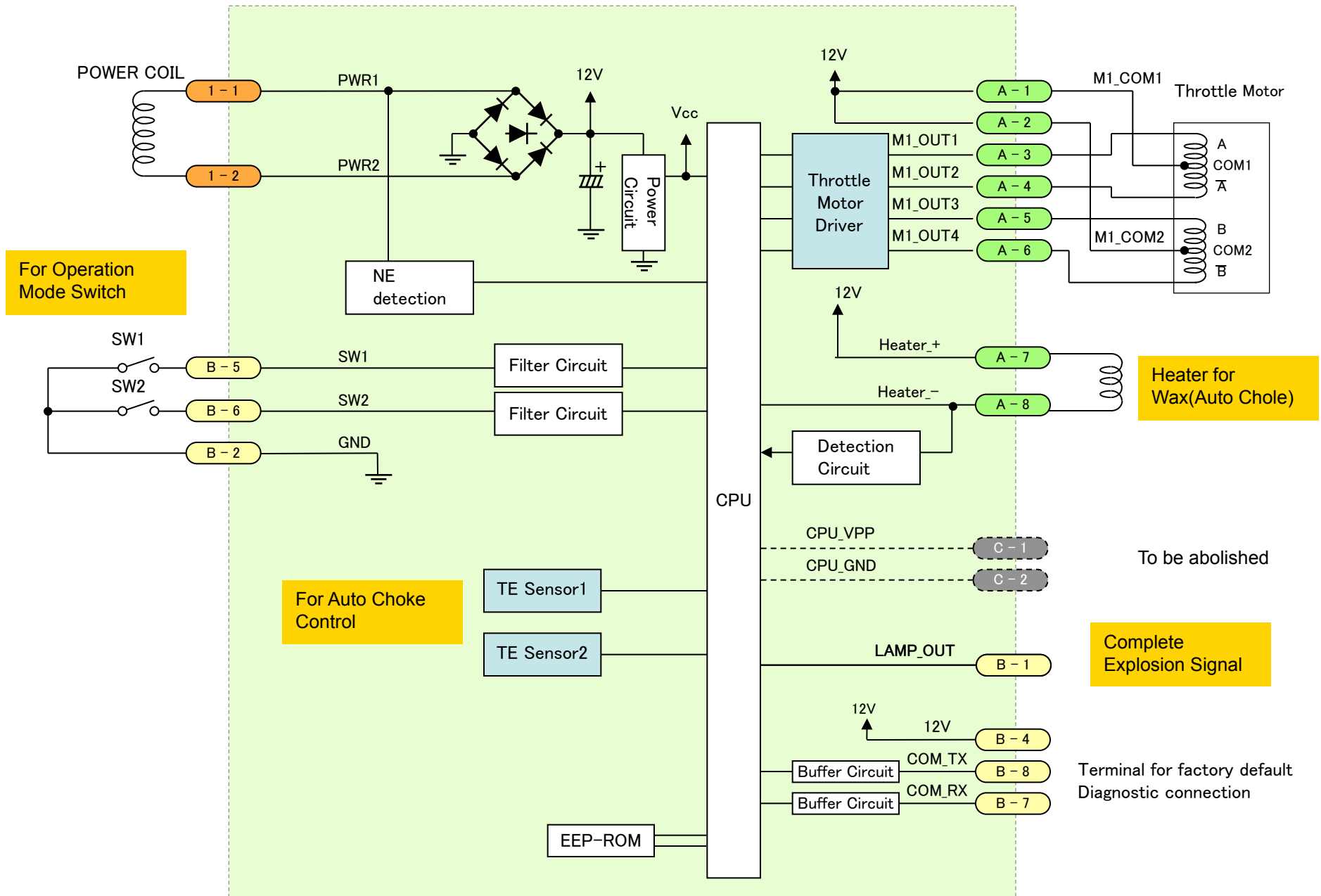


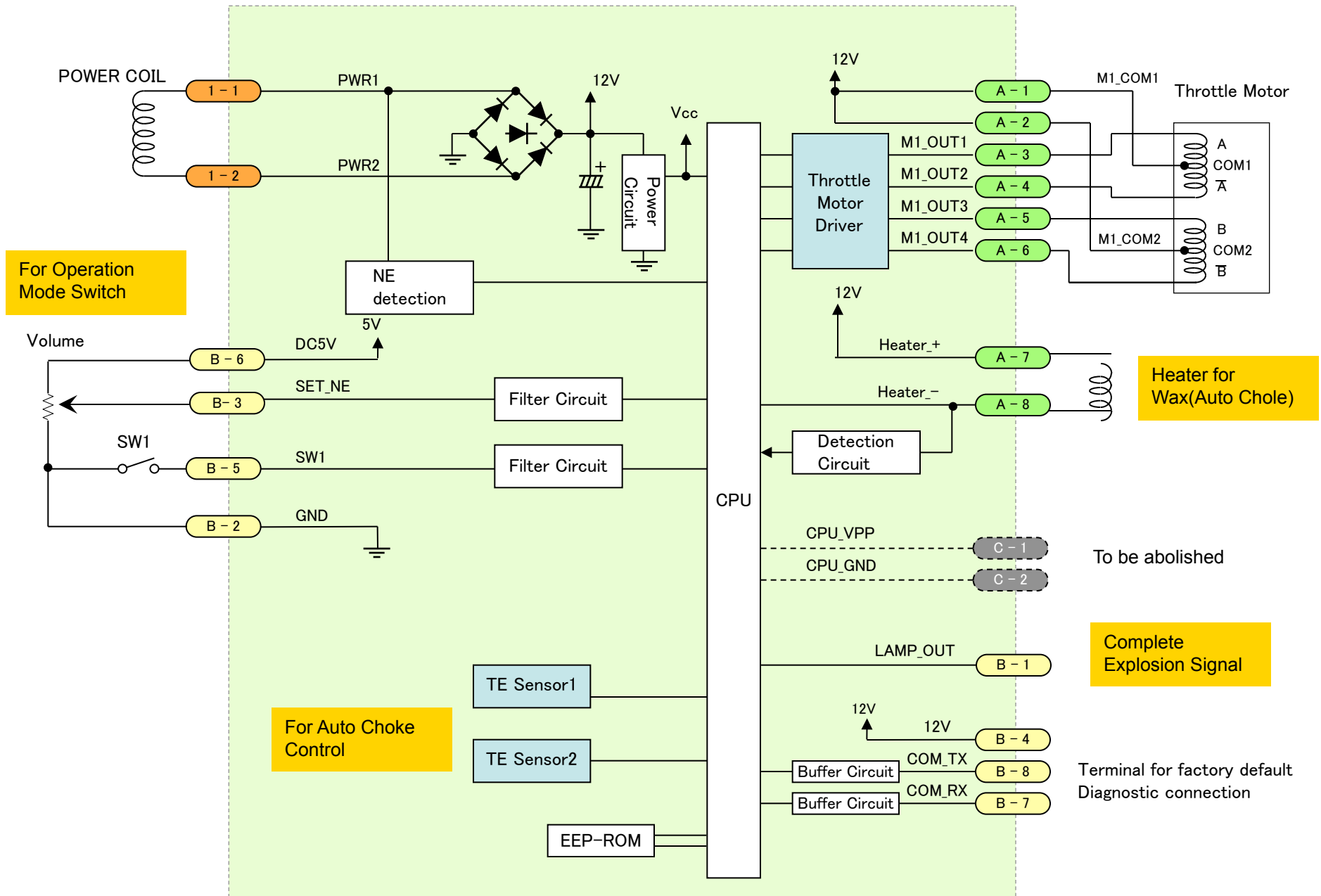
ECU Block Diagram

SW Version



ECU Block Diagram

Volume Version



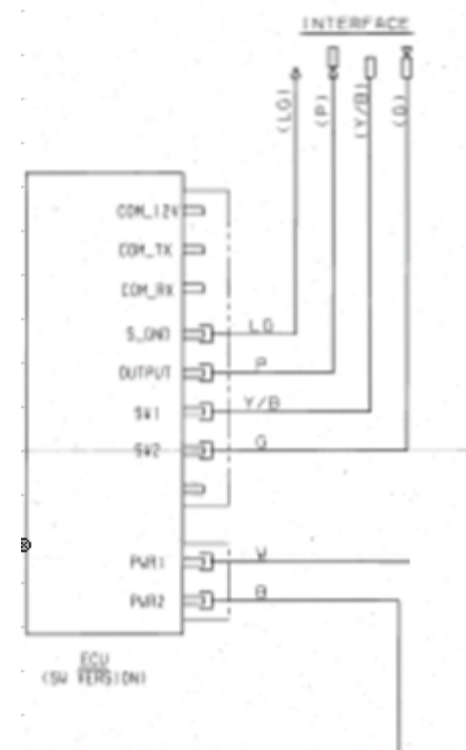
(4) Self-tuning auto throttle mode 1 . . . New

■Features

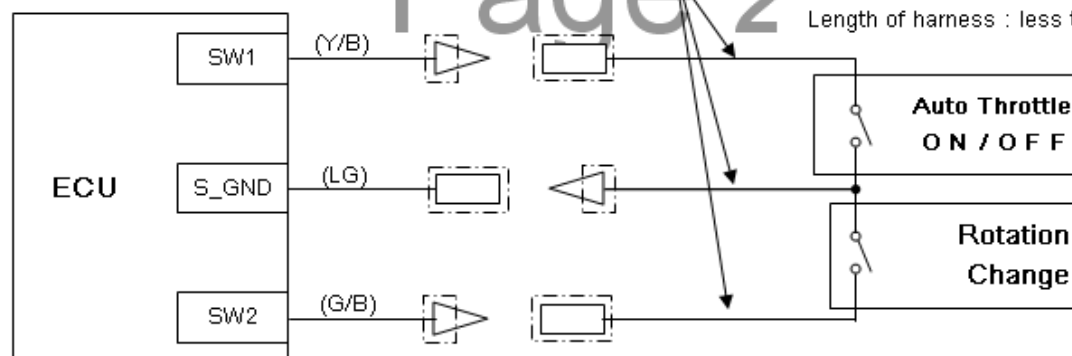
- Engine itself detects load , then after it changes over to targeted rotation.
- Load detection is effective when SW1 is on, when SW1 is off, engine runs at operation rotation.
- 2 different operation rotation and idling rotation can be set respectively and selected by SW2.
- No need to set load detection conditions
- It is necessary to run at idling rotation and operation rotation w/o load before shipment.

■Set items

Items	Descriptions
SW2 OFF idle[rpm]	Rotation without load when SW2 is off.
SW2 OFF operation[rpm]	Rotation with load when SW2 is off.
SW2 ON idle[rpm]	Rotation without load when SW2 is on.
SW2 ON operation[rpm]	Rotation with load when SW2 is on.
Increase decrease volume[rpm/sec]	Amount of change in targeted rotation
Off state duration time[sec]	Delayed duration time to idling rpm after detecting no load Attention : Set more than 5[sec] (※ 1)
Auto throttle type	Alternatives, depending on engine application <ul style="list-style-type: none"> • Generator Type(Cylindrical Generators) • P/W Type(P/W, Water Pump etc)



