

Panzer IV

Assembly Instructions

General Instructions

The concept behind a Field of Armor model kit is one in which you bend metal at pre-cut areas to form the various parts of a vehicle or tank.

When these parts are bent into place tabs and corresponding holes will line up allowing pop rivets or screws to be inserted to hold the assembly together.

All metal parts will follow this basic method of bending and fastening in order to take the metal parts from a 2D state into a 3D part

1. Check that you have received all parts for your new 1/6 scale model of the Panzer IV. Go to Field of Armor's website at "www.fieldofarmortanks.com" for a complete list of all parts.
2. Wipe down all metal parts with a laquer thinner or acetone solution- Make sure when doing so that there are open flames or embers that may cause a fire while doing this.
3. At certain stages of assembly you may want to pre-paint some areas so that you don't have to dis-assemble parts of your work later. For example all the running gear pieces, the Chassis side wall they install against and the well under the fenders. **NOTE:** DO NOT paint any surface that you will be gluing something to.
4. Effort should be taken not to lose any of the perforated metal pieces that remain in the flat metal structures (please note that some of these pieces may have come loose during shipping) as some are used as actual parts such as hatches and doors and some are to remain in place.
5. Any additional parts and materials over and above those listed in the parts section of these Instructions and that may be obvious in the instruction photographs are the responsibility of the purchaser.
6. Should you receive a chassis that has come apart during shipping or comes apart from bending and re-bending (the seams are designed to be bent several times before coming apart but always bend the along the seams slowly as to not over heat the stitching) do not be too concerned as it can be easily repaired by using some scape 20 gauge metal cut into strips approximately 1/2 " x 2" - 2 1/2" long. Bend the strip to 90 degrees or to suit the angle being repaired and drill 1/8" holes to accept Pop Rivets. Place the angle over the area to be repaired spaced at 4" - 6" intervals and drill matching holes in the metal pieces being repaired. Secure with Pop Rivets. See Figures 6a, 6b and 6c below.



Figure 6a

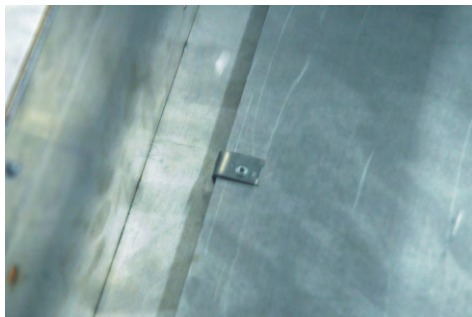


Figure 6b

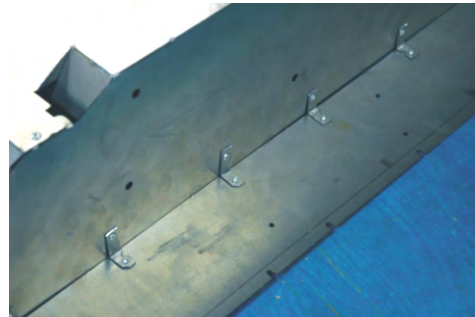


Figure 6c

Panzer IV

Assembly Instructions

General Instructions

7. Fill any holes and gaps with Bondo. Remove excess Bondo from surfaces using an exacto knife blade or something similar once it has set up but not hardened completely. When the Bondo has hardened sand smooth with a fine grit sandpaper.
8. It is recommended that the modeler use Super-glue when gluing Resin or Plastic Parts to other Resin or Plastic parts. When gluing Resin or Plastic Parts to Metal make sure that the Metal is free of grease and/or oil and glue using Epoxy.
9. Some Resin parts when they come out of the molds tend “naturally” to take on a slight curve - should you encounter any such parts in your kit this can be eliminated by applying moderate heat and adjusting the part to its proper configuration.
10. For handles (not provided) to Engine Access Doors, Commander’s Hatch (Cupola), Combat Compartment Access Doors and top of Superstructure Access Hatches it is suggested the modeler drill holes in the metal (in the approximate location shown in the photographs) to accept a bent 1/16th inch copper wire and secure in place with Epoxy (See Figure A).



Figure A

11. Using a piece of scrape metal it is advisable to create a stop for the Engine Access Doors , Combat Compartment Access Doors and top of Superstructure Access Hatches and the Brake Access Covers by Pop Riveting it to the underside of the opening and protruding into the opening (see Figure B). On larger doors (i.e. Engine Cover Deck Doors) or those that don’t seat properly you may want to create a stop on the two sides of the opening as well.

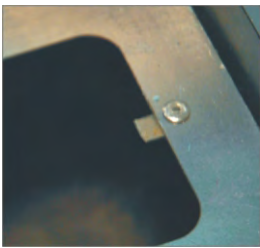


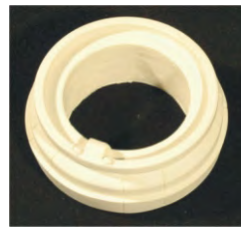
Figure B

12. Some parts will require sanding before application.
13. Sand the metal surface area to which a part is to be applied and also when securing metal to metal. This will ensure a more secure bond.
14. All references to left and right assumes you are sitting in the tank facing forward.

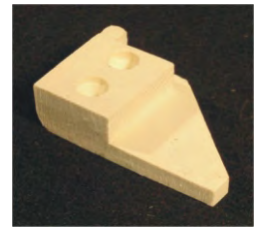
Panzer IV Parts

Bag 1 Contents (23 Parts - 33 Pieces)

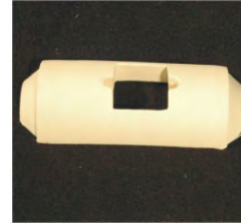
Note : Quantity of part indicated in ()



(1) Cupola
BRA001-401R



(1) Air Cleaner
Housing
BRA001-402R



(1) Mantlet Housing
BRA001-403R



(2) Turret Door
BRA001-404R



(2) Turret Door
BRA001-405R



(1) Barrel Step Down
BRA001-407R



(2) Muzzle Break
BRA001-408R



(4) Turret Door
BRA001-409R



(3) Turret Rotate
Guide
BRA001-410R



(1) Turret Air Vent
Top
BRA001-411R



(1) Turret Air Vent
Bottom
BRA001-412R



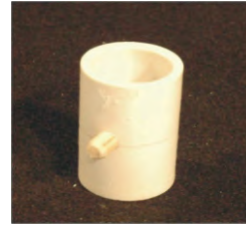
(1) Cupola Hatch
BRA001-416R



(1) Left Side
Hatch
BRA001-417R



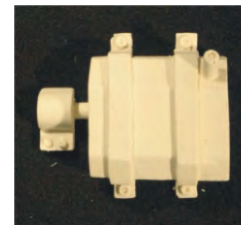
(1) Right Side
Hatch
BRA001-418R



(1) Turret Elevation
Back Piece
BRA001-426R



(1) Air Vent Cover
BRA001-427R



(1) Turret Motor
BRA001428R



(1) Armored View
Cover
BRA001429R



(2) Front Tow
Shackle
BRA001-432R



(2) Armor Side
View Port
BRA001-433R



(1) Ball Machine
Gun Mount
BRA001-434R



(1) Armor Visor
Bottom
BRA001-436R



(1) Armor Visor
Top
BRA001-437R

Panzer IV Parts

Bag 2 Contents (14 Parts - 21 pieces)

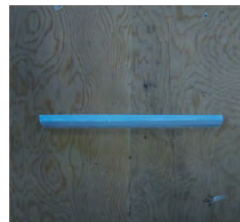
Note : Quantity of part indicated in ()



(1) Turret Machine Gun
BRA001-413R



(1) Small Vent Cover
BRA001-414R



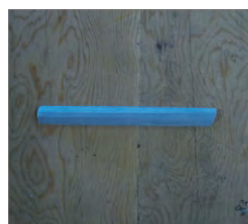
(2) Long Turret Bullet Splash
BRA001-419R



(1) Medium Bullet Splash
BRA001-420R



(1) Small Square End Turret Splash
BRA001-421R



(1) Small Single Angle Turret Splash
BRA001-422R



(1) Small Turret Splash
BRA001-423R



(1) Large Turret Splash
BRA001-424R



(4) Turret Door Hinge
BRA001-425R



(2) Rear Tow Hook Brace
BRA001-430R



(2) Rear tow Hook
BRA001-431R



(1) Antenna Mount
BRA001-435R



(2) Lifting Hook
BRA001-438R



(1) Hull Machine Gun
BRA001-439R

Bag 3 Contents 2 Parts - 8 Pieces

Note : Quantity of part indicated in ()



(4) Hinge Body
BRA001-405R



(4) Hinge Tab
BRA001-406R



Hinge Assembly
How it should look when the two parts are assembled.

Panzer IV Parts

Bag 4 Contents (1 Part - 36 Pieces)

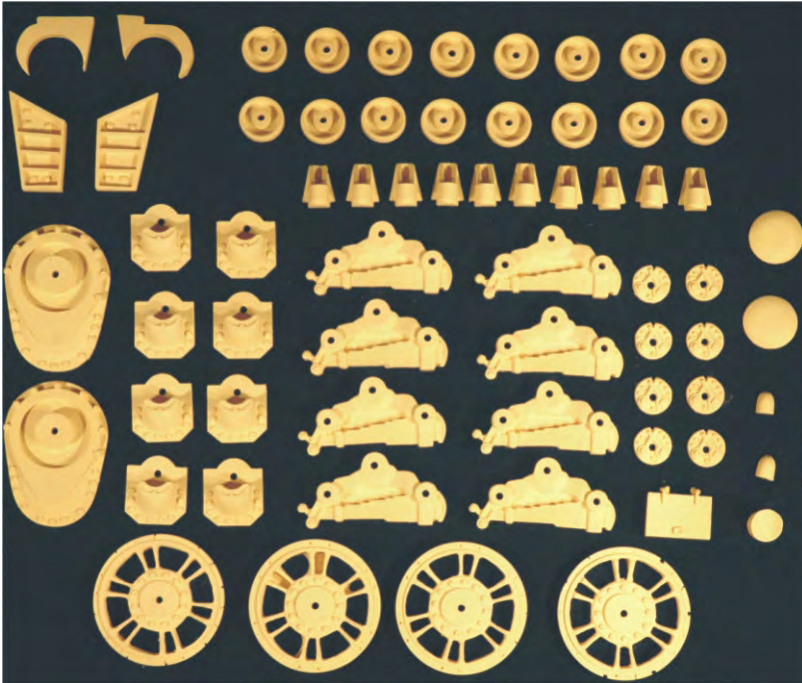
Note : Quantity of part indicated in ()



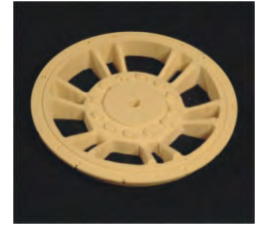
(36) Road Wheel
BRA001-601R

Bag 5 Contents (16 Parts - 66 Pieces)

Note : Quantity of part indicated in ()



(8) Suspension Block
BRA001-602R



(4) Drive Wheel
BRA001-603R



(1) Radiator Fill
Box
BRA001-604R



(1) Right Side Idler
Brace
BRA001-605R



(1) Left Side Idler
Brace
BRA001-606R



(1) Muffler Exhaust
Tube
BRA001-607R



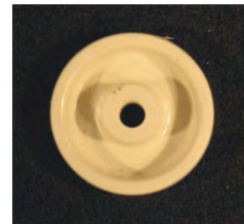
(2) Muffler End
Caps
BRA001-608R



(1) Muffler Right
Bracket - Large
BRA001-609R



(1) Muffler Left
Bracket - Large
BRA001-610R



(16) Return Roller
BRA001-621R



(8) Suspension
Block Cover
BRA001-622R



(8) Suspension Arm
BRA001-623R



(10) Bumper
BRA001-624R



(2) Drive Gear
Housing
BRA001-625R



(1) Headlight
BRA001-636R

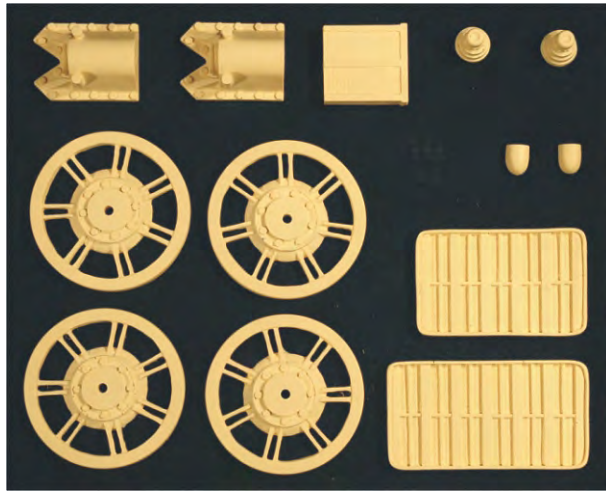


(1) Headlight
Bracket
BRA001-637R

Panzer IV Parts

Bag 6 Contents 7 Parts - 13 Pieces)

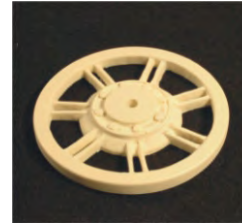
Note : Quantity of part indicated in ()



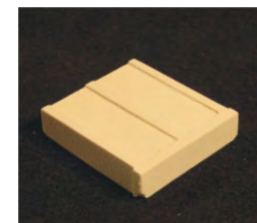
(1) Large Engine Grill
BRA001-613R



(1) Small Engine Grill
BRA001-614R



(4) Idler Wheel
BRA001-615R



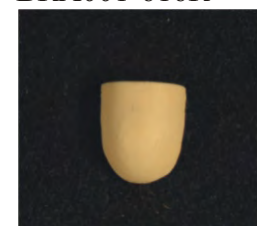
(1) Wooden Jack Block
BRA001-616R



(2) Idler Mount
BRA001-617R



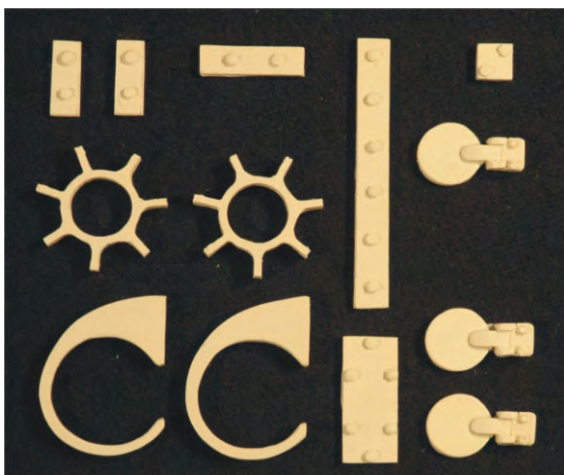
(2) Idler Mount Cap
BRA001-618R



(2) Brake Access Cover Vent
BRA001-620R

Bag 7 Contents (8 Parts - 13 Pieces)

Note : Quantity of part indicated in ()



(2) Thin Muffler Bracket
BRA001-611R



(2) Idler Spacer
BRA001-612R



(3) Chassis Service/Hatch/Gas Cap
BRA001-626R



(1) Rear Bolt Detail #1
BRA001-628R



(2) Rear Bolt Detail #2
BRA001-629R



(1) Rear Bolt Detail #3
BRA001-630R



(1) Rear Bolt Detail #4
BRA001-631R



(1) Rear Bolt Detail #5
BRA001-632R

Panzer IV Parts

Bag 8 Contents (1 Part - 212 Pieces)

Note : Quantity of part indicated in ()



(212) Tack Pin
BRA001-901P

Bag 9 Contents (1 Part - 212 Pieces)

Note : Quantity of part indicated in ()



(212) Track Link
BRA001-902P

Bag10 Contents (3 Parts - 4 Pieces)

Note : Quantity of part indicated in ()



(1) Barrel First Step
BRA001-440T



(1) Barrel Counter
Balance
BRA001-442T



(2) Air Cleaner
Tubes
BRA001-443T

Bag11 Contents (1 Part - 1Pieces)

Note : Quantity of part indicated in ()



(1) Muffler Body
BRA001-444T

Panzer IV Parts

Bag12 Contents (1 Part - 1Piece)

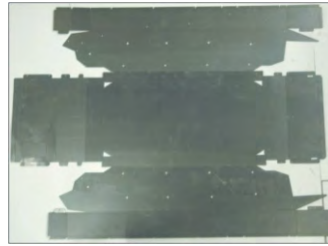
Note : Quantity of part indicated in ()



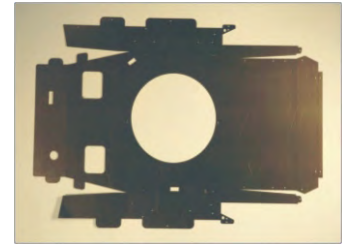
(1) Barrel
BRA001-441T

Bag13 Contents (4 Parts - 4 Pieces)

Note : Quantity of part indicated in ()



(1) Chassis
BRA001-706A



(1) Upper Deck
BRA001-706B



(1) Turret
BRA001-706C



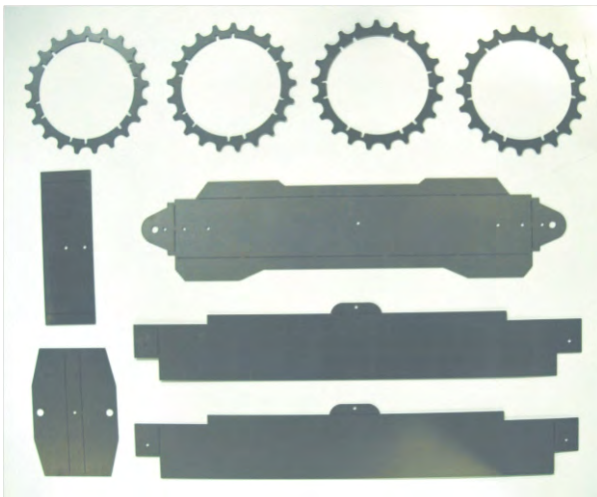
(1) Turret Bottom
BRA001-706D



(2) Return Roller
Axle Support
BRA002-719M

Bag14 Contents (6 Parts - 10 Pieces)

Note : Quantity of part indicated in ()



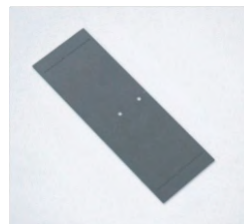
(4) Metal Drive
Sprocket
Wheel Attachment
BRA001-700M



(2) Internal Deck
Brace
BRA001-707M



(1) Towing Bracket
BRA001-702M



(1) Towing Bracket
Housing
BRA001-703M



(1) Idler Axle
Bracket
BRA001-704M

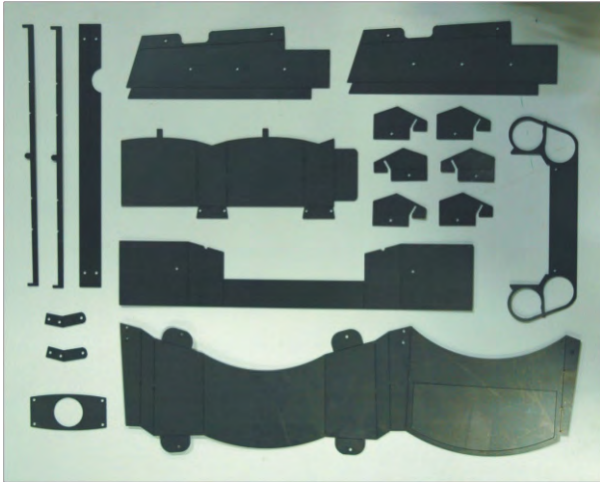


(1) Rear Brace
BRA001-705M

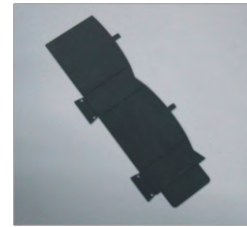
Panzer IV Parts

Bag15 Contents (11 Parts - 20 Pieces)

Note : Quantity of part indicated in ()



(1) Barrel Housing Front Plate
BRA001-501M



(1) Barrel Housing
BRA001-503M



(1) Bustle
BRA001-506M



(2) Bustle Bracket
BRA001-507M



(1) Extra Wheel Holder
BRA001-508M



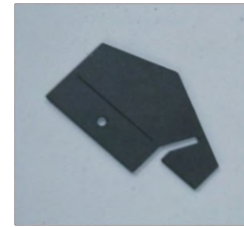
(2) Air Intake Manifold
BRA001-509M



(2) Rear Fender Brace
BRA005-705M



(1) Mantlet
BRA001-536M



(6) Intake Manifold Fins
BRA001-510M



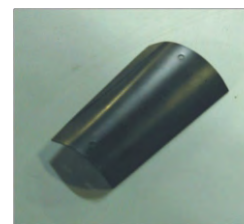
(1) Air Cleaner Holder
BRA001-511M



(2) Bullet Splash Ring
BRA001-534M

Bag 16 Contents (4 Parts - 4 Pieces)

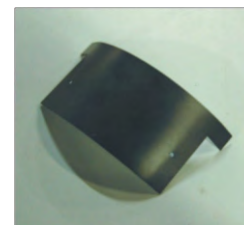
Note : Quantity of part indicated in ()



(1) Rear Turret Brace
BRA001-502M



(1) Bustle Front
BRA001-504M



(1) Bustle Back
BRA001-505M

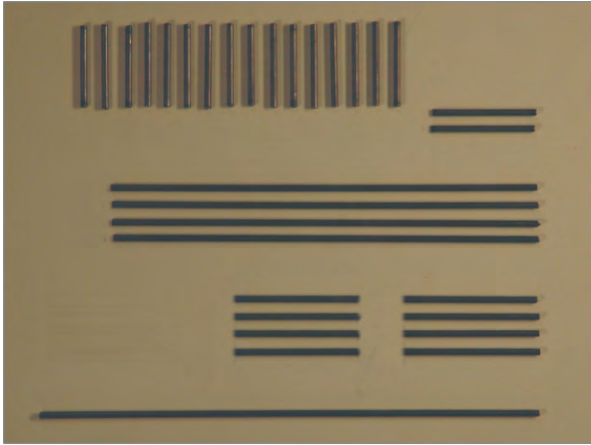


(1) Turret Bullet Splash Ring
BRA001-535M

Panzer IV Parts

Bag17 Contents (5 Parts - 31 Pieces)

Note : Quantity of part indicated in ()



3" Bogey Axle - 16 Pieces -BRA001-801M

3.75" Idler Axle - 2 Pieces - BRA001-802M

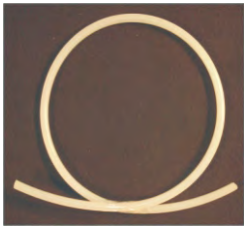
15.5" Suspension Axle - 4 Pieces - BRA001-803M

4.75" Return Roller Axle - 8 Pieces - BRA001-804M

18" Drive Axle - 1 Piece - BRA001-805M

Bag 18 Contents (1 Part - 1 Piece)

Note : Quantity of part indicated in ()



(1) Spacer Material - 36" Length
BRA001-806T

Bag 19 Contents (1 Part - 50 Pieces)

Note : Quantity of part indicated in ()



(50) 1/4" Push Nut
BRA001-807M

Bag 20 Contents (1 Part - 50 Pieces)

Note : Quantity of part indicated in ()



(50) 4-40 x 1/4" Screw (machine)
BRA001-808M

Panzer IV Parts

Bag 21 Contents (1 Part - 60 Pieces)

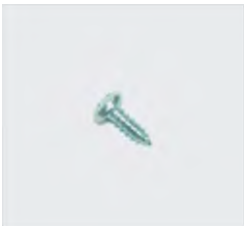
Note : Quantity of part indicated in ()



(60) 1/8" x 1/4"
Aluminum Pop Rivets
BRA001-809M

Bag 22 Contents (1 Part - 20 Pieces)

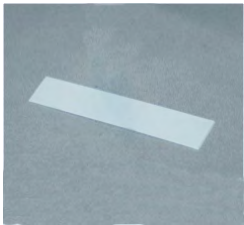
Note : Quantity of part indicated in ()



(20) #6 1/2" (Sheet Metal)
BRA001-810M

Bag 23 Contents (1 Part - 1 Piece)

This part supplied with all tanks purchased after Feb 20, 2007.



