



PHOTOETCHED AND RESIN PARTS

1/24

RESIN SERIES



BUILDING INSTRUCTIONS

Resin cab conversion kit Italeri Volvo F12 chassis donor required. Revised KFS masters and modified kit content. All new PE and painted dashboard gauges. The kit contains both RHS and LHS dashboard and engine tunnel. New resin parts: air intake, cab upper and wheelarch steps, separate head lamps for easier painting, two version of F88 grilles, all new fuel tank with detailed mounts, new air tanks with mounts, new lower grille flaps (early and late version), early F88 cab side wall vent.

CTM 050 VOLVO F88/F89

NEW PARTS

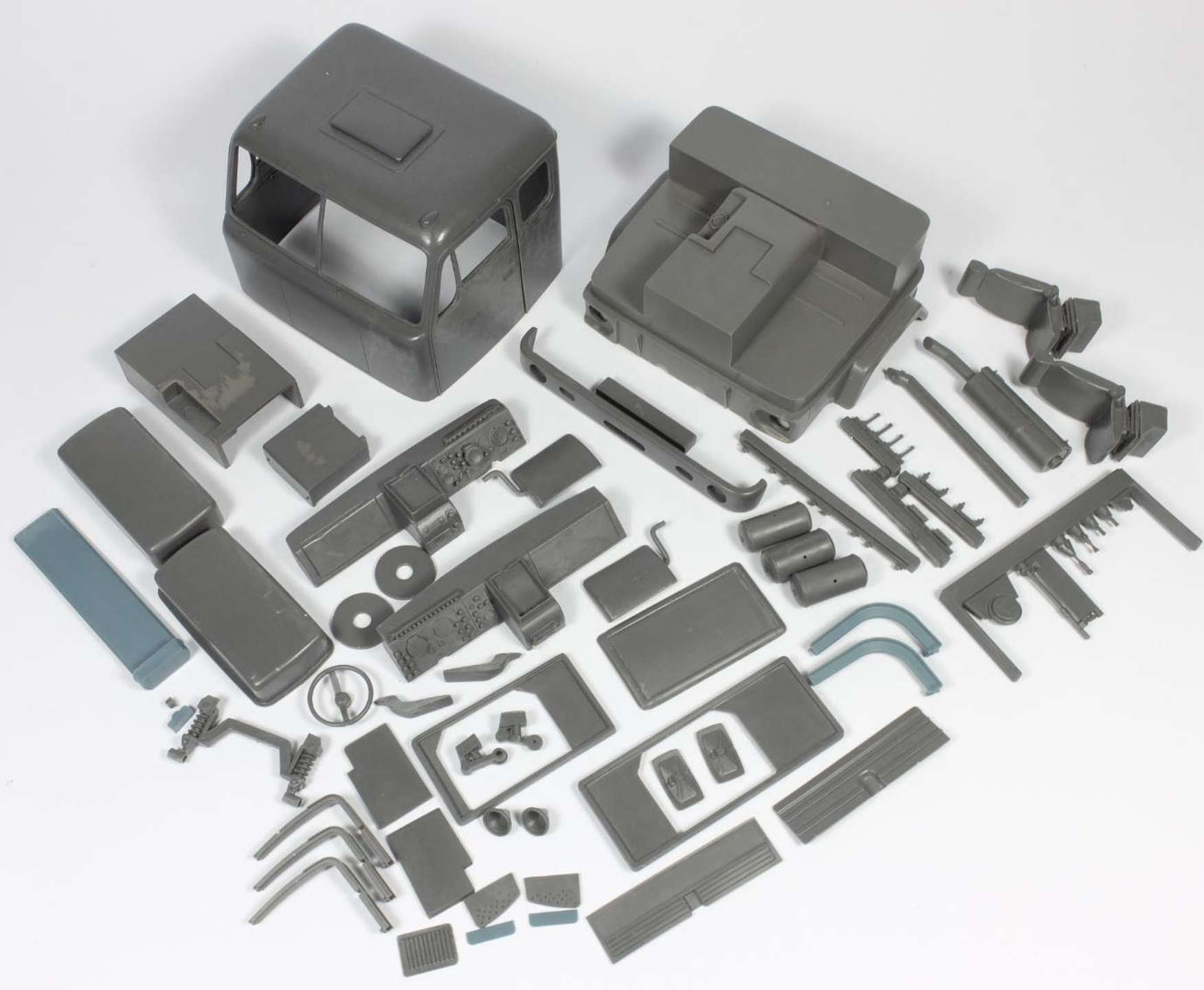
General instructions

- This kit is based on the KFS kit that is now officially owned by CTM
- The donor kit for this set is any old Italeri Volvo F series and FH 1-3 series kit
- This kit is intended for experienced model builders only.
- It is common that resin castings come with casting gates. These are on the part to distribute the casted resin through the all parts properly. It is up to model builder to remove them by cutting. Do that carefully and avoid damaging any parts, especially the fine ones as resin is a very brittle material. Use a fine saw rather than a knife or a cutting pliers to prevent part damage.
- Washing the parts in a soapy water is recommended before painting as the parts may be greasy and that will cause trouble during painting
- Nice drawings of various F series frames can be found here for those who want to do more than just use the Italeri frame:

