

# **MSD** **IGNITION** **INSTALLATION INSTRUCTIONS**

## **MSD Enhancer Ignition, PN 4255 FOR 1997 SEA-DOO® SPX, GTX Installation Harness, PN 42551**

### **Parts Included:**

3 - Female Bullet Connector	1 - Yellow Jumper
3 - Male Bullet Connector	1 - White Jumper
1 - Red Jumper	1 - Purple/Black Jumper
1 - Black Jumper	

This Installation manual outlines the wiring of the MSD PN 4255 Enhancer to a 1997 SEA-DOO watercraft. Timing controls and programming are explained in the PN 4255 Instruction Manual.

This installation eliminates the stock SEA-DOO ignition and MPEM module and requires cutting and splicing of the existing wires. The installation is recommended for experienced mechanics that are capable of performing these type of modifications.

**IMPORTANT:** After installing the MSD Enhancer Ignition, PN 4255, the stock start/stop switch will **no longer function as a stop switch**. To turn the engine off, the stock lanyard must be used as the ignition kill function.

### **INSTALLATION ON 1997 CRAFTS**

Refer to the PN 4255 Installation Instructions for removal of the stock ignition/MPEM module. The MSD Enhancer mounts in the same location with the supplied retaining bracket.

**Note:** The following wiring connections are for installation on a 1997 SEA-DOO SPX or GTX only.

#### **BK/YL wire from the magneto trigger pickup (-)**

Remove BK/YL wire from ground stud and cut off ring lug. Attach a female bullet connector to the BK/YL wire and connect it to the Enhancer's GREEN wire.

#### **YL/WH wire from the magneto trigger pickup (+)**

Cut the 6-Pin Sumitomo connector off the Enhancer Ignition. Crimp the supplied YELLOW jumper wire to the Enhancer's YELLOW wire. Connect the male bullet connector on the YELLOW wire to the female connector on the YL/WH wire from the magneto trigger pickup (+) wire.

#### **WH wire from coil (+)**

Crimp the supplied WHITE jumper wire to the Enhancer's ORANGE wire. Connect the female connector on the WHITE jumper wire to the male connector on the WH wire from coil (+).

**Lanyard Switch, Start Switch, Variable Trim System and Gauge hookup**

The stock lanyard will now be used as the **ignition kill function** and the start/stop switch will be connected so it will act as a **start switch only**. As an option, you can also replace the stock lanyard with an MSD aftermarket lanyard if desired.

**Note:** The stop function will now be operational through the lanyard **only**.

1. Using the supplied RED jumper, connect the RED jumper with the female bullet connectors into the BK/YL wire from the lanyard and the RED wire from the Enhancer.
2. Connect the remaining RED jumper wire with the male bullet connector into the RE/PU wire from the 15 amp fuse.
3. Remove the BK start switch wire from the ground stud. Cut the ring lug off of the BK wire and attach a male bullet connector to the wire. Connect the BK wire to the RED jumper wire with female bullet connector.
4. Cut the 3-Pin connector off the Enhancer Ignition and connect the WHITE and PURPLE wires from the Enhancer Ignition together using the supplied PURPLE and BLACK jumper. Connect the PURPLE jumper wire with female bullet connectors to the PU wire from the VTS/Fuel/Oil gauge and the PU/WH wire from the VTS module. Connect the BLACK jumper wire to the BK wire on the lanyard.
5. The start/stop switch will now be connected so that it will act as a start switch **only**. The stop function will now be operational through the lanyard **only**. Connect the YL/RE wire from the start switch into the YL/RE wire going to the solenoid.

**Enhancer BLACK wires**

Connect the two BLACK wires from the Enhancer Ignition together using the supplied BLACK Jumper. Connect the 1/4" ring lug on the end of the BLACK jumper to the ground stud located in the electrical box.

**Charging system hookup**

Connect the RE wire from the voltage regulator to the RED jumper on the Enhancer Ignition.

**Engine Thermo Sensor Switch (Optional)**

The engine Thermo Sensor Switch can be connected if protection from engine overheating is desired. When activated, the MSD Enhancer will cause the engine rpm to limit at the rpm point where the Holeshoot Rev Limit is set at. To install this function, connect the Enhancer's Light Blue wire in to the TAN wire from the Thermo Sensor Switch.

**Tachometer (GTX only)**

Connect the Gray wire from the Enhancer into the GY wire from the tachometer.

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