Dynamic Balsa Ziroli Stuka Cockpit for B Model

Vacuform Parts

1 Dash
2 Dash Hood
3 Front Seat
4 No number 4-omitted.
5 Front Floor
6 Rear Floor
7 Front Left Side
8 Front Right Side
9 Rear Lef Side
10 Right Rear Side
11 Rear Cockpit Wall
12 Shelf for Morse Code Sender
13 Ez Four Radio
14 S6B Transmitter & E5A Receiver Cases
15 Oxygen Guage Cluster for Rear Gunner
16 Throttle Quandrant Box
17 Left Side Control Box
18 Armour Plating Brace
19 Single and Double Control Bracket for Cockpit Right Side
20 Cover for Top Rear of Gunner Section

Gun Kit

1 Main Stock (resin)
2 Barrell (resin)
3 Hand Grip (resin)
4 Bullet Cartriges (3 each) Resin
5 1/16" Aluminum Rod 4"
6 Swivel Ring (resin)
7 Swivel Ball (resin)
8 1/16" Stainless Rod, 3" lg.
9 1/4" Shoestring, 6" lg.
10 4 Self Tapping Screws
11 1/8" Plastic Rod, 1" Long

GunSight Kit

Gunsight Body (resin)
Head Rest (resin)
Plastic String . 040 x 3"
Reflecting Glass 2 x 2"
Knurled Rod, 1/4" x 1"

Resin Pieces

Gunner Seat Base
Gunner Seat Bottom
Gunner Seat Top
Trim Wheel
S6B Transmitter Front
E5A Receiver Case
Knob for Top of Target View
Panel Control Flap
Armour Plating
Morse Code Transmitter Body
3/16" Knurled Knob
Throttle Quandrant
Junction Box
Relay Boxes

Miscellanous Pieces

Roll Over Cage
Black Plastic/ Gunner Back Rest 6x8
1/16" Alum. Rod /Back Rest Belt 6"lg
Alum. Tubing, 1/16" dia. x 6" lg.
12 Large Round Pins
3 T-Pins
1/8" Aluminum Rod 6" long
3/16 Shrink Tubing 3" Long
Black String for Wire Cables, 36" Lg
1/8" PlasticTubing for Gunner Back Rest
Oxygen Hose, 3/16, 18" Long.
3/16" Plastic Round Rod, 3" lg.
2 x 2 Clear Plastic Sheet
3/8" I Beam, 5" Long
Computer Disc

Control Stick

Main Body (resin)
Stick Top (resin)
3/16" Square Plastic 1" lg.
6" of Wire
Cloth 6 x 6"
3/16" Plastic Hose, 2" lg.
1/4" Shrink Tube by 1" lg.

Ziroli Stuka JU87B 100" Instructions

Thank you for purchasing this Dynamic Balsa Interior. I think you will have as much fun as putting this in your airplane as I did designing and building mine. For reference material you can use Aero Detail #11 Stuka Also Squadron Signals Stuka Book, The Great Book of WWII Airplanes. Using these books you should be able to build this interior. I have also provided a Computer disk of my finished interior to help you out. The paint used in the interior of the Stuka was RLM 02 which is a light grey, you may also need a flat black and some red, yellow, green and white for knobs and switches. I use Testers Model Master Paint but you can use whatever you are comfortable with. If you have not built your Stuka yet you may want to redesign the formers where the cockpit goes and cut out that top crossbar and reinforce the bottom of the formers. I built this interior on top of the crutch but if you want it deeper there is enough material that you can make it to the bottom of the crutch if you like. When you cut the former sides you can leave them 5/16 to 3/8 wide and my interior covers should fit over those and it will still leave enough material for you to cut out for your stringer slots. I put the dash against the forward former in the cockpit and did not change this at all as it is close to the scale location. This cockpit was designed to be built into the airplane and after you remove your wing you should be able to get underneath the cockpit to get to your servos and controls. However it could probably be built into a box and dropped in from the top but it would take a little re engineering. Remember if you have any questions you can call us at Dynamic Balsa at 815-856-2271.