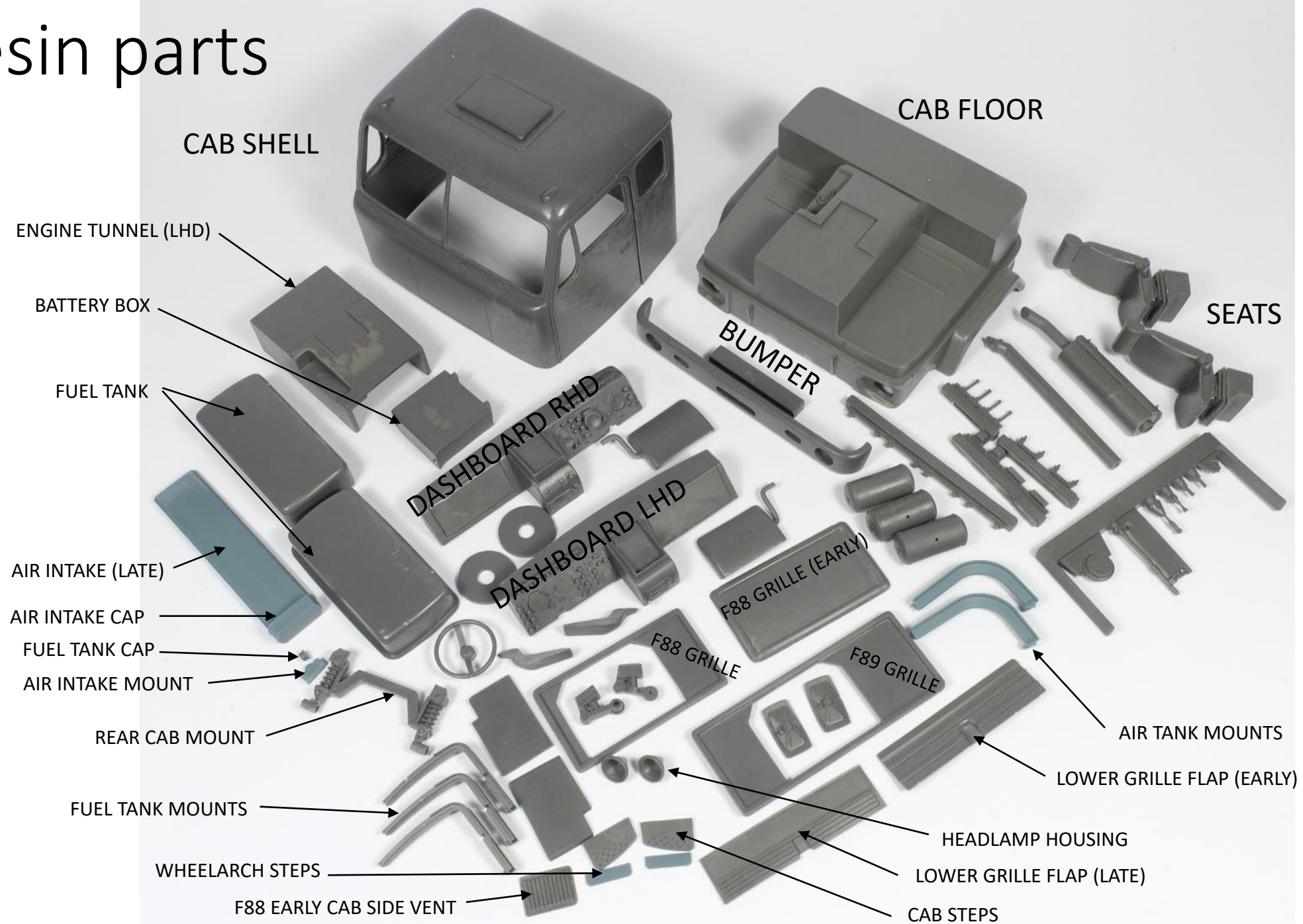
https://public.fotki.com/modeltrucks25thscale/truck_drawings/volvo/volvo_8_series/

KIT CONTENT:

- RESIN PARTS
- PE PARTS #1
~ GRILLES & EXTERIOR
- PE PARTS #2
~ DASH & BADGES
- PE PARTS #3
~LIGHTS
- CLEAR SHEET FOR WINDOWS
(+STENCIL)
- PLASTIC STRIPS FOR AIR TANKS
- WIRE FOR MIRROR ARMS
- THIN WIRE FOR WIRING



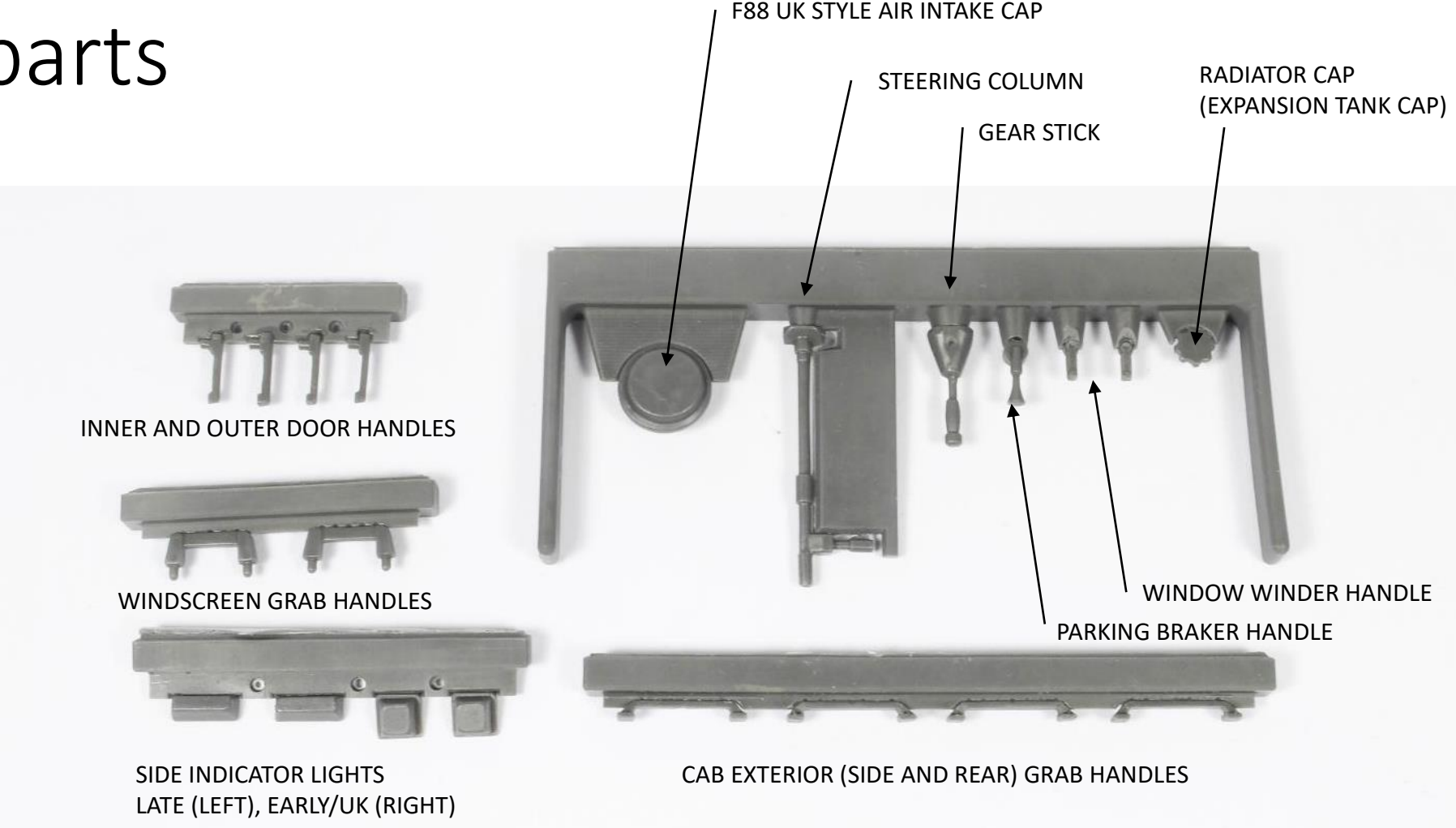
Resin parts



Resin parts



Resin parts



F89 / F88 290
GRILLE MESH

F88 (EARLY)
GRILLE MESH

F88 (LATE)
GRILLE MESH

FUEL TANK STRAPS (3x)

