

FITTING OF ACOMS ELECTRONIC SPEED CONTROLLER TYPE AP35

This unit has been designed for use with proportional equipment having positive output pulses from the receiver decoder. The unit will give proportional control of the drive motor in forward and reverse direction, with far greater control of the model than the less efficient mechanical/resistor type of speed controller. For this reason battery life should be extended.

D.C. input — 6 volts maximum (from receiver battery)

Signal input — 1-2ms positive pulse

Maximum continuous output current — 6 amps

Fully proportional in both forward and reverse

Electrical breaking in stop position

Total weight — 70 grams

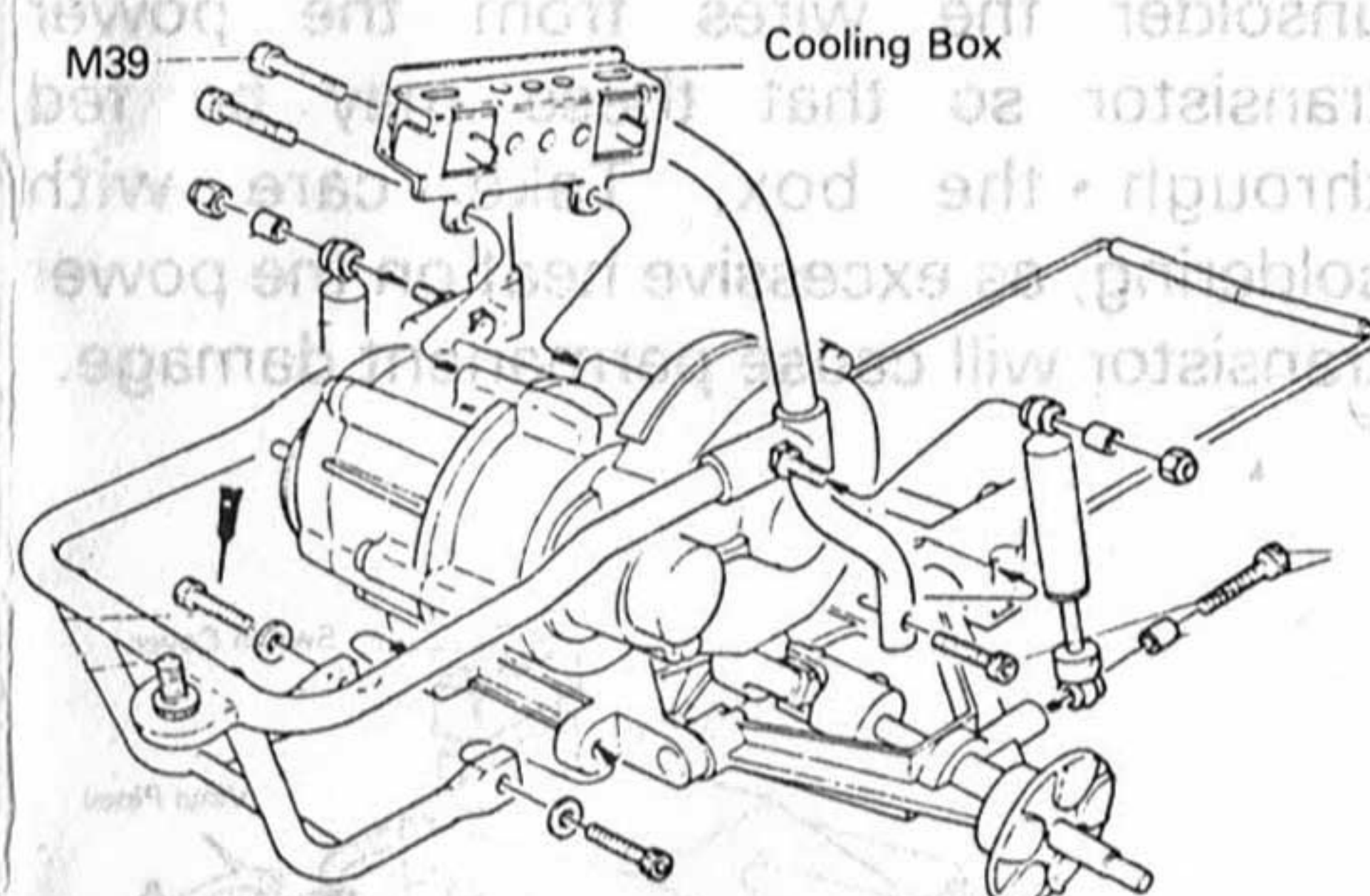
Size — 66 x 43 x 20 mm

Maximum instantaneous peak current — 30A

FITTING OF SPEED CONTROLLER TO TAMIYA RACING BUGGIES

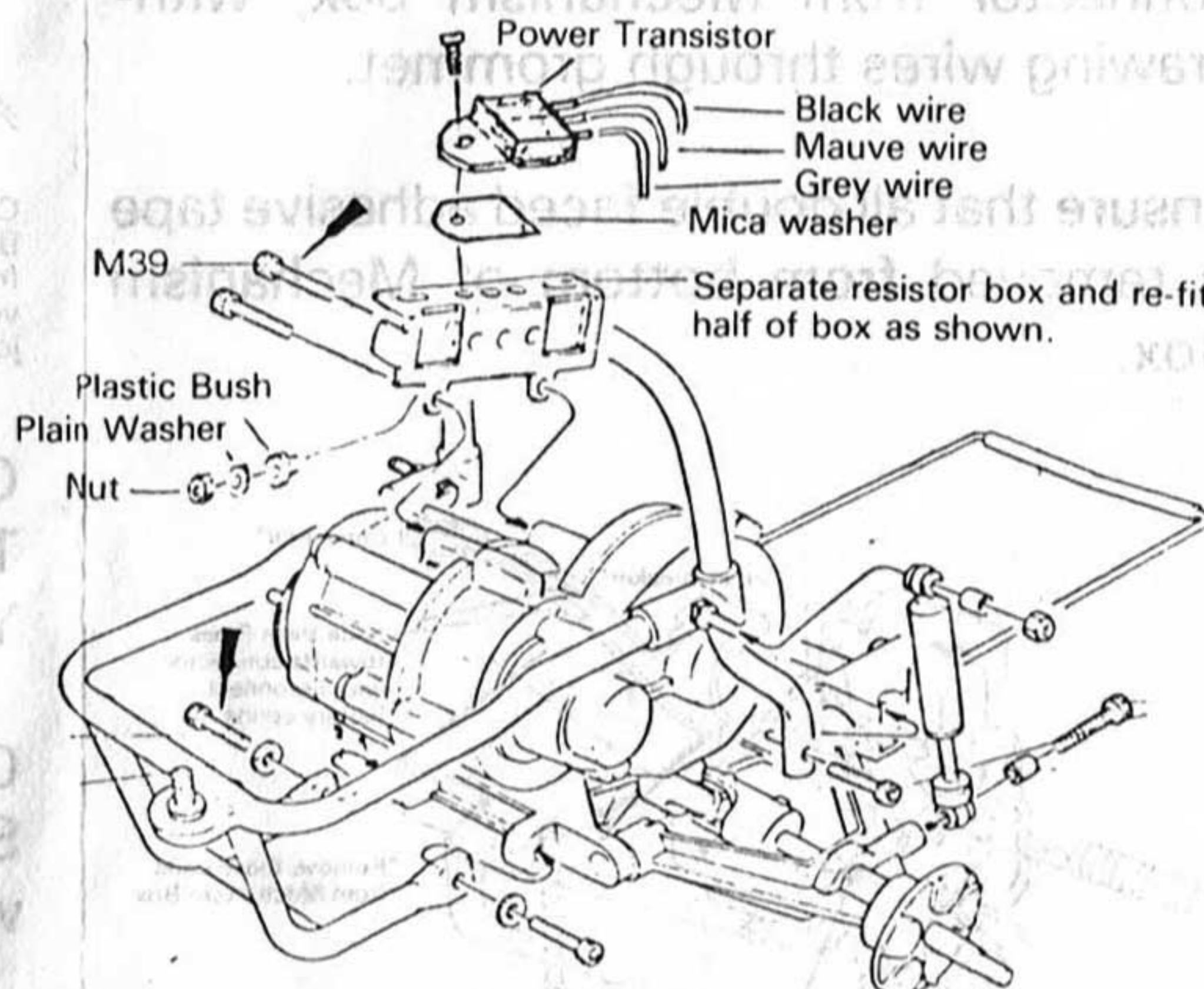
Unplug and remove motor battery.

