

## **D&B SERIES TRIGGER KIT BASIC**

Honed's Trigger Kit for Honda D & B Series engines.

Includes provision for both the engine position Trigger and Home (also known as Sync or Cam Sensor) sensors.

This product is designed for use with aftermarket engine control units (ECUs) it is not compatible with OEM Honda ECUs (which means Hondata S100/200/300)

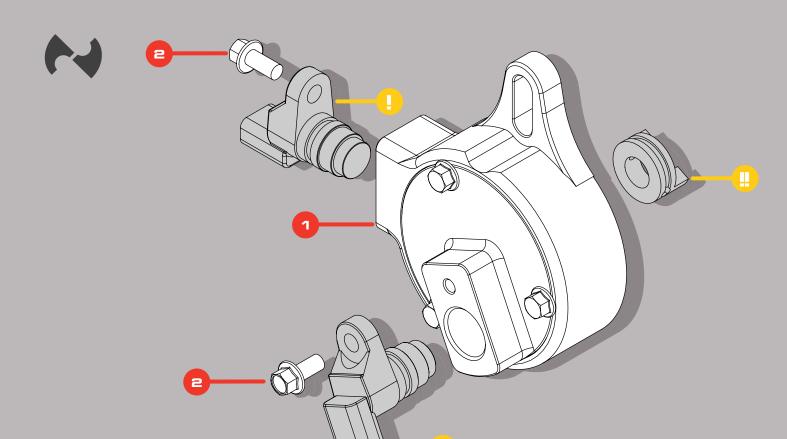
## **DISCLAIMER**

This product is not intended for people unfamiliar with aftermarket engine management systems and engine sensors. If installed or set up incorrectly there is a serious risk of damage to your engine.

Honed Development Pty Ltd holds no responsibility for any damage that occurs as a result of installation of this device.

This device is intended to be installed on off-road vehicle only.

Please read through these instructions fully before attempting to install the D&B Series Trigger Kit Basic



EXPLODED VIEW

# HDP40-01

## **PARTS INCLUDED**

	DESCRIPTION	QTY
1	Honed Trigger Kit Assembly	1
2	<b>M6</b> x 16 Flanged Hex Screw	2

If you did not receive all items listed, or any items arrive damaged, please contact Honed Developments via e-mail;

sales@honeddevelopments.com

## NECESSARY PARTS (NOT INCLUDED)

	DESCRIPTION	QTY
!	Honda Hall Effect Sensor	2
ij	Cam Drive and Components	1

- You will need a cam drive from an old Honda distributor
- · You will need two Honda Hall Effect Sensor
  - The relevant part no is; **37510PNB003**
  - These can be found on a huge number of Honda vehicles produced from 2002 onward. Such as the Honda Civic, Jazz/ Fit, CR-V etc. They are used on K-series and L-series engines (among others)
  - They can typically be found mounted in the head
  - Check the length of the sensor is ~ 21mm as shown in **Figure 01**



### **STEPS**

**1.** Remove the original distributor from the engine.

### Figure 02

- **2.** Remove the cam drive from the distributor
  - Use a small screw driver to pry the Retaining Clip off the cam drive Figure 03
  - **b.** Slide Pin out **Figure 04**
  - **c.** Remove Cam Drive and Shim **Figure 05**
  - d. You should be left with 4 items; Shim, Pin, Retaining Clip, Cam Drive Figure 06
- 3. Apply engine oil to the shaft of the Honed Trigger Kit. Also apply a light amount of oil to the o-ring

  Figure 07
- 4. Assemble the shim onto the Honed Trigger Kit Figure 08

**5.** Re-assemble the Cam Drive, Pin and Retaining

### Figure 09

**Note:** The drive dogs on the Cam Drive are slightly offset. The unit will only install into place with an OEM Honda cam in one orientation. You may need to remove the cam drive and rotate 180 degrees then re-install. With aftermarket cams it may be possible to end up with the trigger drive 180 degrees out

- **5.** Install Hall Effect sensor torque the M6 flange bolts to **6Nm Figure 10**
- 7. Mount the unit to your engine with either a M6 (D16a3) or M8 original distributor fastener. Typically the unit is oriented with the mounting tab facing upwards.