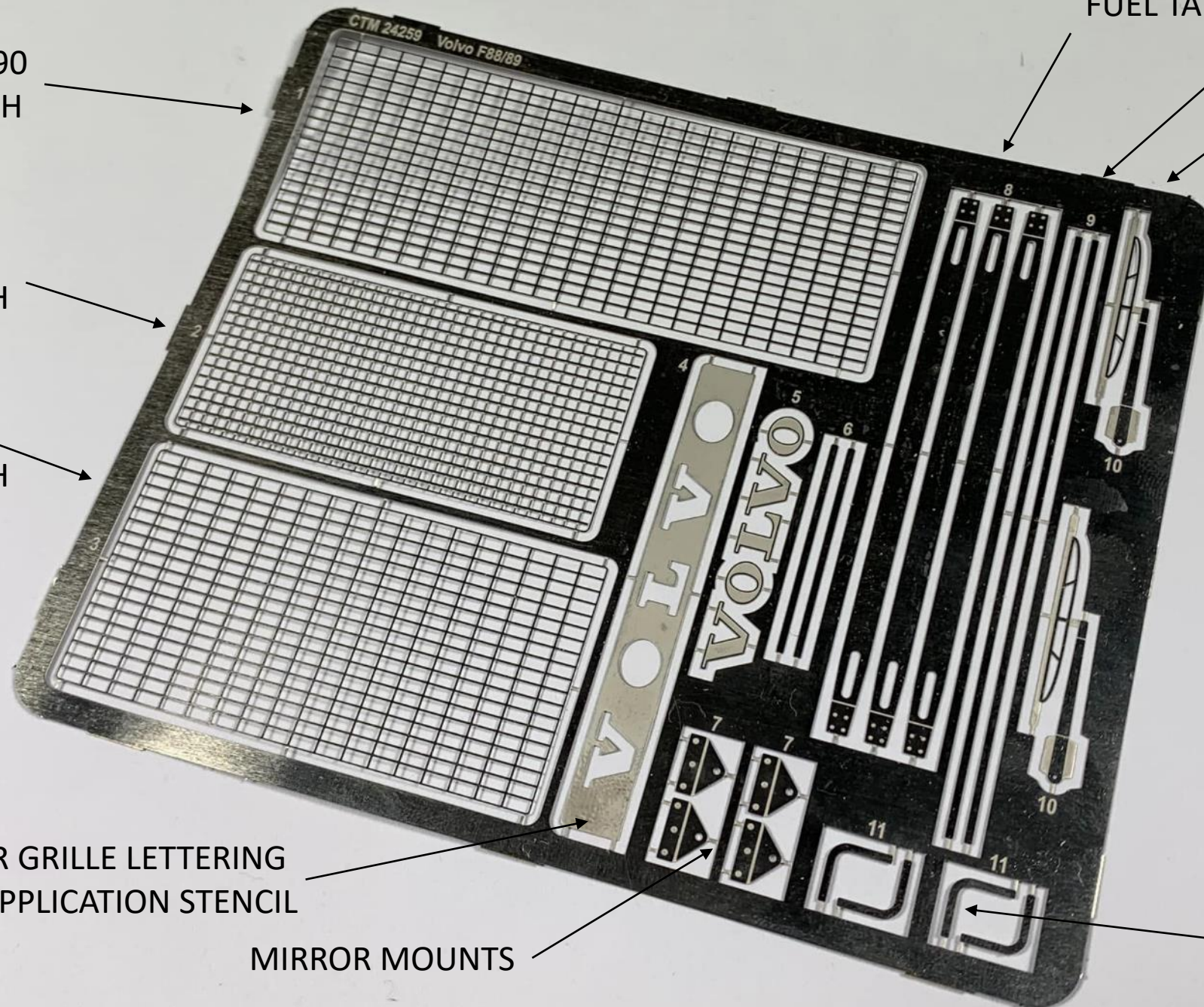
GRILLE TRIM (part No. 6 + 9)

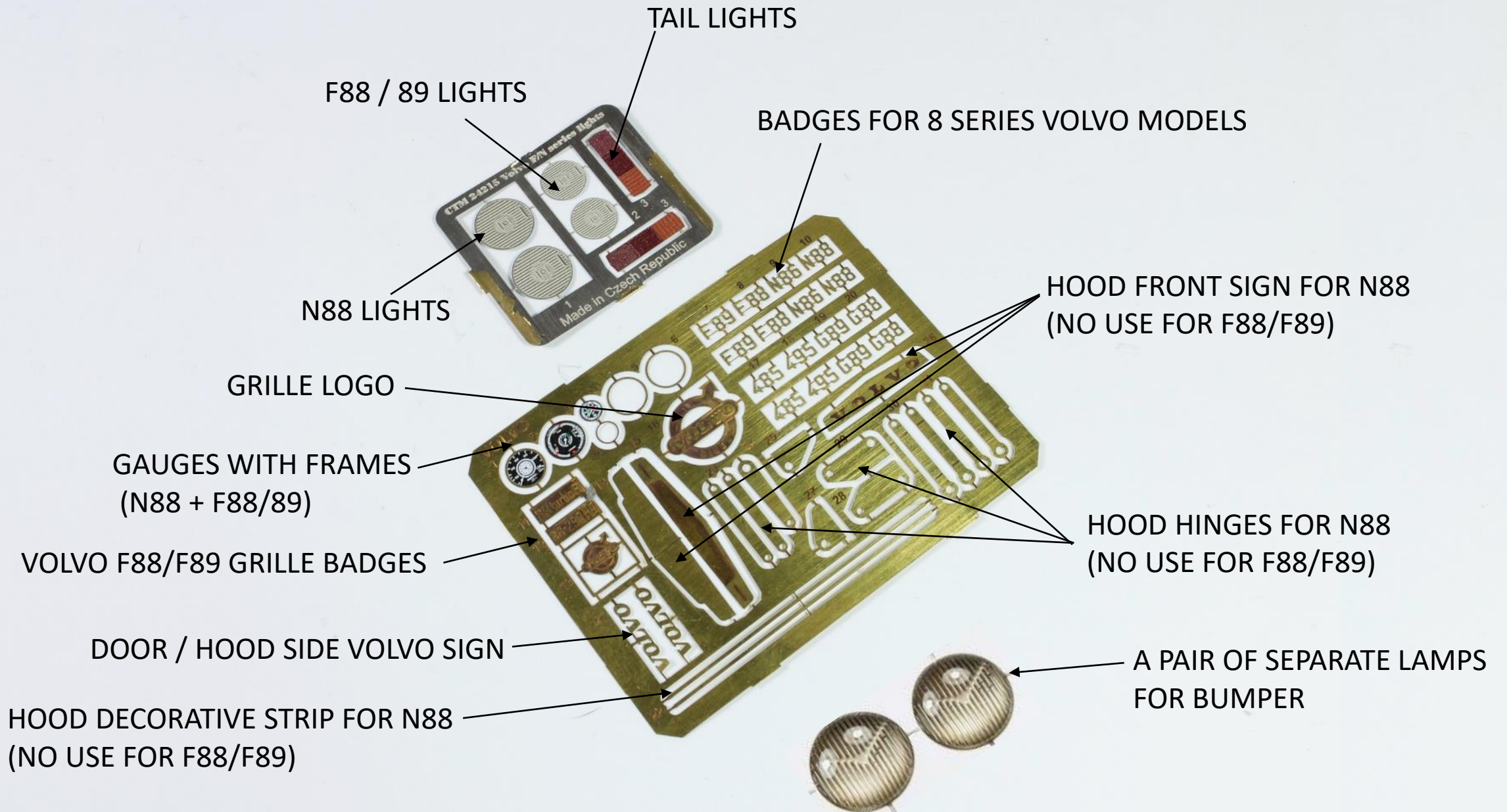
WIPERS (2x)

