

FERRARI 31274

THE LEGENDARY 1970s F1 FERRARI





FERRARI

SCALE

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AGORA MODELS

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STAGE

FRONT SPOILER OF THE 312 T4

THE FRONT SPOILER OF THE FERRARI 312 T4 HAD AN IMPORTANT FUNCTION: TO IMPROVE THE TRACTION AND STABILITY OF THE CAR. IN THIS ASSEMBLY SESSION, YOU WILL COMPLETE THE SPOILER AND DECORATE IT WITH DECALS OF THE SPONSORS' LOGOS.



LIST OF PARTS

- Front spoiler
- 2 Right-hand spoiler bracket
- 3 Left-hand spoiler bracket
- Decals





01-01 Place a shallow bowl, a soft cloth, two pairs of tweezers, a pair of small scissors, and two cotton buds on a clean work surface.



01-02 Using the cloth, carefully clean the front spoiler of your model. Having removed all marks, you will now prepare the surface ready to take the decals.



01-03 The decal sheet has a small protective overlay. Remove it carefully, without damaging the decals underneath.



01-04 Using the scissors, cut out decals 1, 2 and 3 (the reference number is in a circle next to the decal), leaving a small margin.

DECAL SOFTENER

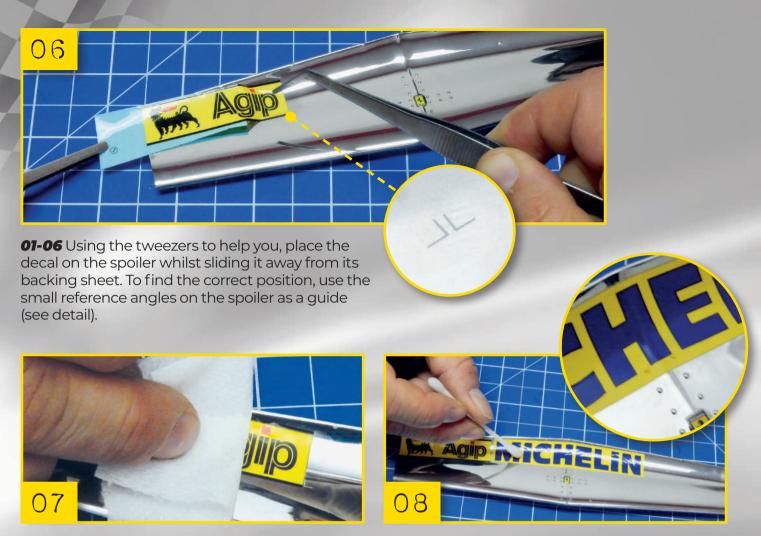
ADVANCED TECHNIQUE

This liquid product is applied with a brush, and is particularly useful when decals are to be placed on uneven, curved surfaces or have small details that must remain visible once they have been placed. The softener lets the decal lie perfectly on the surface to which it is applied, eliminating wrinkles, creating an extremely realistic effect. Decal softeners are available from model shops.

They must always be used in small quantities, and only after excess water has been eliminated.

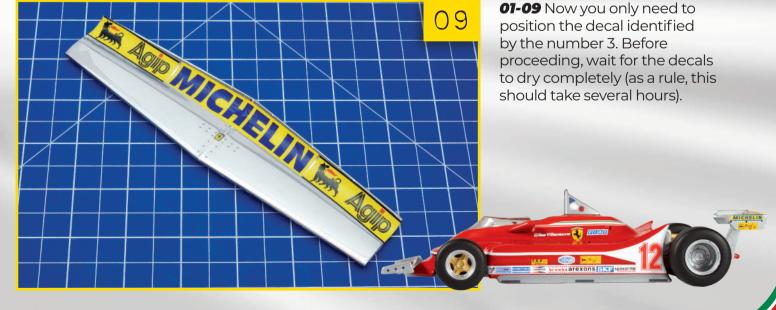


01-05 Fill the bowl with warm water and submerge the decal marked with the number 1. Leave it submerged for about 30 seconds, until the thin decal begins to separate from its backing sheet.



01-07 When you are happy with the position of the decal, gently dab it with the cloth to remove excess water. If you still need to move the decal slightly, use a cotton bud - not your fingers.

01-03 Following the same procedure, position the central decal. Again, use a cotton bud to move it. If you want to, you can use a decal softener (see box on page 2) to bring out the minutest details, as shown in the detailed image above.