Remove receiver batteries.

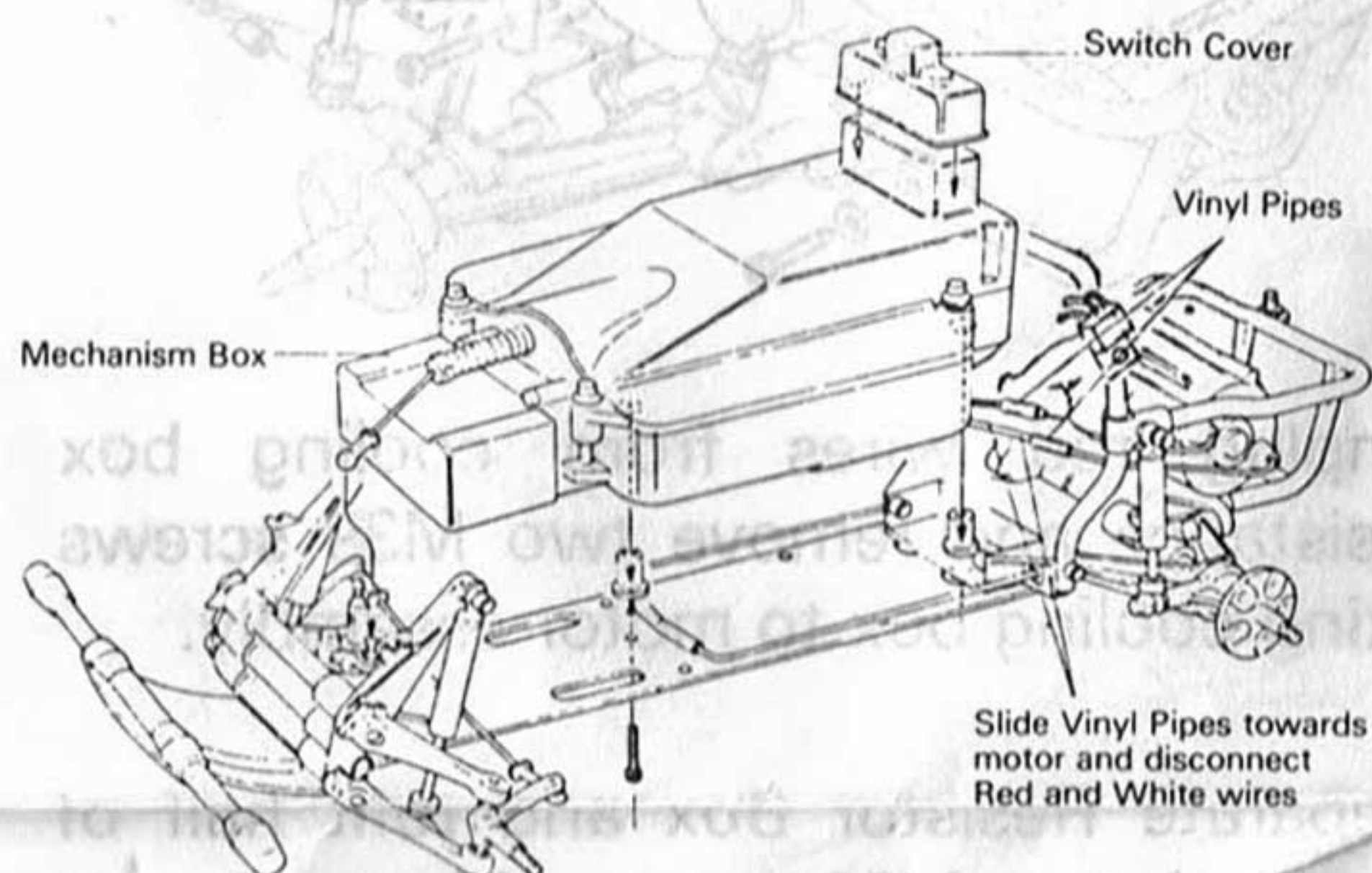


Unplug red wires from cooling box resistance and remove two M39 screws fixing cooling box to motor assembly.