LOWER GRILLE LETTERING
AND APPLICATION STENCIL

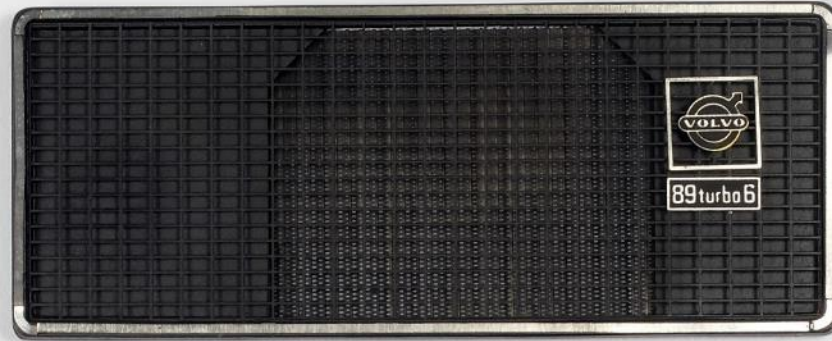
MIRROR MOUNTS

GRILLE TRIM (CORNERS)



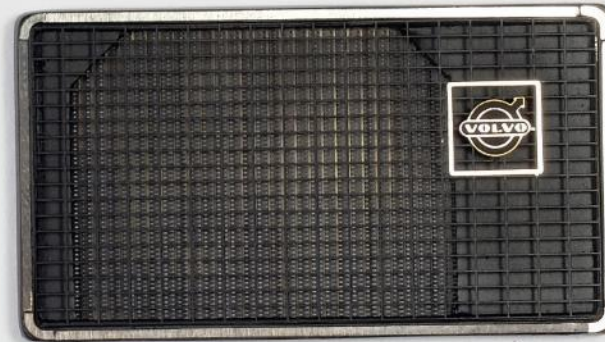


Grille versions



F89 (F88 290) GRILLE

F88 EARLY GRILLE



F88 LATE GRILLE

EARLY LOWER GRILLE FLAP



LATE LOWER GRILLE FLAP

Engine tunnel versions

THE CAB FLOOR HAS THE ORIGINAL
RHD TUNNEL MOULDED



TO CONVERT THE CAB FROM RHD TO LHD SIMPLY
CUT THE RHD TUNNEL AWAY AND REPLACE IT
WITH THE LHD VERSION

Cab steps



Fuel tank assembly

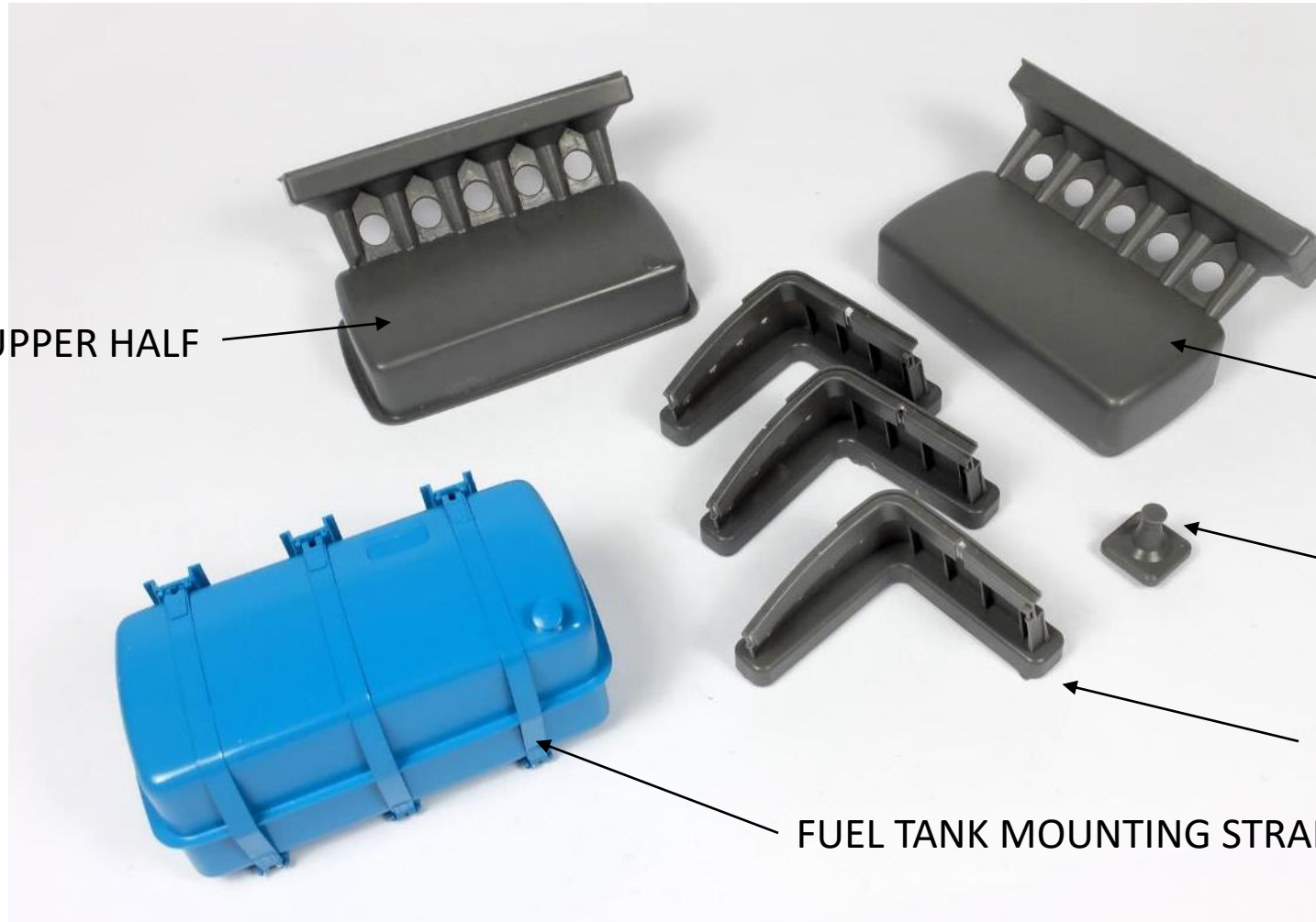
FUEL TANK UPPER HALF

FUEL TANK LOWER HALF

FUEL TANK CAP

FUEL TANK MOUNTS

FUEL TANK MOUNTING STRAPS (PE)

