

# **UNIVERSAL STARTER BOX**

Suitable for use with most 1/8th to 1/10th glow-engine radio control cars

Includes starter box and general accessory pack for assembly



## **FINAL ASSEMBLY INSTRUCTIONS**

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### **SPECIFICATIONS**

Length .....	350mm
Width.....	122mm
Weight.....	2230g without batteries
Motors included .....	x2 550 size 7.2-12V
Power source (not supplied).....	x2 7.2V Tamiya-style nicad/nimh packs or 12V DC battery
or alternative power source (not supplied)	12V 7Ah gel cell lead acid battery

**OTHER ITEMS ARE REQUIRED IN ORDER TO MAKE THIS PRODUCT OPERATIONAL!**

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### **INTRODUCTION**

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The Q-World Universal Starter Box is designed to be used with 1/10th and 1/8th scale radio controlled glow-plug engined cars as a starting aid.

In use, an R/C car is placed on top of the box with the car flywheel butting up against the starter box starting pulley.

Downward pressure on the car activates the starter motor switch thus enabling a swift, convenient start.

It requires a DC power source (not supplied).

No soldering is required.

This item requires assembly of electrical connectors and final assembly!

N.B. Your model supplier will be pleased to advise you if any aspect of the assembly or operation of this unit is unclear to you.

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### **WARNING!**

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*This item contains high speed rotating parts!*

*1/8th and 1/10th glowplug-powered radio controlled model cars are not toys and can cause damage if used improperly!*

*Do not use this item near children or near animals!*

*Read this manual before assembly!*

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### **WARRANTY**

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J. Perkins Distribution Ltd. guarantee this product to be free of manufacturing or assembly defects for a period of one year from time of purchase. This does not affect your statutory rights. This warranty is not valid for any damage or subsequent damage arising as a result of a misuse, modification or for damage or consequential damage arising as a result of failure to observe the procedures outlined in this manual. Operation of this product is carried out entirely at the risk of the operator. Every effort is made to ensure the accuracy of instructions and material included with this product,