1 **FRONT FLOOR---**You will need to cut out the ar thru. You will need to put a to look thru for the bomb drop and the area where the stick comes thru. 1/16 or 3/32 1/16 or 3/32 Balsa Floor on top of your crutch for the plastic to sit on, if you are putting a pilot in this airplane you will need to beef up the pilot seat,under where the gunner sits. After doing this take the front floor and draw a line on the bottom of the floor down the center. Then Measure out from center left and right cut the floor so it fits inside the walls of your airplane.The Raised bar that goes across the floor sits approx. 3/4" of an inch behind the dash former to the front of the 1/2" wide bar. Cut a hole in the floor under the control stick approx. 1 1/4" inches square so we cut out a piece of clear plastic from miscellaneous parts. Cut the plastic 1/4" bigger on all sides next you need to paint this piece RLM 02 then glue the plastic in from the bottom. You will also need to glue 1/8" Ply in the lower left hand corner of the window approx. 1" square, this is for the window control flap control. This piece is ready to be put in but do not glue it in place until we cut and paint the rear floor and sidewalls.

2 **REAR FLOOR--** Cut this on one end 1/8" in front of the rivet line. This Rivet line will go over the front floor and up to the rivet line on the front floor. Then cut the back off to the correct length. Draw a line down the center and cut the sides so that this will fit on the floor. Then paint this piece RLM 02. Do not glue the floors in until we finish the sidewalls.

3 **LEFT AND RIGHT FRONT SIDEWALLS--** The wide pillar in the front has to line up with the cross brace on the front floor. Cut the front of the sidewall off where it meets the dash. Leave the top lip wide as you can so when you put the pieces in place draw a line on the top lip so that it matches with the outside of the airplane and then trim this off. You should trim off the bottom so that it just touches the floor, you will want to glue balsa on the backside so that you can glue these in place against the sidewalls. Paint these pieces RLM 02. You may have to notch the top lip out for the dash hood.

4 **LEFT AND RIGHT REAR SIDEWALLS**-- Cut these pieces at the front end as straight as possible so they go up against the back of the front sidewalls. Then trim off the rear so that it goes against the rear former, then trim the floor and the top lips like the front sidewalls. You may want to glue balsa to the back to help glue the sidewalls in place. Remember not to glue these pieces in yet, these will have to be painted RLM 02 also.

5 **REAR COCKPIT WALL --**Cut this out so that it fits against the rear cockpit former and paint this RLM 02.

6 **ASSEMBLY OF ABOVE PIECES --**First glue in the front floor approx. 3/4" of an inch from the front of the cross brace on the floor to the dash former. Glue in the rear floor making sure that the floor goes against the rear former. Next glue in the rear cockpit wall, glue the left and right side of the front cockpit and then the left and right side of the rear cockpit. There is also a curved piece (#20) which will have to be cut out and put around the rear of the rear cockpit top. You may want to wait until you have painted your model and then paint this RLM 02 and glue to the top of the fuse. After you have glued all these pieces in you can take a small brush and touch up any white that you see showing. Next take some red and white paint and paint the circuit breakers on the right front cockpit. The tall buttons being white and the short buttons being red. You will also want to paint grey around the edges of the dash former and the underside of the dash hood.

7 **DASH--**Cut out around the edge of the dash and cut the back off of the holes for the gauges leaving them approx. 1/16" in depth. It is easy to do this if you use a sharp razor knife. You may have to cut some off the bottoms of the right and left sides of the dash depending on where you put the floor. Test the dash in the airplane to see how it fits. You should have it going up as far as it will go. After you have cut out the dash paint the dash flat black. You will need to paint the two outside gauges of the bottom center yellow around the inside. The center gauges red around the inside. There are also 2 lights in the upper left dash that need to be painted green and the knobs for the radio in the lower right need to be painted white. Next place the dash over the gauges and make sure that all the gauges line up correctly. Cut out the thin clear plastic provided so that it covers all the holes in the dash. Tack glue this to the back of the dash using low temp hot glue or thick CA. Tack glue the gauges behind the plastic making sure that they are all lined up. Cut out 1/16" balsa and glue over the back of the gauges and sandwich the whole dash together. Take the three T-Pins provided and using thick glue fill in the gap in the top and zap with accelerator to form a rounded handle. Paint 2 yellow and one red on top. Push the yellow one thru the bump on the top left center on the dash, the other yellow handle goes in the lower right dash and the red handle goes in the middle right of the dash. Take two of the pins provided and paint the round heads red, cut off a piece of the 1/16" alum. Tubing 1/2" long and insert it over each pin and push the pins into the slot in the left and right side and bend inward. Take another pin paint it white put a 1/2" piece of alum. Tubing over the pin and push it in at the right center dash. Using some of a small plastic rod provided cut some pieces 1/16" large and make knobs for the instruments and glue in place. Using the knurled rod provided cut two pieces 1/8" long and glue in place on the left side, if you check out the computer disc provided you will be able to see where all these go. When it is finished and you are sure it fits perfect you can apply glue to the back of the dash and glue to the dash former making sure it is straight.