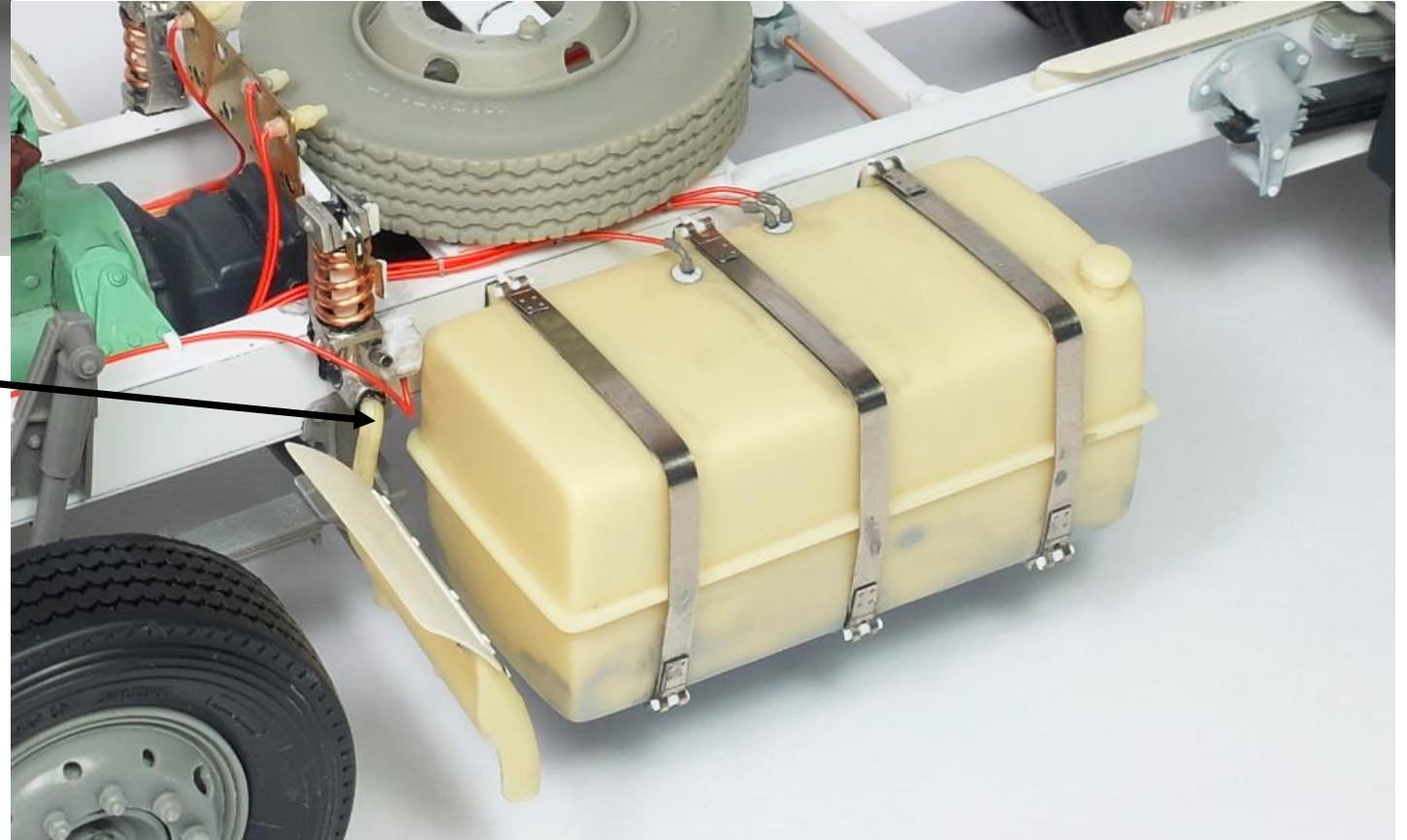






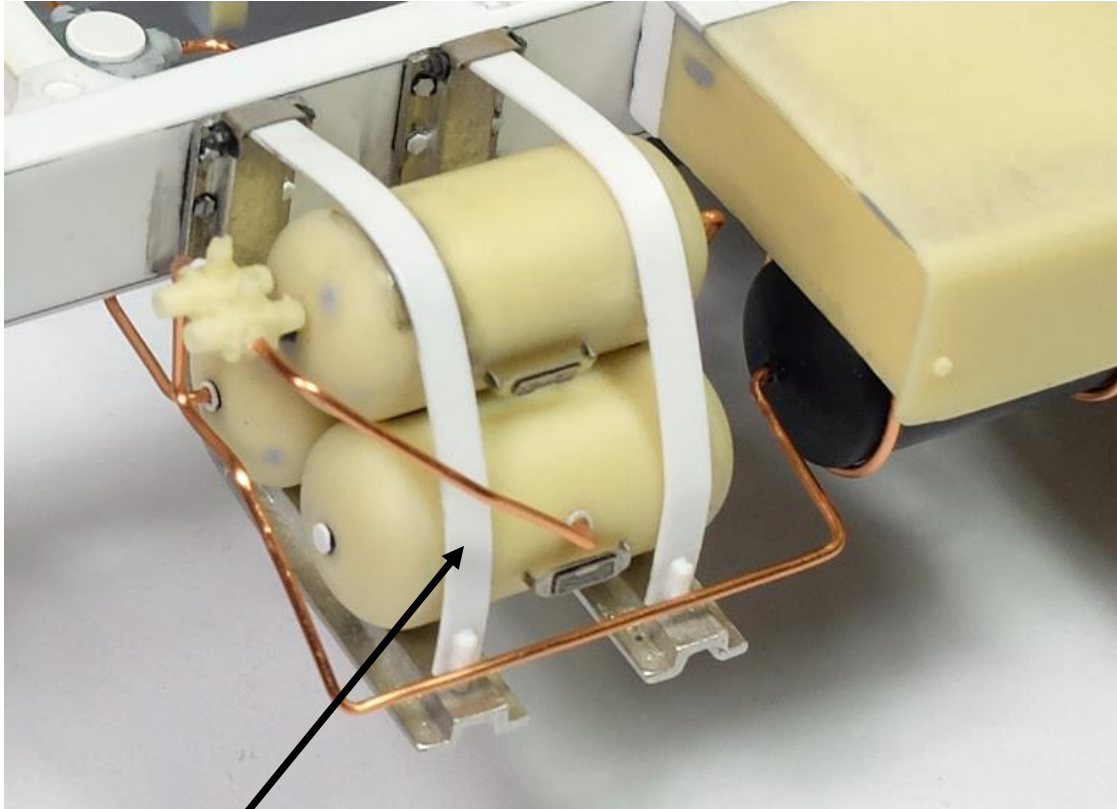
Fuel tank painting and detailing inspiration.

