INSTRUCTION SHEET

QUICKCAR IGNITION WIRING HARNESS INSTRUCTIONS

QuickCar is not responsible for wiring/parts/vehicle failures as a result of incorrect polarity (short circuits). It is up to the installer to correctly verify wiring from the harness to the ignition parts being used.

Installation

It is important to disconnect the car's battery before installing the ignition harness. Verify that the harness measurements will correctly fit the car it is being installed in. Be sure to add grommets to any wires passing through sheet metal to prevent damages because of chaffing/damage. This could result in costly failures and lead to fire. Also note to securely mount the wiring to the chassis frame or sheet metal. This can be done simply with cable ties or Adele Clamps. Upon laying out all wires and safely securing them, be sure to check/double check each electrical connection before turning any power source on.

Ignition Box

This harness comes with a 6-pin connector for each ignition box used. The wires should go to the following corresponding wire in the ignition box:

- **Red/Black:** Power for the ignition box from the ignition switch.
- ***Brown:** Tach signal, may be Green in harnesses designed for Crane/FAST/Daytona Sensors ignition boxes
- **Black:** Negative (-) side of coil.
- **Orange:** Positive (+) side of coil.
- **Green:** Negative (-) for the distributor, many MSD distributors have this wire going to a black/violet wire.
- **Purple:** Positive (+) for the distributor, many MSD distributors have this wire going to a black/orange wire.

Tachometer

This lead is either set up for analog or digital tachometers. Digital tach wiring has a single brown wire with a spade connector labeled "TACH". The opposite side of this connector is installed on the harness so the signal wire from the tach may simply crimp into place. Analog tachometers use a 3-pin weatherpack connector.

- **Red:** Positive (+) power for the tach, usually powers tach and lights.
- **Black:** Negative (-) current for tach, will have pre-installed ring terminal to ground to chassis.
- **Brown (sometimes Green):** Signal wire, secure to signal wire from tach.

Coil

The coil will have a black (negative -) wire and an orange (Positive +) wire. A pigtail is generally supplied for cars using MSD ignition systems. These wires will be labeled as "Coil".

Distributor

A 2-pin weatherpack connector is used for distributor wires. On MSD distributors make sure the 2 purple wires DO NOT contact resulting in engine timing being out 180 degrees. Some harnesses have a 1 pin red wire or a 3 pin Deutsch connector with a red wire. That wire is used for distributor power in Crane/FAST distributors.

Switch Panel

QuickCar ignition harnesses are designed to be a plug-n-play match to QuickCar switch panels. Note that different harnesses require different switch panels like dual ignition, single ignition, dual trigger, etc. Typical wires going to the switch panel will be:

- **Yellow:** Outgoing power from starter button/momentary switch
- **Red/Black:** Outgoing from ignition switch. This wire feeds the power for the ignition box.
- **Red (thicker wire):** Incoming side of all switches. This delivers power to the control panel.
- **Red/White:** Outgoing from the cross over switch for a 2nd ignition box when applicable.
- **White:** Power source for a 3-wheel brake solenoid.
- **Red:** Outgoing from ignition switch, this is typically used to power a tachometer or distributor.

Solenoid

Solenoid lead will have a yellow and thicker red wire. The red attached to the battery side of the starter solenoid and yellow to the small post. Note that QuickCar harnesses except for the 50-2053 spec late model harness are for use with ford style solenoids. QuickCar offers part number 50-430 as a solenoid.

Dual Ignition

Dual ignition box harnesses such as 50-2021 are designed for 2 ignition boxes. Each box will have either a black or white band around each wire that is used in the firing process. Make sure the black wires go to the correct corresponding coil/distributor as well as the white to its corresponding components. Dual ignition harnesses utilize a DeadLeg in the tach signal wire. This is to be grounded and helps stabilize the signal from the boxes to the tachometer. Plug-n-play switch panels to Dual ignition harnesses are:

- 50-1711 – 5 switches with checkered flag plate
- 50-1713 – 5 switches with checkered plate and 3-wheel brake lead
- 50-711 – 3 switches panel with black plate
- 50-7411 – 4 switches panel with black plate
- 50-7611 – 6 switches and black plate
- 50-7711 – 5 switches with black plate
- 50-7713 – 5 switches with black plate and 3-wheel brake lead

Dual Trigger

Dual trigger ignition harnesses like the 50-2034 are designed for 1 ignition box and a cross over to be able to use both a distributor and crank trigger. Distributor lead is typically marked with black indicator bands and labeled Dist. Crank trigger is typically marked with white bands and marked accordingly. Switch panels that are plug-n-play with these are:

- 50-714 – 3 switches and black plate
- 50-1714 – 5 switches and checkered flag plate
- 50-7414 – 4 switches and black plate
- 50-7614 – 6 switches and black plate
- 50-7714 – 5 switches and black plate

Single Ignition

Single ignition harnesses like the 50-2031, 50-2033, and 50-2035 (MSD) along with 50-2051 and 50-2053 (Crane/FAST/Daytona Sensors) all offer simple connections with a single ignition box, coil, and distributor. Switch panels that are plug-n-play to QuickCar single ignition harnesses are:

- 50-731- 3 switches and black plate
- 50-031 – 2 switches/1 button and checkered flag plate
- 50-033 – 2 switches/1 button, checkered flag plate, and 3-wheel brake lead
- 50-833– 2 switches/1 button, black flag plate, and 3-wheel brake lead
- 50-1731 – 5 switches and checkered plate
- 50-7431 – 4 switches and black plate
- 50-7531 – 2 switches and black plate
- 50-7631 – 6 switches and black plate
- 50-7731 – 5 switches and black plate
- 50-7739 – 5 switches and no plate

Misc.

QuickCar ignition wiring harnesses are designed for racing cars using MSD, Crane/FAST, or Daytona Sensors ignition boxes. Custom length harnesses can be made upon request. Each harness comes with a “goodie-bag” that includes pins/seals for connectors included to use on the car’s ignition components. Crimping tools (Pt.# 50-395) are offered at additional costs along with pin extraction tools like Pt.# 50-399.

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