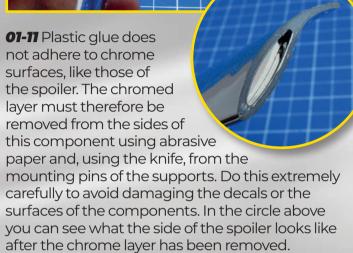


01-10 When the decals are dry, prepare everything you will need for the second phase of the assembly: the spoiler. You will need a modelling knife, a small amount of abrasive paper, and plastic glue.



01-12 First dry-fit the couplings between the brackets and the spoiler, and then proceed by applying a thin layer of plastic glue.







O1-13 Also apply glue to the bracket fitting points and then join the two pieces together. All that remains is to glue the second bracket to the front spoiler.

FINAL RESULT

In this first assembly session you have completed the front spoiler of your model.

Put it somewhere safe, ready for use at a later stage of the build

STAGE

FIRST TYRE AND THE NOSE

YOUR MODEL CAR IS FITTED WITH FOUR SLICK TYRES, WHICH ARE DESIGNED TO GIVE MAXIMUM PERFORMANCE ON DRY TRACKS. HOWEVER IN THIS ASSEMBLY SESSION YOU WILL BE WORKING ON THE FRONT PART OF THE CAR: JOINING TOGETHER THE NOSE AND SPOILER.











LIST OF PARTS

- Front tyre with filling
- Nose
- § Front spoiler bracket

SCREWS

Two type A screws Two type B screws





02-01 Place everything you need on the work surface, ready to carry out the assembly session shown on these pages. You will need the nose, a type A screw, a type B screw, the front spoiler bracket, and the spoiler that you received with Stage 1, to which you have already applied the decals. Also have ready a medium Phillips screwdriver.

02-02 Turn over the front spoiler and locate holes A and B (inset below). Now join the bracket to the spoiler by inserting pin A (photo on the left) into the corresponding hole in the spoiler and marrying up the holes of the two parts marked with the letter B.



coupled.

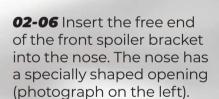


02-04 Now insert the type A screw into the hole, as shown in the photograph. Tighten it fully with the Phillips screwdriver.



02-05 The spoiler and its bracket are now securely joined together.

06





02-07 Slide the front spoiler support into the nose until the mounting holes of both parts match up.



02-08 Insert the type B screw into the union holes in the spoiler bracket and the nose. Use the screwdriver to tighten it as required.

FINAL RESULT

SAGIP MICHELING You have now firmly connected the front spoiler to the nose of your 1:8 scale Ferrari 312 T4. Very carefully put the finished assembly aside.



STAGE

3

WHEEL RIM AND BRAKE

USING THE COMPONENTS YOU HAVE RECEIVED YOU CAN NOW FINISH ASSEMBLING THE FIRST WHEEL OF YOUR 1:8 SCALE FERRARI 312 T4. YOU WILL ALSO ASSEMBLE THE BRAKE CALIPER AND THE AIR INTAKE DUCT WHICH, IN THE REAL CAR, HELPED TO COOL THE DISC.



LIST OF PARTS

- Wheel rim
- 2 Five beadlock bolts
- 8 Beadlock
- 4 Brake caliper
- 5 Brake cylinder assembly

- 6 Air intake (outer part)
- 7 Air intake (inner part)

