



PRO RACING DESIGN CO., LTD

Fitting Instructions: PRD Easy Start Ignition System

Important: For correct fitting of Ignition please read the following instructions.



CLUTCH COVER



IGNITION
PLATE &
CRANK
SENSOR



IGNITION
ROTOR /
FLYWHEEL



EARTH
CABLE



COIL & HIGH
TENSION LEAD
WITH PLUG
CAP



SOLID
STATE
RELAY



STARTER
BUTTON



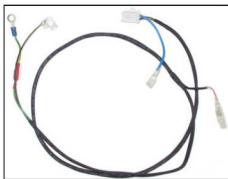
ON BUTTON
WITH LIGHT



CDI
MODULE



WIRE LOOM PART 1
Connects: Switches, Battery +, Relay



WIRE LOOM PART 2
Connects: Coil, CDI, Crank Sensor



Wire Loom Part 3
Connects: Battery -,
Relay, Starter Motor



WIRE LOOM
PART 4
STARTER
MOTOR TO
LOOM



1/ Remove previous
Ignition if required.



2/ Fit Ignition Plate &
Crank Sensor.



3/ Fit Keyway to
Crankshaft.



4/ Fit Ignition Rotor.
Important: Ensure Keyway is aligned
correctly.



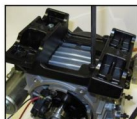
5/ Fit & Tighten Rotor
Washer + Nut.



6/ Fit Ignition Coil, Earth
Cable, Short 'Yellow/
Green Earth Wire' to
Clutch Cover using to
rubber mounts provided.



7/ Fit Clutch Cover to Engine using the following
three steps.
i: Loosely Fit the top two bolts.
ii: Fit the lower Clutch Cover Bolt, Earth Cable & Washer.
To ensure a good earth the washer must be between the
earth cable and clutch cover.
iii: Tighten the three Clutch Cover Bolts.



8/ Fit Engine Mount to
Engine.



9/ Fit Engine to
Kart



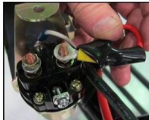
10/ Place Button Head Screws in the battery Bracket from the inside out. Fit two washers on the outside.



11/ Fit Solid State Relay to the battery bracket. Fit 6mm nuts & tighten accordingly.



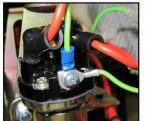
12/ From 'Wire Loom Part 1' Fit the 'White Wire with eyelet' to the back of the Relay and tighten with a philips head screw driver.



13/ From 'Wire Loom Part 1' fit the 'Red Wire with Eyelet & Black Cover' to the top right 8mm terminal of the relay and tighten. Push Black cover over terminal after tightening.



14/ From 'Wire Loom Part 3' fit the 'Red Wire with Eyelet & Black Cover' to the top left 8mm terminal of the relay and tighten. Push Black cover over terminal after tightening.



15/ From Wire Loom Part 1 & Part 3 fit the two eyelets of the 'Green Wires with Yellow Stripe' to the front of the relay.



16/ Fit Battery & Battery Bracket Top Plate to Battery Bracket. Tighten the two 6mm bolts until firm.



17/ Fit CDI Module to the side of the battery using the Velcro provided. Alternatively you can rubber mount the CDI to the seat using the bolt holes provided



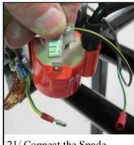
18/ Connect CDI Module White Plug to the White Plug on 'Wire Loom Part 2'



19/ Connect Blue Spade Terminal on 'Wire Loom Part 2' to the Single Blue Spade Socket on 'Wire Loom Part 1' Ensure Plastic Covers seal the connection.



20/ From 'Wire Loom Part 2' Connect White Wire with Red Stripe Bullet Socket to Crank Sensor Bullet Connection.



21/ Connect the Spade Socket Black Wire with Yellow Stripe from Wire Loom Part 2 to Coil.



22/ Connect the Bullet Socket Green Wire with Yellow Stripe to from 'Wire Loom Part 2 to Coil Earth Wire.



23/ Connect 4 Pin White Plug on 'Wire Loom Part 3' to 4 Pin White Plug on 'Wire Loom Part 4'



24/ Connect 'On Button 3 Pin Plug' to 3 Pin Plug on 'Wire Loom Part 1'



25/ Connect Double Blue Wire Spade Socket & White Spade Socket from 'Wire Loom Part 1' to Starter Button.



26/ Connect two 'Red Wire Eyelets' (closest to fuse on Wire Loom Part 1) to Positive (+) Battery Terminal.



27/ Connect 'Black Wire Eyelet' from 'Wire Loom Part 3' to Negative (-) Battery Terminal.

When assembling your new easy start ignition make sure the wire colours match up. Under no condition cut and lengthen or shorten any wires as this might affect the working of the ignition. We recommend you fit the battery carrier in the position in the diagram. (Left chassis rail next to seat).