Separate Resistor Box and refit half of box with two M39 screws. Mount Power Transistor as shown ensuring mica washer and plastic bush are fitted as shown.

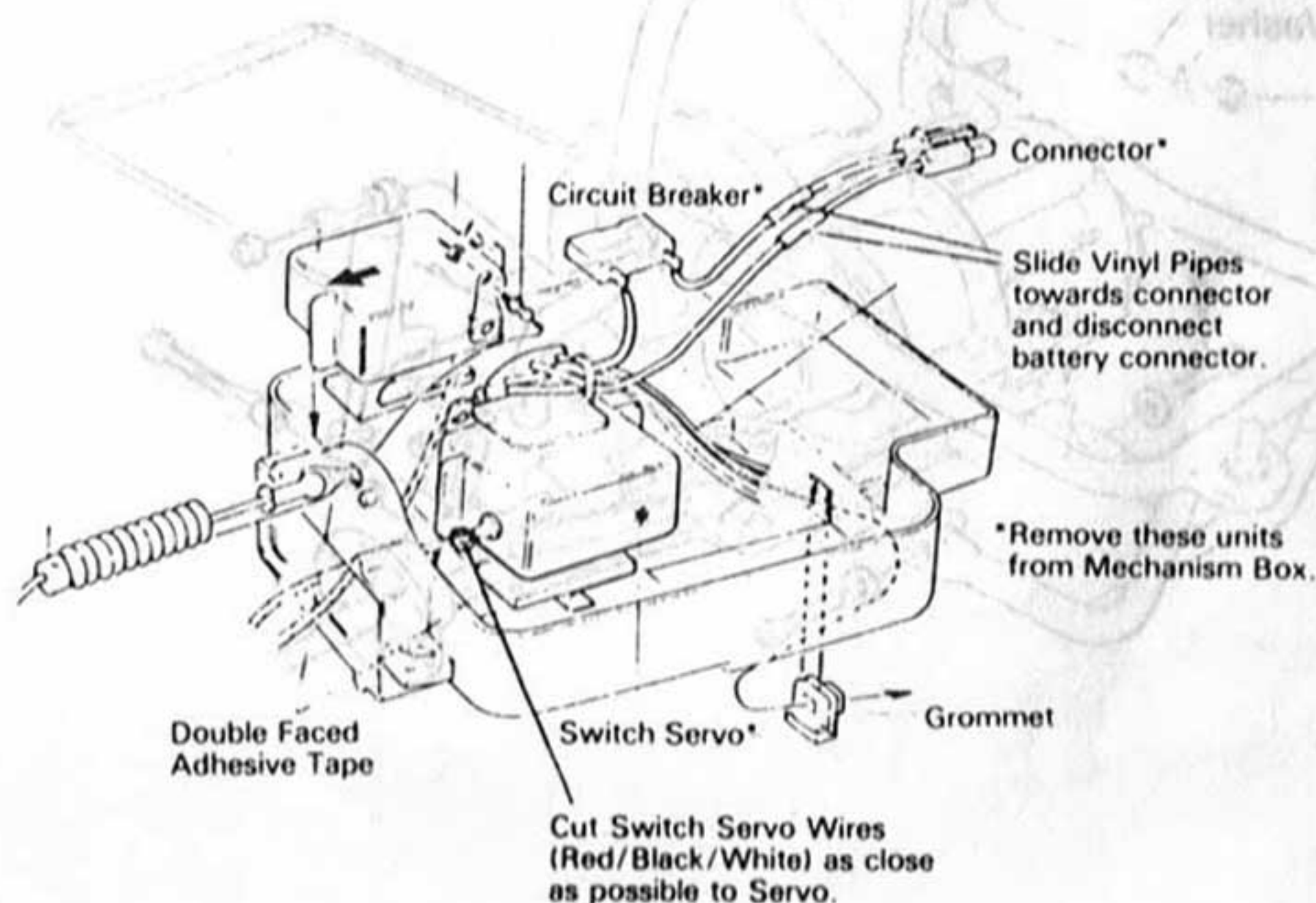


When fitting to a vehicle such as the TAMIYA RACING BUGGIES and the RANGER PICK-UP or other vehicles with a waterproof box, it may be necessary to unsolder the wires from the power transistor so that these may be fed through the box. Take care with soldering, as excessive heat on the power transistor will cause permanent damage.