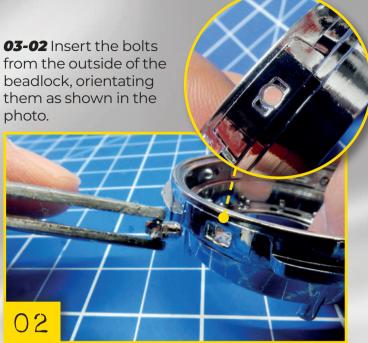
SCREWS

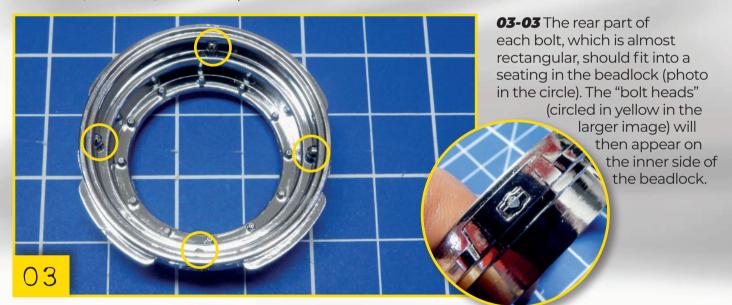
Three type A screws



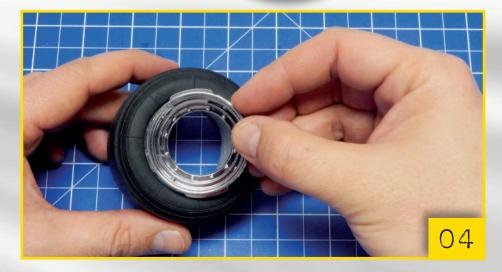


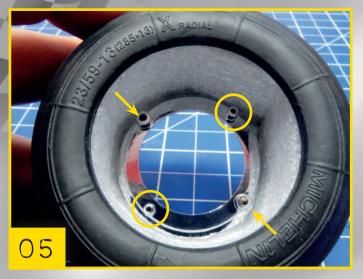
03-01 You will need the wheel rim, the beadlock with four bolts, two type A screws, the tyre with the wheel, tweezers, and a Phillips screwdriver.





03-04 Then couple the beadlock with the tyre. The four outermost tabs must fit into the lips of the tyre.





03-05 Turning the wheel over, you will immediately see the two interlocking pins (yellow circles) and the two seatings of the fixing screws (yellow arrows).



03-06 Insert the wheel rim into the tyre until it connects with the ring. Caution: the holes indicated by the yellow circles in the photo alongside must match up with the interlocking pins of the beadlock.

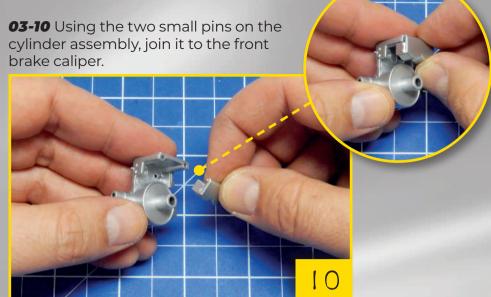
03-07 Now insert the two type A screws into the holes that are left free. Fully tighten them with the screwdriver. In this way, the wheel rim and the beadlock will be firmly joined together and locked around the lips of the tyre.

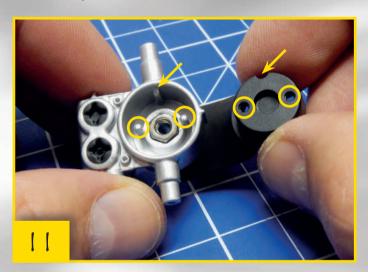
03-08 On both sides of the wheel, check that the lips are aligned with the beadlock and the wheel rim as shown. This completes assembly of the first front wheel.





03-09 Now take the brake caliper, the cylinder assembly, and both parts of the air intake.





03-11 Use the two interlocks (yellow circles) to attach the internal part of the air intake to the brake caliper. A designated centering notch (yellow arrow) is included to ensure the correct assembly position.





You have now assemled the first front wheel





together.

STAGE

GILLES VILLENEUVE'S SEAT

THE FERRARI 312 T4 SEAT HAD BACK PADDING, DESIGNED TO ENSURE MAXIMUM DRIVING COMFORT. THIS IS ACCURATELY REPRODUCED IN YOUR 1:8 SCALE MODEL.

2

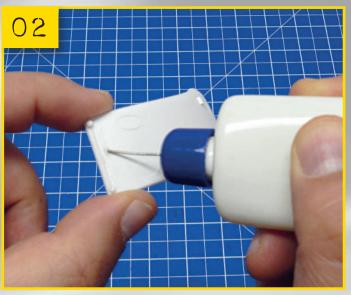
LIST OF PARTS

- Seat structure
- 2 Backrest





04-01 Begin by assembling the seat: you will need the seat structure, the backrest, and some super glue.



04-02 Place a small amount of glue inside the back, particularly at the lower and upper extremities.





04-04 The finish of the backrest is very realistic but if you wish, you can further improve the result by slightly "ageing" it. For this you will need a jar of matt black acrylic colour, a wide-tipped brush, an absorbent paper towel, several bowls, and a small amount of clean water.



04-05 Put a small amount of the black acrylic paint in one of the small bowls. Don't overdo it: you will only need a minimum quantity.