Continue to following pages for reference figures and appendix



# **REFERENCE FIGURES**

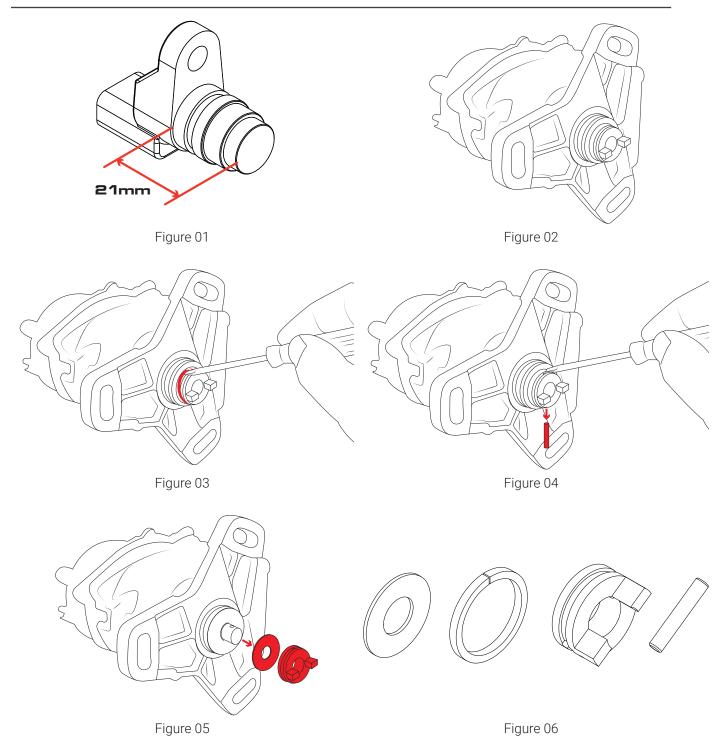






Figure 07

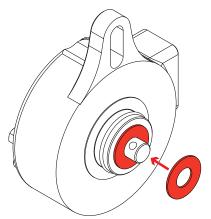
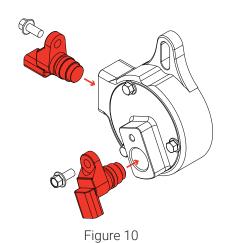


Figure 08

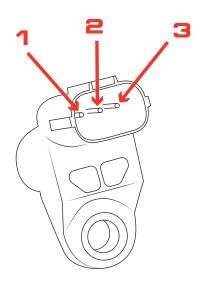


Figure 09



# **APPENDIX**

## **SENSOR PLUG WIRING**



1	Signal	
2	Signal Ground	
3	12v	



## **ECU CONFIGURATION - GENERAL**

- The trigger wheel is 8T
- The Home flag is a single/ revolution (1)
- · For full sync operation in most aftermarket ECU the trigger settings should follow
  - 8+1 and on the Cam
- A timing light and someone that knows how to set the TDC offset angle will be required

Max RPM	10,000
Trigger Signal Location	Cam
Trigger Tooth Pattern	8
Home Tooth Pattern	1
Trigger Sensor Type	Hall
Trigger Edge	Falling
Trigger Pull Up	Yes
Filter Level	0

### **ECU CONFIGURATION - HALTECH ECU**

- TDC Angle Starting suggestion 109° (This needs to be checked with timing light)
- · Pull up may like the strong setting

### **ECU CONFIGURATION - LINK ECU**

Trigger 1 Type	Optical/ Hall	
Trigger 1 Filtering	Level 1 (Low)	
Trigger 1 Pullup	On	
Trig 1 Edge	Falling	
Multi-tooh Posn	Cam	
Tooth Count	8	
Trigger 2 Type	Optical/ Hall	
Trigger 2 Filtering	Level 1 (Low)	
Trigger 2 Pullup	On	
Trig 2 Edge	Falling	
Sync Mode	Cam Pulse	

- TDC Angle Starting suggestion 240° (This needs to be checked with a timing light)
- When adjusting the trigger offset, be sure to upload the new number to the ECU.



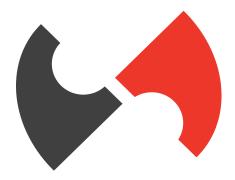
## **COMPLIMENTARY PRODUCTS**



# HONDA ENGINE PORT PLATES

Port covers to suit various iconic Honda engines.

For the purpose of protecting against unwanted objects falling into an engine during storage or when being worked on.



You're at the end! Thanks for trusting us!

If you have any questions please get in touch via e-mail sales@honeddevelopments.com

We'd love to see your project. Tag us on instagram **@honed\_developments**