



Owner's Manual

**CRANK TRIGGER STAND-ALONE IGNITION
P/N ASM5022 and ASM5023**

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MANUAL P/N EI5022
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CHAPTER 1 INTRODUCTION

1.1 General Information

Your Thunder Heart Performance Crank Trigger Stand-Alone Ignition allows the use of a twin cam engine in a custom bike without the need for the factory harness or ignition. This kit includes an ignition module and pigtail to complete the installation.

1.2 Additional Components Recommended

For a complete installation, the following items are recommended:

DESCRIPTION	OEM P/N	QTY
Crank Position Sensor	32707-01	1
2-Pin Deutsch Connector Housing, Male	72112-94BK	1
Socket Lock	72152.94	1
Deutsch Connector Socket, Female	74191-98	2
Deutsch Terminal Crimp Tool	42879	1

WARNING! THIS IGNITION IS DESIGNED FOR USE WITH 3-OHM COILS ONLY!!! SUCH A COIL IS AVAILABLE FROM THUNDER HEART PERFORMANCE UNDER P/N RSE6052

CHAPTER 2 SYSTEM INSTALLATION

2.1 Coil/Module Mounting

Use the supplied mounting template as a guide to make your mount:

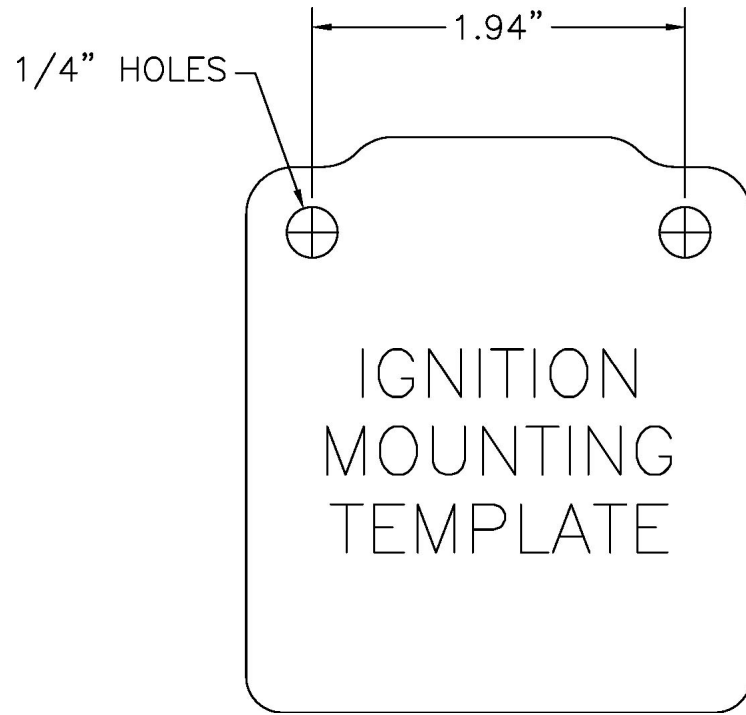
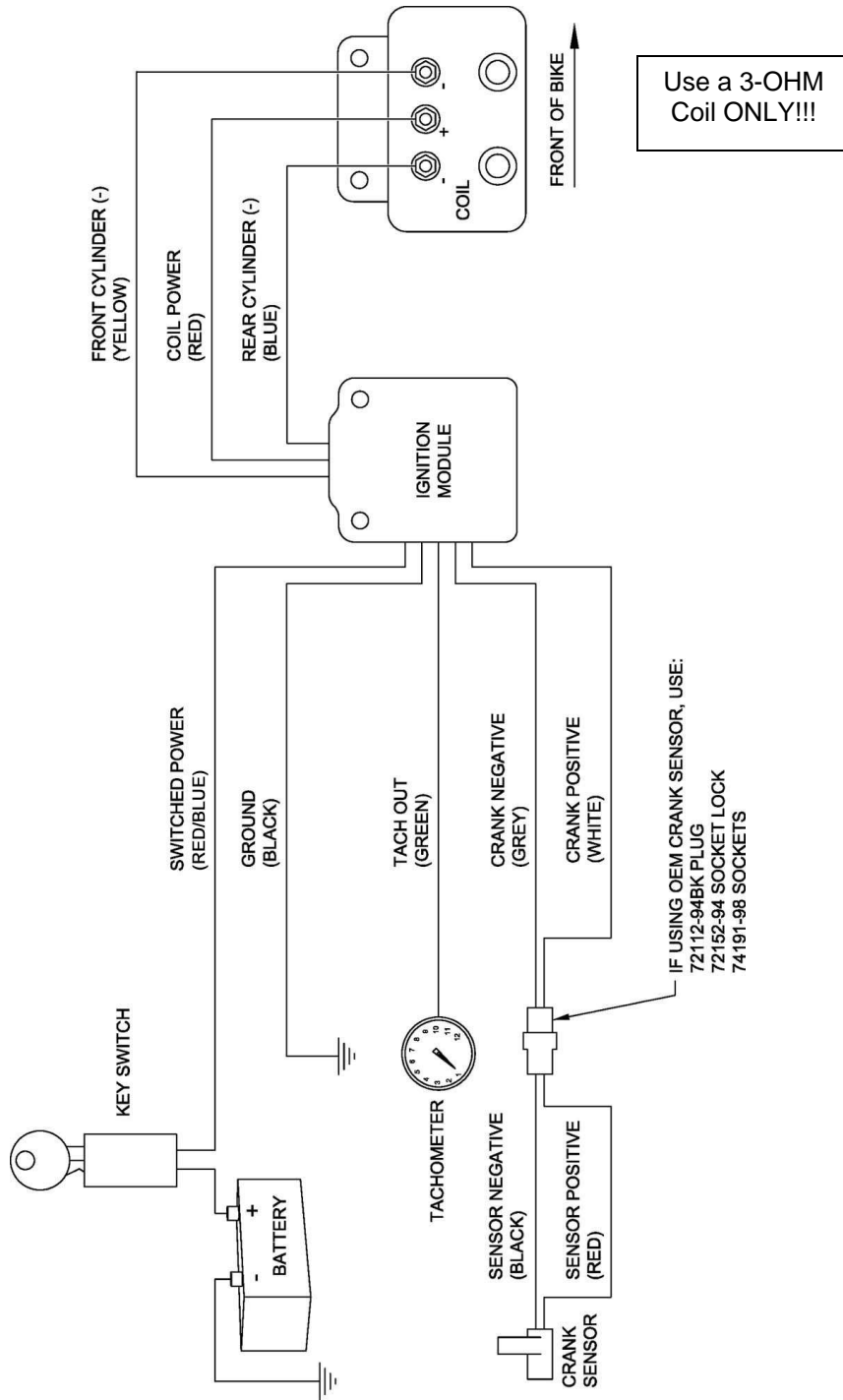


