

TACHO IF MODULE SERIES 2

PART NUMBER 040115P1

Product features:

- Suitable for All machines multi cylinder and single cylinder.
- Input signals adjustable by onboard dil switches.
- Small unit size 75mm x 50mm x 20mm. (+6v/12V Powered)
- Input signals can be taken from either ECU coil outputs or ECU TACHO O/P (SWITCHABLE)

Description:

The TACHO IF MODULE SERIES2 unit is designed for applications where our normal TACHO INTERFACE MODULE (010113p1) will not give the correct output.

The unit is programmed via an access cover dilswitch as shown in FIG2 below, with the options IN FIG 3 being available, via both a +12v output lead (BLUE) or +5 output lead (BROWN)

A diagnostic LED is visible on the box to indicate correct operation, and to aid installation, with a flashing LED indicating a missing I/P signal or processor reset due to high noise levels.

INSTALLATION: the unit is connected up as shown in FIG 5, then the dilswitches are set as per the chart on page 3 to complete the job. Switching on dilswitch 6 and 8 will output a 6000rpm test signal as an aid to whether the unit can drive your tachometer unit properly.

INPUTS: The unit has 2 inputs, I/P1 (YELLOW) is for high voltage connection to a CDI/Inductive ignition on the host engine and has hardware filtering to remove switching noise such that only a valid spark output will be received as a valid signal.

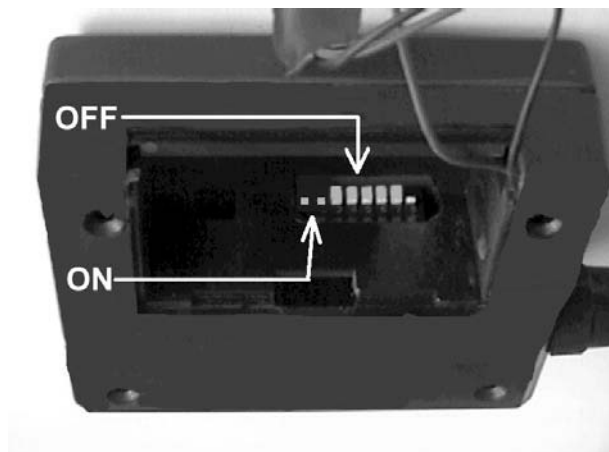
I/P2 (ORANGE) is a low voltage input (max voltage 5v), and would normally be used for connecting to an ECU tachometer output connector directly.

OUTPUTS: The unit has 2 outputs, output 1 (BLUE) is a +12v/0v output with O/P 2(BROWN) being a +5v/0v output for direct connection to logic devices.

