## AN002 – Application Note Trigger and Sync Definitions for Honda 600RR Release Date 1/27/12

Firmware/Software Version:	PE3 V3.02.01 and higher
Relevant Hardware:	Stock Honda CBR600RR motorcycle engine
	The setup below assumes that the coils and injectors are wired in the order of the engine firing order. See below.
Additional Notes:	Coil #1 = Cylinder #1 Coil #2 = Cylinder #2 Coil #3 = Cylinder #4 Coil #4 = Cylinder #3
	Injector #1 = Cylinder #1 Injector #2 = Cylinder #2 Injector #3 = Cylinder #4 Injector #4 = Cylinder #3

Setup Engine							
Engine	Fuel	Ignition	Define TD	C Rev Limit	1		
Cylinders 4  Load Control TPS Tach Pulses per Rev 2		(2-wire) Sensor (2-wire) Sensor 12-0 Wheel rse Polarity Track Low	▼ 「 Sy	c Input (cam)		- Engine Configuration	¥

## **Trigger Diagnostic Plot**

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Get	Redi		Zoom In		Zoom	-	1			-	Save t	-		ad fror	-	Г	lide Co	ils	A	TOW II	, mov	e cui	501 A,	oillit		r to mo	ve Cursor
Signal	Cursor A	Cursor B																									
Crank Analog max= 2.49 min= -2.49	0.44	-1.90	$\mathbb{A}$	$\mathbb{N}$	M				M				$\mathbb{N}$				A		Ŋ							$\bigwedge$	$\mathbb{N}$
Crank	1	1			Л	IJ		Π		IJ														Π			$\square$
Crank Error	0	0																									
Cam Analog max= 2.34 min= -2.49	0.15	-0.29																									
Cam	0	1																									
Cam Error	0	0																									
Coil #1	0	0																									
Coil #2	0	0																				Ĩ					
Coil #3	0	0																									
Coil #4	0	0																									
Crank Tooth	21	15	~																								_,
RPM max= 514 min= 439	469	480																									7

Engine	Fuel	Ignitio	n De	efine TDC	Rev Limit	t				
ooth Before TD Compression Of		Cylinder #1 15	Cylinder #2 21 12	Cylinder #3 3	Cylinder #4 9	Cylinder #5 0	Cylinder #6 0	Cylinder #7 0	Cylinder #8 0	
gie from Tooth	to Sensor at TDC	12	12	12	12	J O	0	J	0	
fore TD	C = 0 - means cylind	ler NOT USED								
th before TD(	C = 0 - means cylind	ler NOT USED								
oth before TD	C = 0 - means cylind	ler NOT USED								
both before TD(	C = 0 - means cylind	ler NOT USED								
both before TD(	C = 0 - means cylind	ler NOT USED								

----- Disclaimer: The information contained in this document is believed to be correct. It is up to the end user to verify the correct setup for his/her application. -----

Define TDC Setup