

This is a description of the modifications made to a 'Scalextric Supra'.

This is a good starting point for someone who has limited knowledge on what is needed.

It may not be the best, but it is the way that I built mine. Use it, as you will...

Ingredients....

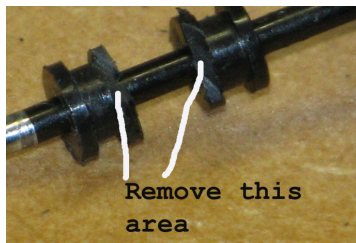
- 1 A Scalextric Supra, your choice of colour scheme
– mine was second-hand and I have no idea how much use it has had
- 2 1 pair MJK bearings
- 3 1 pair MJK tyres – I used MJK 4205
- 4 Lead weight, 1.5mm or 1/16"

Preparation....

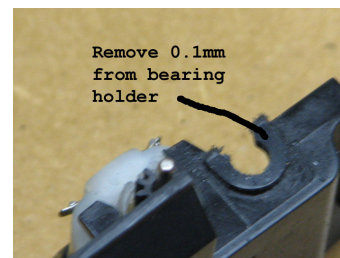
- 1 Remove chassis
- 2 Remove one front wheel
- 3 Remove front axle
- 4 Remove both front tyres
- 5 Remove guide
- 6 Remove motor
- 7 Remove both rear wheels
- 8 Remove rear axle
- 9 File knurling from the OFF-Side of the axle, to allow MJK bearings to slide on without jamming
- 10 Remove bearings

You should now have a completely disassembled car!

NOTE: MJK bearings are not exactly the same dimensions as the original bearings and if you simply snapped them into the chassis, the rear axle will usually bind.

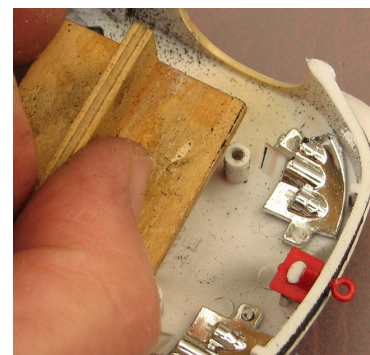
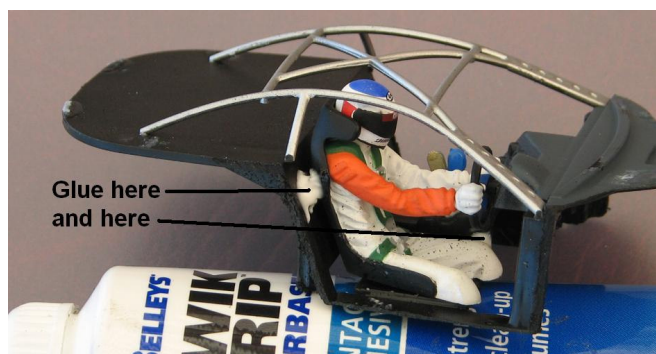


I remove about 0.1mm from the outside of the bearing carrier on the chassis and modify the bearings to provide clearance for the motor



Body Preparation....