●Pressure Washer(PW) Package



Inside of () indicate color of code

※Recommended Harness Specs

Line type : Equivalent to A V 0 . 5 s q

Length of harness : less than 5 m

Page 2

■ Output terminal

- Output : Start Signal

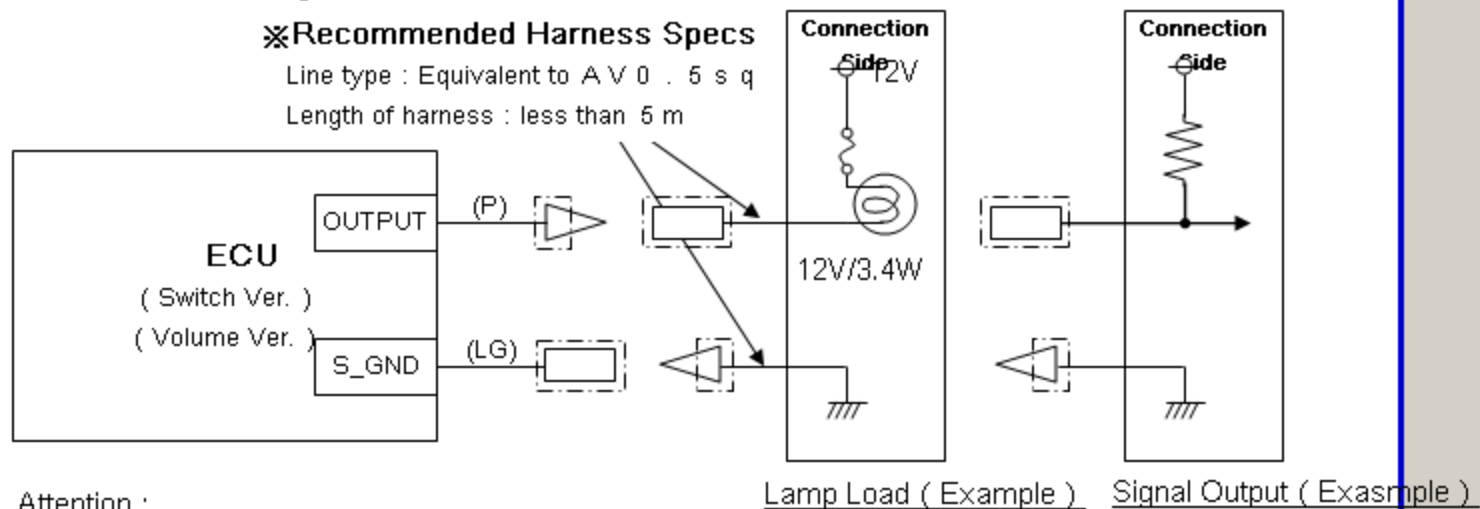
(Complete explosion RPM : In case of 1000rpm、FET inside ECU becomes On)

- Load : Connecting with lamp load . . . less than 12V/3.4W

Using as signal output . . . less than 0.5A (continuous energization)

(参考 : 1msパルス通電時 3A以下)

【Connection with engine】

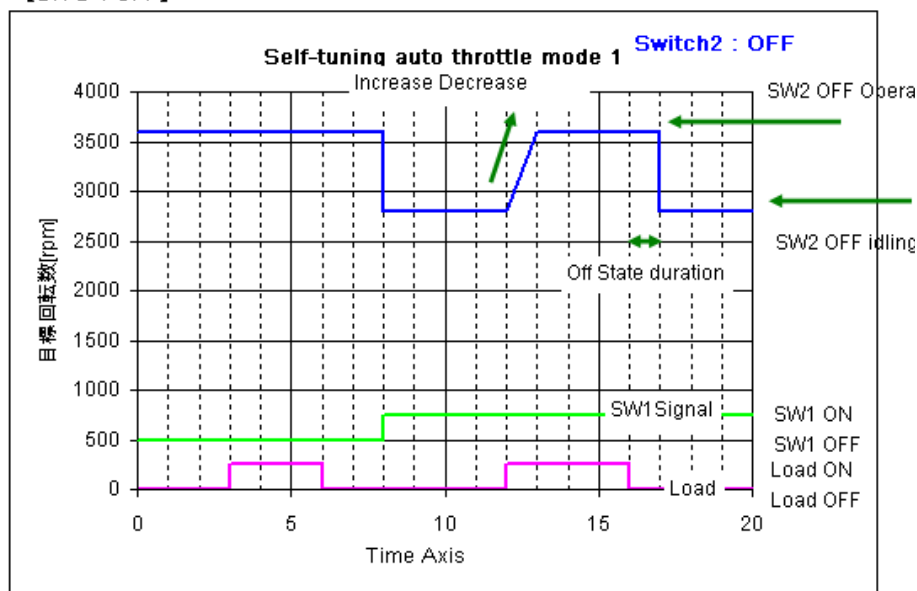


Attention :

Fen on E C U side may drop to Max1.5V (Continuous energization at 0.5A)

