

PHANTOM TETH-AIRTM

Ski-Doo XM/XP (E-TEC) Phantom Teth-Air Install



1. Using 2 sided adhesive foam tape; stick the Upper Control Unit to the front of the throttle block as shown.



2. Use the medium plastic wire ties to secure through the end holes and around the handle bars. Avoid having any wires directly under the ties or they could break if the throttle block is rotated. **MAKE SURE THAT THE WIRE TIES DO NOT INTERFERE WITH THE THROTTLE MOVEMENT.**
3. Use the smaller wire ties to attach the grey control cable to the handle bar but leave some slack on the top end to allow for movement.



4. Remove the multifunction gauge. Inset a small screwdriver in the 2 slots at the top while pulling the gauge forward. Unplug the gauge and the counsel wiring harness.

5. Remove the hood to access the engine compartment. The air box and sensor will need to be disconnected. Also the ECM hose must be removed on the muffler side. Slide the hood forward to remove.



6. Mount the Lower Power Supply Unit beneath the aluminum over-structure with the 2 wire ties provided. Be sure to keep adequate clearance from the exhaust system or moving parts to prevent damage. If possible install in a position where the wires will reach the kill switch wiring and the power plug.. (muffler side). A 12" extension wire will be required for the Blue Tach wire.

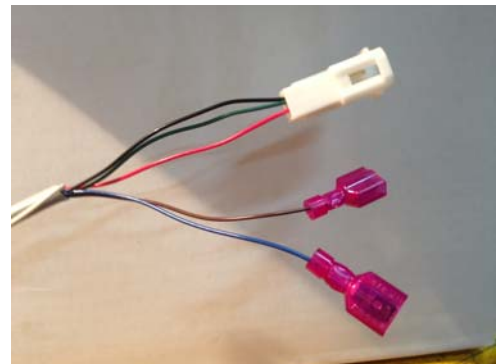


7. When securing the Lower Control Unit to the over structure, the lower cable should be bent back along the side of the housing and also secured under the wire ties.

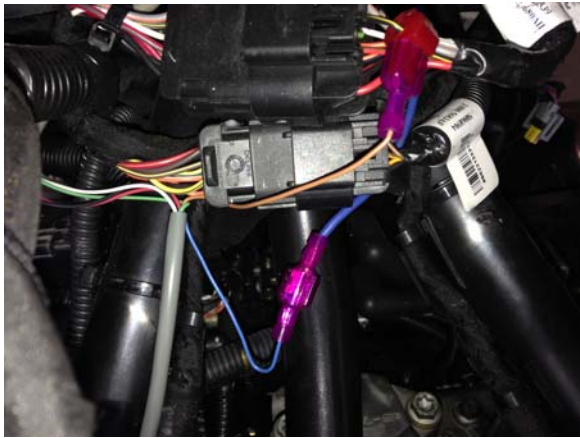
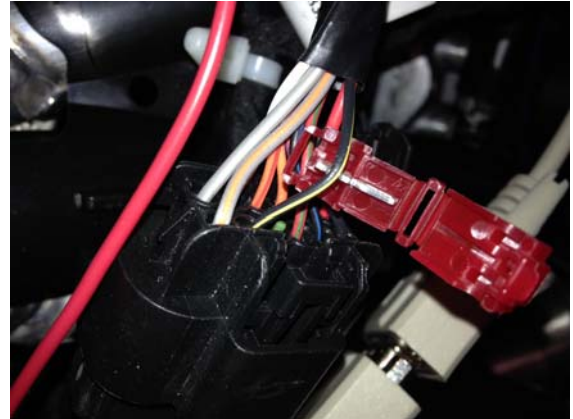


8. Locate the auxiliary power outlet. On the E-Tec it is located above the ECM. The Red/Yellow wire is Positive and the black wire is Ground (12 volts DC system). Using the connector housing and pins, (found in the optional E-Tec installation kit) crimp on the connector pins and install into the housing making sure polarity is observed. Connect the Red Wire from the Phantom to the Red/Yellow from the harness. Then connect the black from the Phantom to the black from the harness.

It is optional to also attach the Green wire from the Phantom to the black wire from the harness as it will also require to be connected to ground; this would require both the black wire and the green wire to be crimped into the same connector pin. Carefully soldering into the pins is also acceptable if the installer is confident with this procedure.



9. The Brown wire from the Phantom must now be connected to the Black/Yellow kill switch wire that is fed down from the steering post harness. Use the T-Tap connector (found in the optional E-Tec install kit) to make this connection. It is recommended that this connector be taped over to protect from moisture after the blade connector is inserted.



10. The Blue wire from the Phantom must now be connected to the upper ignition coil on the low voltage side. Use the optional Blue 12 inch Tach extension wire to connect to the center Orange/Blue wire, of the 3 coil wires. Use the T-Tap connector to make this connection. It is recommended that this connector be taped over to protect from moisture after the blade connector is inserted. Make sure the connector is firmly snapped back into the coil connector.