8 **GUNSIGHT-** The Gunsight instructions are on a separate page.

9 **SEAT-** Cut the seat out leaving the rib around the edge. On the bottom of the seat you need to glue 2 pieces of I-Beam (#14) 2 1/2" long to the bottom of the seat at 2 1/4" centers seat. Using the 1/8" rod (#7) bend a 90 degree at 2 1/2" inches and then using the 3/16" shrink tubing cut 2 pieces 1" large, put one over the end of the 2 1/2" end of the rod and shrink, then put the 2nd piece over the first piece and shrink that. That will be the handle, slide the long side thru the seat and glue so that the handle comes up at approx. 45 degrees and goes forward, this is the seat adjusting handle then paint the whole seat assembly RLM-02 except the handle end.
If you are putting a pilot in this seat you may want to put a piece of balsa between the seat and floor to help support the pilot. This seat will be glued in later.

10 **ARMOUR PLATING - (#8 resin pc)** Sand the edges and the back of this plate, the bottom of the armor plate, The bottom should go approx. 6 1/2" from the dash former and the angle should be the same angle as the split between the pilot canopy and the one behind it. It should be painted RLM-02. After you glue the bottom in use tape to hold the angle then using vacuform pieces (#18) which is a reinforcing angle cut these so that they are 1/2" on each side of the angle. Paint RLM-02. The rivet detail goes against the armor plating and the flat side goes against the cockpit wall. Glue these in place to help support the armor plating, you can cut off the length to suit. The angle of the seat should be approx. the angle of the armor plate.

11 **TARGET VIEW FLAP CONTROL --**Take the misc. pieces (#12) and resin pieces (#7) cut the resin piece to approx. 1/4" thick and glue to the top of the 3/16" rod. Drill a 3/16" hole in the lower left hand corner of the target view window. This control should stick up approx. 1 1/2" cut off approx. 2" long and stick thru the hole and glue in place. Paint the control rod black and the top of the knob white.

12 **LEFT SIDE CONTROL BOX (#17) --**Trim this box so that it is approx. 7/8" thick and glue a piece of balsa to the back of the box so it can be glued to the side wall. The box should be painted flat black. There should be two knobs in the top rear of the box. Using part number (4) alum. Tubing cut two pieces 3/8" of an inch long and slide over the two pins you are using for control levers. The inside lever is painted red and the outside lever is painted yellow. Put the pin thru the appropriate slot. Then take a piece of 3/16" plastic rod (#12) and glue a knurled knob to it (#10) this is a fine knurled knob. Cut the rod 1/4" long then glue this assembly to the front top of the control box. The 5 indicator lights on the inside of the box are red for the back two and green for the front three. Take the trim wheel (#4) sand off any excess paint black. Glue to the front top corner of the box. You can also run wires into the back of the box, this box goes approx. 3 1/2" from the dash former to the front of the box and approx. 1/2" off the floor. You should put the seat in place and see how it looks compared to the seat.

13 **LEFT SIDE THROTTLE QUANDRANT (#16)** --Take this box and trim it so it is 3/8" thick and put in a baker of balsa, take resin piece (#11) and sand it so it is square on the back. Using a hobby saw cut two slots in the large dia. Approx. 3/4" long and 1/8" apart across from each other. Using a tiny drill you need to drill two holes in the rear of the slots and one in the front of the inside slot. These holes are for the pins to glue into. Glue this resin piece on the rear upper corner of the throttle quadrant box, this would be the angled corner. This also gets painted flat black along with the whole throttle quadrant.

Take three pins and put a 3/8" long piece of 1/16" alum. Tubing over the pin and then glue into the three holes in the throttle quadrant. The front inside pin should be blue, the back inside pin should be yellow and the back outside pin should be red. You may have to cut the pins off before you glue them into the hole. Now that you are done with the throttle quadrant box you can glue it onto the side wall. It goes 3/4" in front of the left side control box and approx. 1 1/4" off the floor. You can also run some electrical cables into this box for realism.