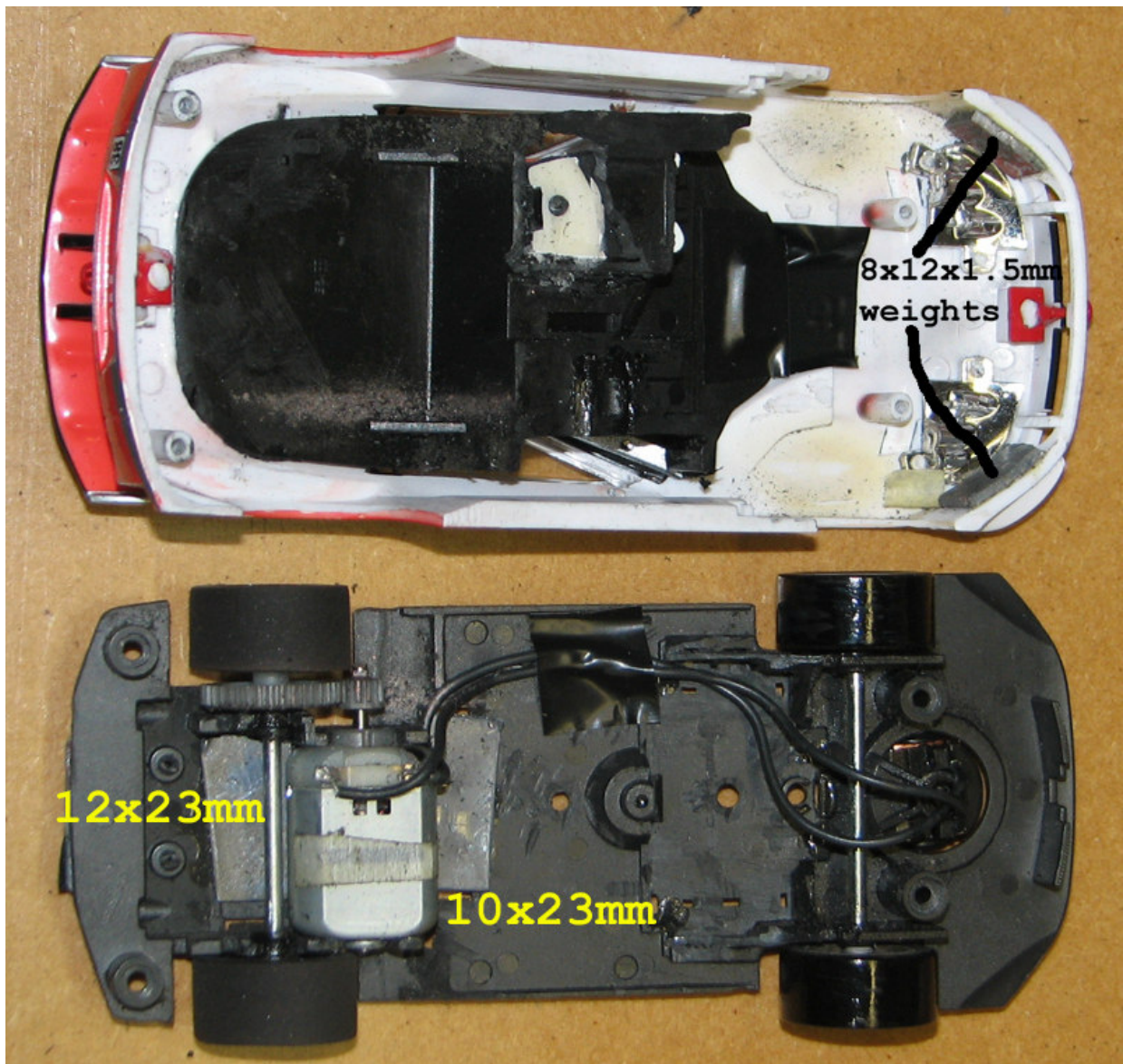
- 1 Remove the interior
- 2 Glue the driver to the seat and then the seat to side of interior – this allows the base of the interior to be removed, which then allows the body to 'move' freely, without binding - refer to completed car pic
- 3 When glue has dried, remove the bottom of the interior as show in the 'Completed car' picture
- 4 Two pieces of lead 8mm x 12mm x 1.5mm are glued to the backside of the front of the body – refer to the 'Completed car' picture for better detail
- 5 Gently and carefully sand about 1/32" (1mm) off the front body mount posts (Nothing is removed from the rear body mounts)



- 6 Sand the front of the body to allow the chassis to rock around the body screws
- 7 Shave the rear of the interior, where it meets the rear window, to allow the interior to mount further up into the body – this allows for rear tyre clearance
- 8 Tape the interior into body, so that the interior is held FIRMLY as high up into the body as possible



