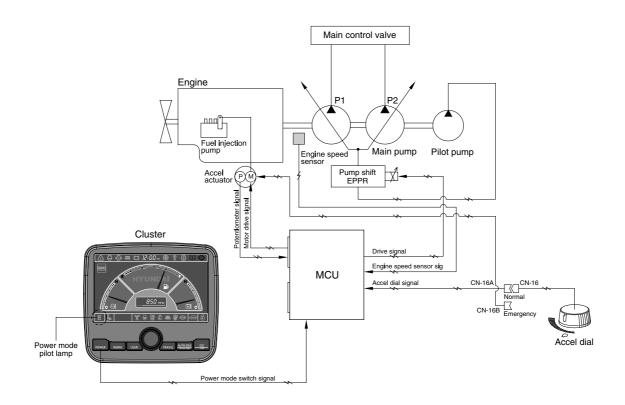
GROUP 2 MODE SELECTION SYSTEM (CLUSTER TYPE 1)

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.

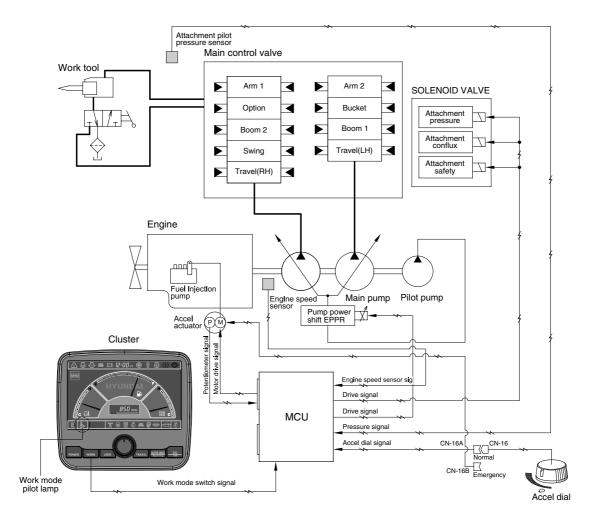
The combination of 3 power modes (P, S, E) and accel dial position (10 set) makes it possible to use the engine and pump power more effectively corresponding to the work conditions from a heavy and great power requesting work to a light and precise work.

	Application	Engine rpm			Power shift by EPPR valve				
Power mode		Standard		Option		Standard		Option	
		Unload	Load	Unload	Load	Current (mA)	Pressure (kgf/cm²)	Current (mA)	Pressure (kgf/cm²)
Р	Heavy duty power	1900±50	1700±50	1950±50	1750±50	365±30	13±3	290±30	8
S	Standard power	1800±50	1600±50	1850±50	1650±50	365±30	13±3	330±30	10
Е	Economy operation	1700±50	1500±50	1750±50	1550±50	365±30	13±3	330±30	10
AUTO DECEL	Engine deceleration	1150±100	-	1150±100	-	700±30	38±3	700±30	38±3
One touch decel	Engine quick deceleration	1000±100	-	1000±100	-	700±30	38±3	700±30	38±3
KEY START	Key switch start position	1000±100	-	1000±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).



3309S5MS03

1) GENERAL WORK MODE (bucket)

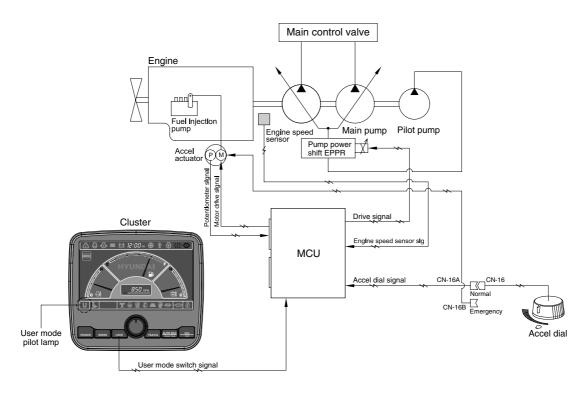
This mode is used to general digging work.

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

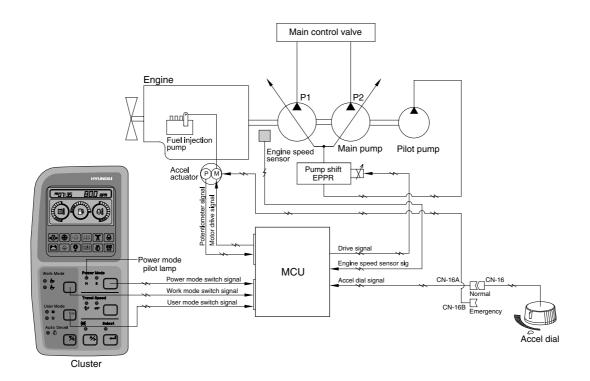
1) High idle rpm, auto idle rpm and EPPR pressure can be adjusted and memorized in the U-mode.

2) LCD segment vs parameter setting

Step (▮)	Engine speed (rpm)	Idle speed (rpm)	Power shift (bar)
1	1300	800	0
2	1400	850	3
3	1500	900	6
4	1600	950	9
5	1700	1000 (low idle)	12
6	1750	1050	16
7	1800	1100	20
8	1850	1150 (decel rpm)	26
9	1900	1200	32
10	1950	1250	38

■ MODE SELECTION SYSTEM (CLUSTER TYPE 2)

1. POWER MODE SELECTION SYSTEM



3009SH5MS21

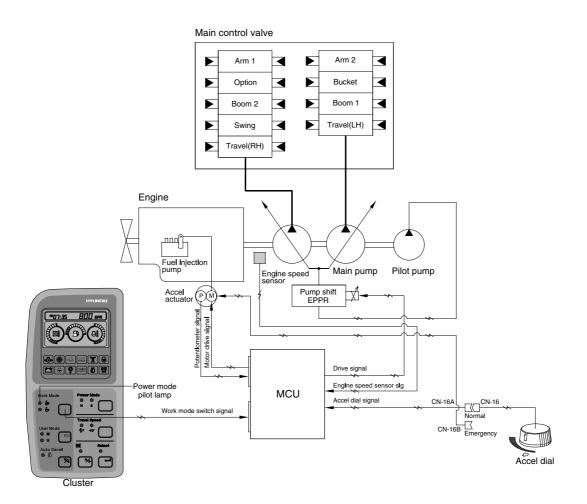
Mode selection system (micro computer based electro-hydraulic pump and engine mutual control system) optimizes the engine and pump performance.

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 App		Standard		Option		Standard		Option	
		Unload	Load	Unload	Load	Current (mA)	Pressure (kgf/cm²)	Current (mA)	Pressure (kgf/cm²)
М	Maximum power	1900±50	1700±50	1950±50	1750±50	365±30	13±3	290±30	8
Н	High power	1800±50	1600±50	1850±50	1650±50	365±30	13±3	330±30	10
S	Standard power	1700±50	1500±50	1750±50	1550±50	365±30	13±3	330±30	10
AUTO DECEL	Engine deceleration	1150±100	-	1150±100	-	700±30	38±3	700±30	38±3
One touch decel	Engine quick deceleration	1000±100	-	1000±100	-	700±30	38±3	700±30	38±3
KEY START	Key switch start position	1000±100	-	1000±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.



3309S5MS22

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
	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	1300	800	150
2	1400	850	200
3	1500	900	250
4	1600	950	300
5	1700	1000 (low idle)	350
6	1750	1050	400
7	1800	1100	450
8	1850	1150 (decel rpm)	500
9	1900	1200	550
10	1950	1250	600