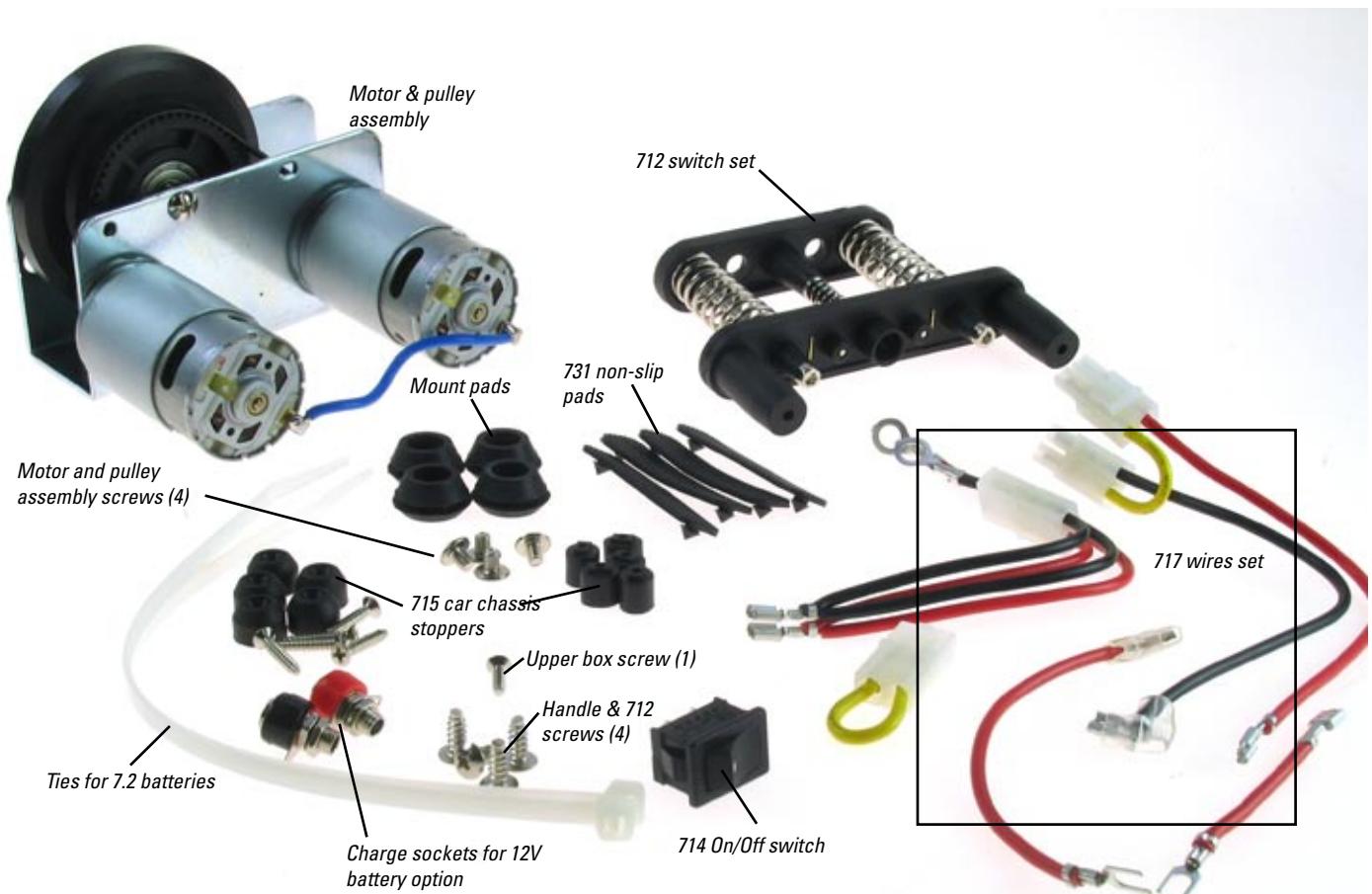
We reserve the right to modify the design of this product, contents and manuals without prior notification. E&OE.

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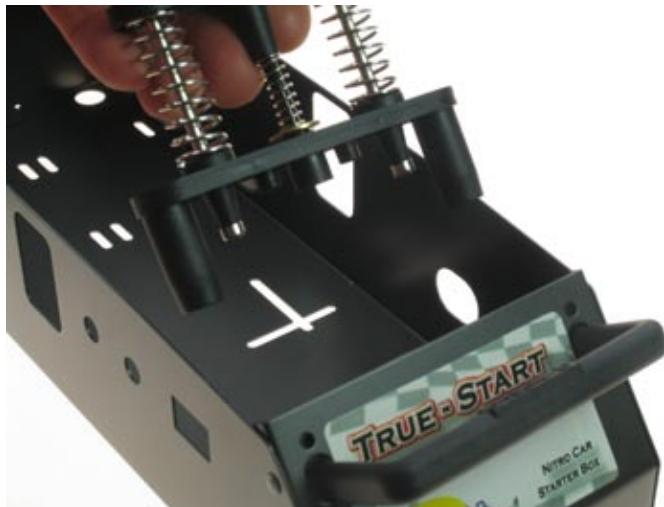
## **ELECTRICAL & OTHER ITEMS IDENTIFICATION**

Identify the electrical and other components before assembly:



## **MAIN SWITCH ASSEMBLY**

Identify the 712 switch set and place into position as indicated:



Assemble into the base of the chassis using 2 screws:



## **INSTALLATION OF MOTOR AND PULLEY ASSEMBLY**

Lower the motor and pulley assembly unit into the bottom of the chassis:



Retain the unit using 4 crosshead screws:



## **MOUNT PAD ASSEMBLY**

Identify the 4 chassis mount pads:

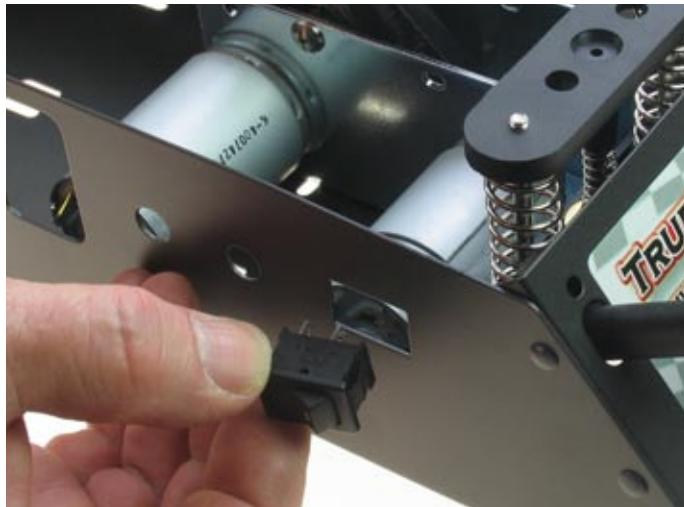


Install the mount pads into the base of the chassis like this:



## **ON/OFF SWITCH ASSEMBLY**

Snap the On/off switch into place:



Identify the red wire terminated with a spade connector.

Slide the spade connector into position on the on/off switch as indicated:

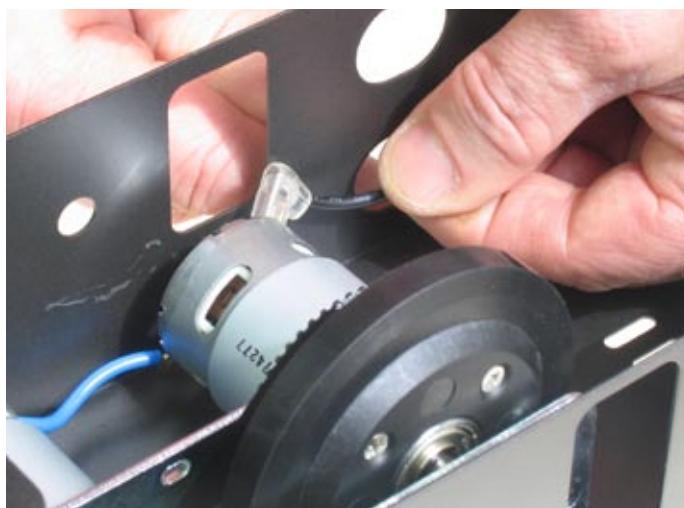


## **MOTOR WIRE FITTING**

Identify the black wire terminated in a clear plastic shrouded spade connector.

Slide into position over the motor terminal as indicated:

N.B. Careful bending of the motor terminal may be required in order to clear the chassis.

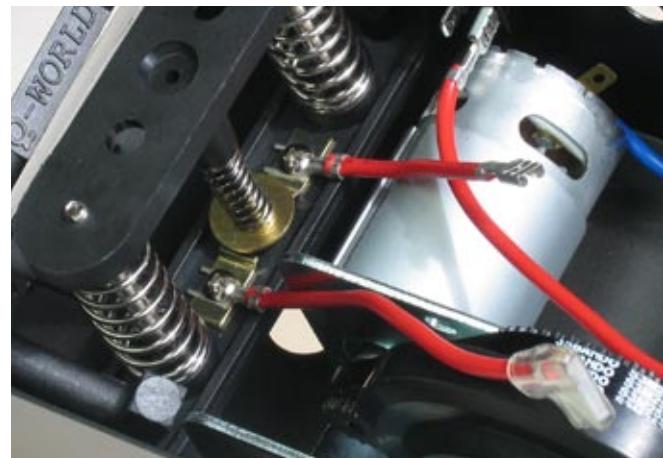


## **712 SWITCH WIRE FITTING**

Identify the 2 red switch wires.