1 1/2" x 7" x 1/16"
Styrene
BRA001-811P

Bag 24 Contents (4 Parts - 22 Pieces)

This part supplied with all tanks purchased after Feb 20, 2007.



(2) Brake Access Panel
Hinge Half (Male)
BRA005-432R



(2) Brake Access Panel
Hinge Half (Female)
BRA005-433R



(8) Hinge Half (Male)
BRA005-434R



(8) Hinge Half (Female)
BRA005-435R

Panzer IV Parts

Bag 25 Contents (1 Part - 1 Piece

Note : Quantity of part indicated in ()



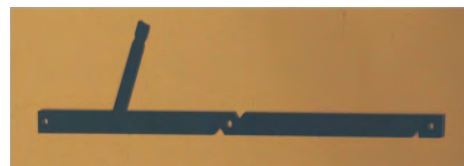
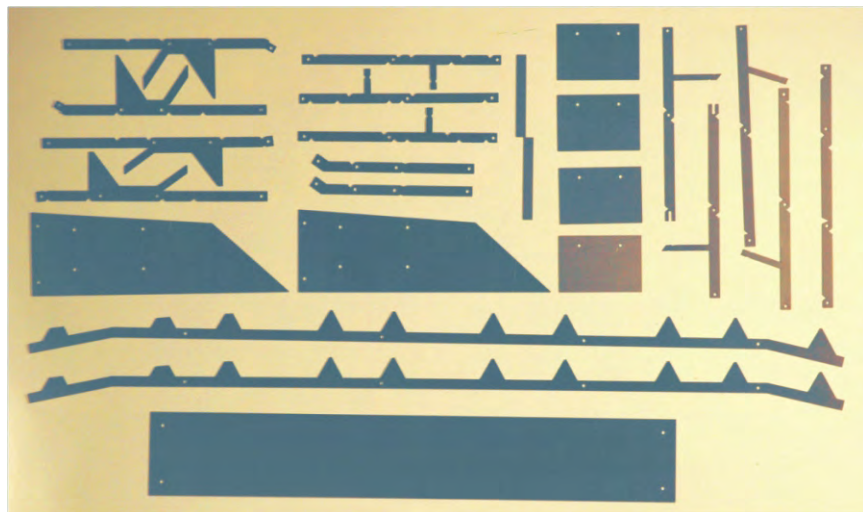
(1) Instruction CD
BRA001-ICD

Panzer IV Parts

Turret Schuertzen (Accessory Package "A")

Bag 23 Contents (12 Parts - 24 Pieces)

Note : Quantity of part indicated in ()



(2) Upper Deck (Hull) Side Shield Bracket (Front)
BRA001-S522M



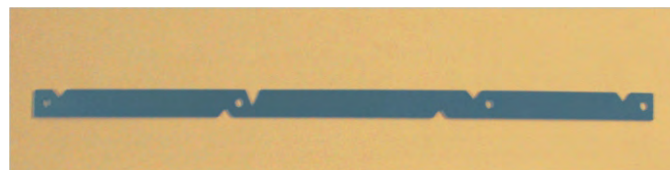
(3) Upper Deck (Hull) Side Shield Bracket (Middle)
BRA001-S523M



(2) Upper Deck (Hull) Side Shield Bracket (Rear)
bra001-S526M



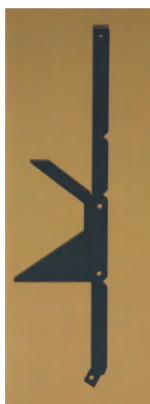
(1) Rear Turret Shield
BRA001-S516M



(1) Upper Deck (Hull) Side Shield Bracket (Middle - Special)(At Air Cleaner)
BRA001-S525M



(2) Turret Side Shield Bracket (Rear)
BRA001-S512M



(2) Turret Side Shield Bracket (Center)
BRA001-S513M



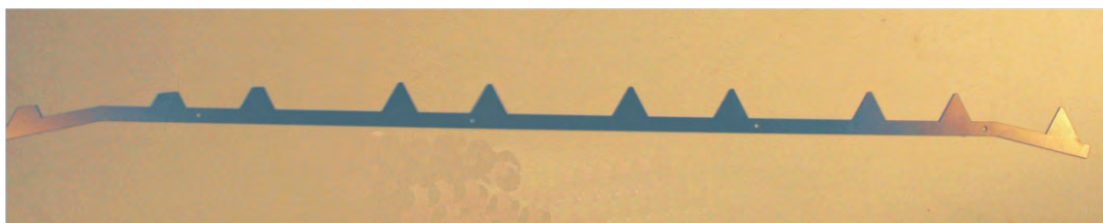
(2) Turret Side Shield Bracket (Front)
BRA001-S514M



(2) Turret Side Shield
BRA001-S517M



(1) Door Latch
BRA001-S519M



(2) Side Shield Hanger
BRA001-S521M



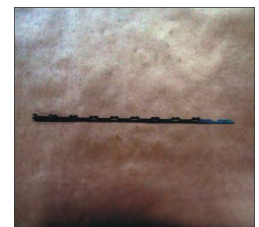
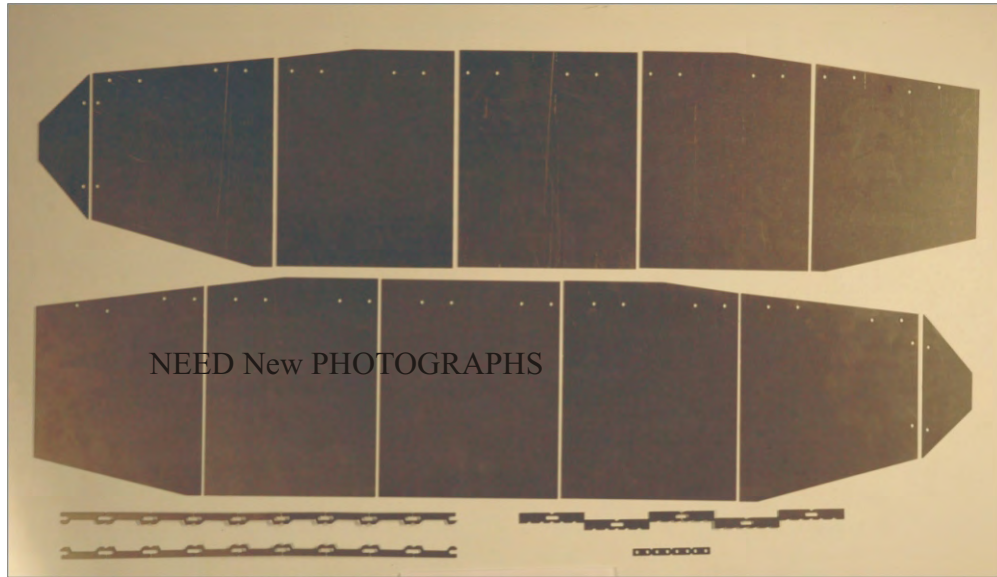
(4) Door
BRA001-S518M

Panzer IV Parts

Side Schuerten (Accessory Package “B”)

Bag 24 Contents (9 Parts - 16 Pieces)

Note : Quantity of part indicated in ()



(2) Side Shield Attachment Clip
BRA001-S515M



(1) Fender Spacer
BRA001-S520M



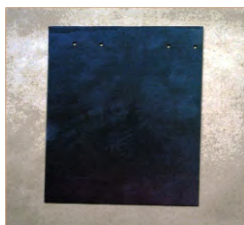
(1) Front Side Shield Fastener
BRA001-S527M



(2) Side Skirt Panel #5
BRA001-S528M



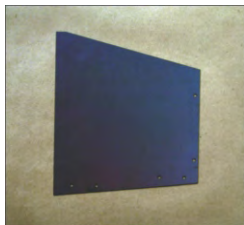
(2) Side Skirt Panel #4
BRA001-S529M



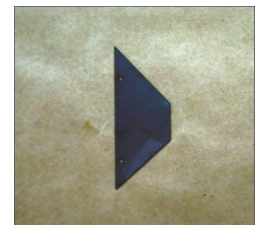
(2) Side Skirt Panel #3
BRA001-S530M



(2) Side Skirt Panel #2
BRA001-S531M



(2) Side Skirt Panel #1B
BRA001-S532M



(2) Side Skirt Panel #1A
BRA001-S533M

Panzer IV Assembly Instructions

Chassis

Welcome to the world of “Battle Ready Armor”

Step 1. After opening the large bundled package (Bag 1) of metal parts and containing four parts in all, begin with the longest of the four pieces which is the main chassis piece (See Figure 1).

Note: This piece is folded in a particular manner and to avoid these pieces from breaking apart during assembly, you should only unfold it as illustrated below



Figure 1

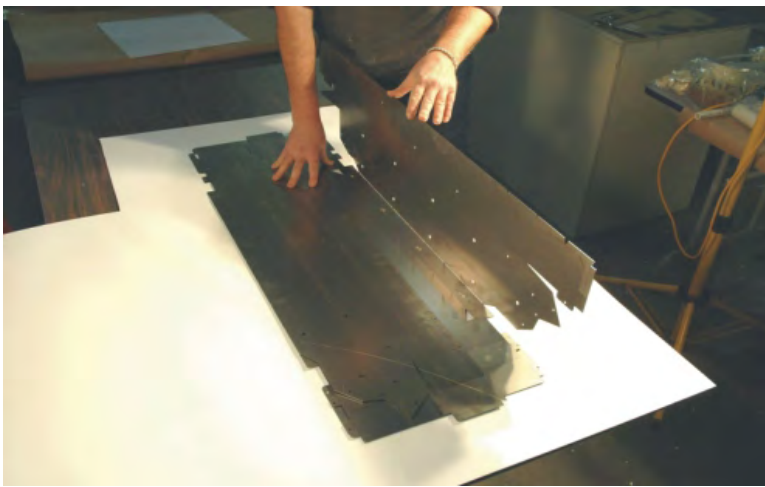


Figure 2



Figure 2a

Step 2. Fold out the side piece that lays on top raising it up at the seam just below the lower row of axle holes to a 90 degree angle to the bottom (See Figures 2 and 2a) .

Step 3. Raise the other side to a 90 degree angle (See Figure 3).

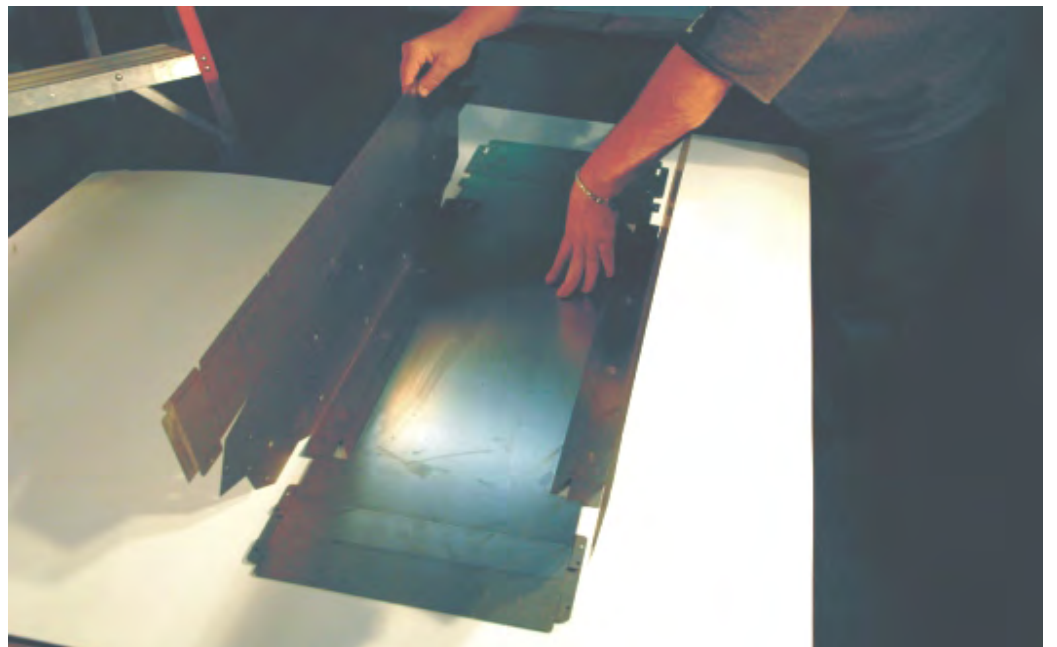


Figure 3

Panzer IV Assembly Instructions

Chassis



Figure 4a

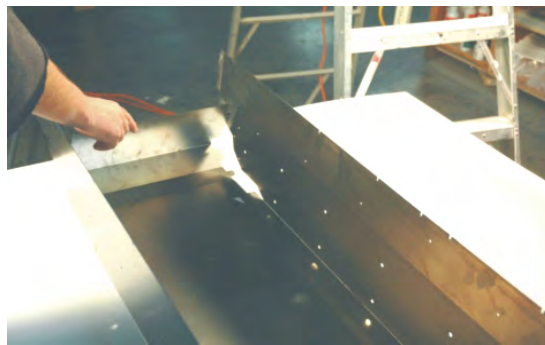


Figure 4c



Figure 4b

Step 4. Raise the end pieces of the chassis and begin to shape them to match the pop rivet holes. (See Figures 4a, 4b, 4c and 4d.)



Figure 4d



Figure 5a



Figure 5b

Step 5. Raise the tabs at the four corners. See Figures 5a and 5b.

Step 6. Bend pop rivet tabs to 90 degrees. See Figures 6a and 6b.



Figure 6a



Figure 6b

Panzer IV Assembly Instructions

Chassis

Note: Creating the bottom stiffener channels is a bit tricky and when the operation is complete they should protrude from the bottom exterior rather than into the interior..



Figure 7

Step 7. Now that we have the tabs bent ready to receive the pop rivets - before you actually secure anything you must create the bottom stiffener.

Place the bottom of the chassis body on a flat surface and move it to the edge along the inner most seam. Bend the entire side down to a 90 degree angle.

(See Figure 7)



Figure 8a

Step 8. Holding the narrow side securely in place, bend the entire side back up at the next seam outward to a 90 degree angle to create the stiffener channel. See Figures 8a and 8b.



Figure 8b

Note: Repeat steps 7 and 8 on other side.

Important Note: Make sure that you have the tabs in the four interior corners of the Chassis bottom (see **Step 5**) raised as shown here in Figure 8c.



Figure 8c

Panzer IV Assembly Instructions

Chassis

You are now ready to begin too secure the sides and the ends together with pop rivets.

Step 9. Making sure that you have bent all the appropriate tabs as discussed in step 6, line up the holes in the body sides with the holes in the tabs of the end piece tabs (their alignment should be self evident) and get your pop rivet gun ready. See Figures 9a, 9b and 9c.

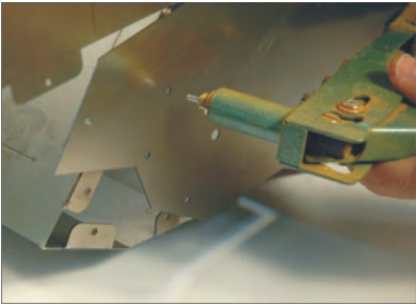


Figure 9a



Figure 9b



Figure 9c



Figure 9d

Note: When the pop rivet is in place it should look like those in Figure 9d.

Step 10. Complete pop riveting of all tabs for both the front and rear panels to the sides. When that is completed your chassis should look as the one in Figure 10a.

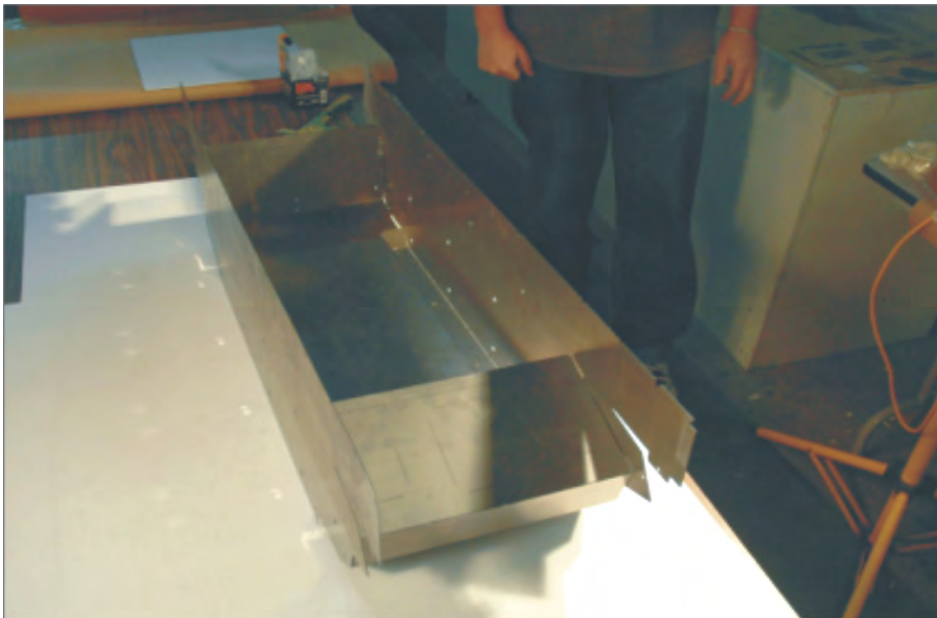


Figure 10a

Panzer IV Assembly Instructions

Chassis

Step 11. Before bending the track fender into place bend the flaps along the edge down at a 90 degree angle to what will become the fender top .

(See Figures 11a, 11b and 11c)

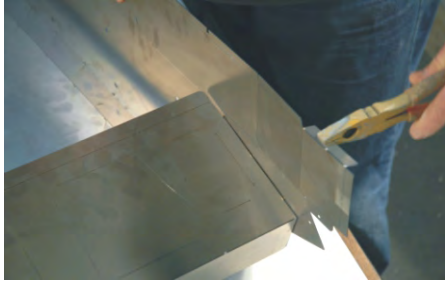


Figure 11a



Figure 11b



Figure 11c

Step 12. Bend the fender down at a 90 degree angle to the Chassis body to create the fender top.

(See Figures 12a and 12b)



Figure 12a



Figure 12b

Step 13. Bend down the tab on the fender fronts (See Figure 13a) and then bend down the fender fronts themselves (See Figure 13b) to an angle that is consistent with the pop rivet hole (See Figure 13c) in the Chassis body. Align the pop rivet holes and secure with a pop rivet (See Figure 13d).



Figure 13a



Figure 13b



Figure 13c



Figure 13d

Note: When this step is completed the fender fronts should look like Figure 13e.



Figure 13e

Panzer IV

Assembly Instructions

Chassis

Step 14. T Bend down the tab on the fender backs as you did on the fender fronts and then bend down the fender backs themselves (See Figure 14a) to an angle that is consistent with the pop rivet hole (See Figure 14b) in the Chassis body. Secure with a pop rivet (See Figure 14d). The end result should look like Figure 14d.



Figure 14a

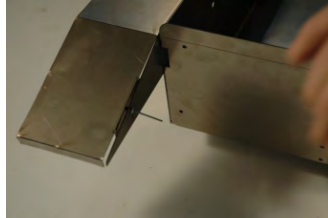


Figure 14b



Figure 14c

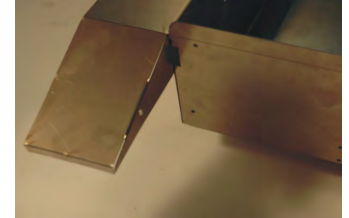


Figure 14 d

Step 15. Locate the Rear Fender Braces as shown in Figure 15a and bend the tabs so that they are at 90 degree angles to the triangular brace (see Figure 15b).



Figure 15a



Figure 15b

NOTE: Bend the tabs on the two pieces so that one has the tabs bending to the left and the other bends them to the right so that when completed they are a mirror image of one another.

Step 16. Align the holes in the Rear Fender Brace with the hole in the chassis located just under the fender at the rear as shown in Figure 16a and 16b and secure in place with Pop Rivets. Align the hole in the Rear Fender Bracket and the hole in the top fender and secure with a Pop Rivet (see Figure 16c).



Figure 16a



Figure 16b



Figure 16c

Step 17. Bend the tabs on the front panel down to be at a 90 degree angle to bottom of the Chassis body (see Figure 17a). Bend the tab on the rear panel down to be at the same angle (flush with) top of the fenders (See Figure 17b).



Figure 17a



Figure 17b

Panzer IV

Assembly Instructions

Chassis

Step 18. Locate the two (2) Return Roller Axle Supports (see Figure 18a) and bend each end into the configuration shown in Figure 18b. Bend the center tab to the configuration shown in 18c. When completed the pieces should resemble the piece shown in Figure 16d.

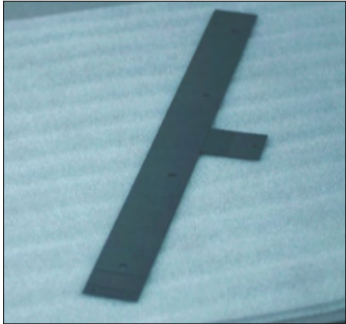


Figure 18a

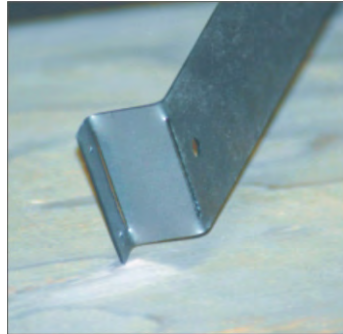


Figure 18b

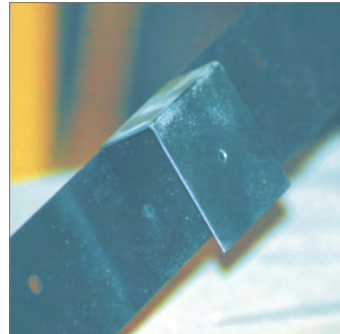


Figure 18c

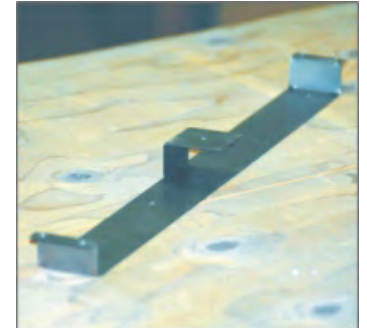


Figure 18d

Step 19. Install the Return Roller Support Axle - one to either side of the Chassis as shown in Figure 19a. Secure in place using Pop Rivets. The Pop Rivets should be installed from the outside as shown in Figure 19b. Prior to installing all the Pop Rivets ensure the Return Roller Support Axle is in the correct location by installing a 4.75" Return Roller Axle (see Figure 19c) and make sure it is at a 90 degree angle to the body.



Figure 19a



Figure 19b



Figure 19c

Note: When complete the assembly of the Chassis body should appear as it does in the photograph (Figure 19d) to the right.

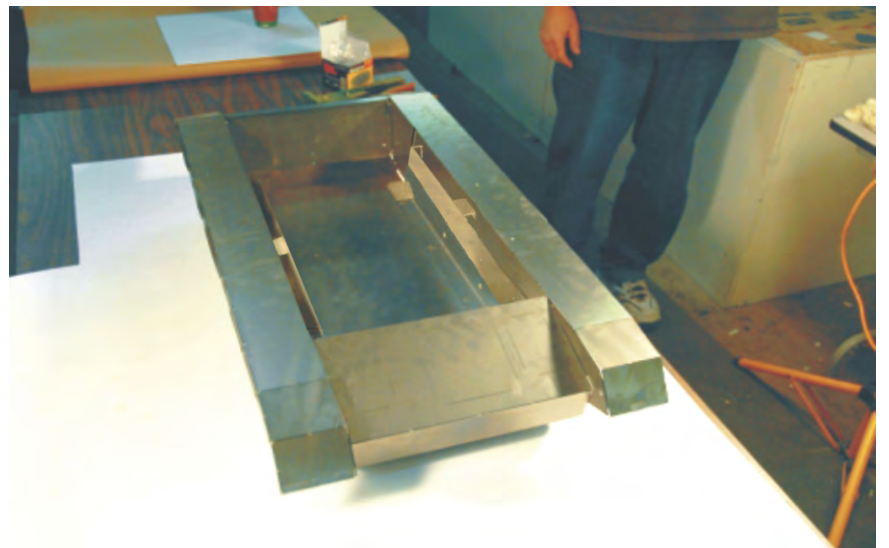


Figure 19d

Panzer IV Assembly Instructions

Upper Deck

Note: If you are at this point then you have already completed the basic assembly of the Chassis.