14 **CONTROL STICK** --Refer to special page.

15 **SINGLE AND DOUBLE CONTROL BRACKETS FOR RIGHT SIDE (#19) --**Cut these out of the plastic so you cut 1/16" outside the rivets and across the ends. These go just below the canopy sill on the right side. The double one 1" behind the dash and the single one 1" behind the double one. Using the alum. Tubing (#4) cut 3 pieces 3/8" inch long and put over the pins, now stick two pins in the double control and one in the single. The double control has a black and red knob and the single has a yellow knob. These pieces should be painted flat black.

16 **DASH HOOD (#2) --**Cut out a piece of paper close to the template provided and bend for the dash hood the center of the dash hood should be 1/2" over the dash and the edges of the dash hood should come down to the window sill. The front edge of the hood should be cut at the canopy line. There should also be a notch cut in this and you can cut the notch after it is glued in place for the gunsight. The center of the gunsight is approx. 1/2" to the right of the cockpit center. this should be painted flat black.

17 **MORSE CODE TRANSMITTER (RESIN PIECES 9 AND 10 AND VACUFORM PARTS** (#12) --Cut part number 12 approx. 1 1/4" large, cut the shelf off on both ends and glue to the side wall just behind the reinforced former posts. Put approx. 1 3/8" below the canopy sill. Take part number 10 and cut 2 pieces 1/8" thick and glue one on the top of the bar and one on the center bracket. Drill a 1/8" hole on the back end for a cable. Paint this whole assembly black. You can use silver to simulate worn off paint on the knobs. The shelf needs to be painted RLM-02, then the transmitter needs to be glued onto the shelf, you can run cable into the back of the transmitter and forward to the radio boxes.

18 **RADIO BOXES (Vacuform parts # 14 and 13, resin pieces #5 and 6)** -Cut off the back of part number 13 so it is 1" thick and then cut off the back of the square hole in the front and then paint this box flat black. Tack glue a piece of clear plastic over the square hole, Then glue the gauge for this box over the plastic. Glue a piece of balsa in the back of this box so it can be glued to the left side of the fuse. It goes approx. 5" in front of the rear cockpit former and right below the canopy sill. You should also paint the half round knob on the front white. Next cut part number 14 into two pieces approx. 1 5/8" long, sand part numbers 5 and 6 so they will fit into the case cover. They should be inset approx.1/4" and glued in place. Cut off the bottom of the case so it is flush with the bottom of the front, you should also make former out of balsa and glue into the back of the case. Paint the knobs on the dials white and paint white lines on the dials for adjustment marks then stack these two on top of each other right against the armor plating in the rear section of the cockpit.

19 **JUNCTION BOX AND RELAY BOXES (Resin pieces # 12 and 13) -**Clean all the flashings off of these pieces and paint flat black. The large junction box goes near the floor of the right side just in front of the cockpit former approx. 5" in front of the rear cockpit former wall. The two relay boxes go just above the junction box and forward side by side. You can run electrical cables outside these boxes to the back of the radio boxes.

20 **GUNNER SEAT BACK -**Using the black plastic misc. pieces (#2) cut a piece approx. 3" wide and 6" long and fold over and glue together. This will be used for the seat back. After it is glued it needs to be cut approx. 5" long. 1 1/4" thick in the center and 1" thick at the edges with the fold up, the top of the seat back is flat. Using the 1/16" alum. Rod (# 3) bend in a U with each leg 1 1/4" long, using a pick punch a hole in the top of the seat back 1/8" from the edge and glue this U shaped piece into the hole so that the top of the U is flush with the top of the plastic, One leg will be out in the open and one leg will be sandwiched between the plastic. Then using the tubing provided cut two pieces 1" long and glue on the reinforced former that is 4 1/2" in front of the rear cockpit rear wall. The two pieces of alum. On the seat back should slide into the two pieces of tubing on each side of the cockpit, paint the tubing RLM-02.

21 **ROLLOVER CAGE (# 1) -**Sand the solder joints on this cage and glue wood dowels into the bottom of the tubes. You can either glue this directly onto the canopy sills but I would recommend using a piece of tubing drill a hole into the canopy sill and stick the tubing thru the sill and into the leg of the rollover cage to reinforce the cage. It should be glued onto the sill so that the angled leg is 3/8" of an inch behind the armor plate. It should be painted RLM-02.

