



INTRODUCTION - Congratulations on your purchase of Takai's Juice Boost!

The Juice Boost is the complete solution for ignition performance needs and is a total balanced package that makes no sacrifices in material or product quality. Top notch construction ensures you won't have any broken components due to inferior material quality and no electrical issues due to improper installation.

Takai's Juice Boost allows for successful improvement in ignition performance and reduced interference noise caused with common ignition system design. The Juice Boost also reliably balances and improves ignition voltage all while enhancing the reliability of any electrically connected components on your vehicle by testing and adjusting to voltage changes commonly found in the electrical system.

The Juice Boost also allows for more seamless integration with competitor aftermarket components by filtering out EMI / RFI energy entering or exiting your ignition system meaning better, more accurate electronic performance of your ignition allowing for flawless operation, improved ECU performance and improved ECU / engine response.

### **INSTALLATION PLEASE READ**

This installation procedure will detail installation basics and tech tips on how to reliably improve your vehicles ignition system with Takai's Juice Boost. It is imperative to follow these steps or proper performance will not be realized.

Step 1 - Mount the Juice Boost to an ignition coil located closest to the battery terminals using the supplied tie wraps.

Step 2 - Connect the closest ignition wire, used to supply power to the ignition coil, to the Juice Boost.

Step 3 - Connect the Juice Boost Ignition Wire to the ignition coil it was removed from.

Step 4 - Please note that it is very important to **ground the 12 gauge and 20 gauge black ground wires to the negative battery terminal or use a solid chasis ground. Supplement** negative battery to engine head using supplied wire.

Step 5 - When using OEM ignition coils that are frame mounted, use the supplied PTFE hardware to isolate the ignition coil from the frame of the bike. **USE ONLY THE PTFE SUPPLIED NUTS AND BOLTS FOR THIS.**

### **Installation Notes**

- a) Prevent wrapping / twisting and sharp bends of the main ground wire. Do not place kinks or extremely tight bends on the wire.
- b) If possible trim excess wire to improve the response of the internal circuitry.
- c) It is recommended to connect the negative battery terminal directly to the engine head with the supplied 12awg wire and eyelets.

### **F.A.Q. - Why are non-suppressor spark plugs suggested for use?**

The Juice Boost can now electronically eliminate interferences which allow for the use of a non-suppressor style spark plugs not typically used in an OEM applications. Non-suppressor spark plugs have many benefits that can be utilized with the use of our ignition coils including higher horsepower and better engine response. Essentially the new technology eliminates the weak link in the ignition while still providing protection to the electrical devices in the vehicle. The only way to technologically accomplish this is to implement one of our patent pending electrical systems which allows for the use of non-suppressor spark plugs. Using a suppressor style spark plug only diminishes the gains that can otherwise be achieved with the Takai system.

### **F.A.Q. - What gap size should I use?**

Takai highly suggests to initially use a gap size that you know works. This is the first step in optimizing your ignition system. When things are operating properly it is suggested to open up gap in 0.002 increments until optimal gap size without blowout is reached then back off gap size by 0.004. It should also be noted that inoperable or poorly functioning charging systems greatly reduce the output and capability of the system.

### **Conditions of Product Use and Warranties**

TAKAI ENGINEERING guarantees certain products free from defects and workmanship for a period of 1 year (except special order items) from the date of purchase if installed by a qualified professional. Products that fail will be replaced at TAKAI ENGINEERING's option when product quality has been marked as the failing issue. This warranty does not include abuse, misuse, modification or improper installation of the product. Warranty is limited to the purchased product through TAKAI ENGINEERING and shall not be liable in part or whole for any special, incidental or consequential damages or costs that may occur with these products. The foregoing is exclusive and in lieu of any other warranties either expressed or implied and is valid only to the original purchaser. During a return product must be accompanied by an RMA number and must be received within 30 days of RMA issue. TAKAI ENGINEERING may at our discretion charge appropriate handling and re-stocking fees. Minimum \$20 handling fee subject to on returned product to be charged for processing, Maximum 25%. Items marked "For exchange only" or "Special order items" are not subject to cash refund and will only be granted credit towards other products. All spark plugs carry a 30day money back guarantee and may not be returned in used condition. TAKAI ENGINEERING reserves the right to use reconditioned materials for warranty items.