Step 1. Lay the Upper Deck out on your work table.



Figure 1a

Note: This piece is folded in a particular manner and to avoid these pieces from breaking apart during assembly, you should only unfold it as illustrated below.

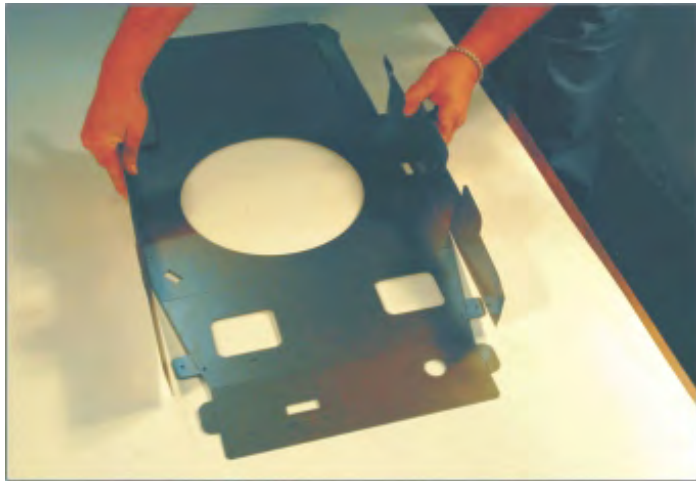


Figure 2a

Step 2. Raise the two Upper Deck sides to a 90 degree angle with the underside of the Upper Deck top (See Figure 2a). Raise the two small tabs to the front of the assembly to the same 90 degree angle as the sides (See Figure 2b),



Figure 2b

Step 3. Bend the tab at the front of the Upper Deck to align with the pop rivet holes on the side piece.

Note: Also bend up the tabs on the vertical front panel. That being the one adjacent to the thumb in Figure 3a.

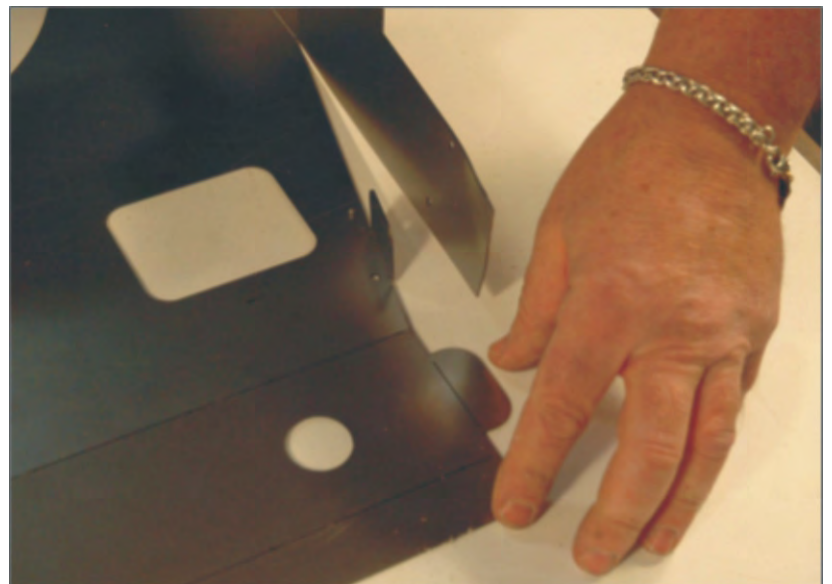


Figure 3a

Panzer IV

Assembly Instructions

Upper Deck

Step 4. Having bent the tabs up to a 9- degree angle on the front vertical panel, now bend up the front vertical panel (See Figure 4a) to almost 90 degrees. Pull in the Upper Deck side pieces and secure them to the tabs you bent up on the top panel of the Upper Deck in step 3 with pop rivets. (See Figure 4b).

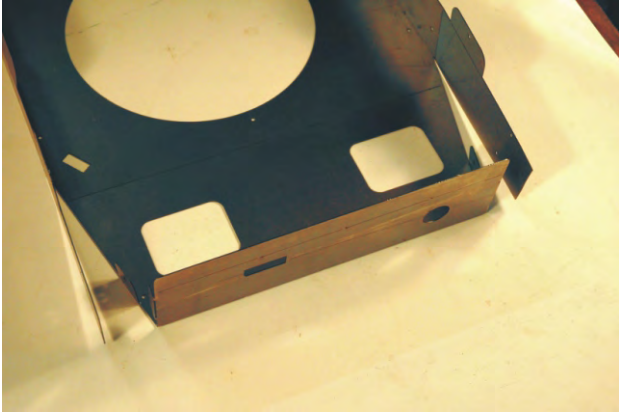


Figure 4a



Figure 4b

Note: Although it is not required it might be a nice thing to drill an 1/8" hole and secure the side panel to the tab of the front vertical panel (See Figure 4c).



Figure 4c

Step 5. Bend the tab at the rear end of the side panel.



Figure 5a

Note: This tab will need to be adjusted to suit the angle of back vertical panel.

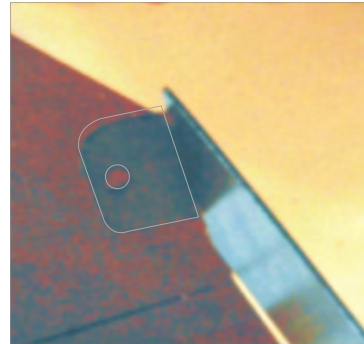


Figure 5b

Step 6. Align the hole in the rear vertical panel with the tab (See Figure 6a) on the Upper Deck side panel and secure it in place with a pop rivet. (See Figure 6b) Adjust the two pieces so that all angles and surfaces align.



Figure 6a



Figure 6b

Panzer IV Assembly Instructions

Upper Deck

Step 7. The clip attachment for the securing the Upper Deck to the Chassis. (See Figure 7a) Bend the tab that secures the Upper Deck to the Chassis outward so that it is at a 90 degree angle (See Figure 7b) to vertical side panel. Then bend the upper half of the “arrow point” down and toward the rear to a 90 degree angle. (See Figure 7c)

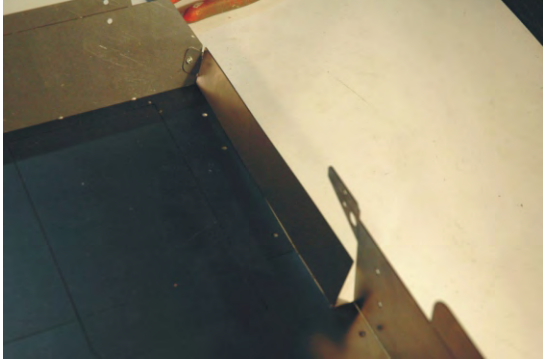


Figure 7a

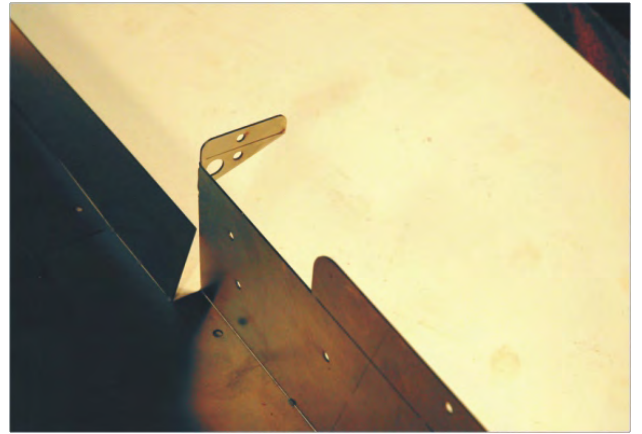


Figure 7b



Figure 7c

Note: The “arrow shaped” tab in Figure 6a is used to secure the Upper Deck portion to the Chassis and so must be bent in the correct direction at the bend points.

Step 8. Installing the two internal deck braces. Gather the two parts (See figure 8a) from your parts package and bend the end tabs (one at each end of the each piece) to a 90 degree angle - both in the same direction. Bend the top tab of each piece to 90 degrees (See Figure 8b) but in the opposite direction to the end tabs.

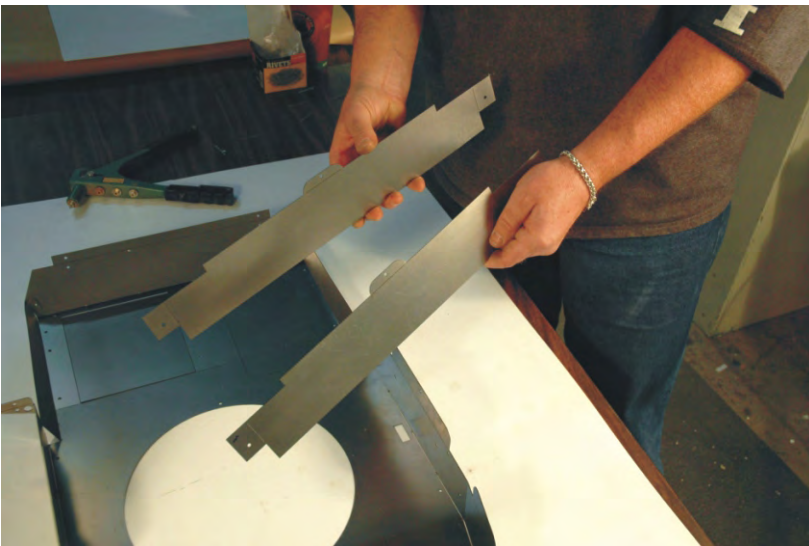


Figure 8a



Figure 8b



Figure 8c

Note: It is important that the tab at the top and the tabs at the ends of the cross brace pieces are opposite of each other.

Panzer IV

Assembly Instructions

Upper Deck

Step 9. Place the cross braces into the Upper Deck with top tabs facing away (See Figure 9a) from the circle. Align the end tabs with the holes in the sides and secure with pop rivets. (See Figure 9b)



Figure 9b

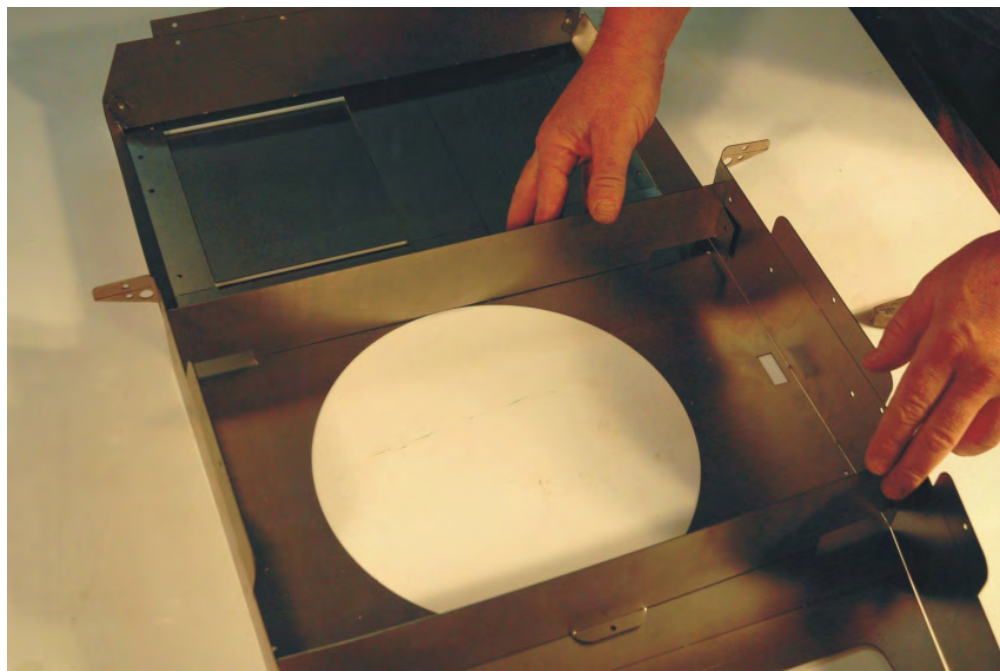


Figure 9a

Step 10. Turn the Upper deck over. Align the top tabs with the hole in the top of the Upper Deck and secure with a pop rivet (See Figures 10a and 10b).



Figure 10a

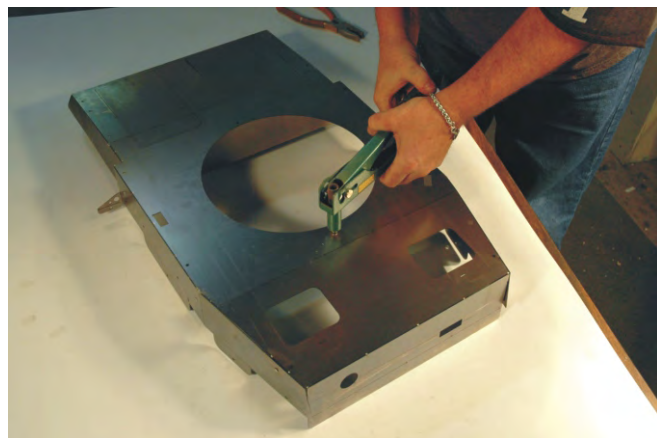


Figure 10b

Step 11. Bend the tabs in the sides inward to a 90 degree angle (See Figure 11a).



Figure 11a

Panzer IV Assembly Instructions

Upper Deck

Note: You have now completed the assembly of the Upper Deck. What you have created should look like what appears in Figure 12a below.

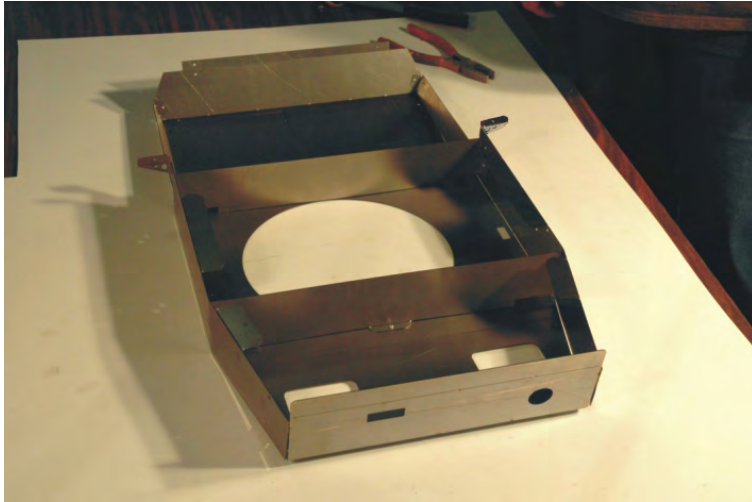


Figure 12a

Note: Your metal assembly so far is the Chassis and the Upper Deck and when placed together should resemble Figure 13a below.

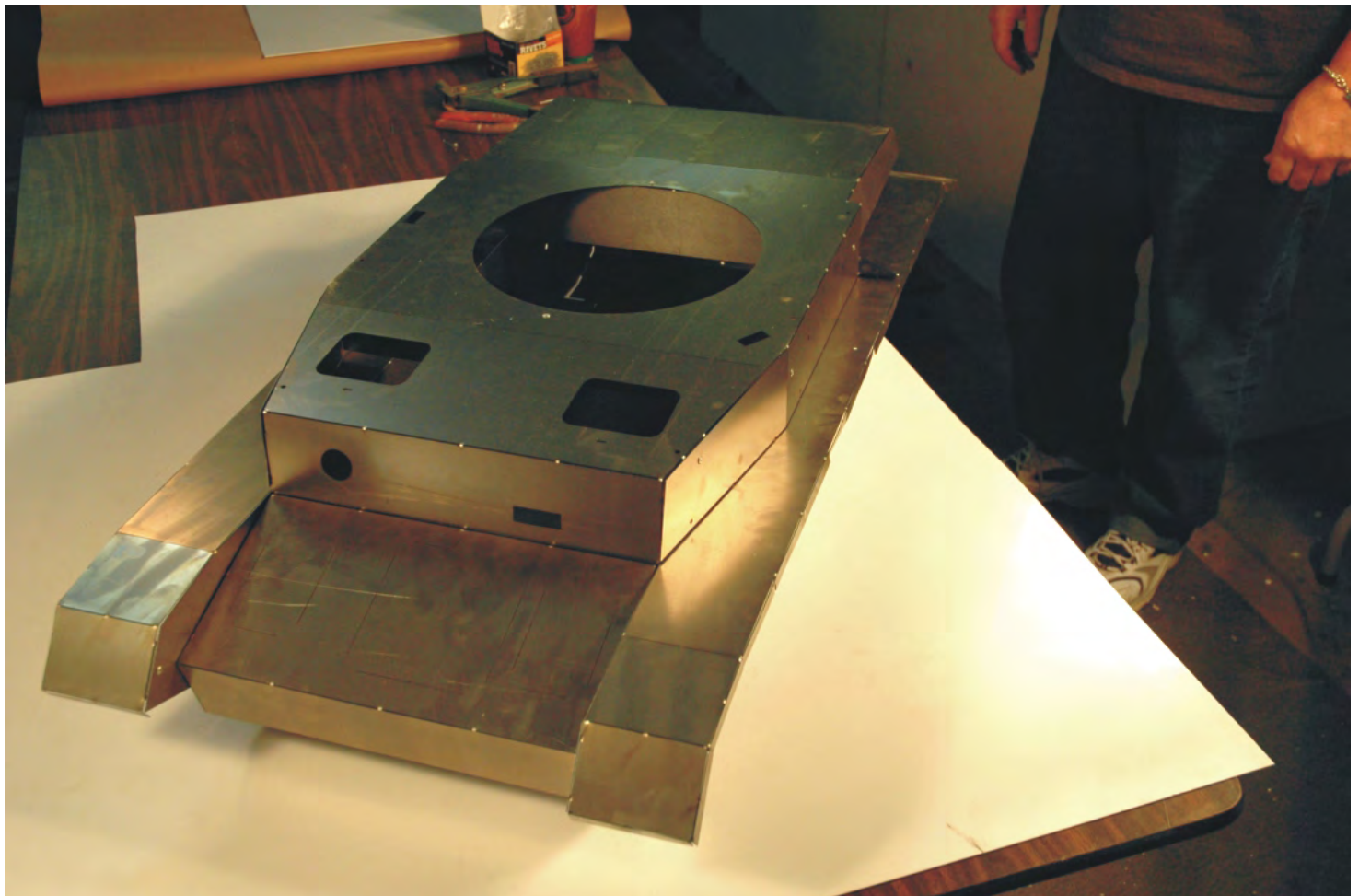


Figure 13a

Panzer IV Assembly Instructions

Turret Bottom

Step 1. Place the Turret Bottom (See Figure 1a) on your work surface and locate the three (3) Turret Rotate Guides (See Figure 1b).

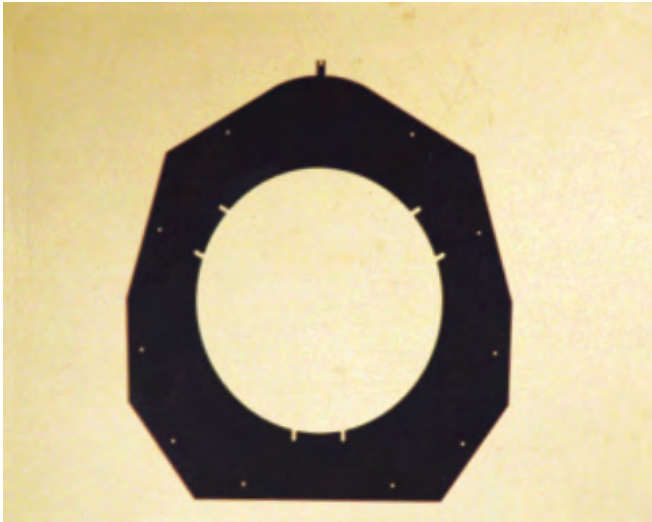


Figure 1a

Note: There is not a top or a bottom to this piece until you commit to installing the Turret Rotate Guides. The side to which they are installed will automatically become the bottom.



Figure 1b



Figure 2a

Step 2. Pre-drill Turret Rotate Guides using the dimples on the top of each piece as locators using nothing larger than an 1/8 " bit. Drill to a depth of approx. 5/16" and start one #6 x 1/2" sheet metal screws in each hole.



Figure 2b

Step 3. Slide the "started" screws of each of the Turret Rotate Guides into the slots on the Turret Bottom making sure that the inside curve of the Turret Rotate Guide is mimicking the arc of the hole in the Turret Bottom (See Figures 3a and 3b).

Note: Make sure the rabbit on the Turret Rotate Guide is to the bottom and to the outside.



Figure 3a



Figure 3b

Panzer IV Assembly Instructions

Turret Bottom

Step 4. Adjust the Turret Rotate Guides to fit snugly and centered in the opening of the Upper Deck (See Figures 4a and 4b).



Figure 4a



Figure 4b

Note: Place the assembled Turret Bottom in to the hole in the Upper Deck. Center the hole in the Turret Bottom vertically with the hole in the Upper deck by adjusting the Turret rotating Guides. Tighten the screws making sure they are secure - to the extent they will not come loose over time.

Note: When this part of the assembly is complete it should look like Figure 5a below. The Turret bottom should turn easily in the Upper Deck. For smoother movement an application of silicon or wax to the guides can be applied.