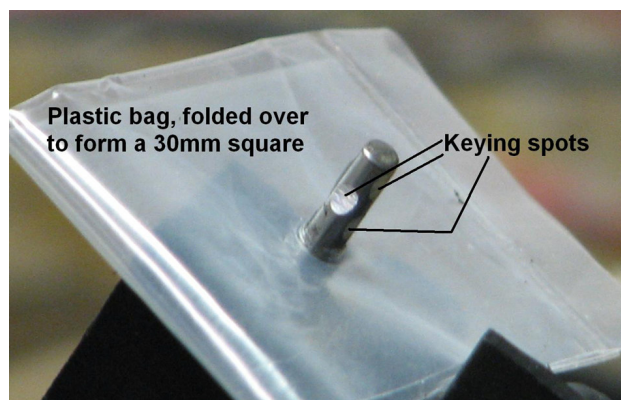
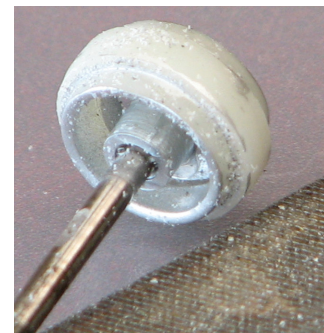
Picture showing the completed car....



All the lead is 1.5mm or 1/16" lead sheeting, dimensions as shown.

Chassis Preparation....

- 1 Clean any paint off all rims
- 2 Glue all four tyres onto their rims – I use Selleys glue
- 3 Snap the MJK bearings into place, aligning the cut-outs for the motor clearance
- 4 Using a drill blank axle, confirm there is no binding. Correct before gluing
- 5 Glue the bearings – I use CA glue, but use whatever you prefer
- 6 Snap the motor into position
- 7 Confirm there is still no binding. Correct before gluing
- 8 Glue the motor - I use CA glue, but use whatever you prefer
- 9 When the front tyres are dry, sand them round, using a drill or drill press
- 10 Trial fit the front axle and both wheels
- 11 Trial fit the chassis into body to check there is no binding of the front wheels – correct if there is any binding. (I do not glue the front wheels onto the axle)
- 12 Trial mount the gearside rear wheel, mount the axle and trial mount the offside wheel. Check there is clearance for both wheels – correct if there are any issues
- 13 When ready to glue rear rims onto axle, grind some 'keying spots' into the axle. (I use four, evenly spaced around the axle)
- 14 A piece of plastic 60mm x 30mm folded over and a hole through the middle is placed over the axle. This will provide the axle side-to-side movement (when removed) and will prevent the CA from getting into the bearings
- 15 Glue both rear wheels onto the axle
- 16 Remove plastic when glue is dry
- 17 Add a piece of lead, 10 x 23 x 1.5mm, directly in front of the motor – refer completed car picture
- 18 Add a piece of lead, 12 x 23 x 1.5mm, directly at the rear of the motor – refer completed car picture
- 19 Tape the lead-wires so that they do not bind the body movement
- 20 Assemble the car
- 21 Go enjoy, but tune to your driving style



Refer to completed car picture for better detail of items 17, 18 & 19

My completed car's weight is 97 grams

Tools and Glues....

Glues....

I use Selleys waterbased KwikGrip and this CA as shown in the picture.

The CA debonder will soften CA without harming the plastic!



Tools....

Here is some of my collection of 'tools' that I use when building cars.

The top one is a homemade "T" shaped sanding board with a holder at right angles to the board – 400grit paper. Useful to sand body posts, as it can sand both at the same time.

Left to right.

Razor saw, good for cutting fine cuts in plastic, homemade sanding boards, made from 4mm ply, 80grit, Combination of 400grit & 1000grit & 80 grit on the back, screwdrivers, sharp knives

