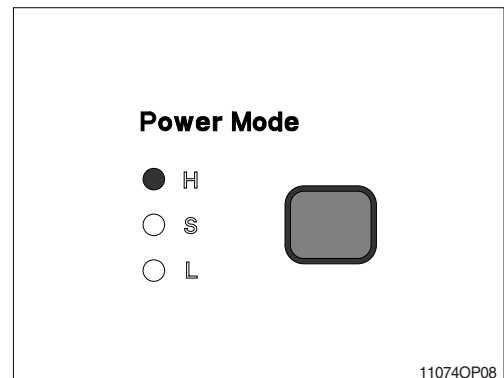


(2) H mode

When the accel dial is at setting 10 and auto decel mode is cancelled and H mode is selected.

Engine rpm	Effect
2200 ± 50	Approximately 110% of power and speed available than non mode type machine or S mode.

- ※ When the accel dial is located below 9 the engine speed decreases about 50~100rpm per dial set.



(3) L mode

When the accel dial is at setting 10 and auto decel mode is cancelled and L mode is selected.

Engine rpm	Effect
1900 ± 50	Approximately 85% of power and speed available than non mode type machine or S mode.

※ When the accel dial is located below 9 the engine speed decreases about 50~100rpm per dial set.