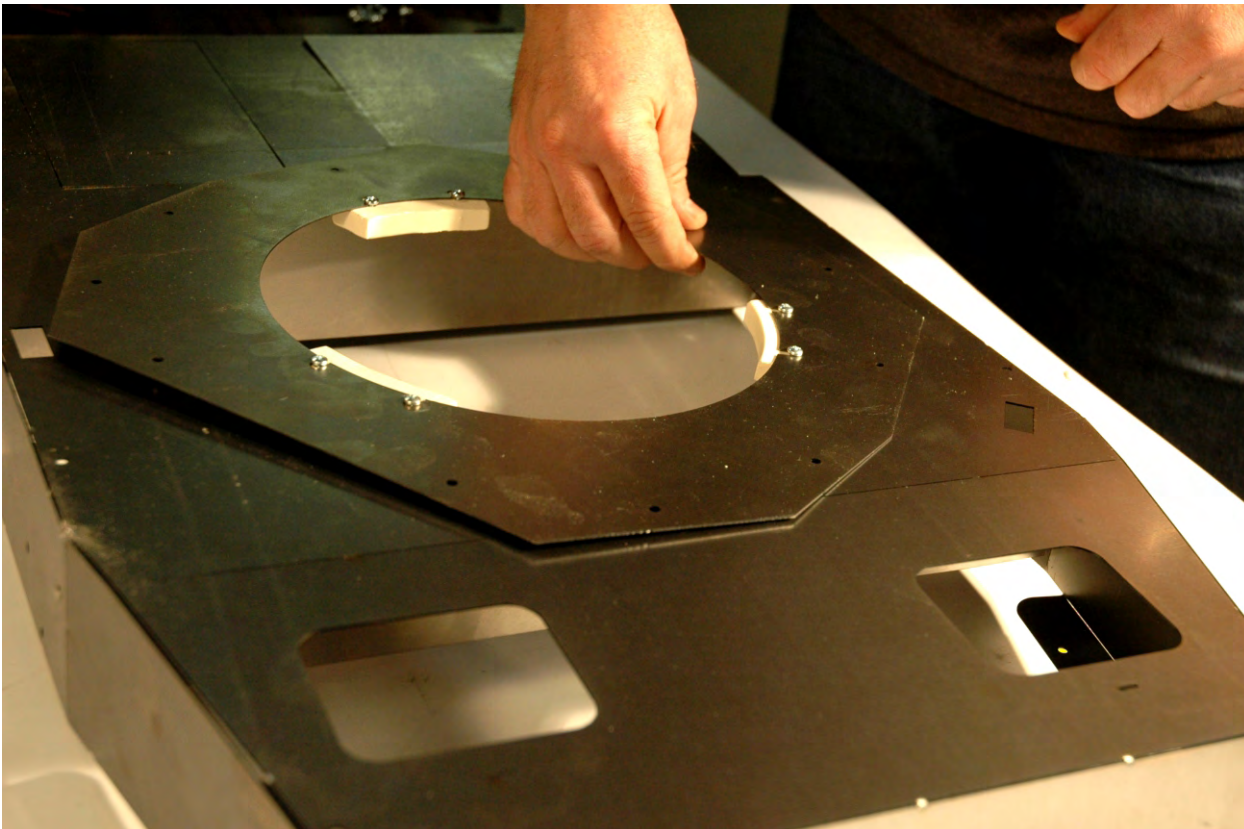


Figure 5a

Panzer IV Assembly Instructions

Turret

Step 1. Place Turret piece on work table with the folded over front wall up. (See Figures 1a and 1b) Raise the front wall of the Turret up to an approximate 80 degree angle to the turret top. (See Figure 1c)

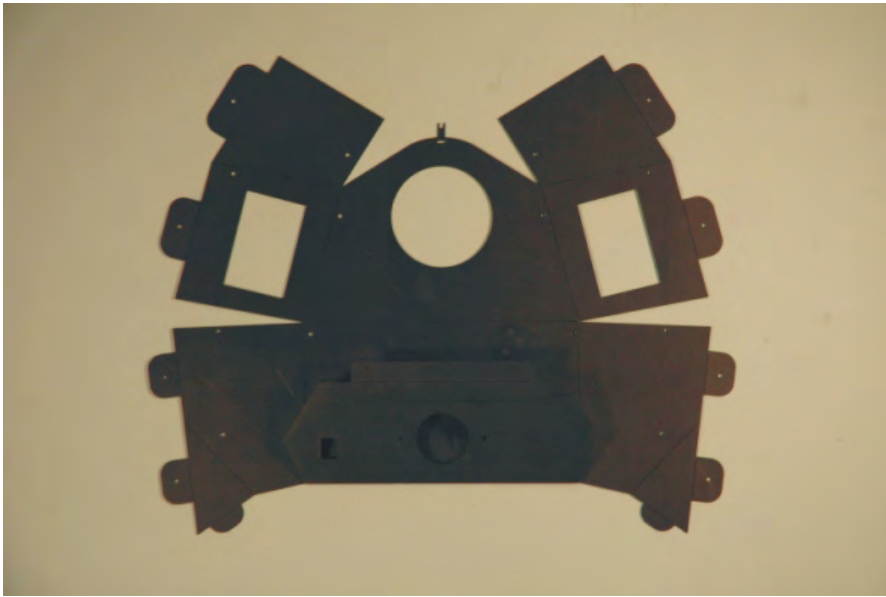


Figure 1a



Figure 1b



Figure 1c

IMPORTANT:

Before proceeding it is important to read the entire procedure for Step 2 from start to finish to ensure the Mantlet Housing is installed correctly and in the right configuration.

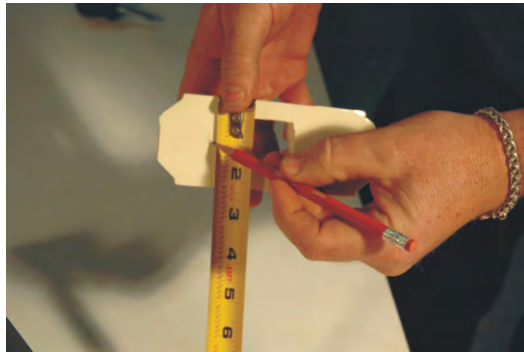


Figure 2a

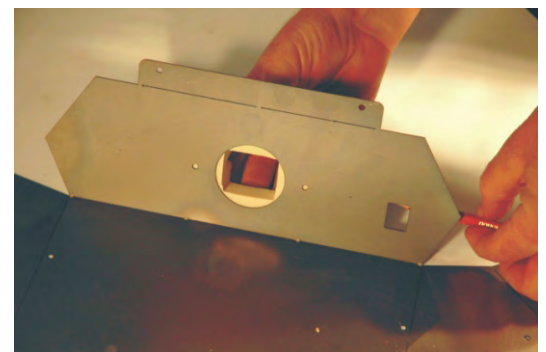


Figure 2b

Step 2. Before proceeding with any other Turret assembly it is necessary to install the Mantlet Housing on the front wall of the Turret. Find the horizontal center of the Mantlet Housing and draw a line across the back of it bisecting the Mantlet in half along its length. (See Figure 2a) Place the back of the Mantlet Housing against the Turret front wall so the four corners of the square opening in the Mantlet Housing are within the round hole in the front wall of the Turret. (See Figure 2b) The line you have drawn on the back of the Mantlet Housing should appear in the center of the two screw holes adjacent to the round hole. Making sure that the Mantlet housing is parallel horizontally with the top of the Turret mark the hole locations on the back of the Mantlet Housing for pre-drilling. (See Figure 2c) (Continued on next page)

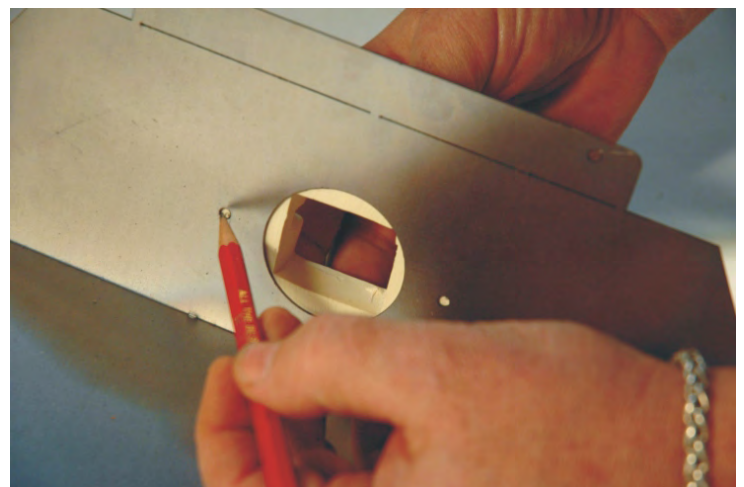


Figure 2c

Panzer IV Assembly Instructions

Turret

Note: The square hole in the Mantlet Housing is not in the center of the piece. Make sure the short side of the two is toward the square opening in the front wall of the Turret and that the Mantlet Housing is parallel with the top of Turret. (See Figure 2d)

Step 2. (Cont'd) Pre-drill the two screw locations you marked on the back of the Mantlet Housing. Place the Mantlet Housing into position and secure with the 2 - #6 x 1/2" screws (sheet metal) provided. (See Figures 2e and 2f)

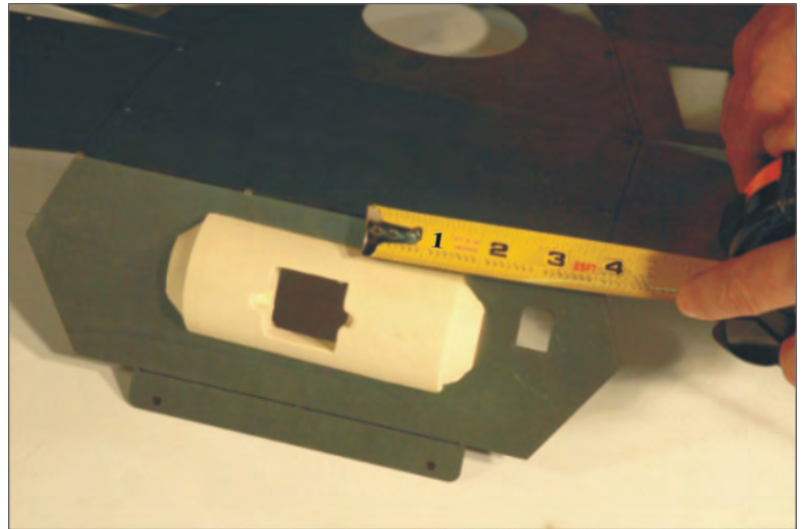


Figure 2d

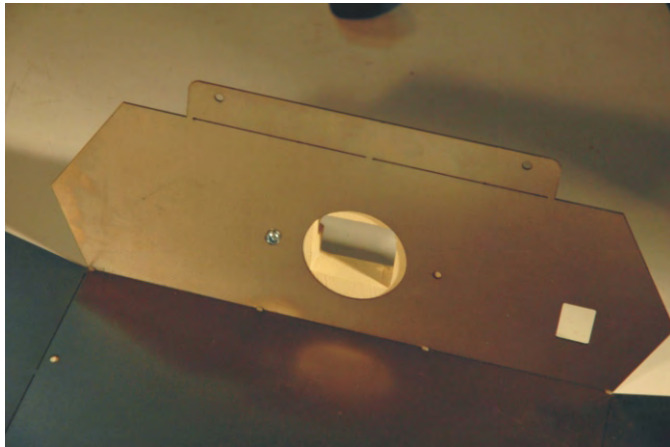


Figure 2e

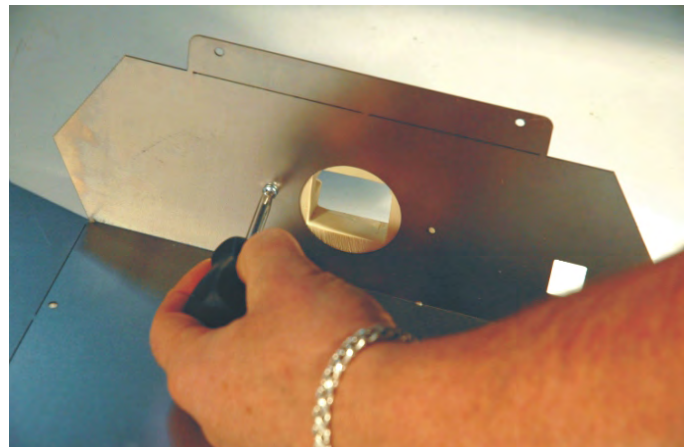


Figure 2f

Step 3. Bend the sides up at an angle (approx. 60 degrees) so that they begin to image the shape that final Turret will take when assembled.



Figure 3a

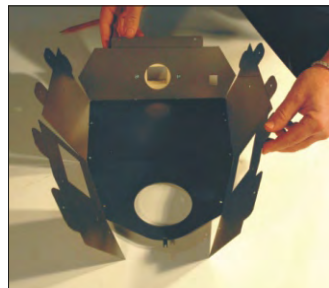


Figure 3c



Figure 3b

Step 4. Bend in the rear side panels to align with the angles of the Turret top.

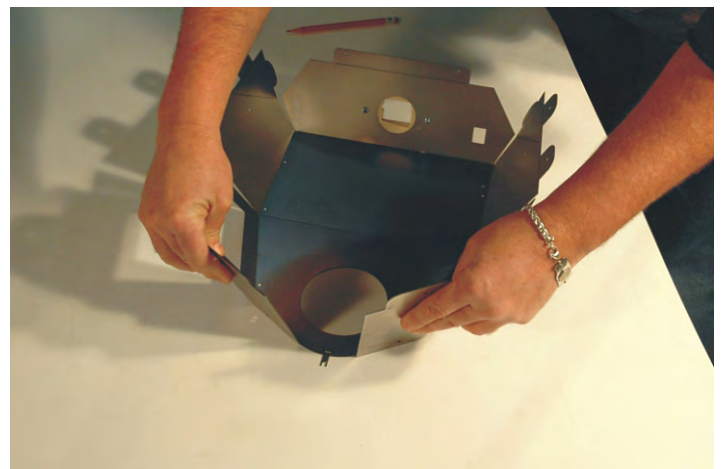


Figure 4

Panzer IV Assembly Instructions

Turret

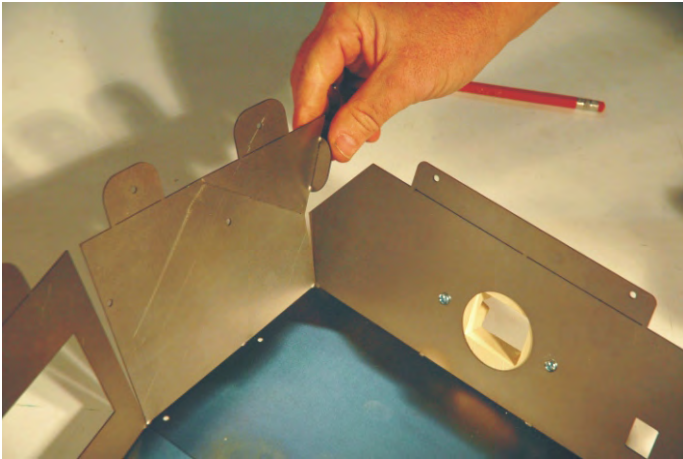


Figure 5a



Figure 5b

Step 5. Bend over the large tabs on the bottoms of the Turret walls. (See Figure 5)

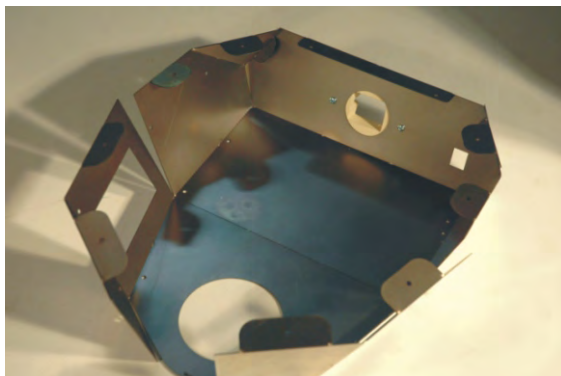


Figure 5

Step 6. With the tabs on the side walls bent down, place the Turret bottom over the tabs and line up the holes in the Turret Bottom with the holes in the tabs. Make sure the three (3) Turret Rotate pieces are to the outside. (See Figure 6a) Secure in place with pop rivets. (See Figure 6b)

Step 5. On the side walls adjacent to the Turret front piece bed back the tab to approximately 85 degrees. (See Figure 5a) Bend the Side wall at the angled seam until it is at an angle that aligns with angle of the Turret front piece.

(See Figure 5b)

When this exercise is complete the tab should be flush against the inside of the Turret front piece. (See Figure 5c)

Note: Although not necessary you can drill a 1/8" hole through both tab and the Turret Front piece and secure with a pop rivet.

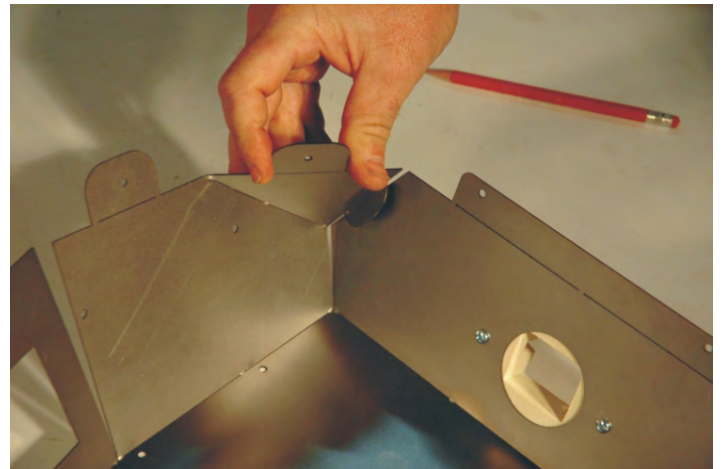


Figure 5c

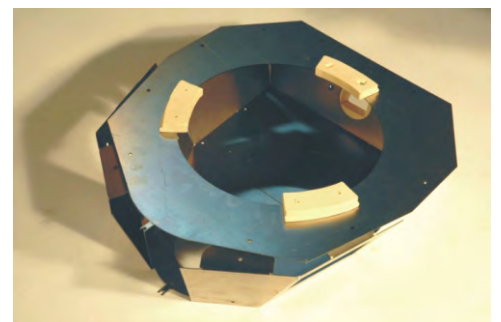


Figure 6a



Figure 6b

Panzer IV Assembly Instructions

Turret

Step 7. Review you assembly so far - it should resemble Figure 7a from the bottom and Figure 7b from the top.

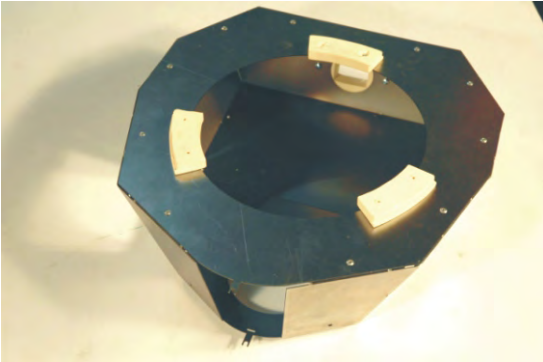


Figure 7a

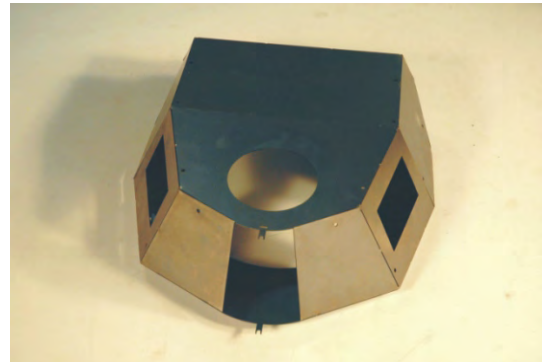


Figure 7b

Step 8. You are now ready to install the Turret Back Brace. This piece is identified on the Packing list on Bag #16. The piece has been pre-bent to make it easier to install but will still require some shaping. Shape the piece to align with the shape if the top and bottom of the Turret Assembly. (See Figure87a)

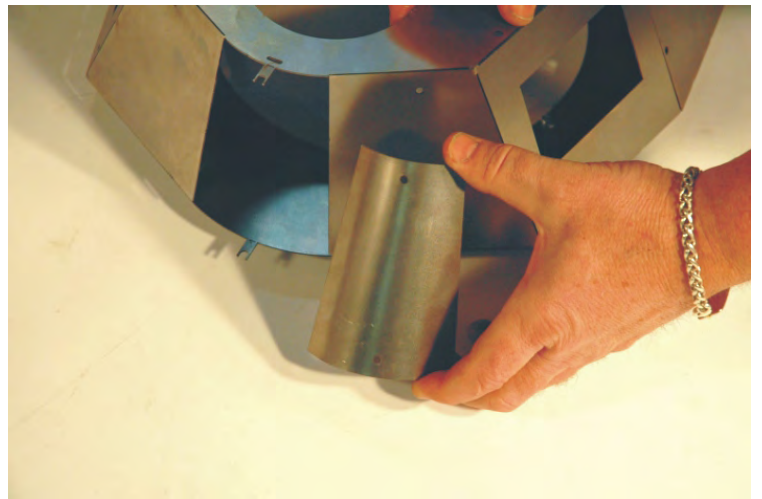


Figure 8a

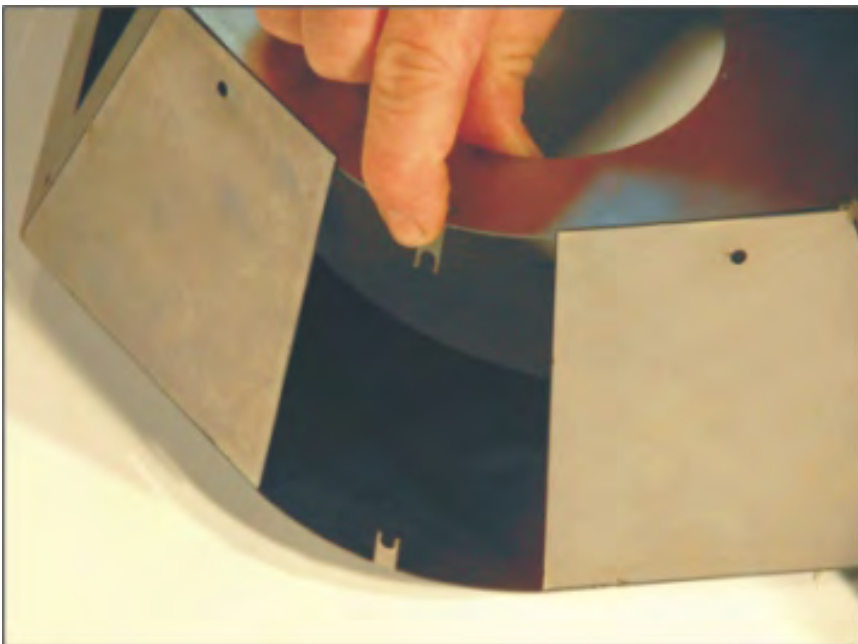


Figure 9

Step 9. Bend the keepers on the top and bottom of the Turret Assembly at the rear down and up respectively to accept the Turret Back Brace. (See Figure 9)

Panzer IV Assembly Instructions

Turret

Step 10. Secure the Turret Back Brace in place with pop rivets. (See Figure 10a and 10b)

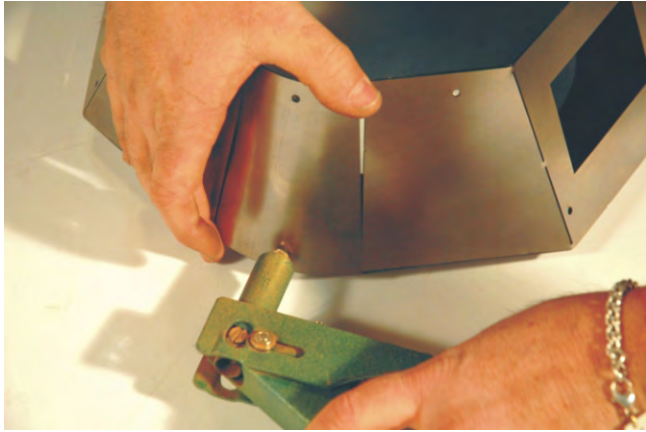


Figure 10a

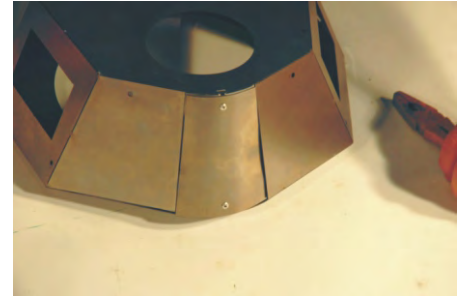


Figure 10b

Step 11. Locate the Turret Bullet Splash Ring (See the Packing List - Bag 16). Place the tabs into the slot at the rear of the Turret top above the Turret Back Brace and epoxy in place. (See Figures 11a and 11b)

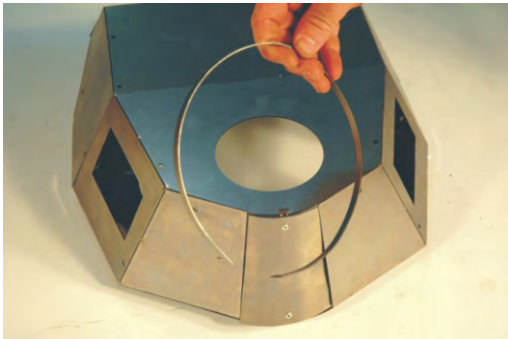


Figure 11a

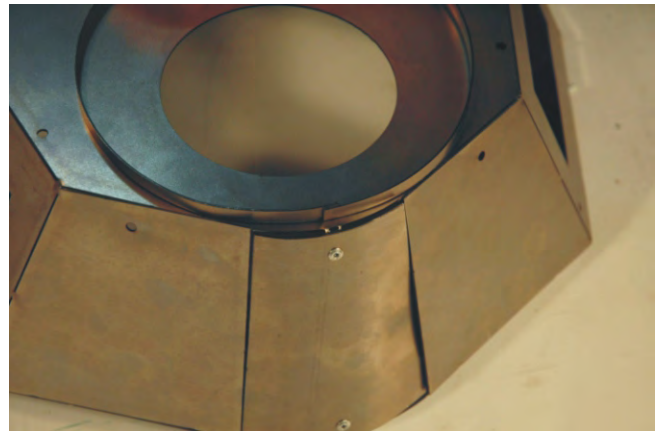


Figure 11b

Note: You have now completed the assembly of 11 thee (3) major metal section of your PANZER IV. The three pieces together should look like Figure 12 to the right.