04-06 Dip the brush in the water and dilute the colour in another bowl. Use plenty of water; the coloured pigment must be really minimal.



04-07 Before you start work on the backrest, carry out a few tests on the paper towel; the colour left by the brush must be light grey and very diluted.







STAGE

5

LEFT-HAND SUSPENSION

USING THE NEW PARTS THAT YOU RECEIVE WITH STAGE 5, YOU CAN BEGIN ASSEMBLING THE LEFT FRONT SUSPENSION, WITH ITS TRANSVERSE QUADRILATERAL CONFIGURATION, A FEATURE THAT MADE THE F312 T4 A RACE-WINNING CAR.



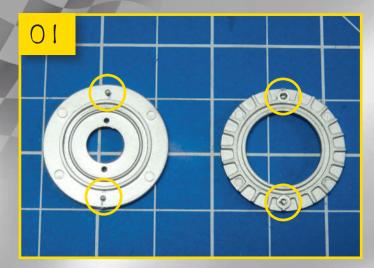
LIST OF PARTS

- Upper arm
- 2 Lower arm
- Steering tie rod
- 4 External brake disc
- 5 Internal brake disc

SCREWS

Four type C screws

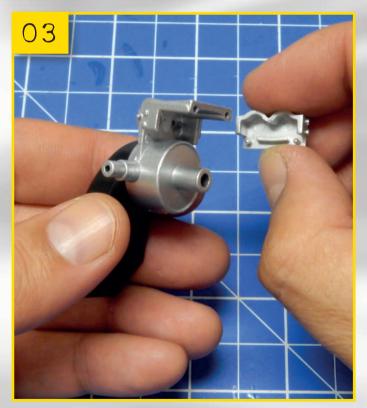




05-01 Look at the two parts of the brake disc. The external part (on the left) has two pins that must be inserted into the corresponding holes in the internal part (on the right).



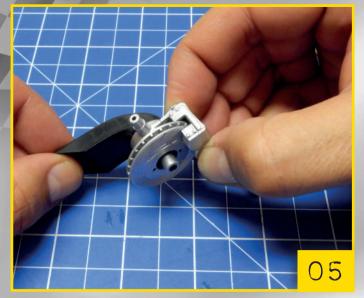
press them together with your fingers tightly.



05-03 Get the brake caliper air intake that you built in stage 3. Remove the cylinder assembly.



05-04 Position the brake disc on the air intake, orientating it as shown in the photo. At the moment there will be too much play in the disc: don't worry about it because the remaining parts will be provided in a later stage to finish the assembly.

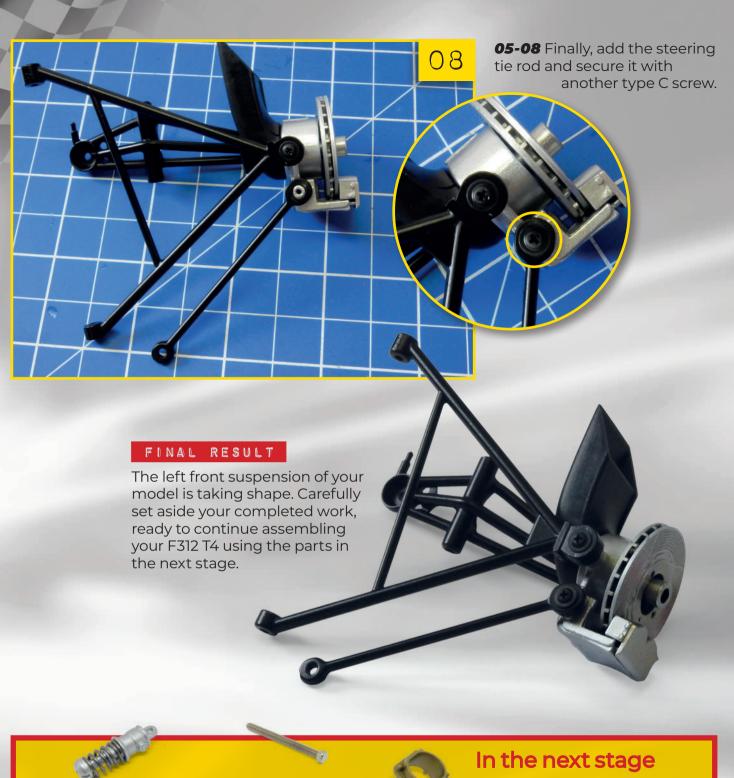


05-05 Now put the cylinder assembly back in place, to close the brake caliper on the disc.