NOTE: The front mudguards are installed in the hole of the rear cab bracket.

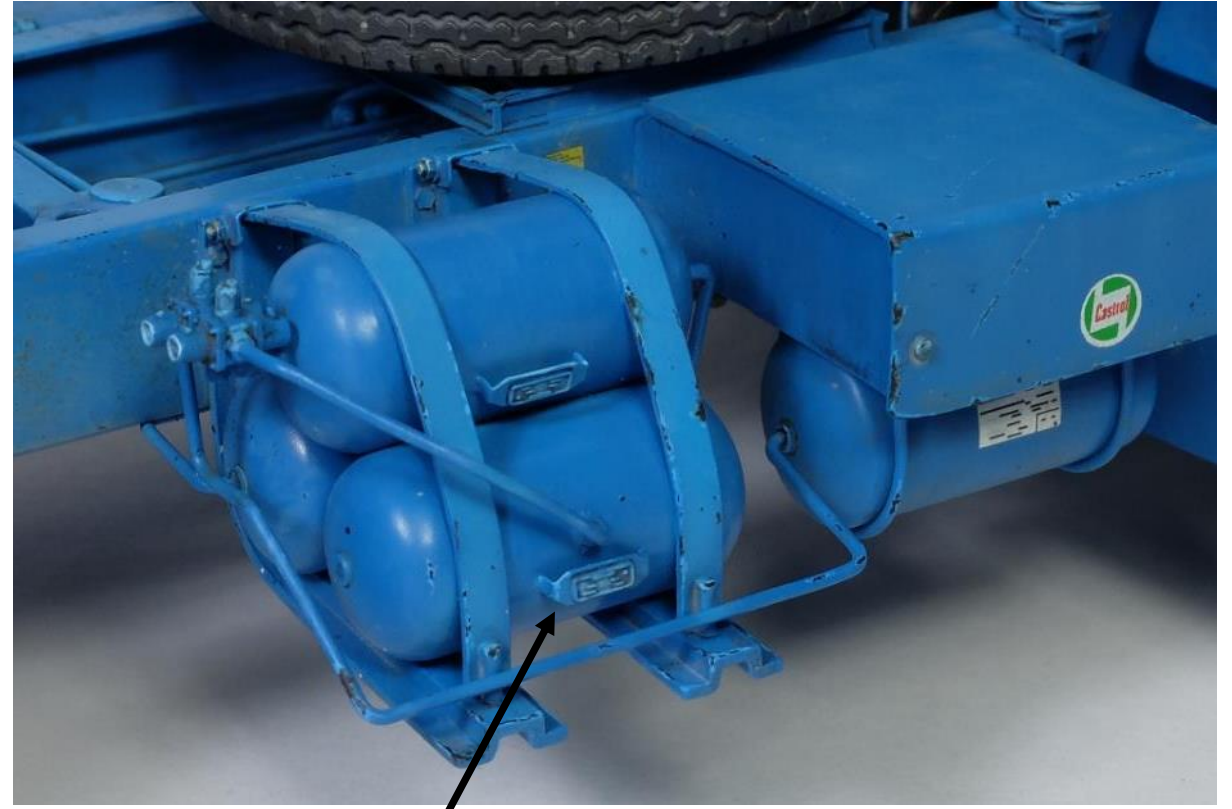


Air tank assembly

- Air tank assembly and detailing inspiration (air valves and air tank data plates not included)



USE ATTACHED PLASTIC STRIP TO SECURE AIR TANKS



CTM 24189 AIR TANK DATA PLATES

Dashboard

- Dashboard painting and detailing example



PE PAINTED DASHBOARD GAUGES WITH PE FRAMES

PLEASE NOTE: THE 4TH GAUGE ON THE SIDE OF THE DASH IS NOT A STANDARD F88/F89 FEATURE

Headlights

- Our set is equipped with photo etched light lenses, however if you prefer using clear light lenses, you can use parts from Italeri Accessories set No.720 with our light housings