11. The Upper and Lower Control Units must now be firmly plugged together after running the upper cable down to the engine compartment along with the existing steering post cables. Make sure the shrink tubing provided is on the cable and pinch points in the steering are avoided.



12. The shrink tubing MUST be shrunk over the connectors to ensure a watertight connection. The tubing is glue lined to aid in sealing. This type of shrink tubing requires a relatively high heat source so a heat gun is recommended. Avoid melting or burning any plastics or wires.



13. Replace the hood and multifunction gauge; install the decal on a clean dry surface. Please read all the safety documentation and enjoy the Phantom Teth-Air.



Infrared Remote Control

Keep the Remote Control in a warm dry place. The shipping bag can be left in place to help protect it from moisture. The Remote Control will work through this protective bag.

See the Phantom Teth-Air Owners Manual for additional installation, safety, and operation information.

CAUTION

The Phantom Teth-Air is a safety tool to make your power sport more enjoyable and safer. Source Innovations Ltd. strongly recommends that you take ample time to familiarize yourself with the functions and features so that you can set up the product to best suite your riding style. Failure to do so may cause engine shut downs and Source Innovations Ltd. is not responsible for any damages caused by loss of control that could result. In addition improper setting could also cause the unit not to shut down the engine when it should.

PATENT PROTECTION

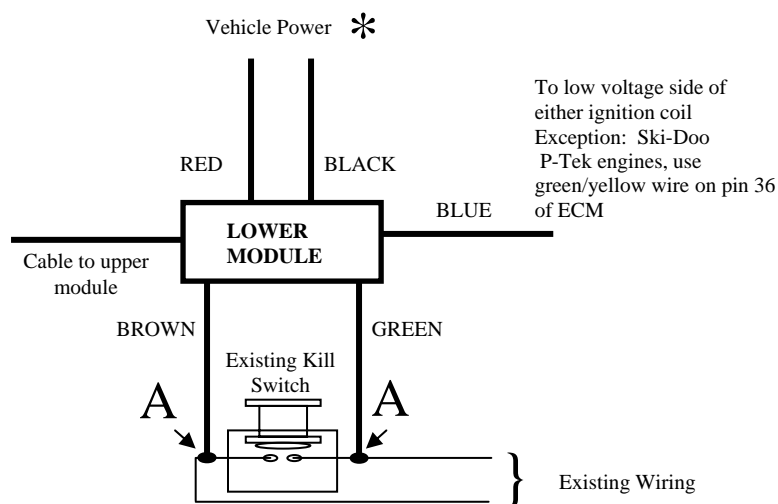
This device is protected under the following patent(s): **Patent License US 7,034,696 B**



WIRING DIAGRAM

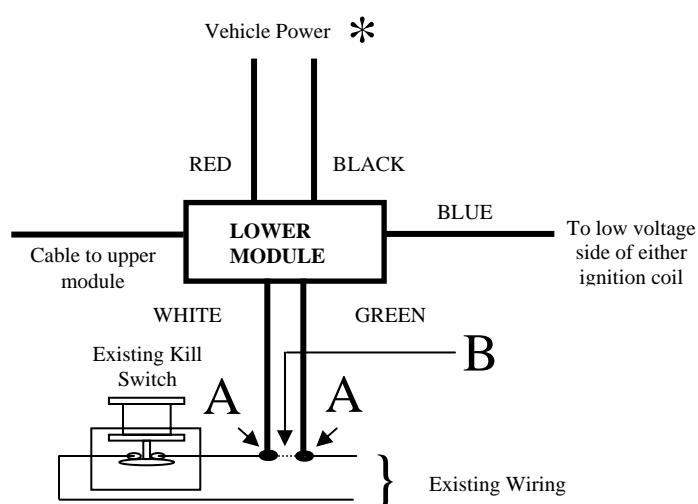
Normally Open Configuration

e.g. Ski-doo, Polaris 2 stroke Artic Cat



Normally Closed Configuration

e.g. 4 stroke Arctic Cat, Yamaha & Battery Ignition Systems



POWER (12V to 18V AC/DC)

RED
BLACK

RELAY

WHITE (normally closed)
GREEN (common)
BROWN (normally open)

TACHOMETER INPUT

BLUE

NOTES

A: INSTALLER CONNECTIONS

B: CUT EXISTING WIRE

*: THE POWER SUPPLY LOCATION MUST NOT SUPPLY POWER WHEN THE ENGINE IS OFF FOR VEHICLES WITHOUT IGNITION SWITCHES (**SEE INSTALLATION**). CONNECT **RED** TO POSITIVE AND **BLACK** TO NEGATIVE OF VEHICLES POWER OR VISA VERSA. YOU MAY ALSO CONNECT **RED** AND **BLACK** ACROSS THE VEHICLES AC POWER. DO NOT CONNECT **RED** AND **BLACK** TOGETHER.