Arrows F1-2000 by MRM International

PARTS LIST & ASSEMBLY INSTRUCTIONS

No.	Description	Qty	No.	Description	Qty
1	Body	1	23	Front wheel upright LH	1
2	Air intake rim	1	24	Front susp. lower wishbones	1
3	RH side strake	1	25	Front susp. upper wishbones	2
4	LH side strake	1	26	Steering trackrods	2
5	Dashboard bulkhead	1	27	Front wheels	2
6	Steering wheel	1	28	Front wheel tyres	2
7	Floorpan/undertray	1	29	Front wing mounting	1
8	Diffuser extension	1	30	Front wing aerofoil	1
9	Plank extension	1	31	Front wing element	1
10	Seat	1	32	Front wing end plate RH	1
11	Gearbox	1	33	Front wing end plate LH	1
12	Rear Susp. lower wishbones	1	34	Rear wing lower element	1
13	Rear susp. Upper wishbones	1	35	Rear wing upper element	1
14	Drive shaft axle	1	36	Rear wing end plate RH	1
15	Rear susp. locating arms	1	37	Rear wing end plate LH	1
16	Rear susp. pushrods	2	38	Mirror RH	1
17	Rear wheel upright RH	1	39	Mirror LH	1
18	Rear wheel upright LH	1	40	Top camera pod	1
19	Rear wheels	2	41	Nose side camera pod	1
20	Rear wheel tyres	2		Instruction sheet	1
21	Disc brake rotor calliper	4		Decal sheet	1
22	Front wheel upright RH	1			

Multiple parts are interchangeable 'left to right' as applicable.

Please check you have all the parts against the list supplied. Familiarise yourself with the parts and instructions before commencing construction. Gather references and check them regularly. Clean all parts in a mild detergent, scrub gently with an old toothbrush then air dry.

Remove resin 'pour tabs' with a razor saw and clean up with files and wet and dry emery paper, use cutters and needle files to clean mould lines and flash from all parts. Take care to avoid inhaling or ingesting resin dust or metal filings.

Wash all parts a second time and prime with good quality primer. This will improve the adhesion and quality of paint finish.

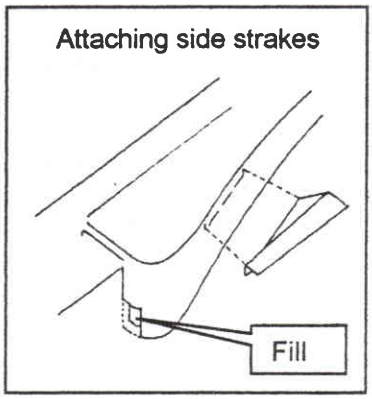
Paint small parts and details as you build up sub assemblies, detail painting cannot be done after construction is complete.

Step 1. Body work.

Preparation - Fill the holes for pull-rods and drill replacement holes 2mm lower in the same vertical plane so that they are almost at the bottom edge of the body (see illustration below). Fill the square apertures at the base of the leading edge of the side pods (see illustration for Step 4).

Fit the air intake rim and blend it in with fillers, do the same for the front wing mounting, checking carefully that the front wing supports go straight down and are aligned straight, front to rear.

Now add the left and right side strakes to the side pods where there are location marks, they should fit not quite flush with the top edge. Blend the strakes to the side pod with fillers. You may wish to 'drill and pin' these parts to reinforce the joint. Check photo references to ensure you position these parts correctly (see Step 1 illustrations).



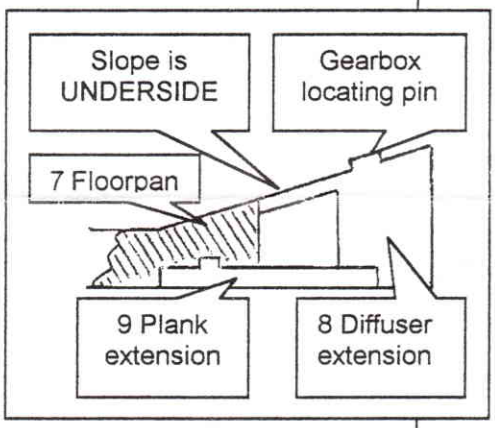
Fit the dashboard bulkhead on the raised locations each side of the opening in the cockpit. The steering wheel then fits into the bulkhead. Drill out the mirror mounting holes.

