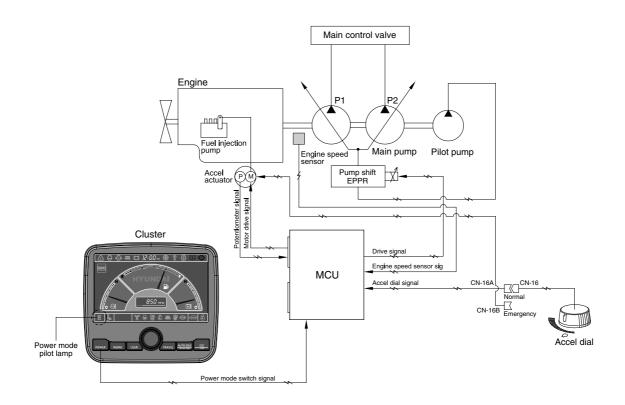
GROUP 2 MODE SELECTION SYSTEM (CLUSTER TYPE 1)

1. POWER MODE SELECTION SYSTEM



3009SH5MS02

Mode selection system (micro computer based electro-hydraulic pump and engine mutual control system) optimizes the engine and pump performance.

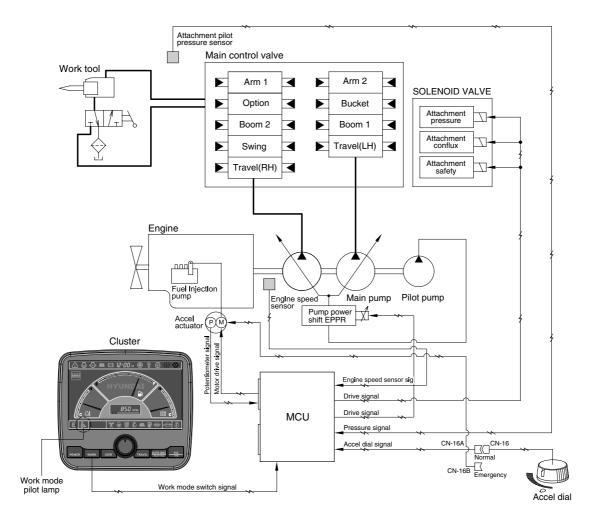
The combination of 3 power modes (P, S, E) and accel dial position (10 set) makes it possible to use the engine and pump power more effectively corresponding to the work conditions from a heavy and great power requesting work to a light and precise work.

	Application	Engine rpm			Power shift by EPPR valve				
Power mode Application		Standard		Option		Standard		Option	
	Unload	Load	Unload	Load	Current (mA)	Pressure (kgf/cm²)	Current (mA)	Pressure (kgf/cm²)	
Р	Heavy duty power	1850±50	1800±50	1900±50	1850±50	360±30	12	250±30	5
S	Standard power	1750±50	1700±50	1800±50	1750±50	400±30	15±3	290±30	8±3
Е	Economy operation	1650±50	1600±50	1700±50	1650±50	400±30	15±3	450±30	13±3
AUTO DECEL	Engine deceleration	1150±100	-	1150±100	-	700±30	38±3	700±30	38±3
One touch decel	Engine quick deceleration	950±100	-	950±100	-	700±30	38±3	700±30	38±3
KEY START	Key switch start position	950±100	-	950±100	-	700±30	38±3	700±30	38±3

^{*} Power shift (Standard/Option) can be changed by "Service menu" in "Management" on the cluster.

2. WORK MODE SELECTION SYSTEM

Work mode consists of the general operation (bucket) and the optional attachment (breaker, crusher).



3809SH5MS03

1) GENERAL WORK MODE (bucket)

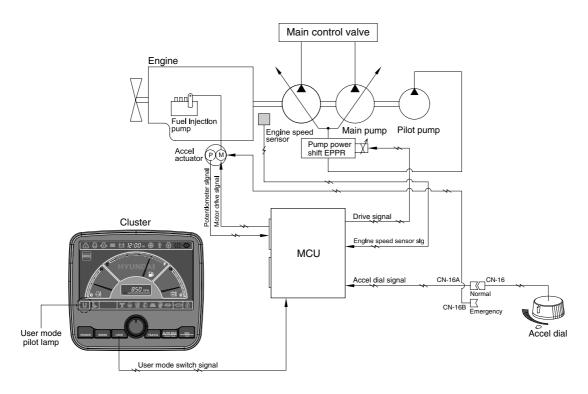
This mode is used to general digging work.

2) ATT WORK MODE (breaker, crusher)

It controls the pump flow and system pressure according to the operation of breaker or crusher.