FIG 1 Unit view



FIG 2 Programming location



**FIG3
SIGNAL WAVEFORMS**

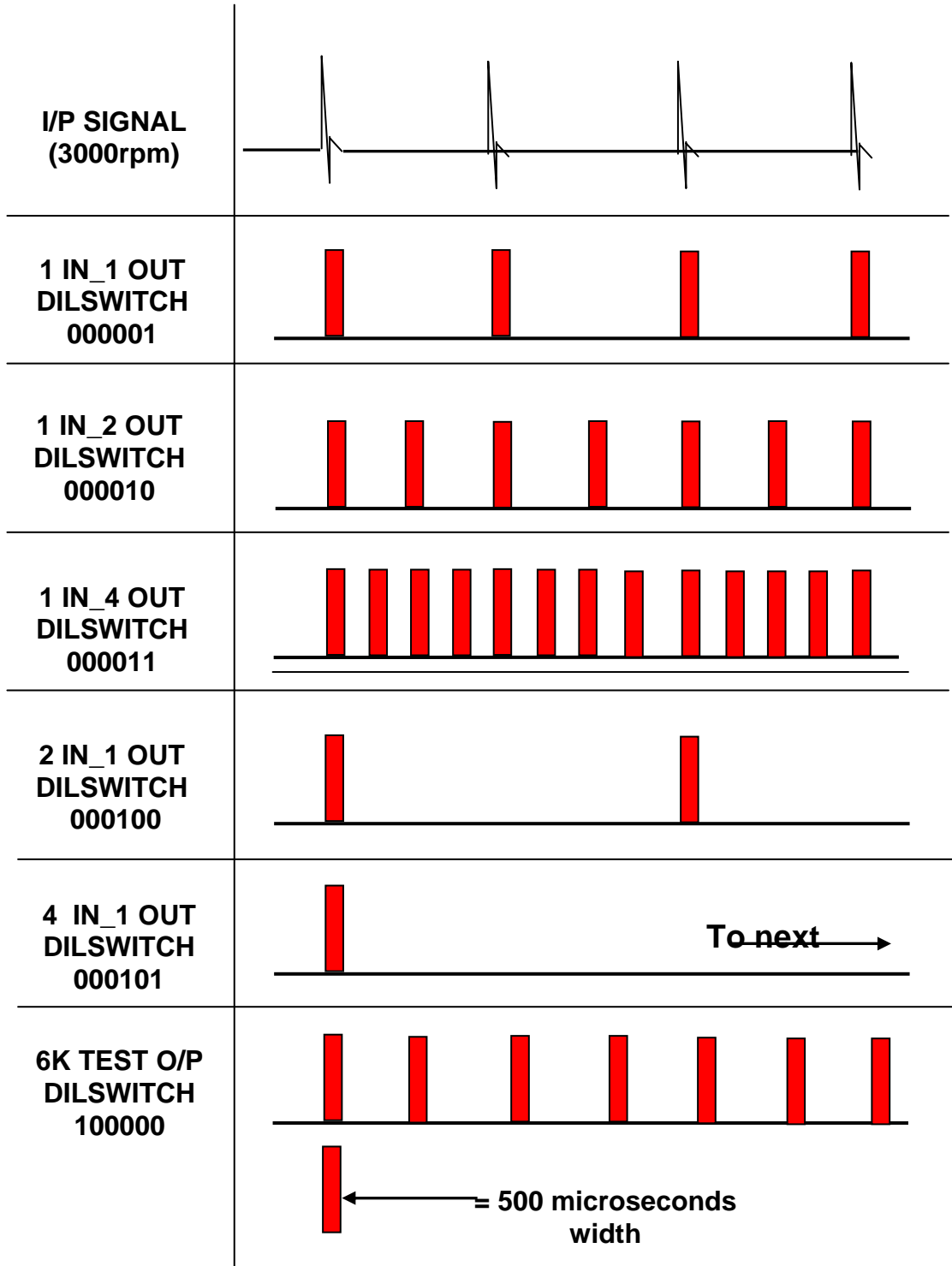


FIG4
Unit wiring connections

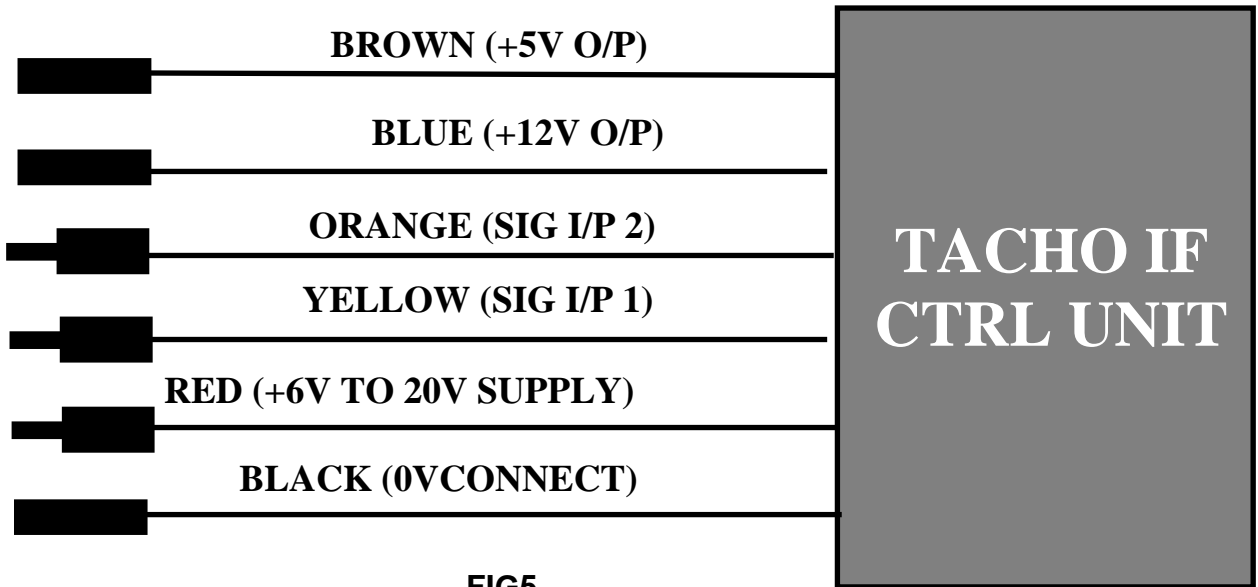


FIG5
Typical machine installation (CDI)