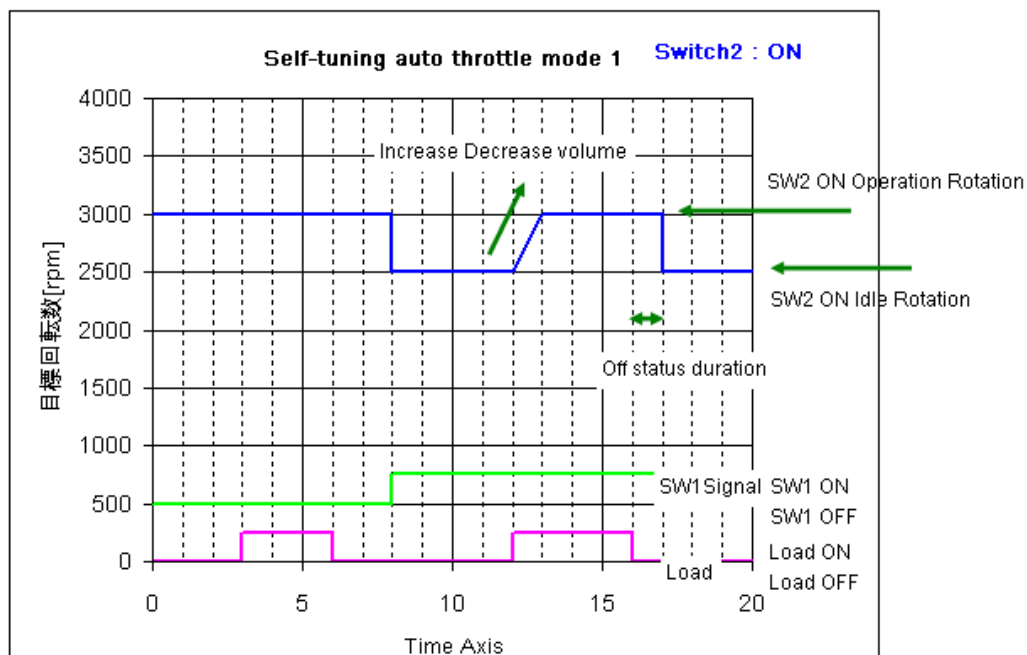
Page 3

【SW 2 : OFF】



Items	Washer (P/W)
34750-Z5TZ	-W710-M1
SW2 OFF idle[rpm]	2000
SW2 OFF operation[rpm]	3600
SW2 ON idle [rpm]	2000
SW2 ON operation[rpm]	2800
Increase decrease volume[rpm/sec]	0
Off state duration time[sec]	3 (※2)
Auto throttle type	P/W Type
Output signal (Please refer to below)	Complete Explosion Judgement Signal
[pulse/round]	8 (Multi Pole Alt)

【Switch 2 : ON】



■Output Signal (OUTPUT)

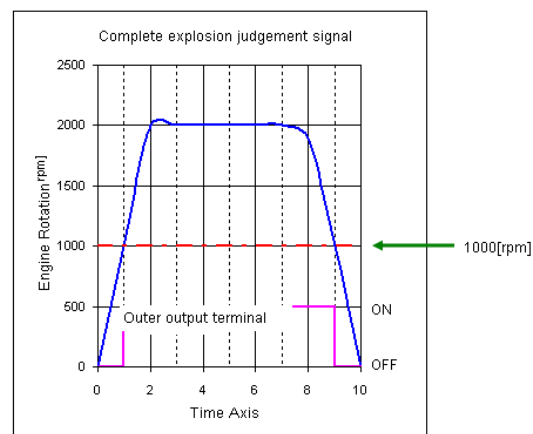
Start Signal . . . Standard setting

■Features

- When engine rotation reach more than 1000rpm, out output terminal becomes on. Less than 1000rpm, output becomes off.