Description	General mode	Work tool		
Description	Bucket	Breaker	Crusher	
Attachment safety solenoid	OFF	ON	ON	
Attachment pressure solenoid	OFF	OFF	ON	
Attachment conflux solenoid	OFF	OFF	ON/OFF	
Attachment flow EPPR current	100 mA	100~700 mA	0~700 mA	

3. USER MODE SELECTION SYSTEM



3009SH5MS04

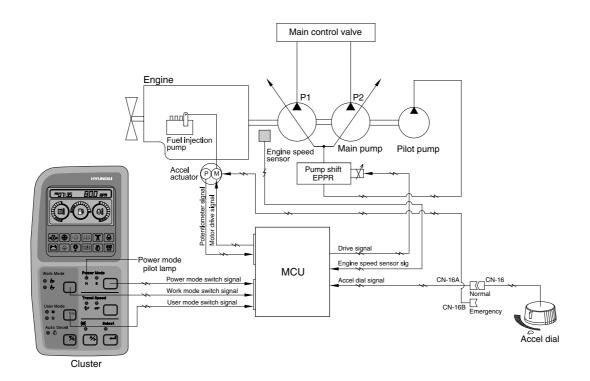
1) High idle rpm, auto idle rpm and EPPR pressure can be adjusted and memorized in the U-mode.

2) LCD segment vs parameter setting

Step (■)	Engine speed (rpm)	Idle speed (rpm)	Power shift (bar)
1	1450	900	0
2	1500	950 (low idle)	3
3	1550	1000	6
4	1600	1050	9
5	1650	1100	12
6	1700	1150(decel rpm)	16
7	1750	1200	20
8	1800	1250	26
9	1850	1300	32
10	1900	1350	38

■ MODE SELECTION SYSTEM (CLUSTER TYPE 2)

1. POWER MODE SELECTION SYSTEM



3009SH5MS21

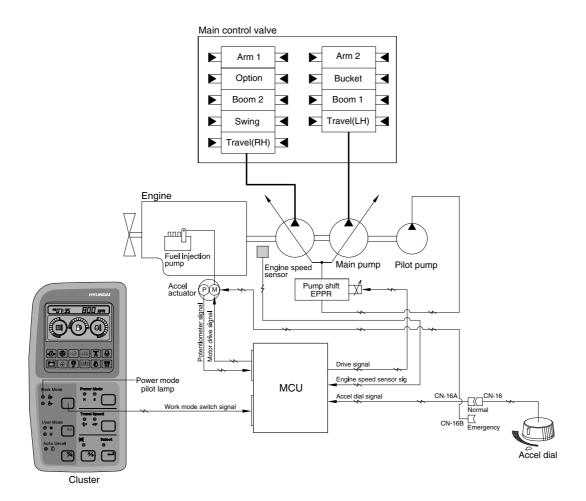
Mode selection system (micro computer based electro-hydraulic pump and engine mutual control system) optimizes the engine and pump performance.

The combination of 2 power modes (H, S) and accel dial position (10 set) makes it possible to use the engine and pump power more effectively corresponding to the work conditions from a heavy and great power requesting work to a light and precise work.

	Application	Engine rpm			Power shift by EPPR valve				
Power mode		Standard		Option		Standard		Option	
		Unload	Load	Unload	Load	Current (mA)	Pressure (kgf/cm²)	Current (mA)	Pressure (kgf/cm²)
Р	Heavy duty power	1850±50	1800±50	1900±50	1850±50	330±30	10	250±30	5
S	Standard power	1750±50	1700±50	1800±50	1750±50	365±30	13±3	290±30	8±3
Е	Economy operation	1650±50	1600±50	1700±50	1650±50	365±30	13±3	330±30	10±3
AUTO DECEL	Engine deceleration	1150±100	-	1150±100	-	700±30	38±3	700±30	38±3
One touch decel	Engine quick deceleration	950±100	-	950±100	-	700±30	38±3	700±30	38±3
KEY START	Key switch start position	950±100	-	950±100	-	700±30	38±3	700±30	38±3

2. WORK MODE SELECTION SYSTEM

2 Work modes can be selected for the optional work speed of the machine operation.



3809SH5MS22

1) HEAVY DUTY WORK MODE

Boom and arm operation speed faster than general work mode.

2) GENERAL WORK MODE

When key switch is turned ON, this mode is selected and swing operation speed is faster than heavy duty work mode.

Work mode	Heavy duty work solenoid	Max flow cut-off solenoid	
Heavy duty	OFF	OFF	
General	ON	OFF	

3. USER MODE SELECTION SYSTEM

An operator can change the engine and pump power and memorize it for his preference.

Mode	Operation	
11	High idle rpm, auto decel rpm	
0	EPPR pressure can be modulated and memorized separately	

HOW TO MPDULATE THE MEMORY SET

- Each memory mode has a initial set which are mid-range of max engine speed, auto decel rpm, and EPPR valve input current.
- 2) High idle rpm, auto decel rpm, EPPR pressure can be modulated and memorized separately in the U-mode.
- * Refer to the page 5-68 for set of use mode.

· LCD segment vs parameter setting

Segment (■)	ACCEL (rpm)	DECEL (rpm)	EPPR (mA)
1	1450	900	150
2	1500	950 (low idle)	200
3	1550	1000	250
4	1600	1050	300
5	1650	1100	350
6	1700	1150 (decel rpm)	400
7	1750	1200	450
8	1800	1250	500
9	1850	1300	550
10	1900	1350	600