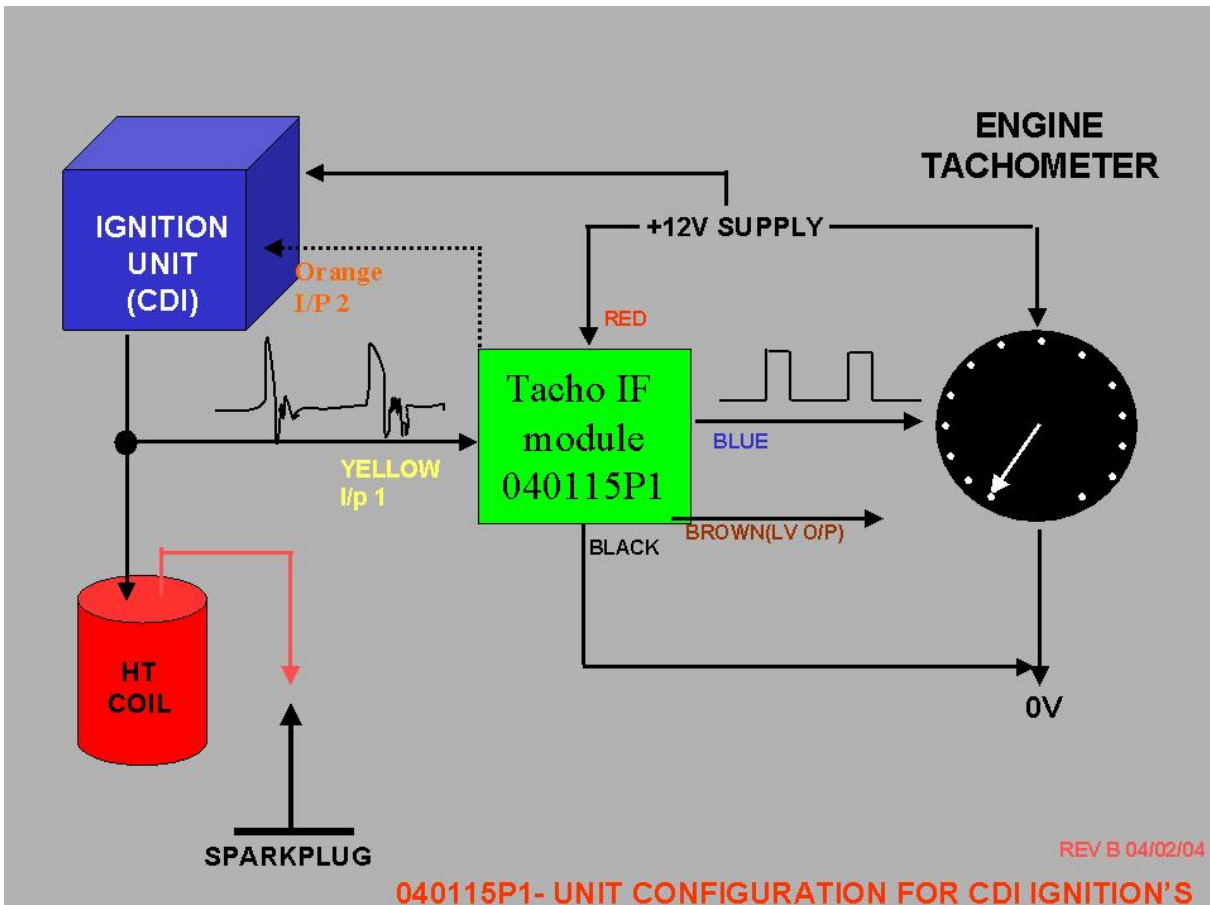
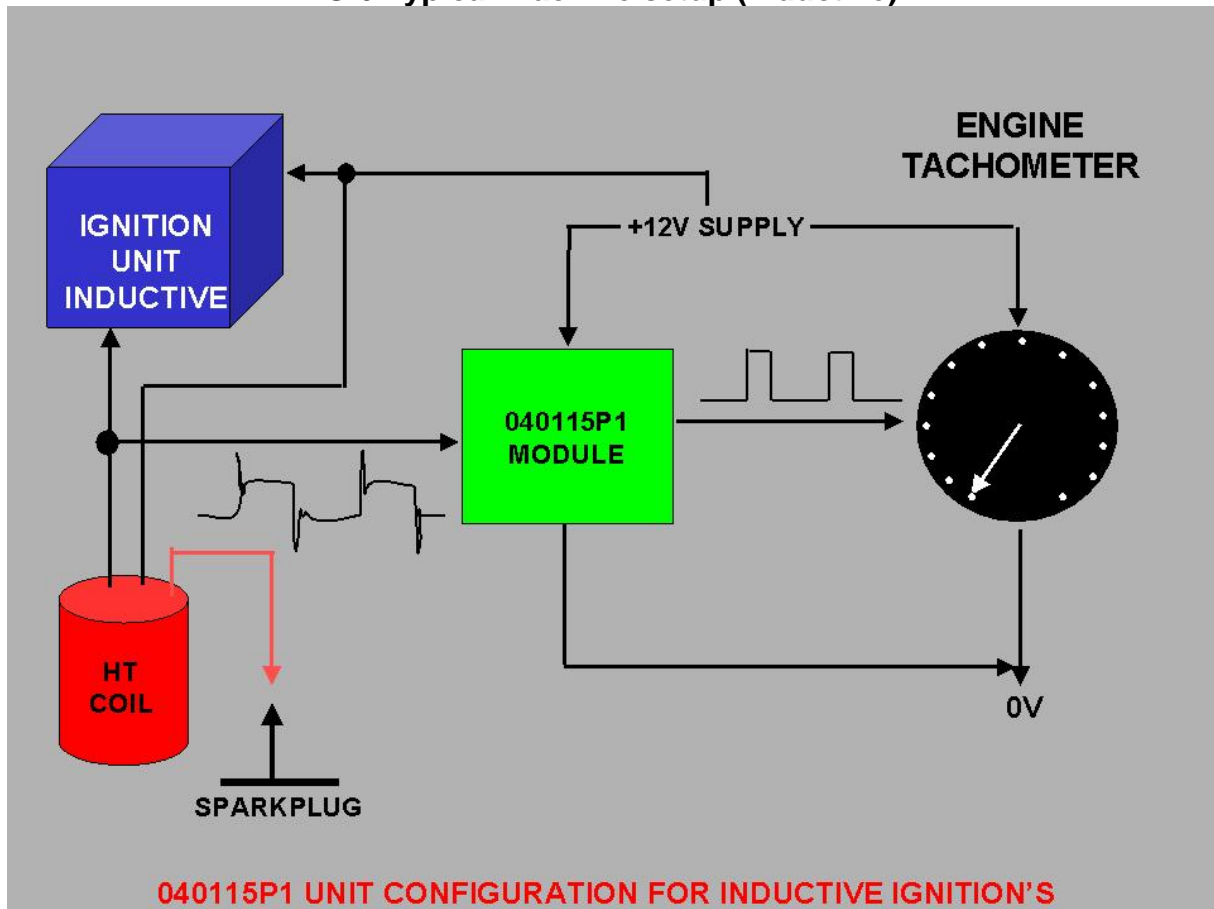