From the dimensions at the end of these instructions make from 'Plasticard' and fit the aerodynamics either side of the air box and cockpit following your photo references.

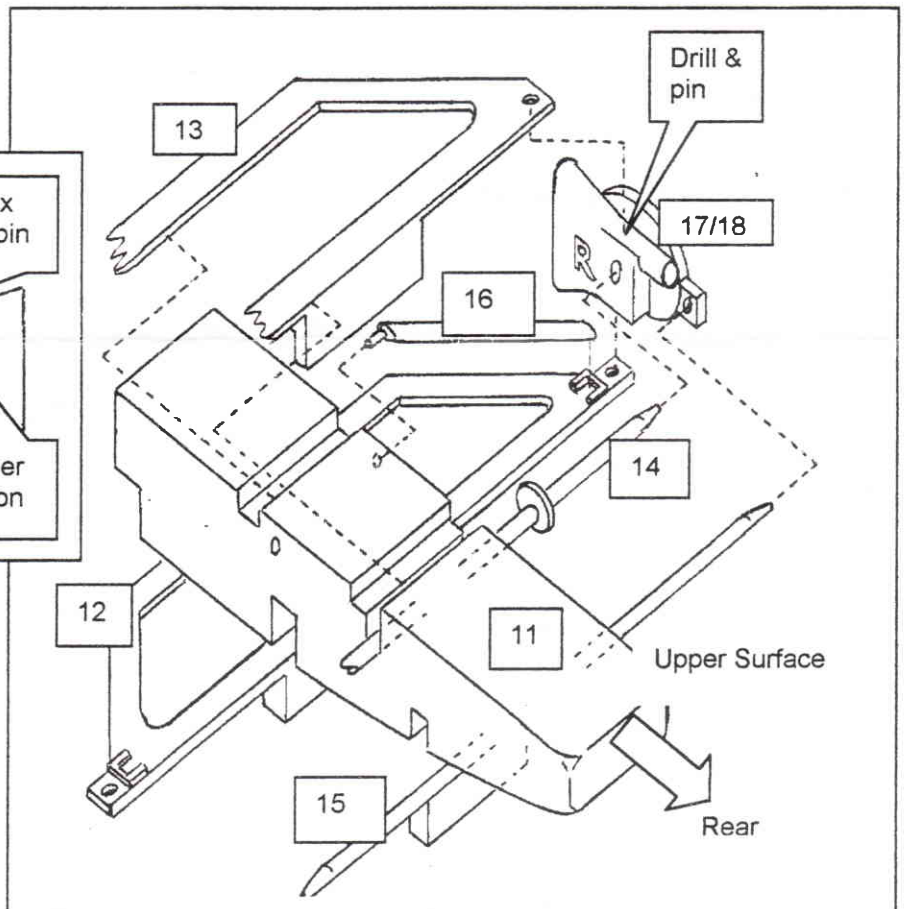
Step 2. Floorpan/undertray.

Fit seat into opening in the floor. Fit the plank extension in place locating it by the pin and hole. Use 5-minute epoxy to allow sufficient time to ensure you fit this part straight and square. Fit the diffuser extension so the protruding top butts up against the rear of the undertray and the lips on the lower aspect sit level with the plank extension in its recesses. Fill all gaps and blend in with fillers.

Step 3. Gearbox and rear suspension.