Remove switch servo, circuit breaker and connector from Mechanism box, withdrawing wires through grommet.

Ensure that all double faced adhesive tape is removed from bottom of Mechanism Box.



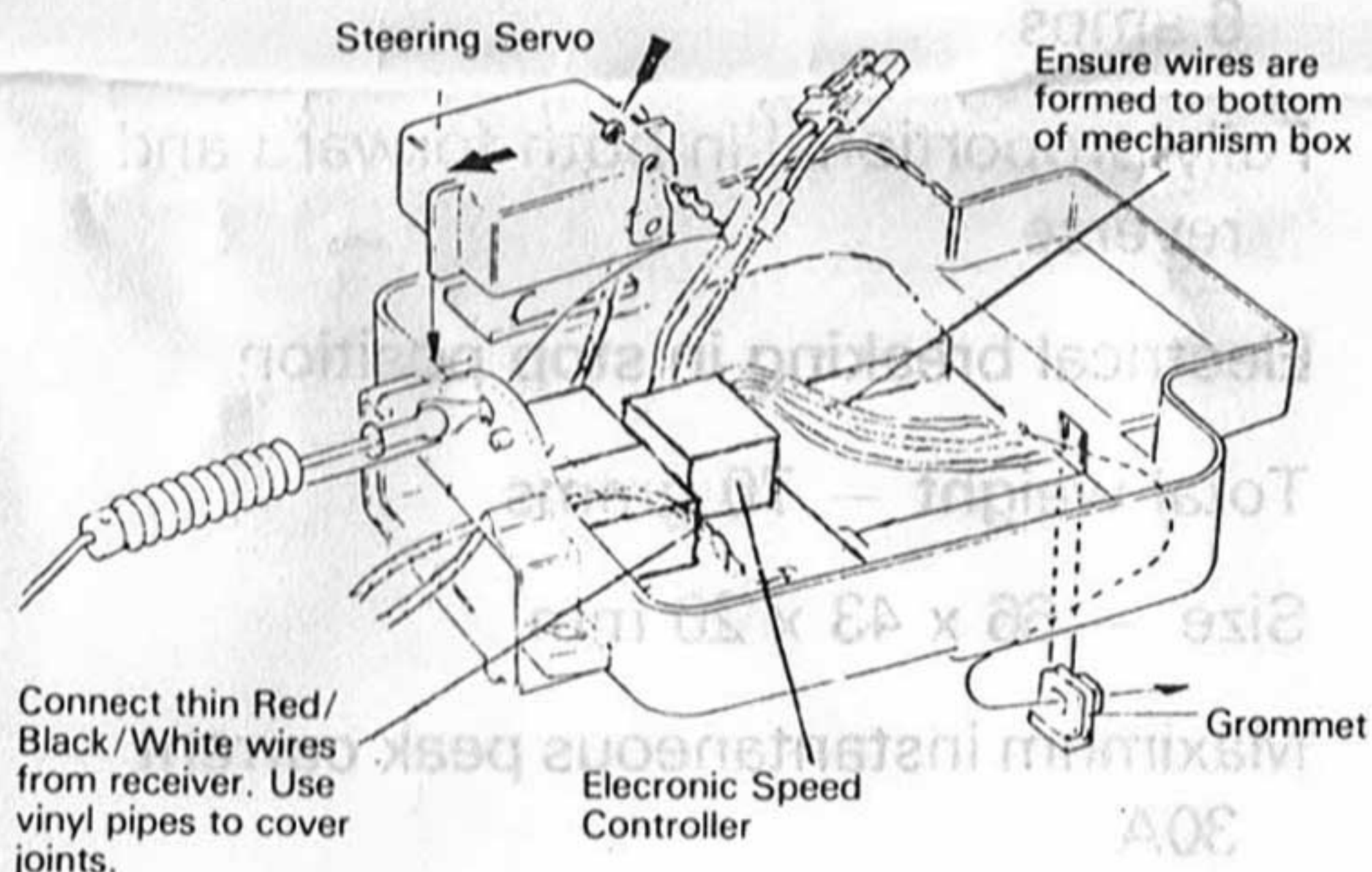
Fit Electronic Speed Controller in the same position as Switch Servo in Mechanism Box.