IMPORTANT:

Do NOT fasten any of the parts together - that will happen later in the assembly peocess.

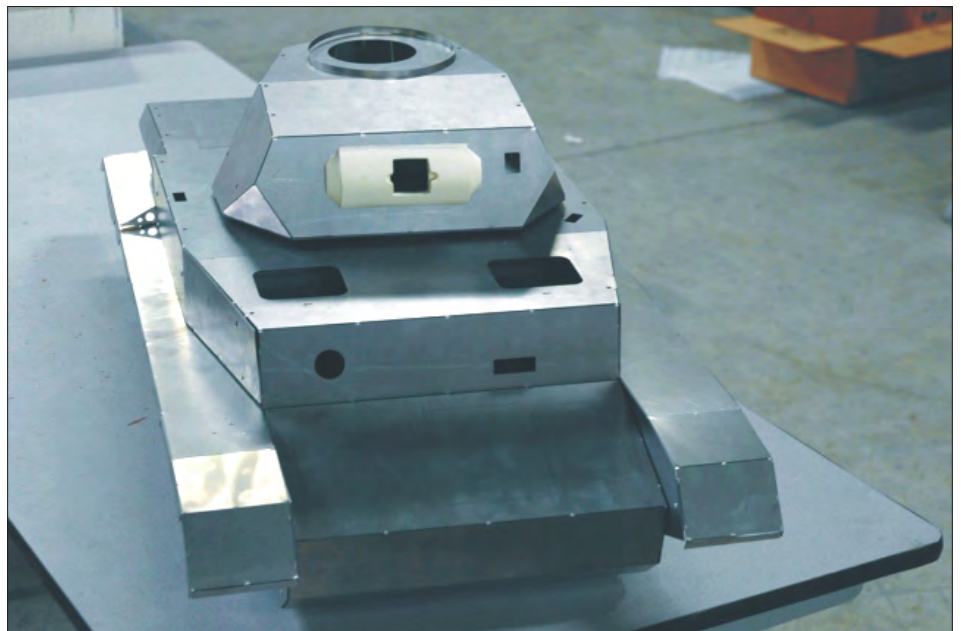


Figure 12

Panzer IV Assembly Instructions

Running Gear

IMPORTANT: You have now completed the three (3) major portions of the of the tank, the Chassis, The Upper Deck and the Turret Assembly. By following the instructions that follow it will insure that you will not assemble or place parts onto the superstructure out of order and should therefore avoid having to DIS-assemble anything in order to complete a specific task.

Step1. Locate the three following parts - the Idler Axle Bracket, the Towing Bracket and the Towing Bracket Housing (See Figure 1a).

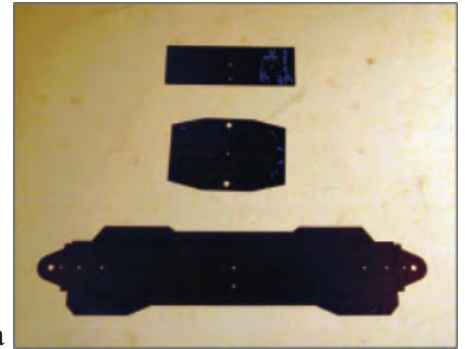


Figure 1a



Figure 2a

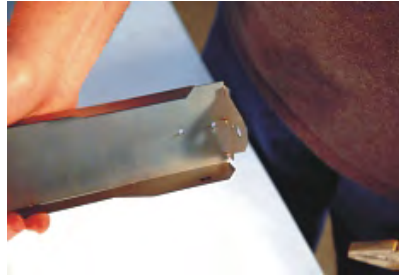


Figure 2b

Step 2. Bend the tabs on the Idler Axle bracket as shown in Figure 2a and 2b. Bend the tabs on the Tow Bracket Housing as shown in Figures 2c and 2d. Fold the sides of the Towing Bracket along the seams as shown in Figure 2e.



Figure 2c

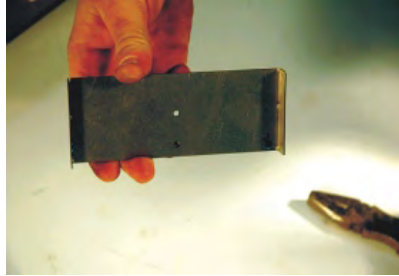


Figure 2d



Figure 2e

Step 3. Place the Towing Bracket Housing against the Idler Axle bracket as shown in Figure 3a and line up the holes. Next place the Towing Bracket in the Towing Bracket Housing (See Figure 3b) and line up the bottom hole. The entire assembly should look as it appears in Figure 3c.

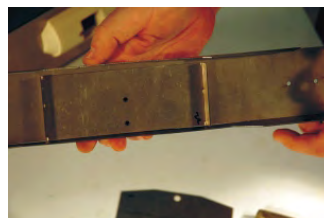


Figure 3a



Figure 3b

Note: Do NOT pop rivet these pieces together - even though you may be tempted to - see Step 4.

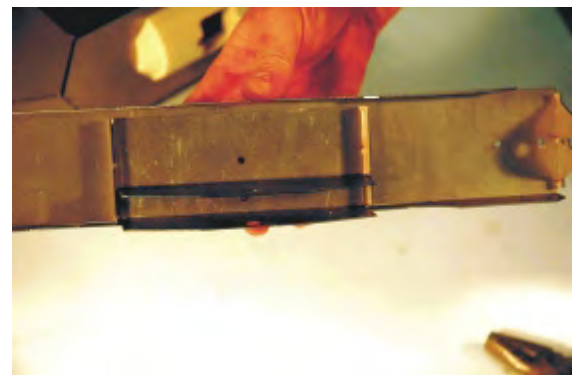


Figure 3c

Panzer IV Assembly Instructions

Running Gear

Step 4. Place the Idler Axle Bracket, Towing Bracket, Towing Bracket Housing Assembly at the rear of the Chassis and align the holes. Pop rivet the Assembly in place with two (2) pop rivets. See Figures 4a, 4b and 4c. When the assembly is in place it should look like it does in Figure 4d.



Figure 4a



Figure 4b



Figure 4c

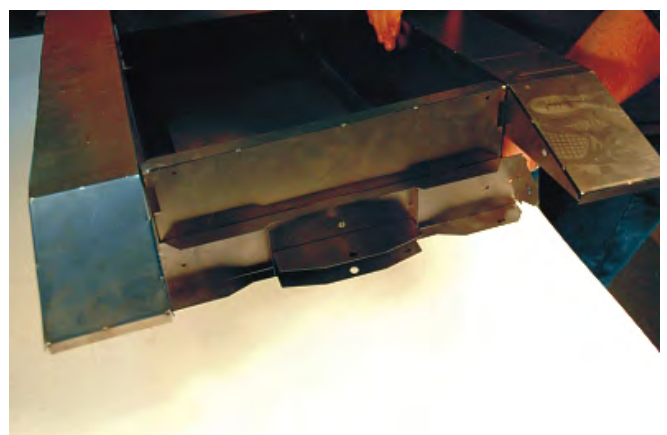


Figure 4d

Step 5. Locate the two (2) Idler Mounts and the two (2) Idler Mount Caps as shown in Figure 5a. Secure the Idler Mount Caps to the Idler Mounts with Super-glue.



Figure 5a



Figure 5c



Figure 5d



Figure 5b

Slide the Idler Mount and Idler Mount Cap assembly into place - one on each side of the Idler Axle Bracket as shown in figures 5b, 5c and 5d. Align the hole in the Assembly with the hole in the bracket.

Note: When you have it aligned mark the three holes (2 on the back and 1 on the end) on the Idler Mount assembly and pre-drill for Sheet Metal Screws.

Panzer IV Assembly Instructions

Running Gear

Step 6 Place the Idler Mount assemblies in place and fasten with the three (3) #6 x 1/2" Sheet Metal Screws. One screw in the end (Figures 6a), one screw in the back outside the Chassis (Figure 6b) and one on the back inside the Chassis (Figure 6c)



Figure 6a

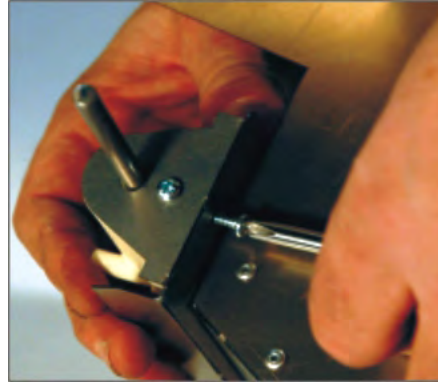


Figure 6b

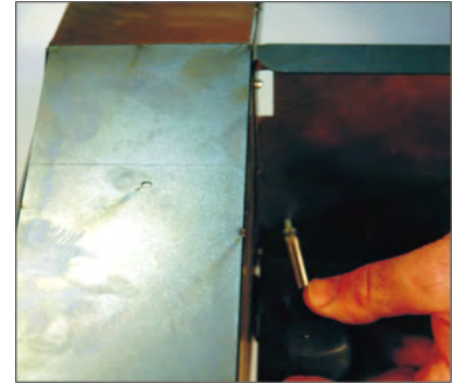


Figure 6c



Figure 7a

Step 8. With the Chassis portion of the tank sitting right side up insert the four (4) 15.5 " Suspension Axles into each of the four lower holes in the Chassis. See Figures 8a.



Figure 8a

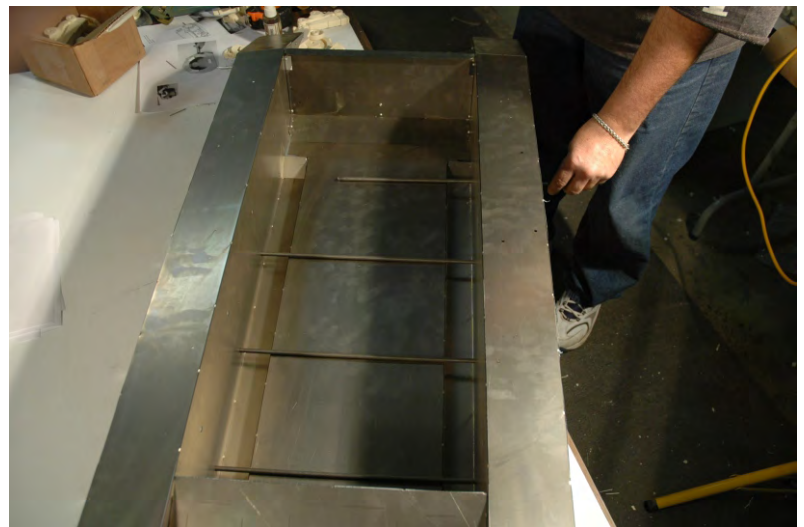


Figure 8b

Note: The Suspension Axles should be laying flat across the Chassis bottom spanning the stiffening channels that run the length of the Chassis on either side. See Figure 8b.

Panzer IV Assembly Instructions

Running Gear

Step 9. Turn the tank Chsassis so that the bottom side is facing up. Locate 8 each of the following: Suspension Blocks, Suspension Block Covers and Suspension Arms. Four of each part will be used on each side of the tank (See Figure 9a).



Figure 9a

Note: Follow the same photographs and instructions shown for each side of the tanks running gear from Step 9 through Step 18.

Step 10. Position 4 of the Suspension Blocks on the axles so that the concave protrusion is away from the bottom and toward the top of the fender skirt. Fasten them in place using epoxy (See Figures 10a and 10b).



Figure 10a

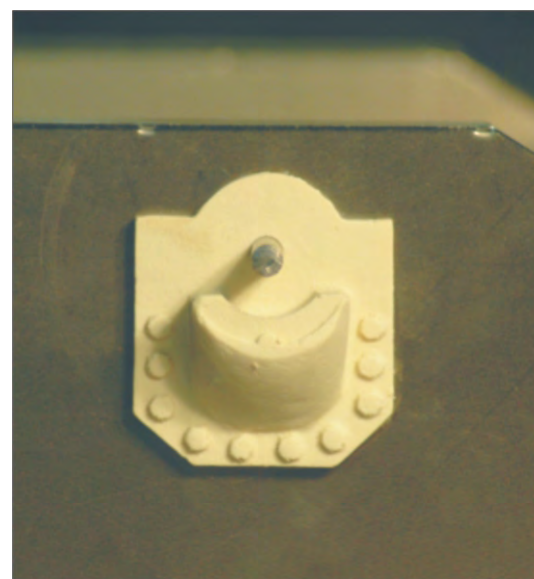


Figure 10b

Step 11. When the Suspension Blocks are securely in place install one (1) Suspension Arm onto each of the axles (See Figure 11a) so the rounded portion of the center hole fits into the concave of the Suspension Block (See Figure 11b) and so that the detail on the Suspension Arm is facing outward .

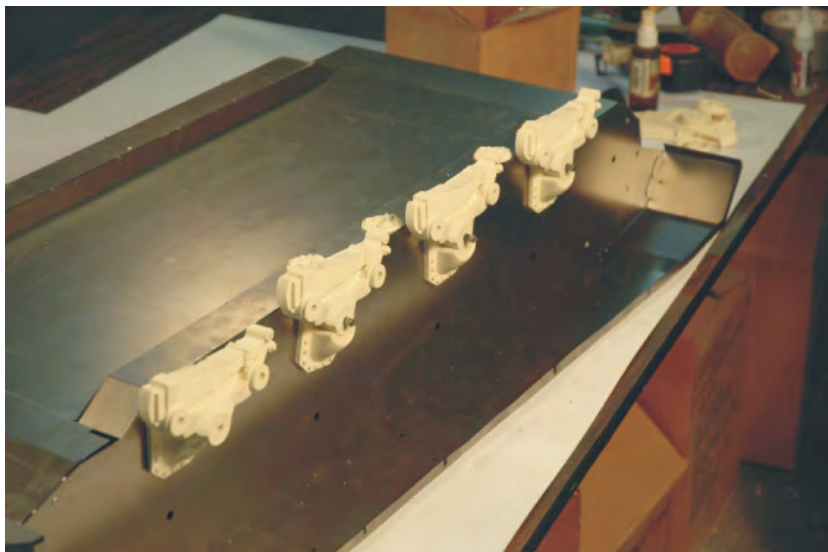


Figure 11a



Figure 11b

Panzer IV Assembly Instructions

Running Gear

Step 12. Install the 3" BogeyAxles onto the Suspension arms - two (2) per Suspension Arm - one (1) axle on each end. Secure the axles in place with epoxy making sure that the axle is flush with the inside face of the Suspension Arm. See Figures 12a and 12b.

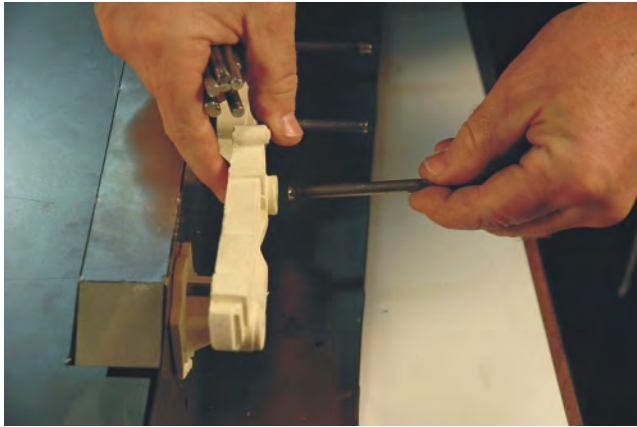


Figure 12a

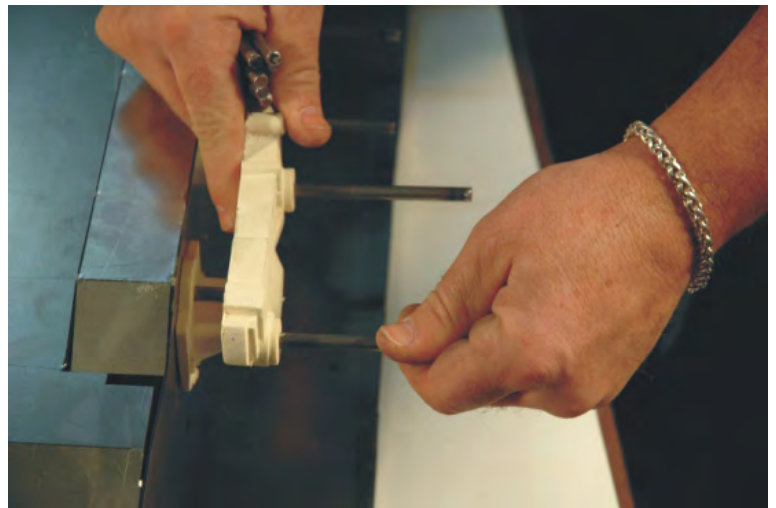


Figure 12b

Step 13. Installing the Suspension Block Covers. Slide the Suspension Block Cover over the axle detail side facing outward and align the notch in the Suspension Block Cover with the pin on the Suspension Block. (See Figures 12 a and 12b) Secure in place with Super-glue making sure not to get any on the Suspension Arm.



Figure 13a



Figure 13b



Figure 13c

Note: The Suspension Block and the Suspension Block Cover can be assembled prior to their being secured to the Chassis. Make sure when doing it this way that axle holes are aligned properly and that when securing the assembly to the Chassis that axle holes on the Assembly line up with the axle holes in the Chassis. Also when finally installing the axle make sure that you have inserted the Suspension Arm in place properly.

Panzer IV Assembly Instructions

Running Gear

Step 14. Balance the amount of the axle exposed beyond the Suspension Block Cap piece so that it is the same on both sides (Approx. 1/4") of the tank and secure the axle in place with a Push Nut. See Figures 14a and 14b.

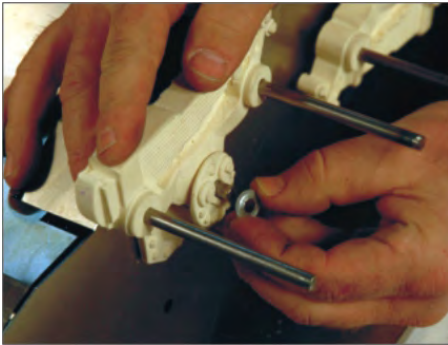


Figure 14a



Figure 14b

Step 15. Install the 18" Drive Axle and install in the front of the Chassis in the axle hole. Locate the Drive Gear Housing. (See Figure 15a) and install it as over the axle and securing it in place with epoxy as shown in Figures 15b and 15c.



Figure 15a

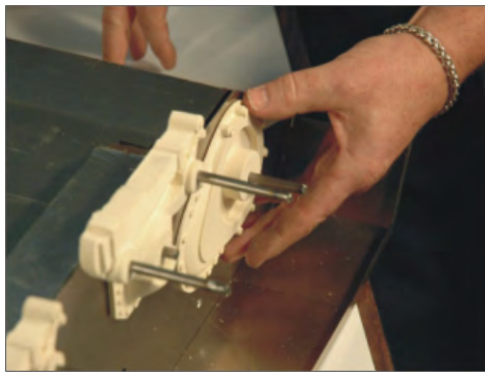


Figure 15c

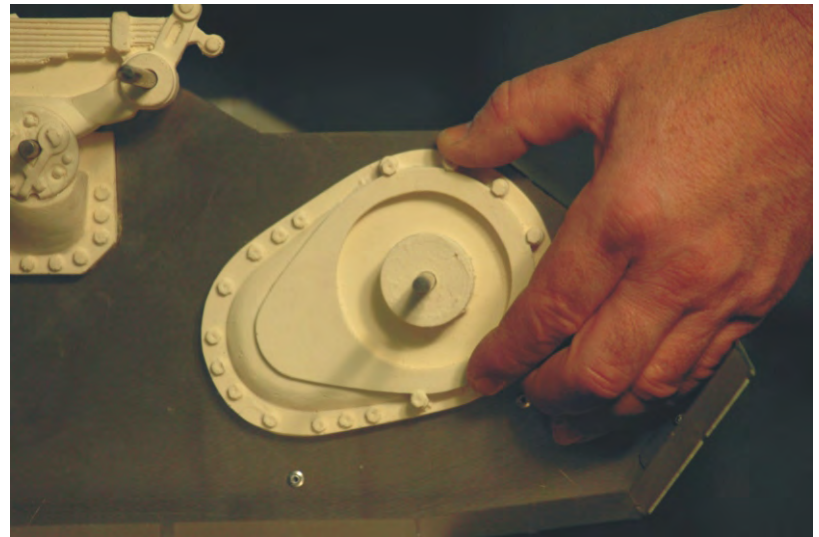


Figure 15b

Step 16. Locate the Left and Right Idler Braces and install them in the location shown in Figures 16a and 16b directly behind the Idler Mount. Secure in place using epoxy.



Figure 16a



Figure 16b

Panzer IV Assembly Instructions

Running Gear

Step 17. Locate the ten (10) Bumpers and allocate 5 per side. Installing the Bumpers - Starting at the REAR install one (1) on either side of the Rear Suspension Assembly (See Figure 1a). Install one (1) of each of the remaining three (3) Bumpers toward the front on each of the other three (3) Suspension Assemblies. Line the tops of the bumpers with the tops of the Suspension Blocks and so the widest part of the Bumper is 1/4" away from the Suspension Block (See Figure 3c).



Figure 17a



Figure 17b



Figure 17c

Step 18. Locate the Idler Wheels and the Idler Spacer (See Figure 18a). Using Super-glue secure the Idler Spacer to the inside face of one of the Idler Wheels making sure that it is centered around the axle hole in the wheel (See Figures 18b and 18c) and so that the prongs on the Idler Spacer are centered between the spokes of the Idler Wheel (See Figure 18d). Using one of the short axles as a guide place the second Idler Wheel in place on the axle and align the spokes so that one Wheel is the mirror image of the other and secure using Super-glue (See Figures 18e and 18f). Install an 11/16" long section of Spacer Material on the Idler Axle and mount the Idler Wheel Assembly on the Idler Axles. Secure in place with a push nut.

Note: This procedure can be undertaken directly onto Idler Axle in place on the installed Idler Axle.



Figure 18a



Figure 18b



Figure 18c



Figure 18d



Figure 18e



Figure 18f

Panzer IV Assembly Instructions

Running Gear

Step 19. Locate the bag of 36 Road Wheels. On each of the Bogey Axles place one (1) Road Wheel with the detail portion facing inward (See Figure 19a). Slide a 1/4" length of Spacer Material over each of the Bogey Axles (See Figure 19b). Place a second Road Wheel on each of the Bogey Wheels with the detail portion facing outward (See Figure 19c). There should be approximately 1/4" of axle exposed when the Wheels and the Spacer Materials are installed. Secure in place with Push Nuts.

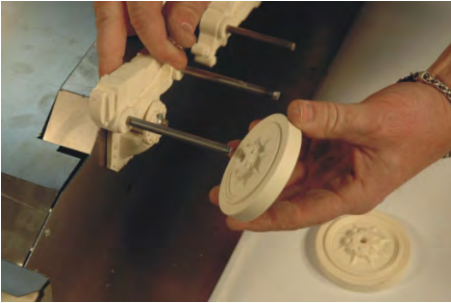


Figure 19a



Figure 19b



Figure 19c



Figure 19d



Figure 19e

Step 20. Install the Eight (8) 4.75" Return Roller Axles (four (4) per each side) in the axle holes in the upper part of the Chassis (See Figure 20a) just under the fenders through to the Interior Return Roller Support and secure the inside of the Axle in place with a Push Nut. Install a 1-1/4" long piece of Spacer Material on the Return Roller Axle (See Figure 20b). Slide one (1) Return Roller Wheel with the detail portion to the inside (See Figure 20c). Install a 1/4" long piece of Spacer Material over the axle (See Figure 20d). Install a second Return Roller Wheel on the axle and with the detail portion facing outward (See Figure 20e). Secure with a Push Nut (See Figure 20f).