■Set up items

No



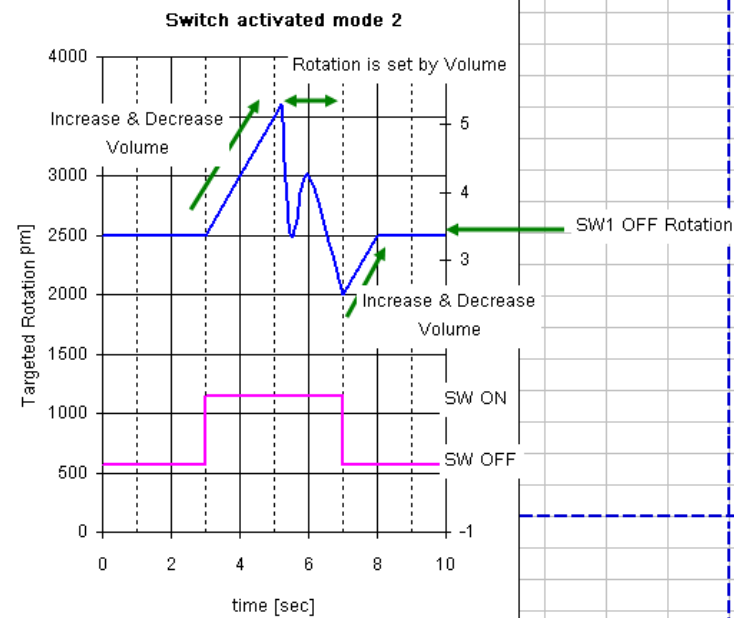
(2) Switch activated mode 2

■Features

- Fixed RPM or arbitray RPM to be changed by Switch (× 1)
- RPM can be adjusted freely by Volume (× 1)

■Set items

Items	Descriptions
Volume Min[rpm]	Targeted RPM when volume becomes Min
Volume Max[rpm]	Targeted RPM when volume becomes Max
SW1 OFF [rpm]	Targeted RPM when SW 1 is off
Increase decrease volume[rpm/sec]	Amount of change of targeted Rotation



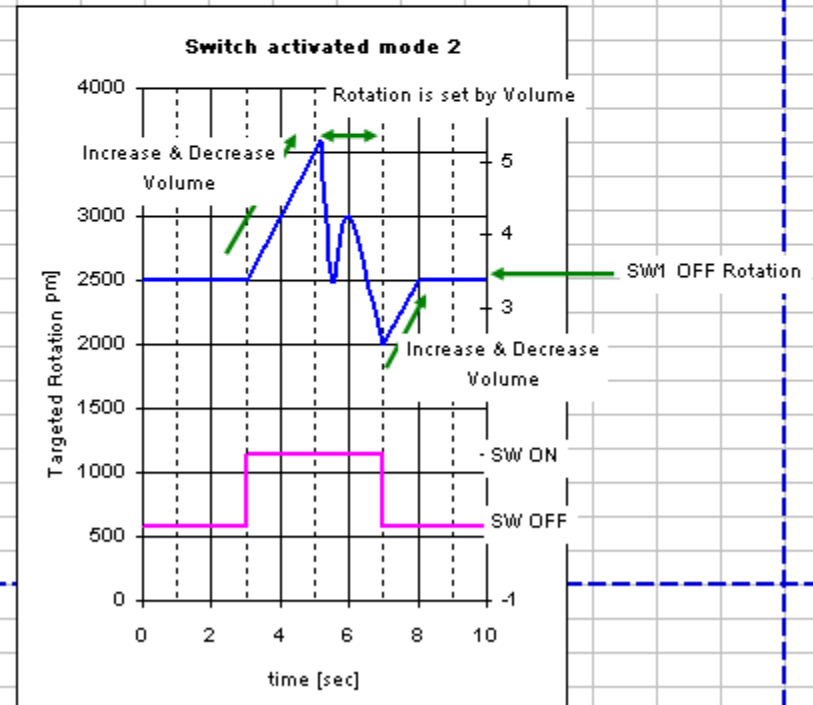
(2) Switch activated mode 2

■Features

- Fixed RPM or arbitray RPM to be changed by Switch (× 1)
- RPM can be adjusted freely by Volume (× 1)

■Set items

Items	Descriptions
Volume Min[rpm]	Targeted RPM when volume becomes Min
Volume Max[rpm]	Targeted RPM when volume becomes Max
SW1 OFF [rpm]	Targeted RPM when SW 1 is off
Increase decrease volume[rpm/sec]	Amount of change of targeted Rotation