Secure with Double Faced Adhesive Tape.

Pass YELLOW-GREEN motor wires through grommet.

Pass GREY-MAUVE-BLACK Power Transistor Wires through grommet.

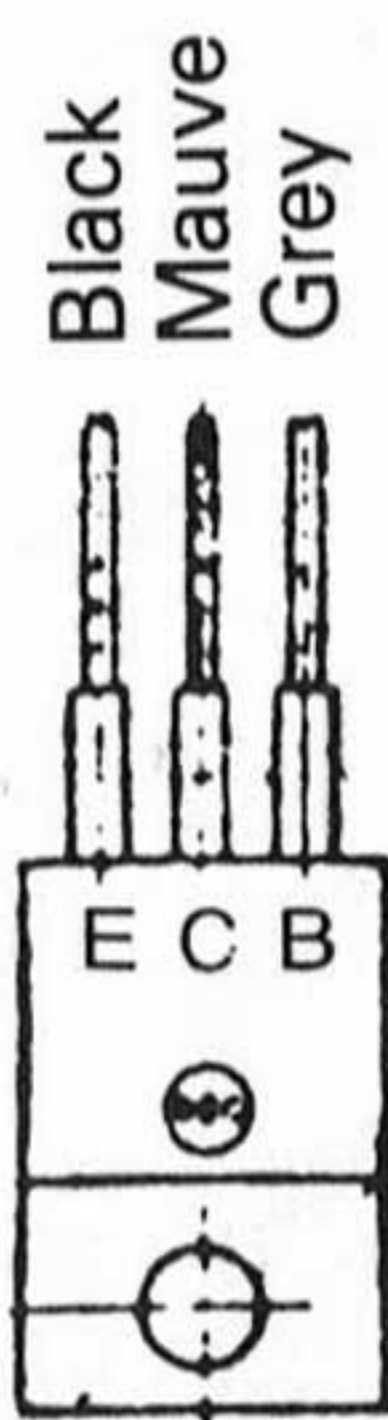
Reconnect battery connector to large RED and BLACK wires on the Electronic Speed Controller — observing correct colours. Slide vinyl pipes over joints.



Connect YELLOW wire from ELECTRONIC SPEED CONTROLLER to YELLOW motor wire.

Connect GREEN wire from ELECTRONIC SPEED CONTROLLER to GREEN motor wire.

Push vinyl pipes over joints.



POWER
TRANSISTOR

Re-fit Vinyl Pipes to BLACK-
MAUVE-GREY wires.

Solder BLACK wire from
ELECTRONIC SPEED CON-
TROLLER TO 'E' on Power
Transistor.

Solder MAUVE wire to 'C' on
Power Transistor.

Solder GREY wire to 'B' on
Power Transistor.