22 **GUNNER SEAT (resin pieces #1,2,3) -**Clean the flashing off all these pieces and then glue the seat top (3) to the seat bottom (2) you can use thick CA for this and kicker, fill in some of the joints so that they look like welds. Then glue the seat base to the center of the seat bottom, this whole assembly can be painted RLM-02 and glued into the gunners compartment. The back of the seat should be even with the seat back.

23 **OXYGEN GAUGE CLUSTER (#15) C**ut the ends off this piece so that it is approx. 1 7/8" long and the gauges are centered. Cut the back off the holes and paint this piece flat black and then paint around the gauge on the left blue. This is assembled just like the dash. It glues to the right wall just behind the main cockpit former.

24 **OXYGEN HOSE (# 11 Misc. pieces)** --This glues along side of the right cockpit under the relay panel and in the rear over the relay boxes and down along side the oxygen gauge cluster.

CONTROL COLUMN FOR THE STUKA

1 Take the handle provided and cut the bottom off so there is approx. 1/8" of round stock left and drill a 3/16" hole in the bottom of the handle so it will fit over the top of the control stick. Glue this in place with the extended portion of the top facing forward. Take a piece of the 3/16" sq. provided cut a piece 1/4" long and glue onto the front of the control stick at the base of the handle. Drill a hole in the bottom of the square stock and

glue the wire provided into the square stock and down the handle. Cut a few pieces of shrink tube 1/8" wide put over the control column and shrink in place to hold the wire. You can also drill a 1/.16" hole in the very top of the handle and insert a piece of 1/16" rod for a firing button. You can paint the whole stick black and you may want to do so before you put the wire on then paint the top of the button red for the firing button.

2 To put this in the fuse you can do this two ways, if you want a moveable stick you will need to take a piece of 1/8" ply and cut it so it fits in the hole in the floor. From Underneath. Drill a hole in the plywood in the center so that the yellow plastic tubing provided will be tight. Put the tubing thru the hole so that there is approx. 3/4" of an inch sticking up above. Take the cloth provided and cut a piece approx. 4" square and cut a hole 3/16" dia. In the center of the cloth put the stick thru the cloth and into the yellow tubing in the plywood then insert the whole assembly up from underneath and glue into place. You will have a realistic control column that will move if you want you can pull alittle extra cloth out and after it is glued into place you can cut off the excess underneath.

REVI 12 D GUNSIGHT FOR 1/5 STUKA

1 Take the resin pieces and clean the flashing off and glue the pad onto the front of the gunsight level with the top. Cut two slots with your band saw at an angle for the lenses to fit into so the lenses angle at approx. 45 degrees over the projection lens, you should leave approx. 1/16" of an inch between these two slots. Cut a knob from the knurled stock provided approx. 1/4" long and glue into the bottom of the body then paint the whole assembly black, paint the lens on top silver and paint the bumper pad brown to simulate a leather cover. Next take the wire provided and drill a hole in the bottom of the body and in the upper right side run the wire from the bottom hole to the hole on the side over the top of the bumper pad, cut two square approx. 1/2" by 5/8" from the clear plastic provided and glue into the two slots into the top o the gunsight. Mount this gunsight, I usually drill a hole in the back of the body and drill a hole in the dash and glue a dowel in the back of the body and drill the gunsight into the dash. You can see a picture of this gunsight in the back of the Aero Detail Book on the Stuka or you can get some pictures of the computer disc.

Parts List:
Resin Gunsight Body
Resin Head Rest
Plastic String .40 x3
Reflecting Glass, 2x2
Knurled Knob 1/4 x 1"

Mig 15 Gun For 1/5 Scale Stuka

1 Round the bottom end of the main gunstock and make sure the barrel fits into the top end. Take the handle provided and cut the round stock off so it is just below the grip surface. Sand the thin tip part of the grip so that the grip will angle back and glue onto the main stock. The slot in the main stock should be on the right side and the grip should go all the way back on the thickness part of the stock. Using the 1/16 aluminum rod provided make the trigger guard and trigger and then glue the whole assembly together, you may want to drill holes in the stock and grip for the trigger guard and the trigger to go into. Take the 1/8" plastic rod provided and drill a 1/8" hole in front of the cocking handle slot, stick this rod into the hole and glue in place leaving approx. 1/2" stick out.