FIG 6 Typical machine setup (Inductive)



UNIT PROGRAMMING OPTIONS:

**DILSWITCH
(1 TO 8 SHOWN):**

1-2-3-4-5-6-7-8

1 0 0 0 0 0 1	1 PULSE IN 1 PULSE OUT MODE
0 1 0 0 0 0 1	1 PULSE IN 2 PULSE OUT MODE
0 1 1 0 0 0 1	1 PULSE IN 4 PULSE OUT MODE
0 0 1 0 0 0 1	2 PULSE IN 1 PULSE OUT MODE
1 0 1 0 0 0 1	4 PULSE IN 1 PULSE OUT MODE
0 0 0 0 0 1 0 1	TEST MODE 6000 RPM OUT
DILSWITCH 5 ON	SELECT INPUT 1 (YELLOW)
DILSWITCH 5 OFF	SELECT INPUT 2 (ORANGE)

TECHNICAL SPECIFICATIONS

Storage Temperature range	-30 to +80 Celsius
Operating Temperature range	0 to + 50 Celsius at 90% Humidity Noncondensing
Supply voltage I/p	+7v to +25v at +12v supply wire (Red)
Current draw quiescent / active	16 mA.
Dimensions	85mm by 70mm by 30mm
Weight	130 grams
Inputs/Outputs (1)	2 INPUTS 1 HI VOLTS/5V MAX
Engine RPM measurement range **	600 - 25000 rpm