F89



F88 290



F88 LATE



F88 EARLY

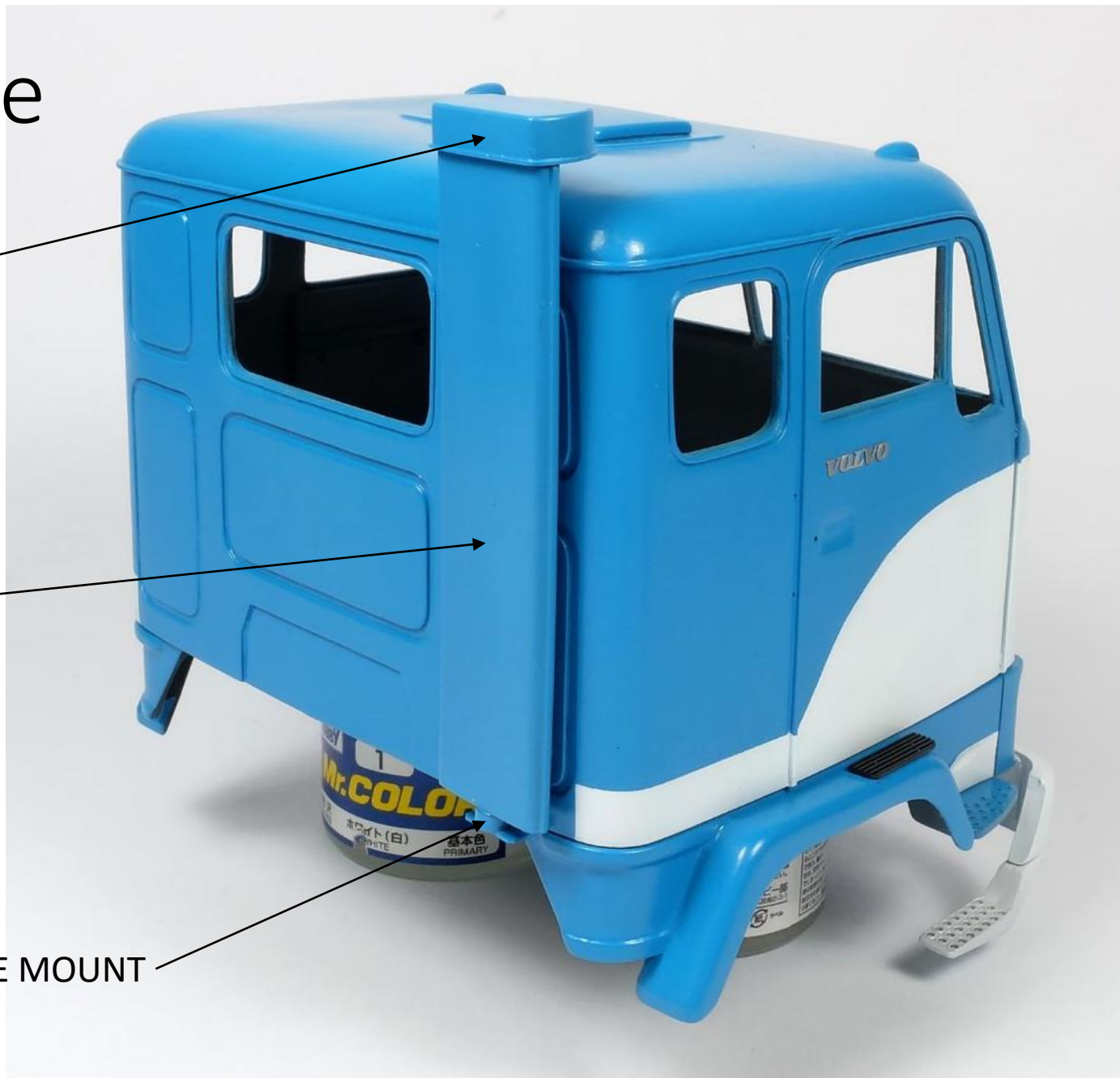


Late air intake

AIR INTAKE CAP

AIR INTAKE

AIR INTAKE MOUNT



Original kit instructions

GENERAL PRECAUTIONS & GUIDELINES

Always wear a face mask when cutting, sanding or filing polyurethane resin. Do not breath resin dust. Wash all parts in a strong solution of soapy water after preparing parts for assembly & again before painting. Use superglue or 5 minute epoxy for all resin to metal/plastic joints, sand both surfaces of all joints to ensure good bond. Standard model filler is adequate for any minor repairs. Halfords / Hycote grey or white primer is recommended as a base undercoat. This will accept any topcoat of your choice.

Resin Parts List

1 x Cab shell		
1 x Floorpan		
1 x Bumper		
1 x Dashboard		
2 x Seats		
1 x Front grill frame		
2 x Inner wings, handed left & right		
1 x Air intake pipe		
2 x Chassis quarter wings handed L&R		
1 x Fuel tank		
3 x Air tanks small		
1 x Battery box		
1 x Exhaust silencer		
2 x Wheel hubs spacer washers		
	2 x Front cab mounts handed left & right	2 x Window winder handles
	1 x Rear cab mount & susie bracket assy	2 x Exterior door handles
	1 x Steering column	2 x Front grab handles
	1 x Steering wheel	2 x Side grab handles
	1 x Gear stick	2 x Mirror heads
	1 x Air intake head	1 x Handbrake lever
	2 x Bumper steps	1 x Radiator filler cap
	2 x Air tank brackets	2 x Front side lights
	2 x Interior door pull handles	2 x Front indicators

Read instructions carefully, clean up & test fit all resin parts prior to commencing assembly

Assembly Stage 1 Chassis Preparation

- 1) Sand off all wing & fuel tank mounting detail from the FH chassis prior to assembly. Assemble the kit chassis ladder frame having first either lengthened or shortened the chassis rails to give the required wheel base. I.E. for a standard 3.5 metre wheel base tractor unit 21mm should be removed in the mid section. Make good all joints & strengthen inside the rail with additional plastic strip.
- 2) Assemble & install the kit engine & gearbox but omit the radiator, fan, cylinder head mounted filters & turbo-charger assembly. Install the 5th wheel assembly, do not fit any kit air tanks at this time.
- 3) Install the complete rear axle assembly with or without rear wings as desired.
- 4) Re-locate & install the front springs with the forward tip of the front spring front hanger bracket flush with the front face of the kit chassis rail. Assemble & install the complete kit front axle (converted to right hand drive) together with the two resin track widening washers supplied. (See pictures)

Assembly Stage 2 Cab Mountings & Chassis Fittings

1) Install the two metal front cab mounts into their locations under the cab floor. Temporarily tape the cab shell to the floor pan & with the cab upside down temporarily mount the chassis to the cab using the FH cab pins or 1/16th rod. Turn the chassis / cab the right way up & install the rear cab mount assembly. (See pictures)

2) With the cab still in position install the two chassis mounted quarter wings. (See pictures) Remove the cab assembly. Fit mudflaps of your choice.

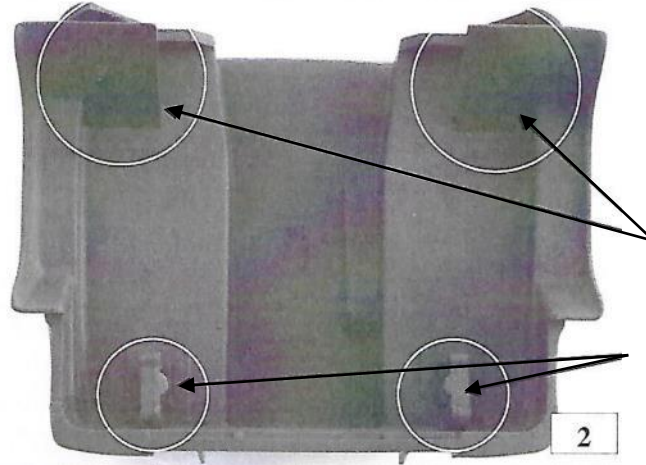
3) Make 3 fuel tank straps from the 15 x 100 strip & .030 Evergreen rod supplied. Initially these can be made over-length. Open out the bolt holes in the lower fuel tank brackets & install the straps at the bottom end first. Pull the strap around the tank & glue to the top face of the vertical bracket. Install the fuel tank assembly to the chassis. (See pictures)

4) Install the resin battery box complete with 1 of the kit air tanks mounted beneath it & in line with the chassis.

5) Assemble the 3 resin air tanks to the metal air tank brackets. Make 2 straps in the same way as the fuel tank straps & install to the air tank pack assembly. Now install the completed air tank pack to the chassis. Pipe the air tanks & remainder of the chassis as required. Note that the F88 was piped using steel piping & not plastic flexi hose. To replicate this use fine brass rod bent to shape.