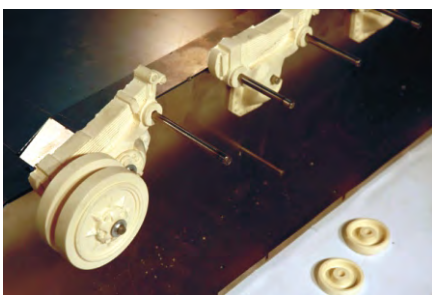


Figure 20a



Figure 20b

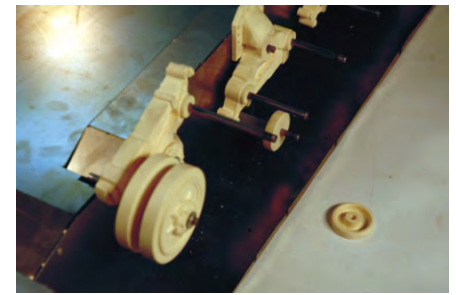


Figure 20c



Figure 20d



Figure 20e



Figure 20f

Panzer IV Assembly Instructions

Running Gear

Step 21. Each side of the tank has a pair of Drive Wheels (See Figure 21a) that need some assembly before being installed. Pre-drill the Resin portion of the Drive Wheels at the twelve (12) dimples around the outside edge and start two (2) 4-40 x 1/4" machine screws (See Figure 21b). Place the slots on the metal portion of the Drive Wheel over the screws and position it so that it fits into the rabbet around the outer edge of the resin piece (See Figure 21c). Secure the metal portion of the Drive Wheel to the resin portion using ten (10) additional machine screws (See Figure 21d).

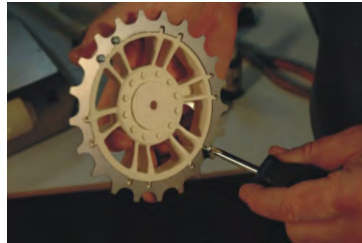
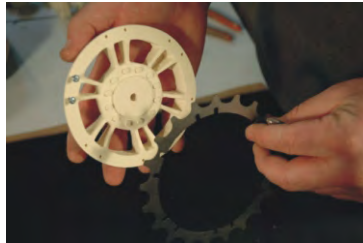


Figure 21a

Figure 21b

Figure 21d

Figure 21c

Step 22. Install the 18" Drive Axle at the front of the tank through the holes provided. Place an approx. 11/16" long piece of Spacer Material (See Note A Below) over the Axle (See Figure 22a). Install one (1) Drive Wheel onto the axle with the metal piece to the inside (See Figure 22b). Install a 1/2" length of Spacer Material (See Note A Below) and install the second Drive Wheel with the metal portion facing outward (See Figure 22c). Secure in the Drive Wheels in place with a Push Nut (See Figure 22d).

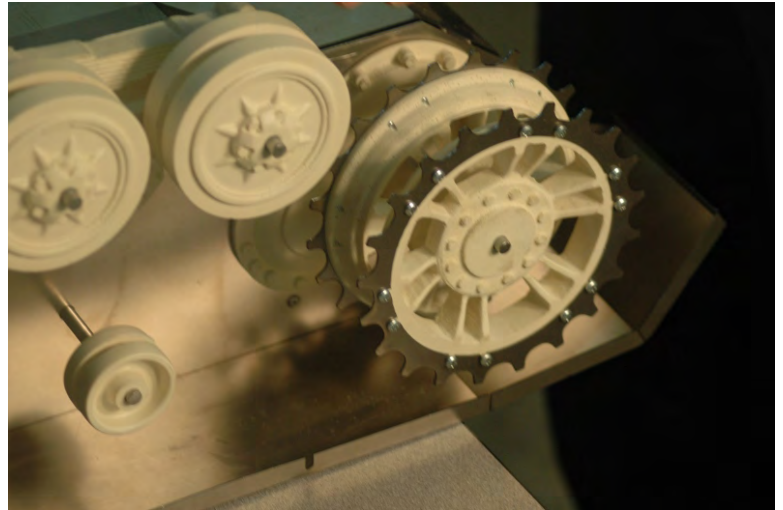
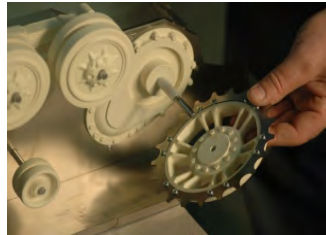


Figure 22a

Figure 22b

Figure 22f

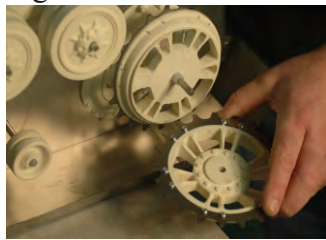
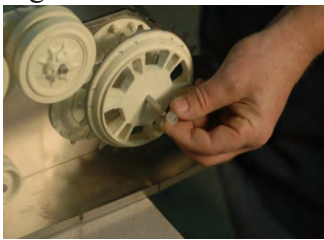


Figure 22c

Figure 22d



Figure 22e

Note A: The length of the Spacer Material between the Drive Gear Housing and the inside Drive Wheel and the distance between the two (2) Drive Wheels should be determined by laying an assemble section of track over the cogs of the metal gear portion of the Drive Wheels and measuring the distance between the two (2) wheels (See Figure 21g).

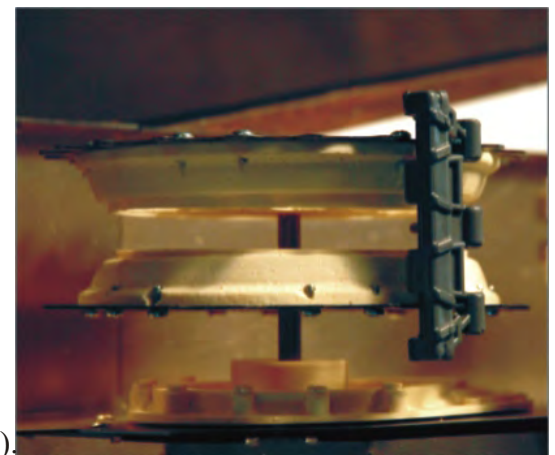


Figure 21g

General Note: If any of the axles when the final installation of the wheel assemblies is completed and any of the axles protrude more than 1/4" past the wheel OR are aesthetically unpleasing cut them off to the desired length.

Panzer IV Assembly Instructions

Running Gear

Step 22. Assemble the tracks. Fit the three (3) tabs of one piece of Track into the three (3) depressions of a second piece and insert a Track Pin (See Figures 22a and 22b). Repeat this process with half the track pieces to form one single track assembly (See Figure 22c). Assemble the remainder of the pieces to create the second track assembly.

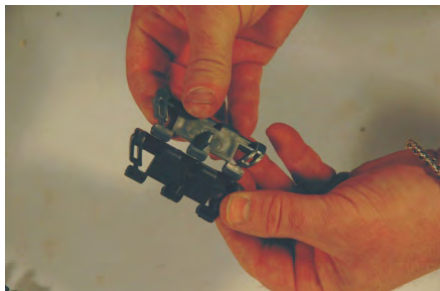


Figure 22a



Figure 22b

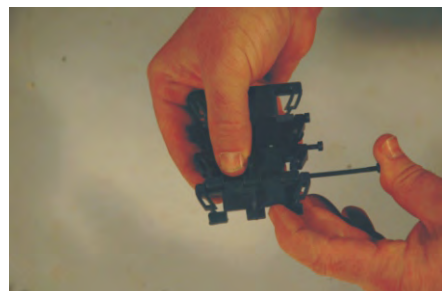


Figure 22c

Step 23. To assure the alignment of drape a piece of track over the drive Wheels and the Road Wheels and the Return Rollers (See Figures 23a and 23b. The tongue on the underside of track piece should run smoothly through the space between the wheels (See Figure 23c). Make adjustments to the Spacer Material as required to assure proper tracking.



Figure 23a

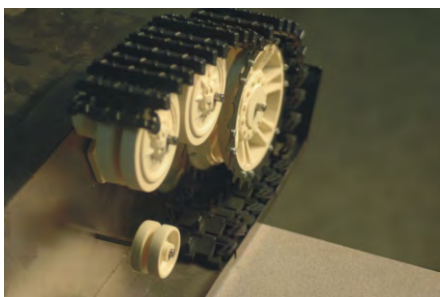


Figure 23a

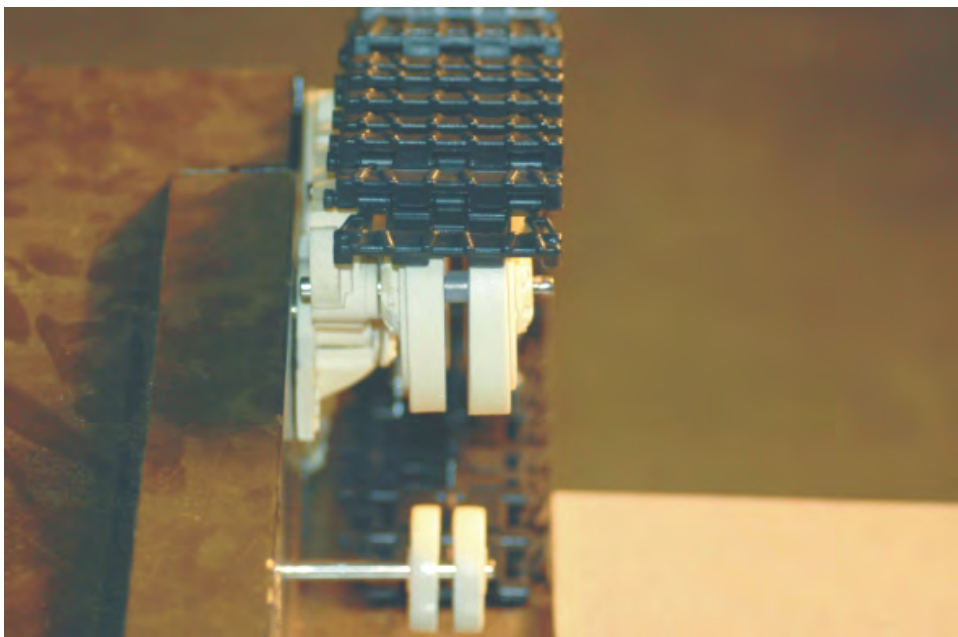


Figure 23b

Step 24. Lay the track assemblies over the Wheels and Rollers making sure that the tracks are engaged with the Drive Wheel Sprockets and insert the last Track Pin (See Figure 24 a). If there is too much slack in the track or the track is not long enough either remove a Track Link or add one as the case may be to complete the installation (See Figure 24b).



Note: It is advisable to remove the track during the remainder of the assembly process. This will keep the tank from shifting and Rolling about while you are working.

Figure 24a



Figure 24b

Panzer IV

Assembly Instructions

Chassis and Upper Deck Assembly

Step 1. With the running gear now installed there is no reason not to attach the Upper Deck To the Chassis. Bend the tab at the rear of the upper deck to an angle that matches the slope of the Rear panel (See Figure 1b). The tab on the front panel should be adjusted so that it is at 90 degrees to top of the Upper Deck (See Figure 1c).

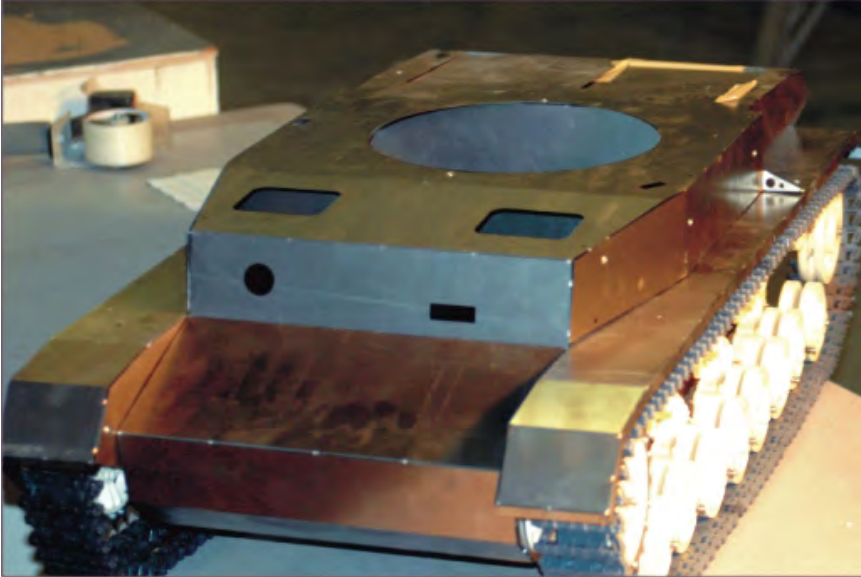


Figure 1a

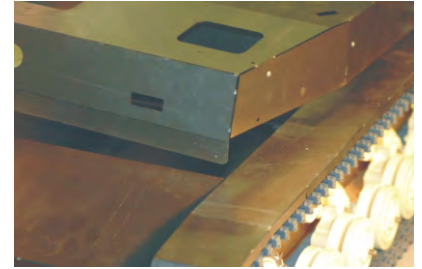


Figure 1b

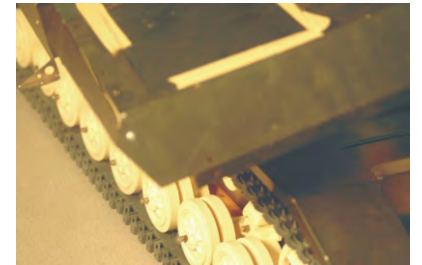


Figure 1c

Step 2. Having placed the Upper deck onto the Chassis so that Tab at the back is on the outside of the Chassis and the front panel extension is fitting tightly against the front panel. Pop Rivet the Side tabs on the Upper Deck to the Chassis (See Figure 2a). Pop Rivet the Upper Deck Rear Tab to the Chassis - one (1) location on either side (See Figure 2b). The tabs folded over in Step 11 of the Upper Deck Assembly Instructions can now be Pop Riveted to the Chassis. There are one on each side (See Figure 2c) and two toward the front and can be secured from under the Chassis Fenders. Your tank assembly should now resemble Figure 2d.



Figure 2a



Figure 2c

IMPORTANT

If it is your intention to install drive motors and a Radio Control System (upgrade kits coming soon) at a later date then you may want to secure the Upper Deck to the Chassis only at the side tabs and using Nuts and Bolts rather than Pop Rivets.

Note: Although not necessary, you may want to assemble the Manifold and install it prior to fastening the Upper Deck to the Chassis.



Figure 2b

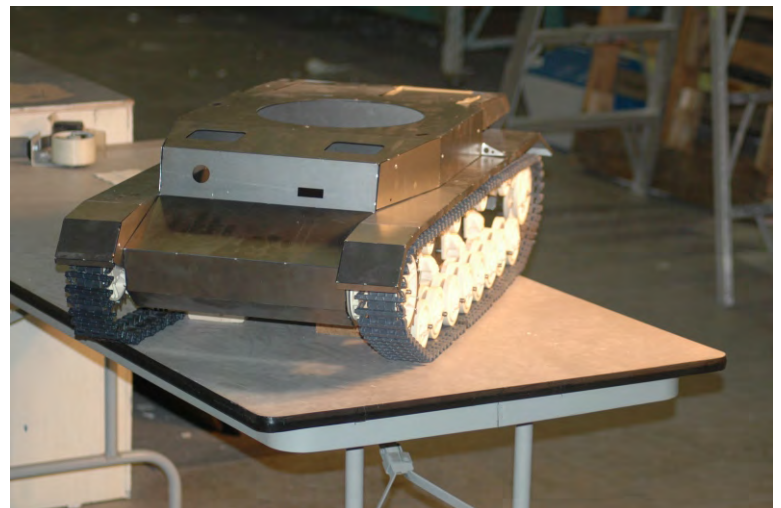


Figure 2d

Panzer IV Assembly Instructions

Turret Barrel, Bustle and Miscellaneous Outfitting

Step 1. Locate the metal Barrel Housing (See Figure 1a) and bend the Barrel Housing as shown in Figures 1b, 1c, 1d, 1e and 1f.



Figure 1b



Figure 1c



Figure 1d

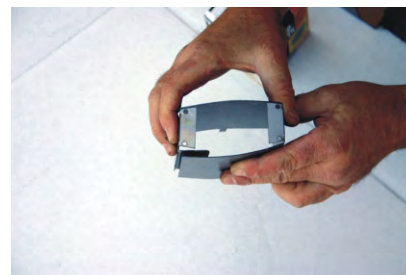


Figure 1e

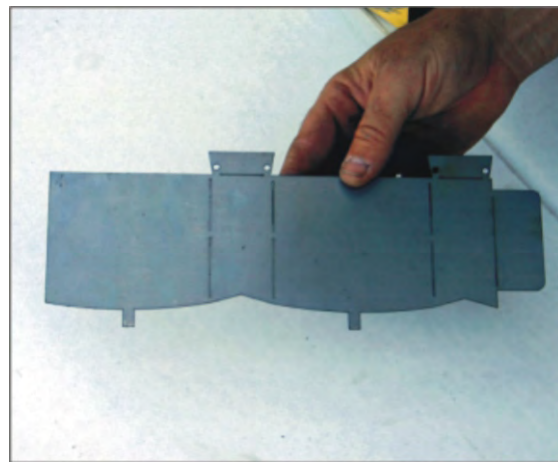


Figure 1a

Step 2. Locate the Barrel Housing Front Plate (See Figure 2a) and Pop Rivet it to the Barrel Housing as shown in Figures 2b and 2c.



Figure 2b



Figure 2a



Figure 2c

Step 3. Locate the Mantlet (a metal part- see Figure 3a).



Figure 3a

Panzer IV Assembly Instructions

Turret Barrel, Bustle and Miscellaneous Outfitting

Step 4. Bend the flanges on the ends and sides to a 45 degree angle (see Figure 4a and 4b) away from what will be the outer face of the mantlet (the sides and the ends should meet at the corners) and making sure that the hole for the Turret Machine Mount is to the left side when looking at the mantlet piece from the front.



Figure 4a



Figure 4b



Figure 4c

Step 5. Bend the mantlet to the same angle as the angled front of the Barrel Housing Assembly (see Figure 5a). Install the Barrel Housing Assembly onto the Mantlet so the angled front of the Mantlet fits into the angle on the rear of the Barrel Housing Assembly and so the tabs on the Barrel Housing Assembly fit into the slots in the Mantle (See Figure 5b) .



Figure 5a

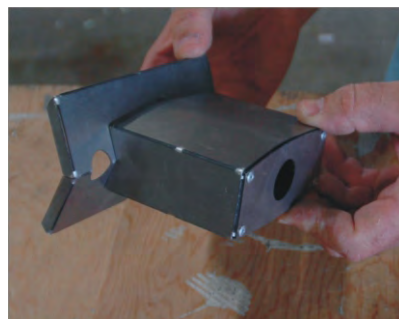


Figure 5b



Figure 5c

Step 6. Bend back the tabs on the Barrel Housing Assembly (See Figure 3c) to secure it in place. The result should be as seen in Figure 3d.



Step 4. Attach the Barrel Step Down (as seen in the Assemblers left hand [See Figure 4a]) to the Barrel First Step (as seen in the Assemblers right hand [See Figure 4a]) using Super-glue (See Figure 4b).



Figure 4a



Figure 4b

Panzer IV Assembly Instructions

Turret Barrel, Bustle and Miscellaneous Outfitting



Step 5. Attach the Barrel Step Down Assembly to The Barrel Housing Assembly using Epoxy (See Figure 5a). Make sure the holes in the Barrel housing Assembly and the Barrel Step Down line up.

NOTE: All Photographs in Steps 6 through 8 as well as miscellaneous photographs though out the instructions show a resin Mantlet instead of the new metal one - however the assembly of the various stages remains correct.

Figure 5a

Step 6. Install the Barrel Counter Balance piece onto the Turret Elevation Back piece (See Figure 6a). Insert the Turret elevation Back piece and Counter Balance into the Mantlet Housing (See Figure 6b) and snap them into place in the Mantlet housing so the wooden dowel fits into the slot of the Mantle (See Figure 6c).



Figure 6a



Figure 6b



Figure 6c

Step 7. Insert the Barrel through the Barrel Step down Assembly and Barrel Housing Assembly (See Figure 7a) so that it extends through the Mantlet approx. 3/4" (See Figure 7b). Insert the Barrel Assembly into the Barrel Elevation Back piece until the Barrel is restricted by the Dowel (See Figure 7c).



Figure 7a

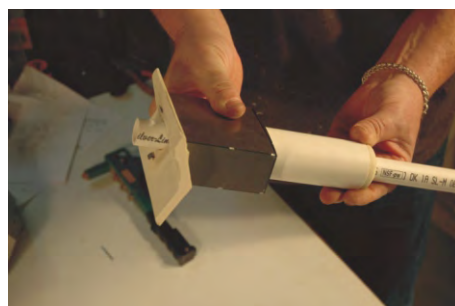


Figure 7b

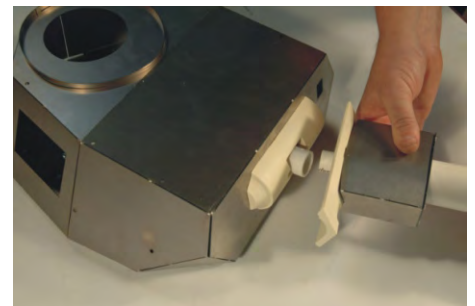


Figure 7c

Panzer IV Assembly Instructions

Turret Barrel, Bustle and Miscellaneous Outfitting

Step 8. Super-glue the two (2) halves of the Muzzle Break together and then again using Super-glue secure the Muzzle Break into the end of the Barrel (See Figure 8a) making sure that the openings in the Muzzle break are positioned horizontally as shown in Figure 8b. The barrel assembly is now complete and should look similar to Figure 8c.



Figure 8a



Figure 8b



Figure 8c

Step 9. Add weight to the counter balance until it is totally balanced with the Barrel Assembly to the point that the barrel stays in the position you set it at.

Step 10. Locate the Metal Bustle piece (See Figure 10a). The arrow in Figure 10a indicates that the cut out piece is the access door to the bustle and it may be easier at this point to turn the Bustle over and install two (2) hinges (not included) to this part of the assembly. Returning the Bustle to the position shown in Figure 10a begin by folding the two side pieces (one (1) on either side of the right hand portion of the Bustle piece to 90 degrees and then fold back on each side at the seam adjacent to the side walls (See Figure 10b). Bend each side tab vertically at the next seam (See Figure 10c). Fold the top piece over (See Figure 10d) and bend down the tab on the left side of the top piece (See Figure 10e) so that it fits inside the vertical tab on the right side piece (See Figure 10f). DO NOT secure with pop rivets at this point.



Figure 10a



Figure 10c

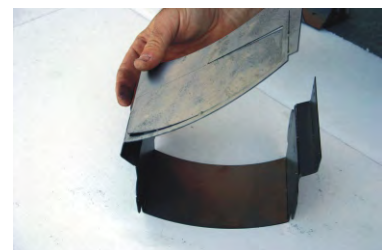


Figure 10d

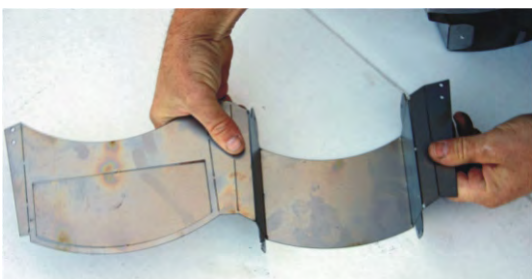


Figure 10b



Figure 10e



Figure 10f

Panzer IV Assembly Instructions

Turret Barrel, Bustle and Miscellaneous Outfitting

Step 11. Locate the two (2) Bustle Brackets (See figure 11a. Position one (1) Bustle bracket against the side of the Bustle side that has the top and side tabs. Align the Bracket with the holes in the side and top tabs and with the curve of the Bracket pointing downward (See Figure 11c). Secure in place with Pop Rivets (See Figure 11d). Repeat process for the other side.