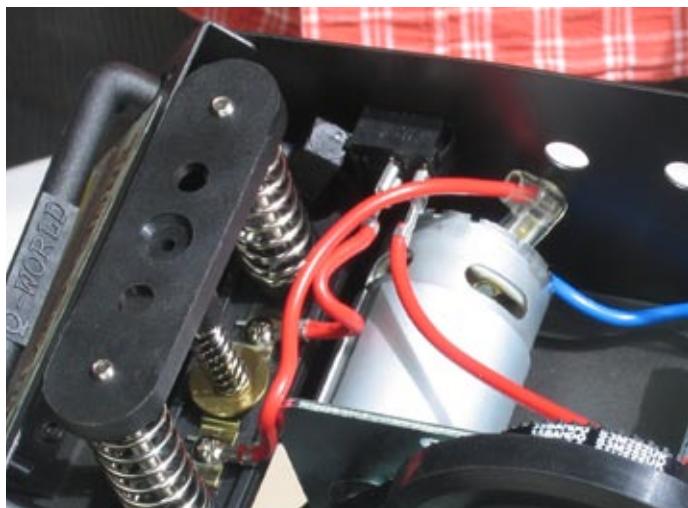
Each wire is terminated with a spade connector and a 'U'-type connector.

Screw the 'U' connector ends of the wires first to the 712 switch unit:

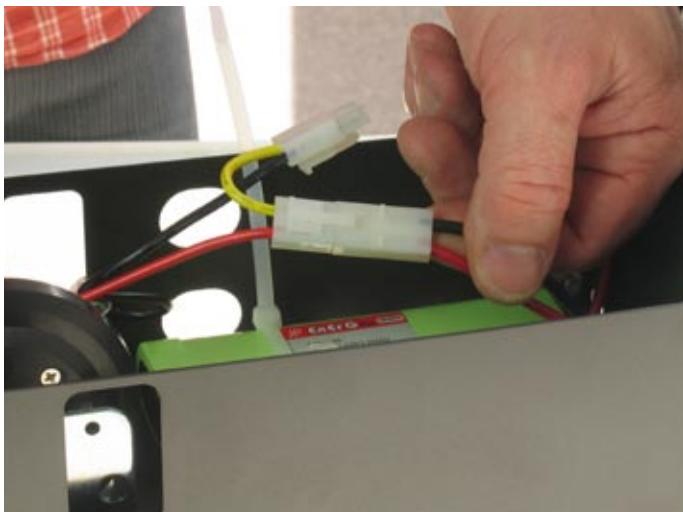


Next, connect the shorter of the 2 wires to the on/off switch and the longer to the motor terminal as indicated:

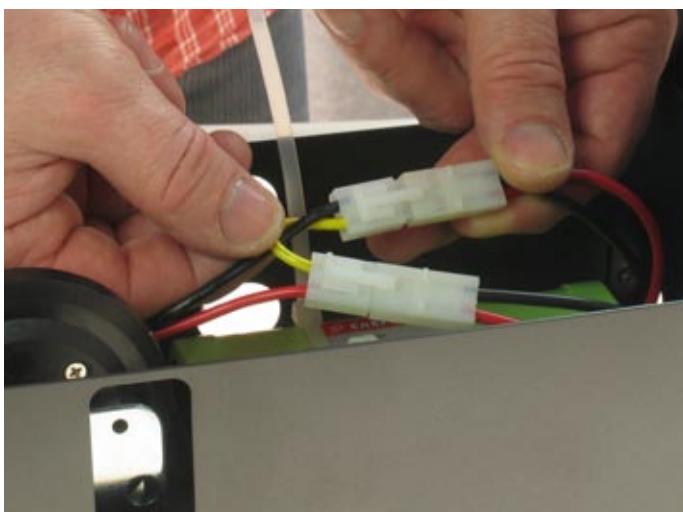
N.B. Careful bending of the motor terminal may be required in order to clear the chassis