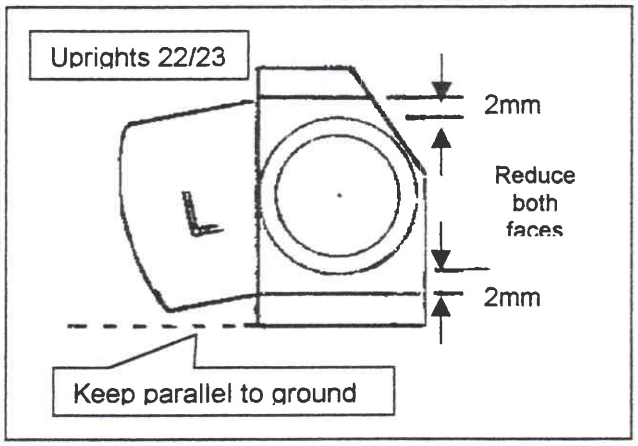
The gearbox locates onto the pin on top of the diffuser extension and butts up against the cross member on the floor pan, (as you look at this part the sloping face is to the underside, see illustration).
From underneath fit the lower wishbone into the foremost slot and under the front protrusion. NOTE: The block on the rear centre is sloped to match the slope of the gearbox base. The rear suspension locating arms are similarly fitted.



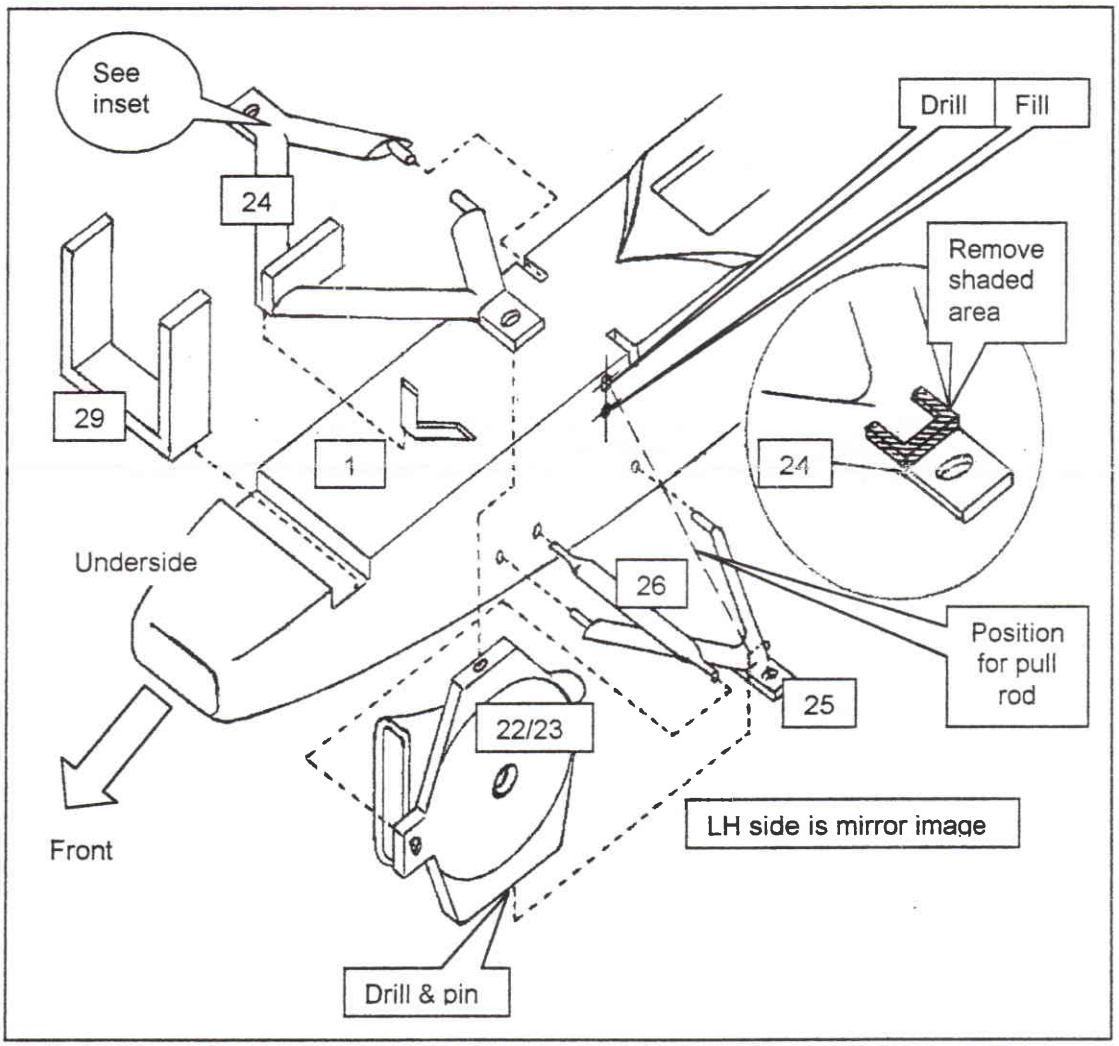
Rear suspension viewed from above LH side.