Figure 11a

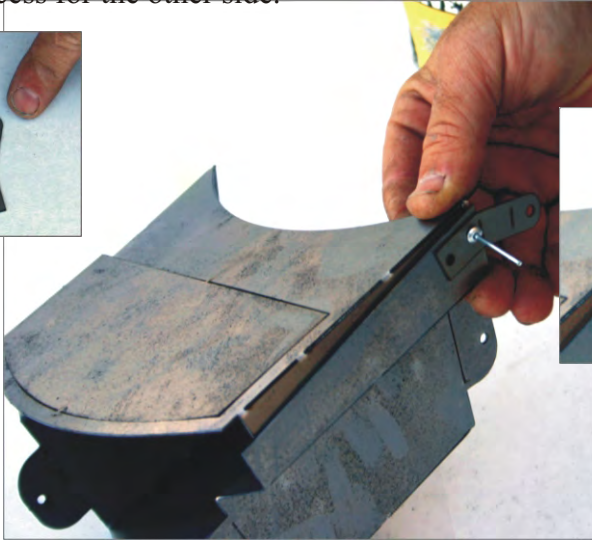


Figure 11b



Figure 11c



Figure 11d

Step 12. Bend the tabs on the front and back of the bustle(See Figure 12 a). Fit the concave Bustle front into position and secure with Pop Rivets (See Figures 12b). Fit the convex Bustle Back into position and secure with Pop Rivets (See Figure 12c).



Figure 12a



Figure 12b

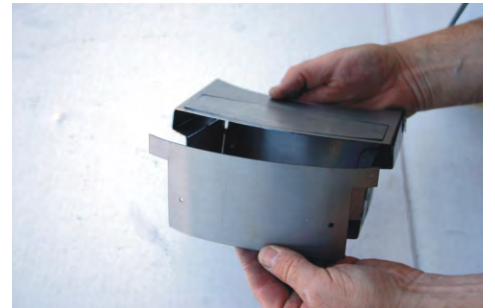


Figure 12c

Step 13. Installing the Bustle onto the Turret. Bend the Bustle Brackets inward at the first joint to approx. 80 degrees and then bend the tab at the second joint an additional approx. 30 degrees (See Figures 13 a and 13b) so that the holes. In the Bustle Bracket align with the mounting holes in the Turret. From inside the Turret secure the Bustle in place with Pop Rivets (See Figures 13c and 13d). The final installation should resemble Figure 13e.



Figure 13a



Figure 13b

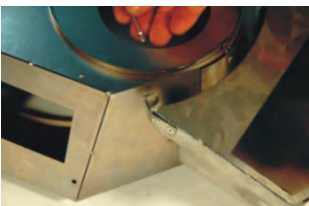


Figure 13c



Figure 13d

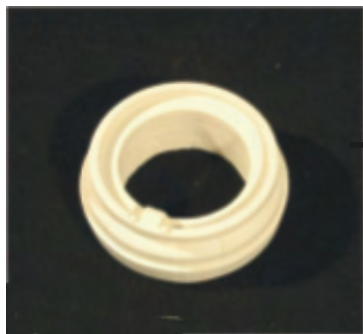


Figure 13e

Panzer IV Assembly Instructions

Turret Barrel, Bustle and Miscellaneous Outfitting

Step 14. Epoxy the Cupola in place so that the Open view port faces forward (See the View Port location in Figure A). Install the Cupola Hatch. You may want to pre-drill for a hinge pin (not provided use a length of baling wire or the like). You may have to drill through the raised edge of the Cupola to achieve this and then patch it later with putty or bondo.



Cupola



Cupola Hatch

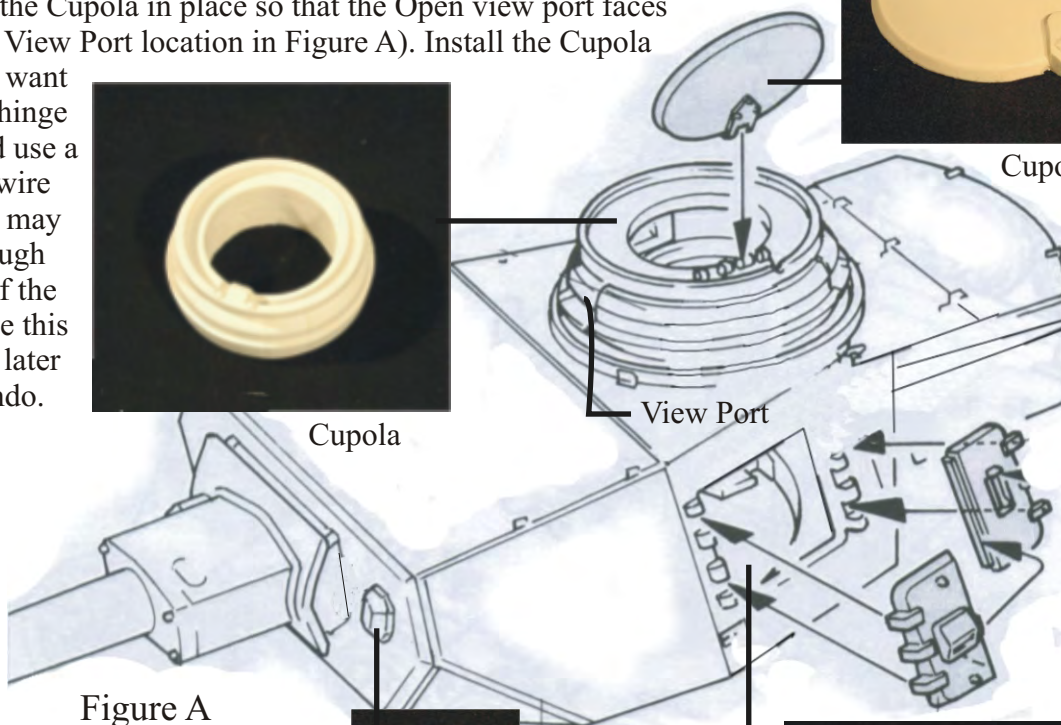


Figure A

Step 15. Install the Armor View Cover to the location indicated in Figure A using epoxy.



Armor View Cover

Step 16. Install the Turret Air Vent bottom and the Turret Air Vent Top in the location indicated in Figure B.

Turret Air Vent Top

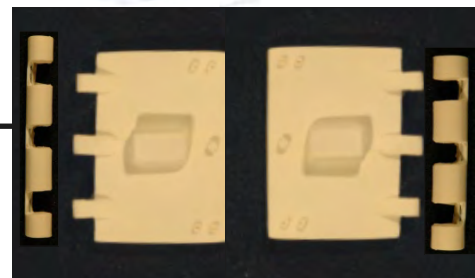


Turret Air Vent Bottom



Step 17. Install the Turret Machine Gun to the depression in the mantlet using Super-glue. See below.

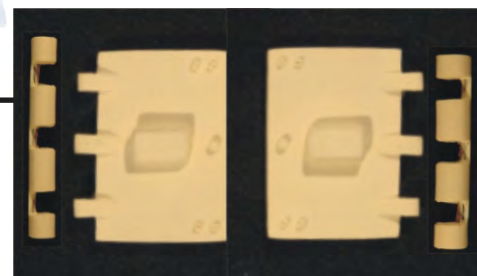
Turret Machine Gun



Left Side Turret Doors and Hinges

Step 18. Fit the Turret Hinges to Turret Doors for each side and secure in place using epoxy. If you wish for the doors to be operational see the Note below.

Note: Align each the hinge and door pair and drill to accept a hinge pin (hinge pin not provided - use a length of baling wire or the like).



Right side Turret Doors and Hinges

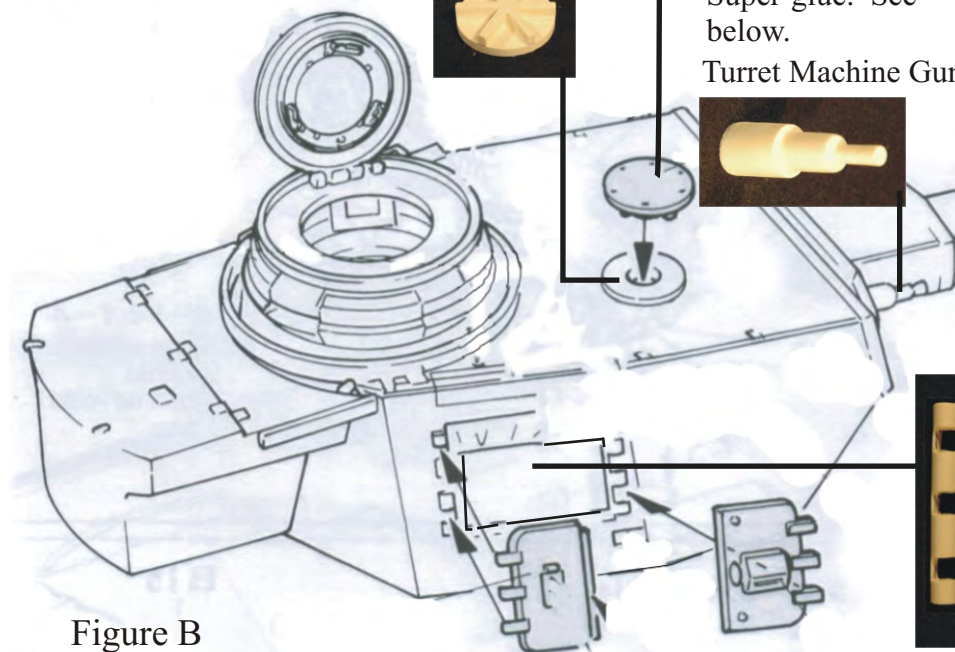


Figure B

Panzer IV Assembly Instructions

Muffler

Step 1. Locate the muffler parts as shown in Figure 1a. Using Super-glue apply the Muffler End Caps to the Muffler Tube (See Figure 1b). Install the Muffler Right Bracket Large in 1-3/4" from the end of the Muffler Tube to the centerline of the Bracket (See Figure 1c). Install the Muffler Left Bracket Large at the left end of the Muffler Tube in approximately 1/8" (See Figures 1d and 1e) making sure the flat mounting surface (the flat portions opposite the top of the hook arch) match. Install one (1) Thin Muffler Bracket at the right end of the Muffler Tube and one (1) on the left side of the Muffler Tube in approx. 5/8" from the Large Bracket (See Figure 1e) making sure the flat portions match the plane of the Large Brackets. Install the Muffler Exhaust Tube onto the assembly as indicated in Figure 1g. The location should be approx. 3/4" in from the edge of the Thin Muffler Bracket to the edge of the Exhaust Tube. The bottom edge of the Exhaust Tube should touch a horizontal line drawn across the Muffler tube at the top edge of the hook portion of the Large Muffler Brackets (See Figures 1g and 1h). Before finally gluing the Exhaust Tube into position hold it in its location and check that it clears the metal of the tank Superstructure. When the assembly is complete it should look like Figure 1i.

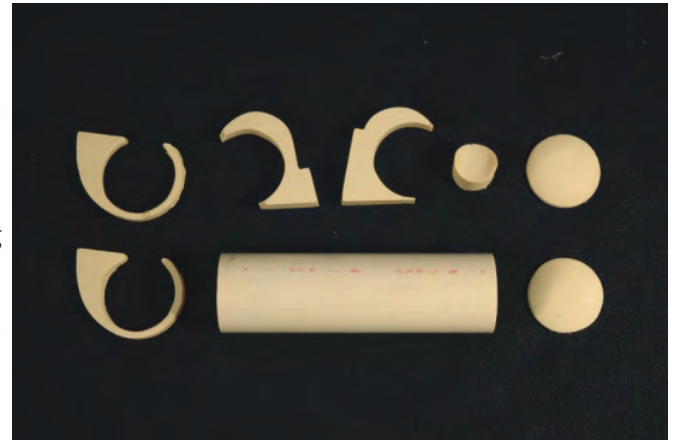


Figure 1a



Figure 1b



Figure 1c



Figure 1d



Figure 1e



Figure 1f



Figure 1g



Figure 1h

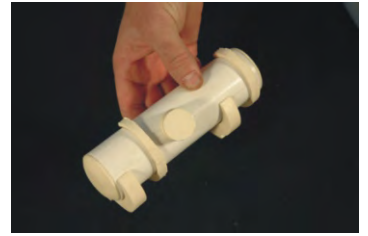


Figure 1i

Step 2. Install the Muffler Assembly in the location shown in Figures 2a, 2b and 2c.



Figure 2a



Figure 2b

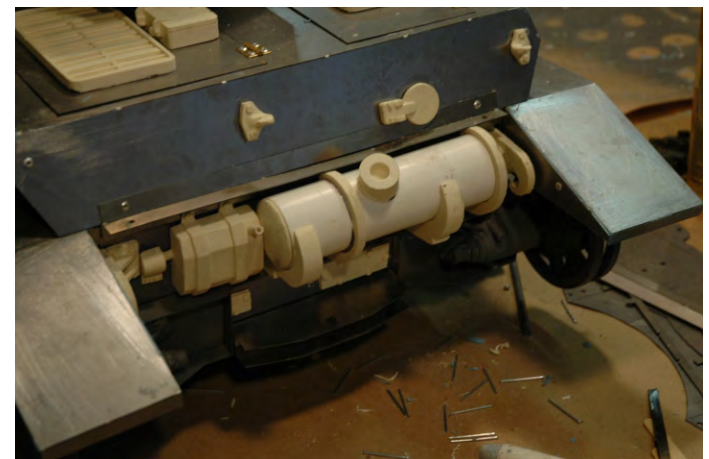


Figure 2c

Note: It would be wise to wait until the Chassis and Upper Deck are assembled before completing this installation. When installing make sure to leave room at the right end of the Muffler Assembly to install the right Tow Hook Assembly (See Section on Individual Part Placement).

Panzer IV Assembly Instructions

Air Cleaner, Manifold and Spare Wheel Holder

AIR CLEANER

Step 1. Locate the Air Cleaner Holder, The Air Cleaner Tubes, The spacer Material, the Air Cleaner Housing and the 1-1/2" by 7" piece of Styrene (See Figure 1a). Using one of the Air Cleaner tubes mark out four (4) circles and cut them out (See Figures 1b and 1c).



Figure 1a



Figure 1b



Figure 1c



Figure 2a



Figure 2b

Step 2. Place one (1) disk at either end of each Air Cleaner Tube and secure in place using Super-glue (See Figure 2a). Drill a hole in one end of each of the Air Cleaner Tubes to accept a 4 1/2" length of Spacer Material. (See Figures 2b and 2c).



Figure 2c

Step 3. Bend the two ends of the metal Air Cleaner Holder to a 90 degree angle (See Figures 3a and 3b). Attach the Air Cleaner Holder midway along the right side of the upper deck opposite the center point of the opening for the turret in the holes provided for attachment (See Figure 3c). Secure in place with Pop Rivets.



Figure 3a



Figure 3b

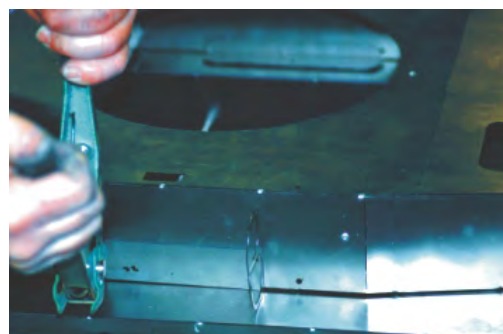


Figure 3c

Step 4. Cut two lengths of the Spacer Material approx. 4 1/2" in length (See Figure 4a). Install the Spacer Material in the holes of the Air Cleaner Housing and insert the Air Cleaner Tubes into the holes of the Air Cleaner Holder (See Figure 4b). Secure the Air Cleaner Tube in place using epoxy.

Note: The Air Cleaner Housing shown in figure 4b is to be installed next (See Step 5)



Figure 4a

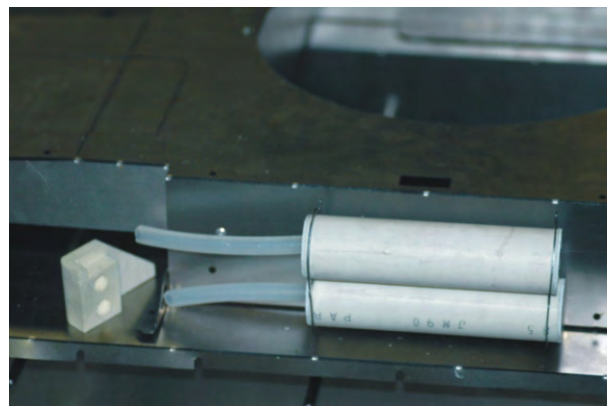


Figure 4b

Panzer IV Assembly Instructions

Air Cleaner, Manifold and Spare Wheel Holder

AIR CLEANER (continued)

Step 5. Install the Air Cleaner Housing (See Figure 5a) on the right side of the Upper Deck adjacent to the Tab on the Upper Deck (See Figure 5c and 5d) that fastens to the Upper Deck to the Chassis. Before securing the Air Cleaner Housing in place using epoxy make sure that the Spacer material has been cut to the proper length and that the entire Assembly fits together harmoniously (See Notes Below) and that the Spacer Materials fit into the Air Cleaner Housing as shown in Figure 5b. When the installation is complete it should resemble Figure 5f.

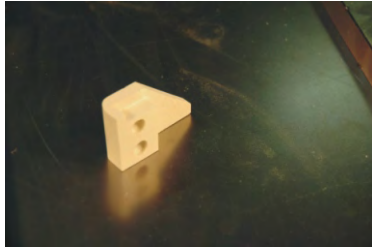


Figure 5a



Figure 5b

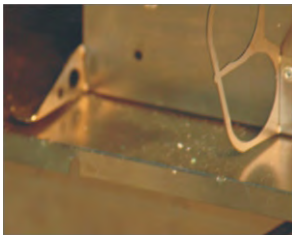


Figure 5c

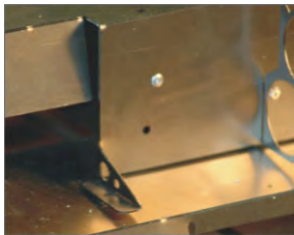


Figure 5d

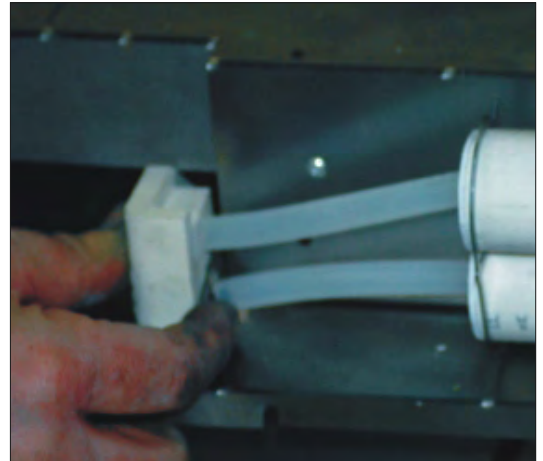


Figure 5e

Note: The bottom hole in the Air Cleaner Housing aligns with the hole in the Tab that is used to secure the Upper Deck to the Chassis and when the Air Cleaner Housing piece is installed the two should line up and the bottom length of Spacer Material should pass through it into the hole in the Air Cleaner Housing.

Note: In order to get the Spacer Material to bend into the configuration you need to complete the Assembly you may need to apply heat. A Hair Dryer will do nicely but be careful not to overheat the material and melt it into a soft gooey ball.

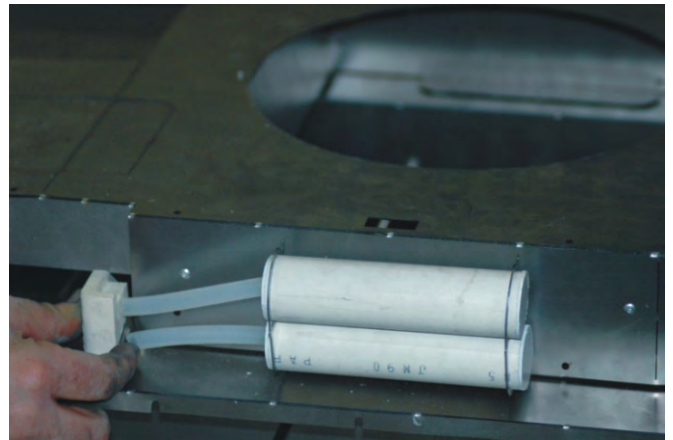
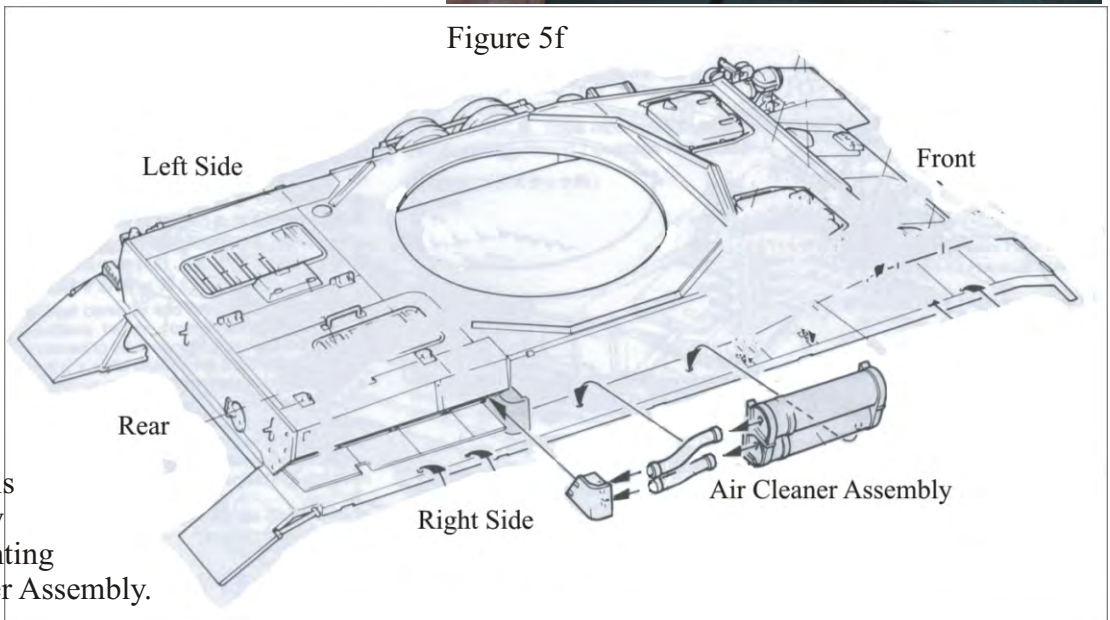


Figure 5f



Breakaway view of Chassis and Upper Deck Assembly Showing the general mounting location for the Air Cleaner Assembly.

Panzer IV Assembly Instructions

Air Cleaner, Manifold and Spare Wheel Holder

MANIFOLD

Step 1. There are two (2) Air Intake Manifold pieces and six (6) Intake Manifold Fins. They are assembled using one (1) Air Intake Manifold piece and three (3) Intake Manifold Fins (See Figure 1a).

Step 2. Bend the tabs at the top and bottom of the Air Intake Manifold pieces to an angle complimentary to the slot in the Intake Manifold Fins (See Figure 2a) and also bend the tabs with the holes in them on the Intake Manifold Fins to a 90 degree angle (See Figure 2b)

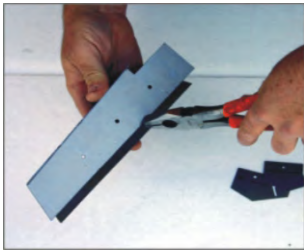


Figure 2a



Figure 2b

Note: Remember there is a left side and a right side and so the tabs on the Intake Manifold Fins need to be in the opposite direction for each side.