Connect the first battery pack as shown:



Connect the second battery pack as shown:



### **INSTALLING 7.2V BATTERIES**

If you decide to use 7.2V 'stick'-type batteries, 2 batteries will be required; install the first one into the base of the chassis using a cable tie as indicated:



Install the second battery as indicated:



### **INSTALLING THE 731 NON-SLIP PADS**

Press the 4 non-slip pads into position on the upper surface of the chassis:



## **INSTALLING THE 715 CHASSIS STOPPERS**

The 5 chassis stoppers are screwed into position in the upper surface of the box and are designed to lock your car chassis into position for starting. Note they are 2-part plastic mouldings retained to both upper surface and inner surface by a crosshead screw.



See below for details of fitting the stoppers:



The box should now look like this:



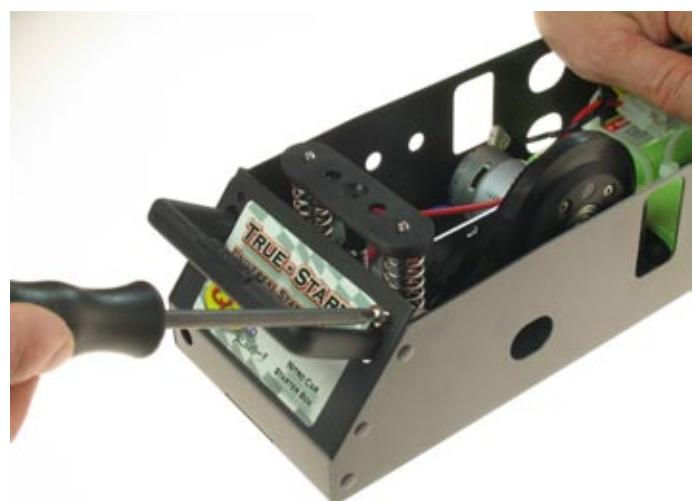
## **UPPER BOX SCREW INSTALLATION**

Retain the box lid with the single crosshead screw supplied:



## **CARRY HANDLE RETAINING SCREWS**

If you prefer to have the carry handle always in the carry position, 2 screws are supplied for the purpose. Fit as below:



## **12V LEAD ACID BATTERY OPTIONS**

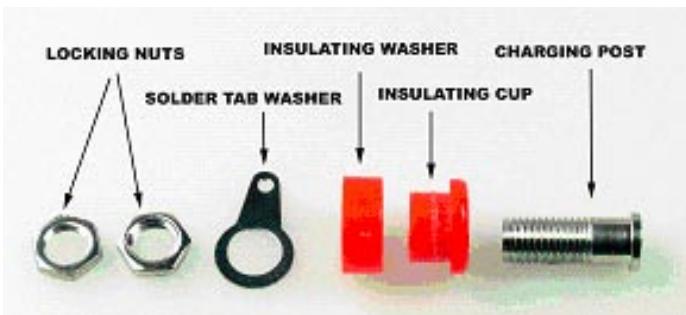
If you are planning to use a 12V lead acid gel cell modelling battery as your power source you can fit a pair of convenient charge sockets to the side of the starter box.

Charging posts and a 12V electrical connector loom for this option are included.

### **UNDERSTANDING THE 12V CHARGING POSTS**

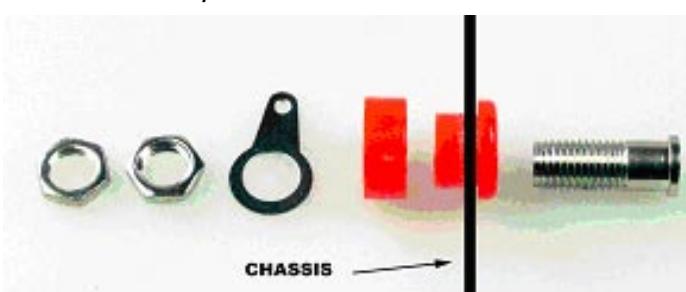
The metal insulated charging posts are designed to be used safely with the metal chassis of this starter box.