Place the drive shaft axle into the deepest portion of the slot on top of the gearbox; it is then trapped in place by the lip on the top wishbone when fitted in position. The top wishbone fits with the large block to the rear of the car.

Fit the uprights into the wishbone ends noting these are marked L or R in the air scoop. The uprights need reducing in size to fit correctly (see illustrations). The lower wishbone remains in a horizontal position but the top one slopes up at its outer end. It is advisable to 'drill and pin' these joints to reinforce them.
The push rods fit between the U-shaped locations on the wishbone outer ends and the holes at the top of the gearbox between the wishbone inner end locations.



Step 4. Front suspension.



Fit the lower wishbone from under the nose into the slots and shaped location recess. The pins on the rear legs fit into the slots. The top wishbones fit into the holes in the side of the nose cone, the broader legs fits to the foremost holes. Fit the front uprights noting that the air scoop slopes down to the front. It is advisable to 'drill and pin' these joints to reinforce them. Fit the track rods into the holes in the body and the uprights.

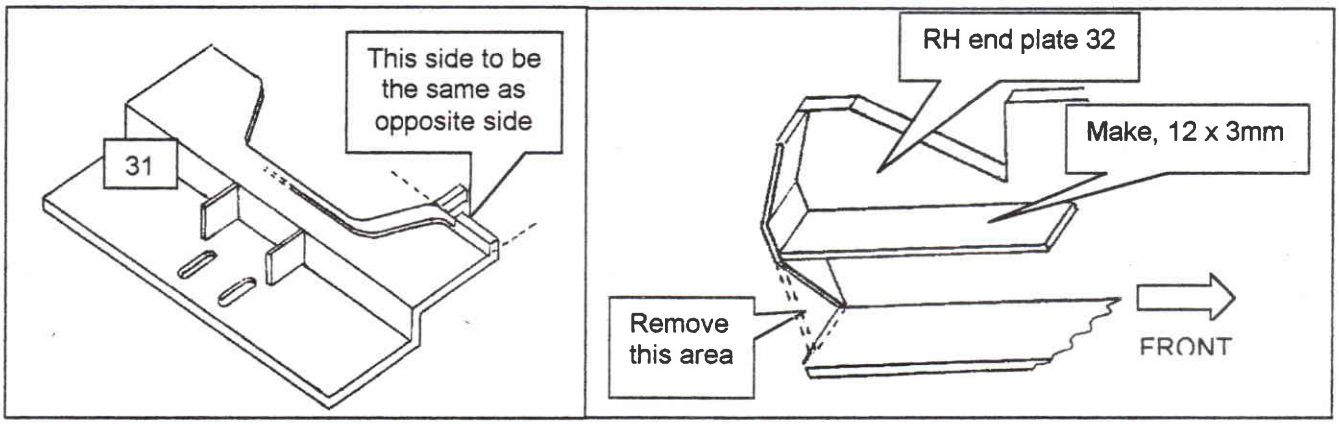
Step 5. Rear suspension.