2 Next take the two pieces for the swivel assembly. Trim all the flashing off all these two pieces, the ball goes in the ring with the slot going left to right. Center the ball both ways and with a 1/16" drill thru the ears of the ring into the sides of the ball on both sides. Take the ball out of the ring and slip over the end of the barrel so that there is 1/2" of barrel sticking out of the end of the ball. Then drill a 1/16" hole 90 degrees to the other holes thru the ball thru the barrel making sure that the barrel is centered in the ball so it will swivel left and right, using the 1/16" steel pin push thru the 1/16 hole and cut off flush on both ends. Before you mount the ring on the gun you should cut a hole in the center of the gun window the same ID as the gun ring. I used a forstner bit to cut my hole and it cuts a very clean hole. Some Stuka's had the gun hole in the center and some Stuka's had the gun hole towards the bottom. Line up the ring with the hole, clamp in place and drill four small starter holes for the four screws provided. Then take apart and cut two short pins for the swivel ball to be mounted in the swivel ring. Once this assembly is done you need to take and drill a hole 1/4" down the top of the barrel for the site pin and cut and glue in place. Then glue the barrel into the gun. This whole assembly can be painted flat black or gun metal gray.

3 Cartridge boxes - Sand the cartridge holders and paint flat black. Paint the shoestring provided brown and glue onto the top of the cartridge holders, one of the cartridge holders goes over the stock of the gun just in front of the cocking handle and the other two hang inside the fuse on the rear right side. You may have to sand the inside of the gun cartridge or sand the cartridge a little and glue in place.

Parts List:

Main Stock	1/16" Aluminum Rod 4" Lg.
Barrel	1/4 Shoestring, 6" large
Handgrip	4 Self Tapping Screws, 0-1/4
Three Bullet Cartridges	1/8" plastic Rod 1" Large
Swivel Ring	Swivel Ball
1/16 Stainless Rod 4"	

Tips for a Better Cockpit Interior

1 Before cutting your pieces out of plastic you should cut a sample piece out of heavy paper or plastic maybe even cutting several pieces and taping them together to form the layout then put this over your piece, mark it and cut it out.

2 Before gluing any plastic make sure your glue is compatible with the plastic by testing it on a sample piece.

3 If there are resin molded pieces in your cockpit interior you can lighten them up by drilling them full of holes before you glue them in place.

4 For knobs and levers you can use various pins from your local sewing shop. Using different style pins for the levers and you can also cover the pins with paper or wood to simulate the real levers.

5 Before starting any cockpit interior you should purchase literature on the airplane and study the interior so you know which colors to paint and where the various switches and levers are and also what kinds of switches and levers there are.

6 If you kit has aluminum pieces in it that you have to cut you should insert a piece of wood inside before you cut or back it up with a piece of wood.

7 when you are putting an interior into a flying plane you need to make sure that it is braced and glued securely so that the vibration will not break it apart. You may even consider using a flexible glue such as silicone.

8 When you are doing an interior and you cannot put the floor in a scale location put the floor as low as you can and then cut off the bottom so the side walls and such to still give it a scale appearance.

Installing the Cockpit pieces into the Airplane

Floor- Remember to put sheeting on the floor if you are going to have a pilot and other pieces sitting on the floor. You can also put extra bracing under the floor where the pilots seat goes.

Side Walls- You should glue balsa to the back side of the molded side walls to have a solid surface to mount on.

Dash and Gunsight- Make sure the dash is securely glued in place and if you can put extra bracing where the gunsight goes. You can also put an extra dowel thru the dash and into the gunsight to help support it.

Gluing Pieces In- Make sure your glue is compatible with the plastic and if you can you should use a glue with some flexibility such as silicone or rubber based thick CA.
Also remember to remove any paint where you are gluing pieces together.

Seats- If you are using a pilot you will want to put balsa under the seat so the seat is not supporting all the weight of the pilot. You can also stick a dowel up thru the balsa and thru the seat to help secure the pilot.
After the pieces are installed you can weather the interior by rubbing small amounts of silver paint on wear areas also smearing black marker or charcoal as to where greasy areas would be.

After your cockpit is done please email us pictures of your finished work.
our email is dbalsa1@gmail.com