Figure 1—Module Mounting Template

2.2 Electrical Connections

Use the following wiring diagram to plan how you wish to wire the ignition on your bike:



SWITCHED POWER (RED/BLUE)	Connect to a switched 12v+ power source (such as the ignition switch)
GROUND (BLACK)	Connect to a good frame or engine ground. Terminate with the 1/4" ring lug and heat shrink.
TACH OUT (GREEN)	Connect to the signal wire of an aftermarket tachometer.
CRANK NEGATIVE (GREY)	Connect to the negative wire on the crank sensor (OEM black wire). Use appropriate OEM terminals and connector if desired.
CRANK POSITIVE (WHITE)	Connect to the positive wire on the crank sensor (OEM red wire). Use appropriate OEM terminals and connector if desired.
FRONT CYLINDER (-) (YELLOW)	Connect to the negative side of the coil that corresponds to the front cylinder. Terminate with a #10 ring lug and heat shrink.
COIL POWER (+) (RED)	Connect to the center terminal on the coil (+). Terminate with a #10 ring lug and heat shrink
REAR CYLINDER (-) (BLUE)	Connect to the negative side of the coil that corresponds to the rear cylinder. Terminate with a #10 ring lug and heat shrink.

WARRANTY

Thunder Heart Performance Corp. will repair or replace any parts that have manufacturing defects only under the following conditions:

- The customer must return the product to the original place of purchase.
- The product must be returned within one year of the original distribution sale date.
- All returns must be accompanied with a copy of the receipt.
- The product must be individually tagged with a completed description of the problem or defect.
- All returned items must be packaged and shipped in the same manner as Thunder Heart originally shipped them to the dealer.

Thunder Heart Performance Corp. reserves the right to repair or replace the product at Thunder Heart's discretion. We do not offer refunds or credit for the returned product. In addition, any product that is misused or otherwise damaged by the end customer will be billed for any repair or replacement costs associated with the damage.