(5) Standard plus mode

■Features

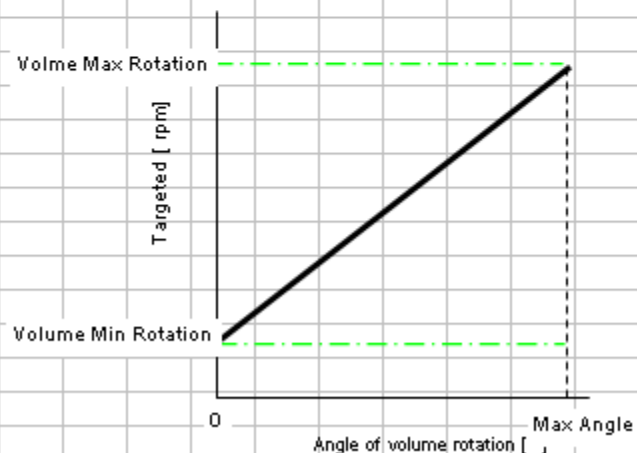
- It is possible to change Rotation by volume (× 1) arbitrarily.

■Set up items

Items	Descriptions
Volume Min[rpm]	Targeted rotation when volume becomes min.
Volume Max[rpm]	Targeted rotation when volume becomes max.

【General E C U Parameter】

Items		
34750-Z5TZ	-W110-M1	N.A
Volume Min [rpm]	1400	1400
Volume Max[rpm]	3600	3600
Output Signal (Refer to the following)	Complete Explosion Judgement Signal	
[pulse/round]	2(Powercoil)	8 (Multipole Alt)



(1) As for user set-up switch , volume etc, please select part which can meet recommended specs.

※Basic specs are same with iGX440.

■ Volume (Potentiometer)

- Total resistance : 5kΩ±20%
- Rated voltage : DC5V
- DC5V output current : 1.3mA MAX

【Volume set Range】

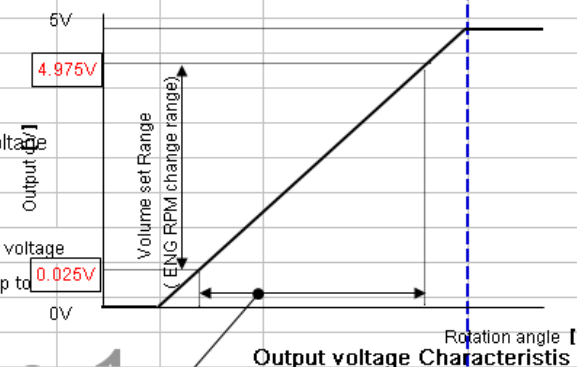
Range of Max/Min of 0.5% cut from Input Voltage

※Please set the voltage range, which is output from potentiometer, can meet the this graph.

For example, potentiometer output lower bound voltage

is more than 0.025V、Eng rotation may not drop to

set lower bound rotation.



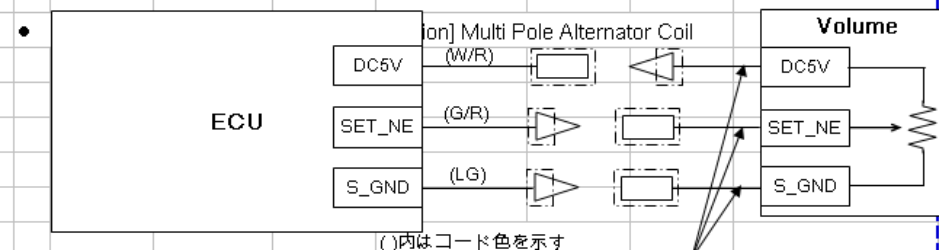
Page 1

It is necessary for rotation angle of potention meter to cover this range.

*Attention: ECU Number to be changed , if coupled with multi pole alternator (10A/17A Charge Coil)

【Connection with engine】

Applicable harness : 32110-Z5TZ-W500/32110-Z5KZ-W500



※Recommended Harness Specs

Line type : Equivalent to AV 0 . 5 s q

Length of harness : less than 5 m