Disassemble them as below and identify the insulating cup and washer before fitting to the chassis:



To function safely, the plastic insulating cup and washer sit either side of the charge post in the chassis thereby acting as a spacer/insulator for the charging post.

See how they fit below:



**WARNING:** Incorrect fitting of the charge posts may cause a short circuit and/or fire!

Double check for correct installation after installing!

## **FITTING THE CHARGING POSTS**

Install the negative (black) charge post and insulating cup:



Install the insulating washer and nut:



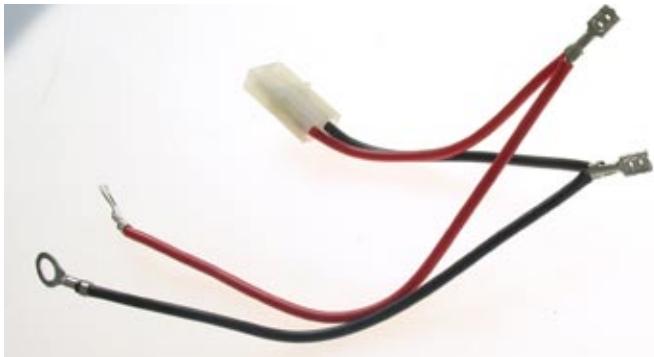
Repeat the preceding steps for the remaining positive (red) charge post.

Correctly installed, the posts will look like this on the box exterior surface:



## FITTING THE LOOM TO THE CHARGE POSTS

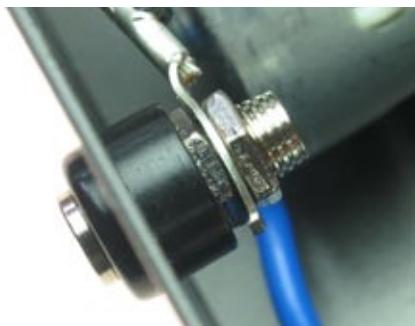
Identify the 12V wiring loom:



Using a steel locking nut attach the negative (black) terminal of the wiring loom to the black charge post:



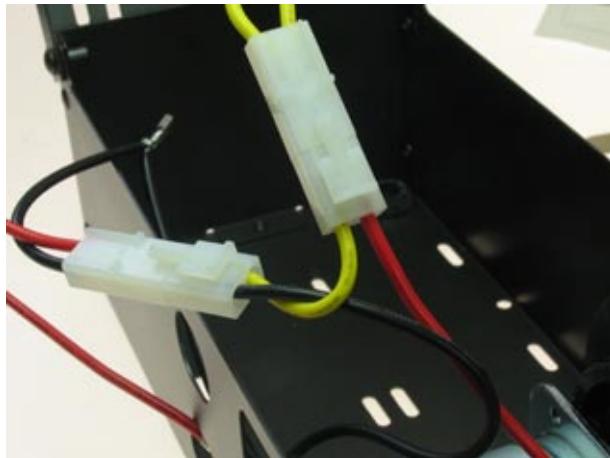
and tighten securely as below:



Repeat the previous steps for the positive (red) side of the wiring loom.

## FINAL LOOM CONNECTIONS

Connect up the tamiya-style connector and tamiya-style blanking plug as below:



Connect your 12V 7Ah sealed gel cell modelling battery (not supplied) to the spade connectors on the 12V wiring loom.

We recommend you use insulating foam rubber (not supplied) to fit your 12V battery of choice inside the starter box.

### WARNING

*If your battery does not include insulating terminals; you must INSULATE the metal chassis from the terminals!*

Your Q-World Universal Starter Box is ready for use.