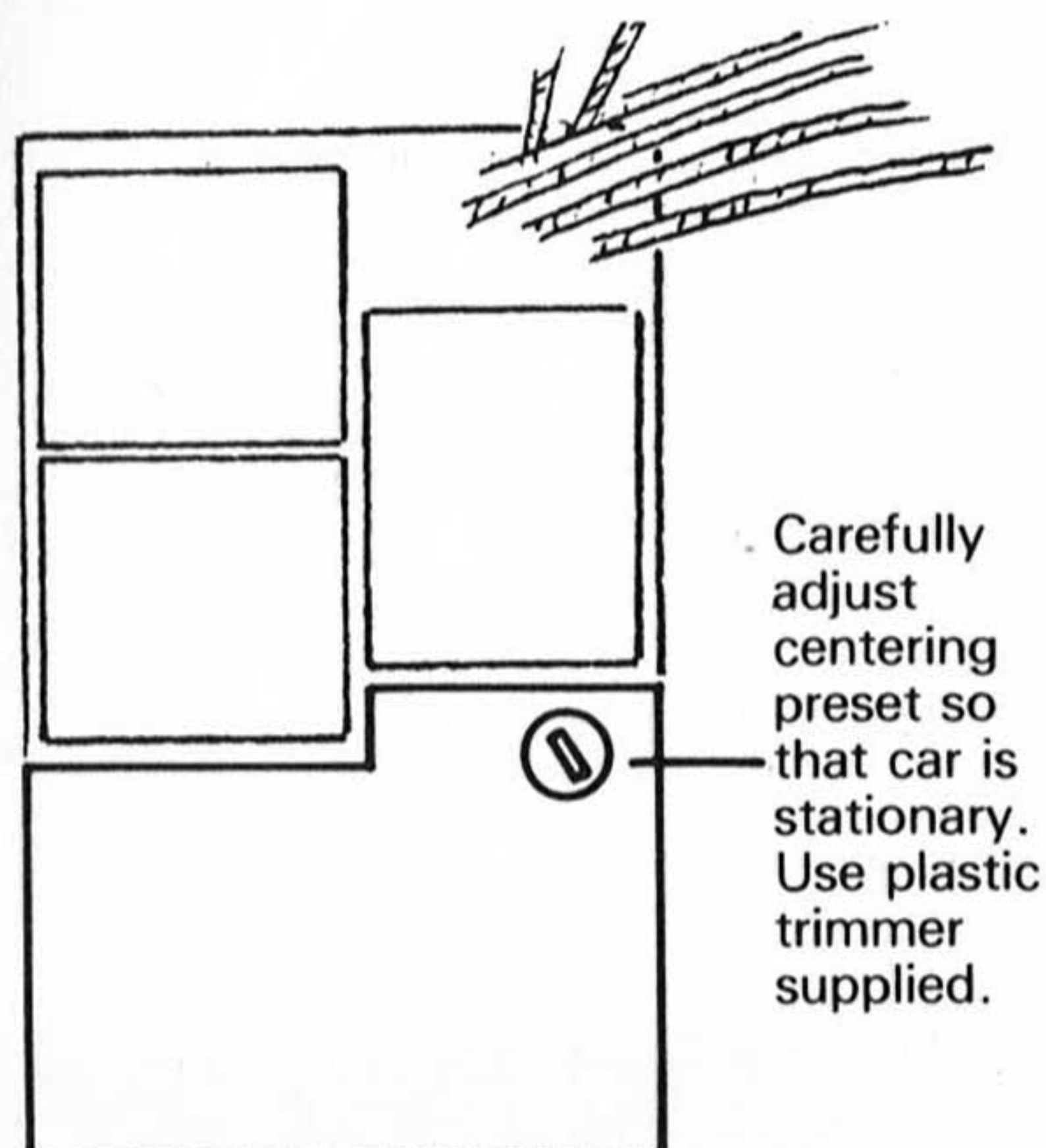
Push Vinyl Pipes over joints.

Re-fit receiver and motor batteries.

Ensure transmitter throttle stick and trim
control are in central position.

Switch on receiver and transmitter.

If car travels in either direction with
throttle stick in central position, *carefully*
adjust centering preset on electronic
speed controller so that car is stationary.



FITTING OF SPEED CONTROLLER TO OTHER TYPES OF MODELS

When using the ACOMS ELECTRONIC
SPEED CONTROLLER with other types of
radio equipment and models proceed as
follows:-

Remove the receiver plug from the end of
the wire from the Electronic Speed Con-
troller and connect a compatible plug for
your radio receiver.

RED wire — Receiver supply positive
6V maximum

BLACK wire — Receiver supply negative

WHITE wire — Signal input positive
pulses

The power transistor should be bolted to a
convenient large metal surface which
must be insulated from the motor
batteries in both forward and reverse
directions.

In general the fitting instructions and
setting up procedure will remain the same.

SPARE PARTS

WHICH MAY BE REQUIRED:-

BATTERY CONNECTOR 6 Volt SP 1039

BATTERY CONNECTOR 7.2 Volt SP1106

ACOMS SERVO PLUG AND LEAD AP17