Attach the rear suspension assembly to the undertray as explained at step 3, use 5-minute epoxy to allow time for adjustment to ensure you get the parts level.

Bring the undertray and body together. It is advisable to reinforce this joint by 'drill and screw' or 'drill and pin' means.

Dry fit the disc brakes, wheels and tyres to check the ride height. When all wheels sit square make the front pull rods from 30amp. fuse wire and fit between the undersides of the top wishbone outer ends and the holes drilled in the body at step 1 (see also step 4 Illustration).

Step 6. Front wing.



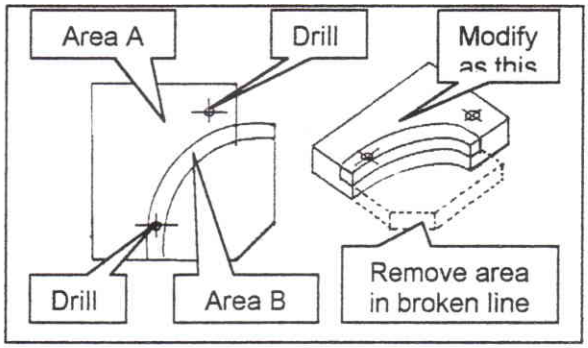
There are two options for the front wing.

1. Remove the rear element and replace it with the resin wing provided.
2. Convert the metal rear element to its basic form. This was the format the car most often ran in.

Attach the end plates and 'drill and pin' them to reinforce the joints. Make side strakes 12mm. long x 3mm. wide and fit into the slots on the outer sides. Open out the slots in the front wing until it will slide easily onto the mounting legs, allowing height adjustment to be made. When the height is set and the wing firmly attached remove any excess adhesive from the underside.

Step 7. Rear wing.

Modify the rear wing end plate to a constant thickness by building up area 'B' to the same thickness as area 'A' and remove the extensions (see illustration).
Drill the main holes as indicated. Remove carefully the two strakes from the rear wing element. The lower elements bottom legs mount to the locating slots on the gearbox rear end. Test fit to obtain a straight and level attitude before securing with 5-minute epoxy.