05-07 Now it's time for the lower arm. Again, use the photos as a reference to see how to correctly orientate the parts. Use a type C screw to fix the lower arm (inset).





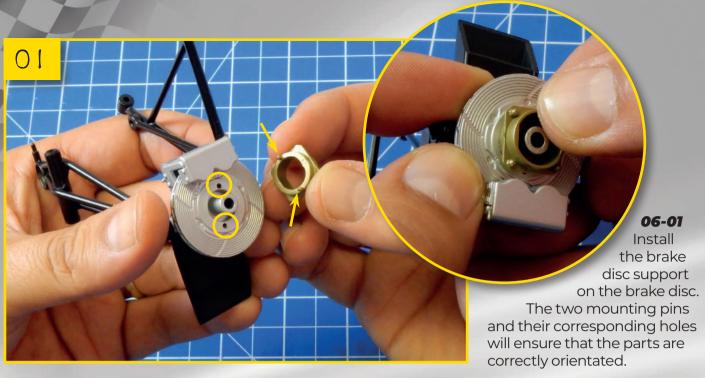
STAGE

FIRST SHOCK ABSORBER

USING THE ENCLOSED COMPONENTS YOU CAN NOW FINISH ASSEMBLING THE LEFT FRONT SUSPENSION OF YOUR FERRARI 312 T4, COMPLETE IN EVERY DETAIL.



- 2 Rear link
- Front link
- 4 Brake disc support
- 5 Hexagonal head screw
- Hubcap





06-02 Now fit the complete wheel on to the left front suspension assembly.



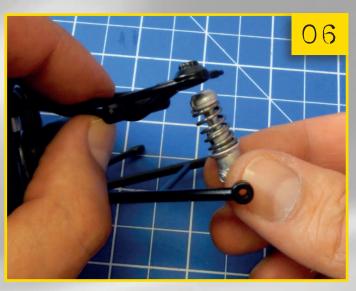
06-03 Secure the wheel with a type L flanged screw. After tightening it fully, loosen it by half a turn so that the wheel can rotate.



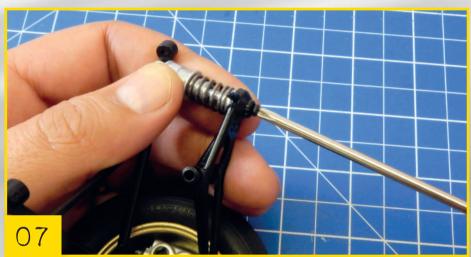
06-04 Fit the hubcap. The mounting pins and holes will ensure that the parts are correctly orientated and securely assembled.



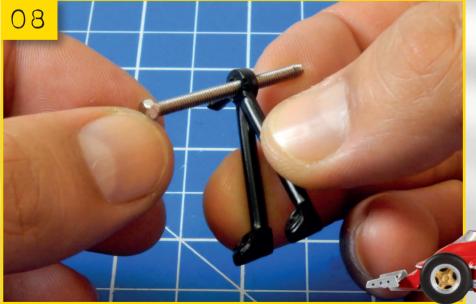
06-05 The left front wheel has been fitted to its suspension.



06-06 Bring the shock absorber close to the free end of the upper arm of the suspension, working as shown in the photograph.



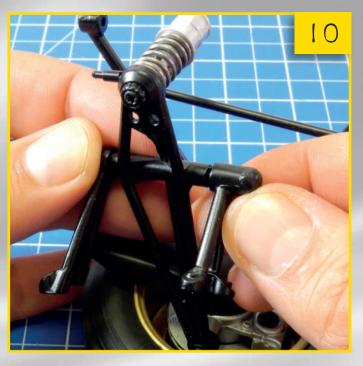
06-07 To fix the shock absorber to the upper arm, use a type D screw.



06-08 Insert the hexagonal screw into the slot of the front link, as shown.



06-09 Insert the hexagonal screw into the cylindrical cavity in the upper arm of the suspension.



06-10 Finally, fit the rear link on to the free end of the screw and tighten the whole assembly.





FINAL RESULT

The left front suspension is now complete in every detail. Put it aside carefully, ready to fit to the model you are assembling.