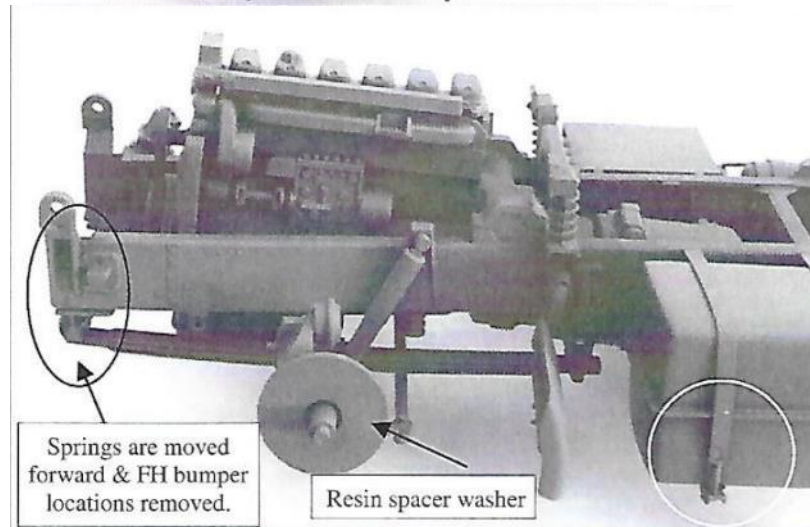
6) Install the silencer to the right hand chassis rail suspended on two thin strips of plastic & run a dummy exhaust pipe (not supplied) to the engine using pipework as available from your spares box.

7) Install the 2 metal bumper steps to the front bumper & then install the complete bumper to the chassis. Ensure the FH bumper locating lugs are removed from the chassis front edge.



Note, installation of resin inner wheel arch panels. These are handed & fit in front of the two locating bars. The bottom edges will then match the bottom edge of the outer wheel arch.

Note also, the position & orientation of the metal front cab mounts



8) Carefully drill out the location holes for the photoetch windscreen wipers, carefully fold & install.

Note on the early 240 small grill version F88 the wipers are mounted ABOVE the screen.

9) Carefully fold & install the top & bottom mirror arm brackets. Bend the mirror arms from the Plastruct TB1 rod supplied or from brass rod if you prefer. Install the mirror arms & mirror heads.

10) Fit the metal top to the resin air intake stake pipe & then install the pipe to the back of the cab.

11) To shape the photoetch sun visor first note that there are 2 snap off sections that need to be removed AFTER shaping the visor. Take a 6mm diameter rod & place this below the break line at the end of the visor. Grip the tab & rod firmly with a pair of pliers & curl the visor around the rod. Once both ends are curled sufficiently & to the same degree, bend & snap off the two tabs. Now fold the mounting tabs & install the visor above the screen.

Note, the mounting tabs can only be bent once, constant re-adjusting will cause these to break off

12) Install the head light & spot light lens's.

13) Install the VOLVO & F88 / 89 door badges as required (*VOLVO* in italic text is for early 240 version)

14) For the late model F88 290 & F89 versions install the large grill frame along with the large photoetch grill & relative badges. For the early 240 chrome grill version it is recommended that a grill spacer plate is first produced from 1mm plastic sheet. Draw around the 240 grill onto the 1mm sheet & then mark 3mm inside the line. Cut out the centre & then around the outer line so that a 3mm wide frame is produced. Trim this exactly to the profile of the 240 grill. Paint the edge of the frame silver & glue this to the back of the 240 grill before installing the assembly to the cab front.

15) For the late model F88 & F89 install the lower grill panel directly onto the angled strips on the front of the floorpan. For the 240hp version remove both of these angled strips & install the grill plate in the vertical position.

Assembly Stage 3 Cab Interior / Exterior

1) Install both seats & dashboard to floorpan, fit the 2 photoetch dial gauges to the dash main instruments. Install the handbrake lever to the side of the centre console next to the dash. Install both inner wheel arch plates.

2) Install the gear stick & steering column & wheel assembly.

3) Install the 2 photoetch internal sunvisors into the cab interior roof.

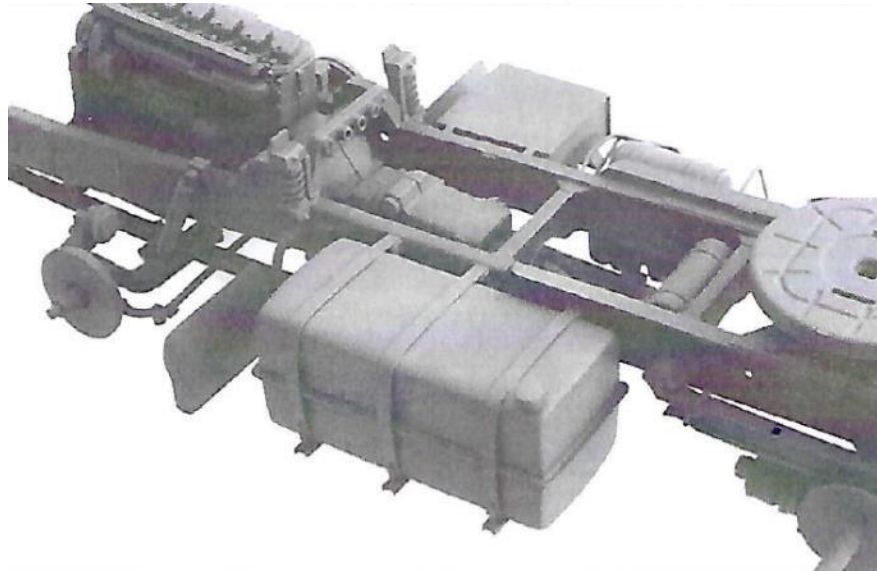
4) Install the interior door pull handles & window winders. (See picture)

5) Carefully cut out the glazing panels using the templates provided. Test fit each one & install using Humbrol Clearfix, 5 minute epoxy resin or PVA glue. Do not use superglue on glazing at any time.

DO NOT ATTACH CAB SHELL TO FLOORPAN YET

6) Carefully drill out the location holes for the front grab handles & door handles & install same. Install side grab handles.

7) Install radiator filler cap, front side lights & front side indicators. Paint indicator & side light lens's silver with black surrounds & then coat silver part of indicator lens with Tamiya clear orange.



Glazing patterns.

Tape the glazing sheet provided over the patterns & score around the template using a sharp knife & steel ruler. Cut the sheet very slightly oversize & trim back equally on all sides to achieve a snug fit into glazing apertures.

F88 UK STYLE
AIR INTAKE





Model detailing and painting inspiration: Czechoslovakian F89 model by Jan Rosecky. Original KFS kit with most modifications and updates that were incorporated into this set. Scratchbuilt frame, suspension and axles. Italeri engine.





More inspiration: original KFS F89 built and converted by Ladislav Petřík. Open door conversion, scratchbuilt body and trailer.