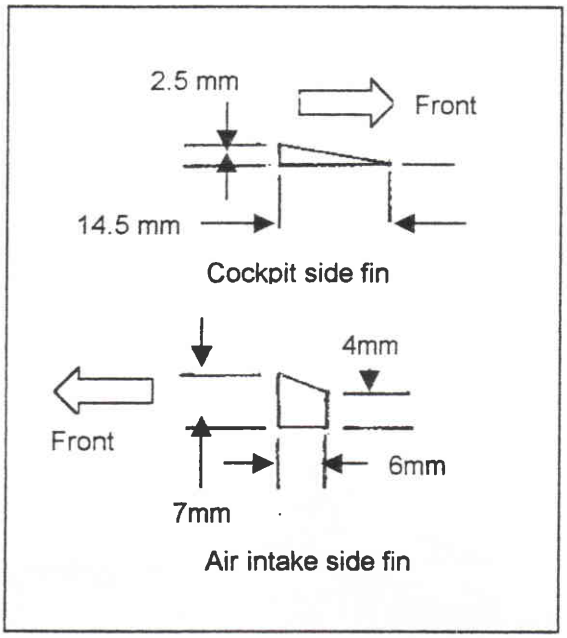


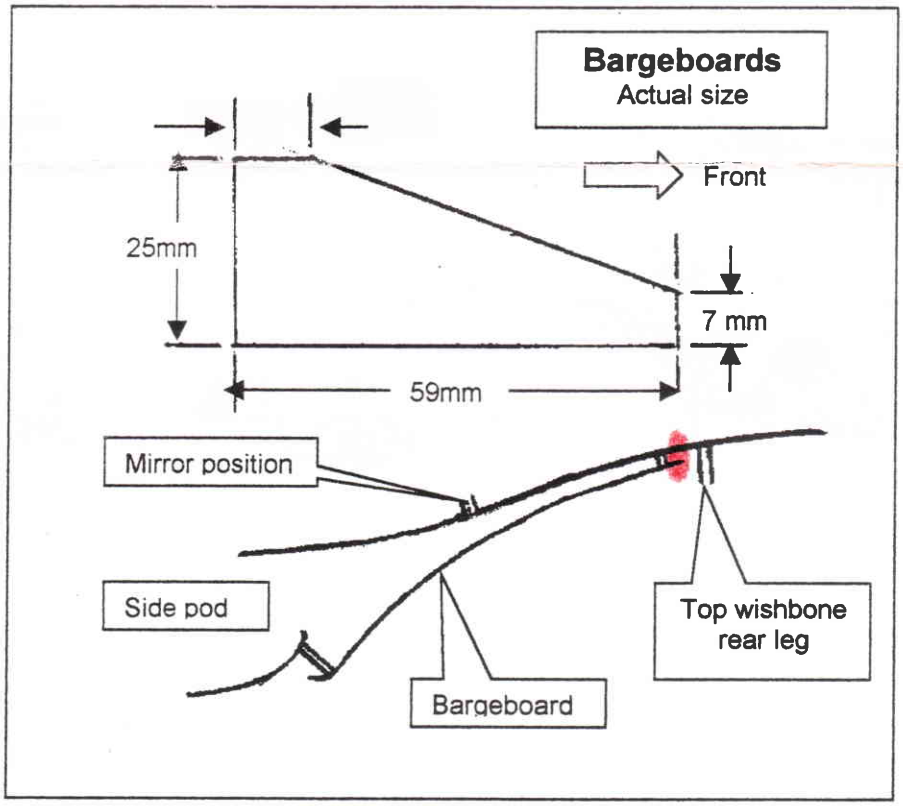
Step 8. Final stages.

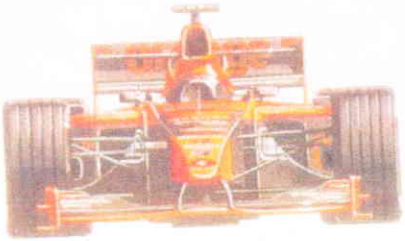
Make the bargeboards from plasticard referring to the drawings. Attach the bargeboards using brass strip or fuse wire.
Fit mirrors and the two camera pods as per your
references.

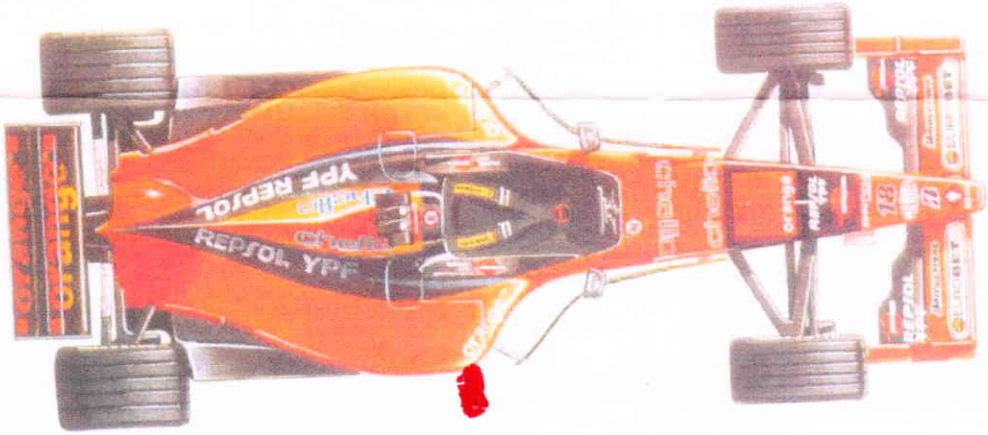
Paint as your references. Suggested colours –
Gloss Black
Semi gloss/Satin Black
Matt Black
Volkswagen Brilliant Orange
Renault Silver Grey Metallic

Decal as per your references.









ARROWS A21
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EUROPEAN GRAND PRIX