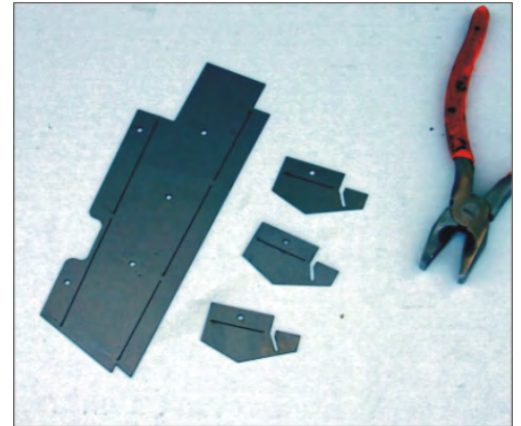


Figure 1a

Step 3. Slip the slots in the Intake Manifold Fins and align the holes in the with the holes in the Air Intake Manifold and secure with Pop Rivets. (See Figure 3a)



Figure 3a



Figure 5a

Note. If you have not yet secured the Upper Deck to the Chassis it may be easier to Install the Manifold Assembly prior to doing so.

SPARE WHEEL HOLDER

Step 1. Locate the Spare Wheel Holder metal piece. (See Figure 1a)

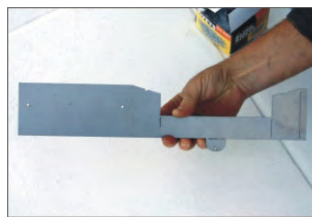


Figure 1a

Step 2. Bend the Spare Wheel Holder piece into a rectangle (See Figures 2a and 2b) and secure the open ends by bending the tab on one to line up with the holes of the other and secure with Pop Rivets.



Figure 2a



Figure 3a

Step 4. When completed you should have two Manifold Assemblies that are the mirror image of one another and resemble Figure 4a.

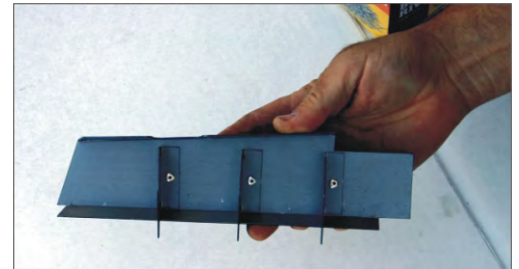


Figure 4a

Step 5. Install the Manifold Assemblies on the right and left sides at the rear of the Upper Deck. The hole in the top tab of the Assembly will line up with the hole in the Upper Deck. Secure with Pop Rivets. (See Figure 5a)

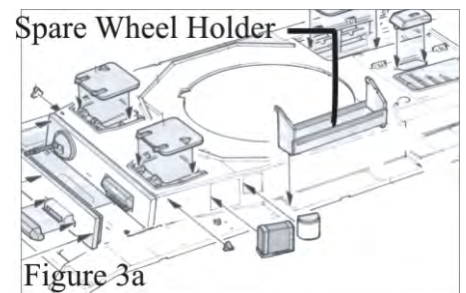


Figure 3a

Step 3. Secure the Spare Wheel Holder to the left side of the Upper Deck (the opposite side of the Air Cleaner) by aligning the hole in the Spare Wheel Holder with those on the Upper and deck and using Pop Rivets (See Figure 3a).

Panzer IV

Assembly Instructions

Individual Part Placement

Rear Brace

Step 1. Locate the metal Rear brace as Shown in Figure 1a.



Figure 1a

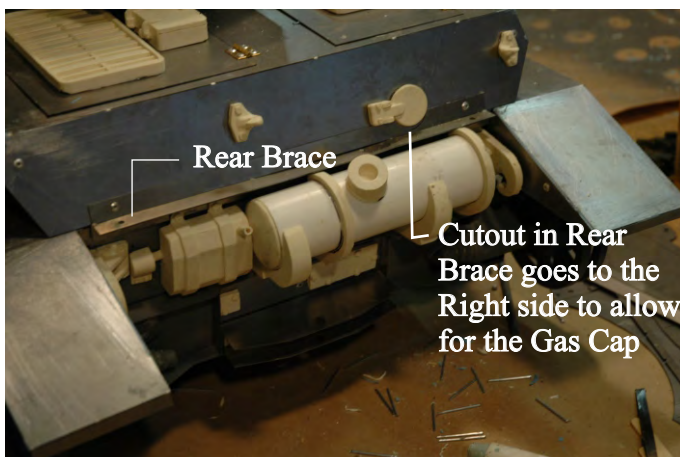


Figure 2a

Step 2. Align the Rear Brace along the bottom of the rear of the Upper Deck with the cutout to the right side and so the holes in the Brace match those in the Upper Deck and secure in place with Pop Rivets. Bend the rear brace up at the seam so that it is horizontal to the ground.

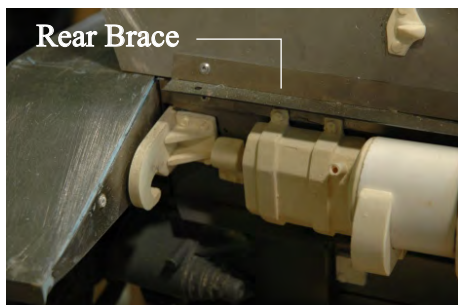


Figure 2b

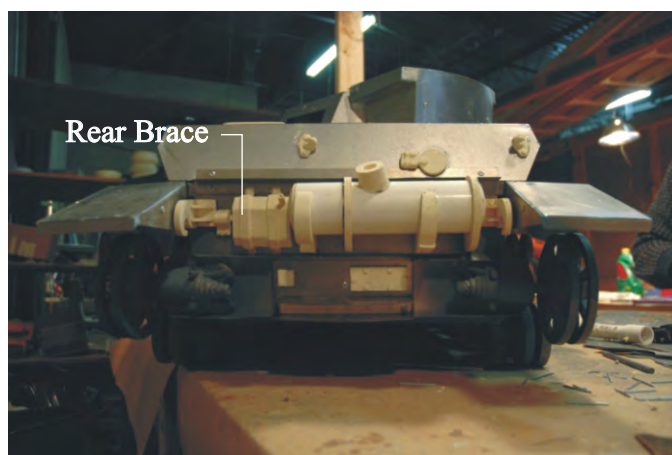


Figure 2c

Rear Tow Hooks

Step 1. There are two (2) Two Hook Assemblies comprised of a Tow Hook and a Tow hook Brace (See Below).

Step 2. Using Super-glue attach one (1) Tow Hook Brace to each Tow Hook as shown in Figure 2a.



Figure 2a



(2) Rear Tow Hook



(2) Rear tow Hook Brace

Step 3. Install the rear Tow Hooks (one (1) on either side) to the position shown in Figures 3a and 3b using epoxy.



Figure 3a

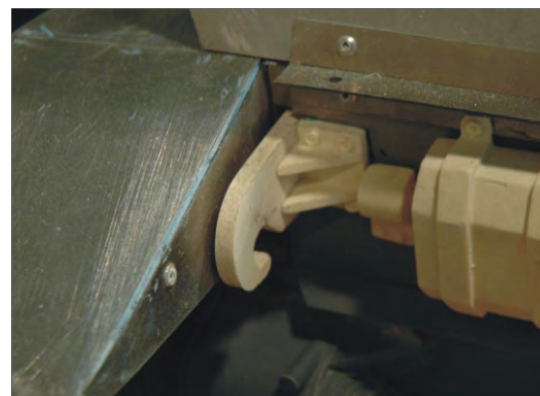


Figure 3b

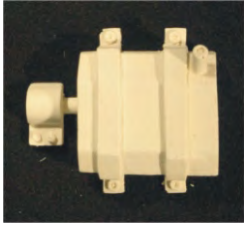
Panzer IV

Assembly Instructions

Individual Part Placement

Turret Motor

Step 1. Install the Turret Motor at the rear of the tank adjacent to the Muffler and the Left Rear Tow Hook (See Figure 1a).



(1) Turret Motor

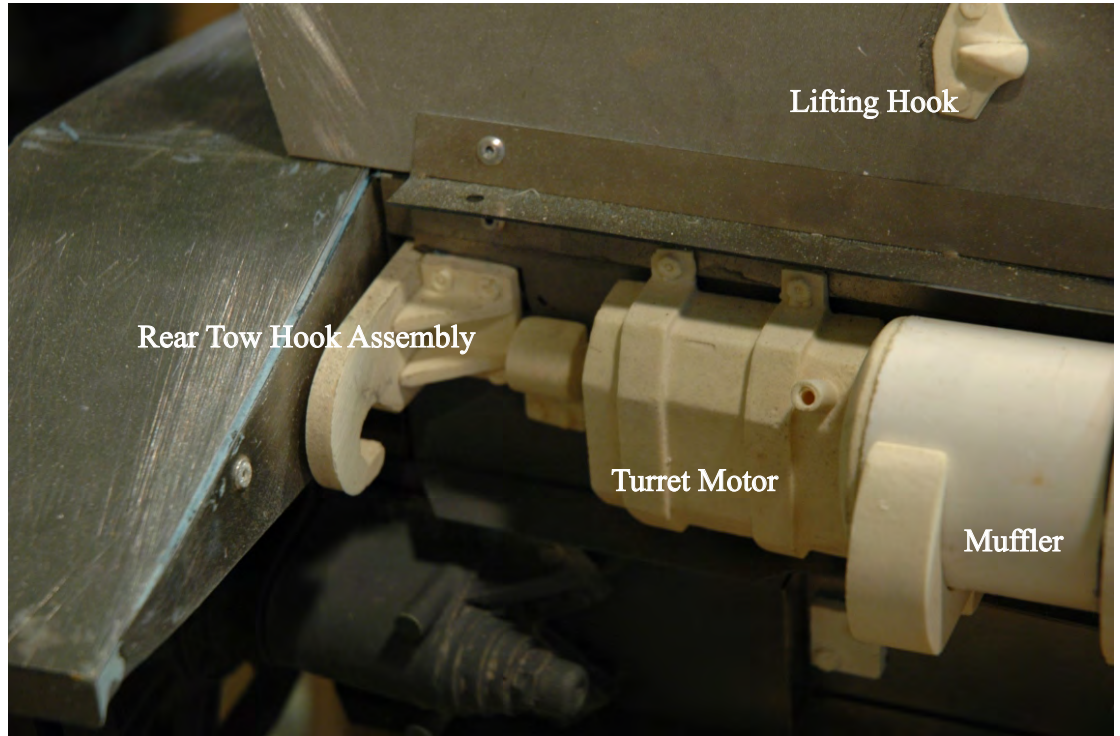


Figure 1a

Headlight and Headlight Bracket

Install the Headlight Bracket By drilling holes in the fender to suit the holes in the Headlight Bracket and secure in place using sheet metal screws or a suitable nut and bolt making sure their length doesn't interfere with the Treads (See Figure A). Secure the Headlight into the bracket using Super-glue (See Figure B).



(1) Headlight Bracket



(1) Headlight



Figure A

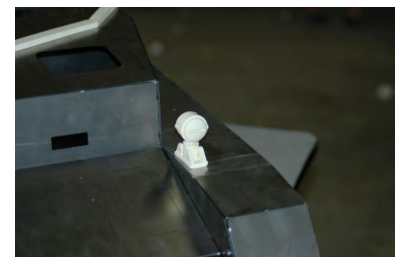


Figure B

Front Tow Shackle

There are two (2) Front Tow Shackles and they are located at the front of the Chassis (one on each side) adjacent to the fender with the cant of the legs on the Shackle facing inward (See Figure A).



(2) Front Tow Shackle



Figure A

Panzer IV

Assembly Instructions

Individual Part Placement

Hull Machine Gun and Ball Machine Gun Mount



(1) Hull Machine Gun



(1) Ball Machine Gun Mount

These two (2) parts go together. Clean the excess resin from the Hull Machine Gun and square off the muzzle. Using a sharp knife or a saw separate the Hull Machine Gun from bulbous end (See Figure A). Inset the Hull Machine Gun into the large hole in the Ball Machine Gun Mount and secure in place using Super-glue (See Figure B and C). See the breakaway on the next page for the mounting position.



Figure A



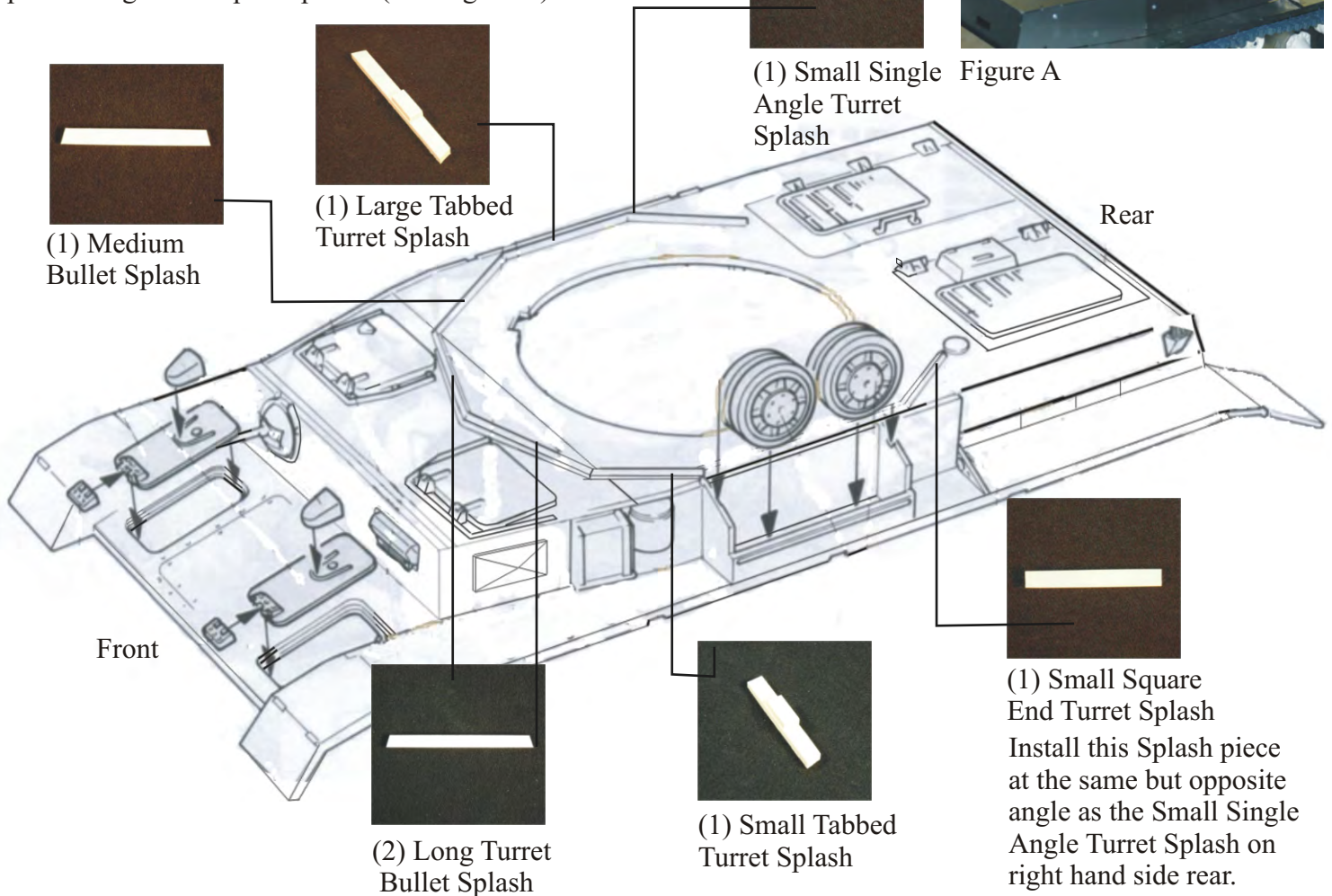
Figure B



Figure C

Turret Splash

The Turret Splash configuration that mounts to the Upper Deck is made up of seven (7) individual pieces (See Below) The tabs on Large Tabbed and Small Tabbed Turret Splashes fit into the cutouts on the Upper Deck To ensure the proper positioning of the Splash pieces (See Figure A).



Panzer IV Assembly Instructions

Individual Part Placement

Placement for (1) Small Vent Cover, (1) Radiator Fill Box, (1) Hull Machine Gun, (1) Ball Machine Gun Mount, (2) Brake Access Cover Vents, (4) Road Wheels, (1) Antenna Mount, (2) Long Turret Bullet Splash, (1) Small Tabbed Turret Splash, (1) Large Tabbed Turret Splash, (1) Small Single Angle Turret Splash, (1) Small Square End Turret Splash, (1) Medium Bullet Splash, (1) Armor Visor Top and (1) Armor Visor Bottom and (2) Bullet Splash Rings.



(1) Small Vent Cover

Install just above the left Motor Access Door and just below the Bullet Splash on the left side of the Upper Deck



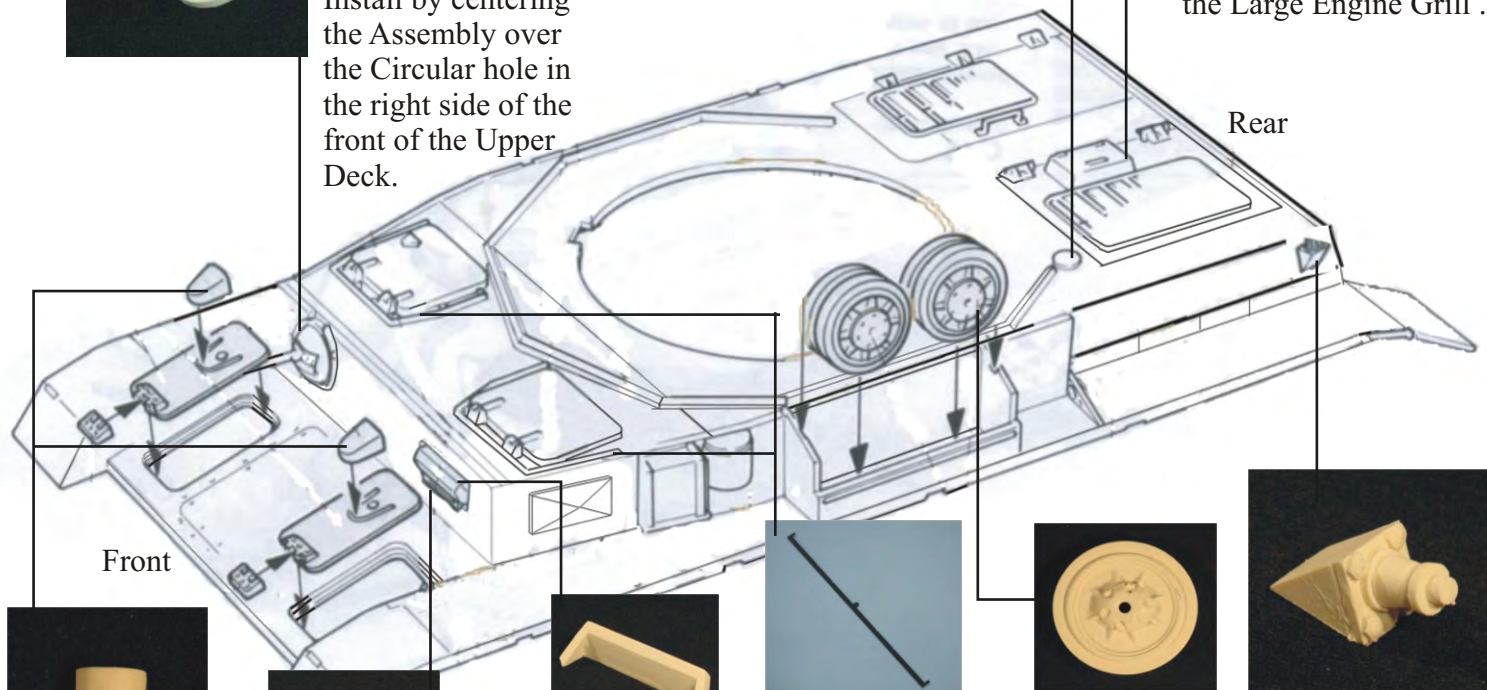
(1) Radiator Fill Box

Install on the left side of the Motor Access Door and the right hand side and about 2/3 of the way up from the bottom and adjacent to the Large Engine Grill .



(1) Hull Machine Gun and Ball Machine Gun Mount Assembly

Install by centering the Assembly over the Circular hole in the right side of the front of the Upper Deck.



(2) Brake Access Cover Vents

Install one on each Access Panel.



(1) Armor Visor Bottom

Install at the bottom of the rectangular opening on the left side of the front of the Upper Deck. The long side is the bottom and the short arms form the sides.



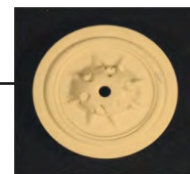
(1) Armor Visor Top

Install over the top of the Visor Bottom so that the inside of the top aligns with the top of the rectangular opening. Using epoxy affix the widest of the two flat surfaces to the Upper Deck with the legs forming the sides.



(2) Bullet Splash Ring

Install one (1) Bullet Splash Ring in a "U" shape around each Hatch. Bend at the joints and insert each tab into the appropriate cutout in the Upper Deck.



(4) Road Wheels

Install in pairs of two (2) as illustrated.



(1) Antenna Mount

Install the Antenna Mount to the rear of the Upper Deck on the left side.

Brummbar Assembly Instructions

Engine Access Doors, Hinge and Engine Grill Assembly

Step 1. Gently twist the individual Engine Access Doors from the Engine Deck Cover (they are attached with two small stitches of metal that allow easy removal) and attach two (2) sets of hinges to the wide door panel and three (3) sets of hinges to the long door panel (see Figure 1a).

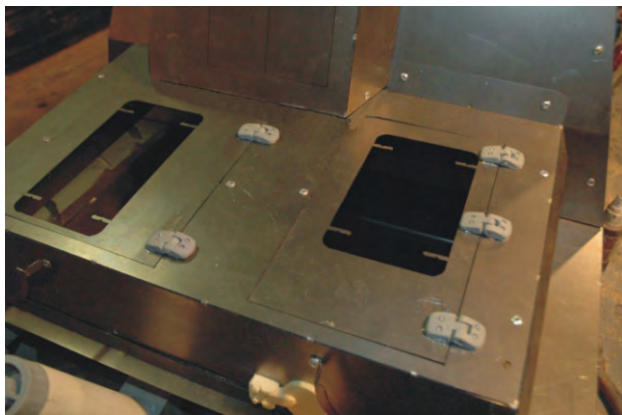


Figure 1a

NOTE: Assemble the hinge halves by drilling a hole through each part and inserting a pin (see Figures 1b, 1c and 1d) through the two halves (here in the shop we use 1/16" copper wire for the pin) and then install them to the door side only.



Figure 1b



Figure 1c



Figure 1d

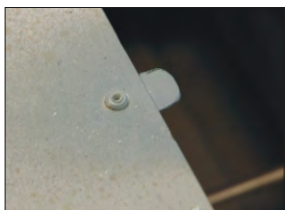


Figure 1e

NOTE: Using a piece of scrape metal it is advisable to create a stop for the Engine Access Doors (See Figure 1e) (and the Brake Access Covers) to close against by Pop Riveting it to the underside of the opening and protruding into the opening.

Step 2. Take each of the Engine Access Doors and install the Engine Grills in them. First bend the four (4) Metal Tabs into what would be where the Engines would be (see Figures 2a and 2b). Lay the Access Door face down and fit the Engine grill into the opening in the metal so that the face of the grill is flush with the metal (see Figure 2c). Bend the Metal Tabs over the Resin Grill piece and place a dab of Epoxy on the back side of each Metal Tab to hold the Grill securely in position (see Figure 2d).



Figure 2b

Figure 2a



Figure 2c



Figure 2d

Panzer IV Assembly Instructions

Individual Part Placement

Placement for (10) Hinge bodies, (10) Hinge Tabs (these are to be made into (10) hinge Assemblies), (1) Right Side Hatch, (1) Left Side Hatch, (1) Small Engine Grille, (1) Large Engine Grill, (2) Armor Side View Ports, (1) Air Vent Cover and (1) Wooden Jack Block.

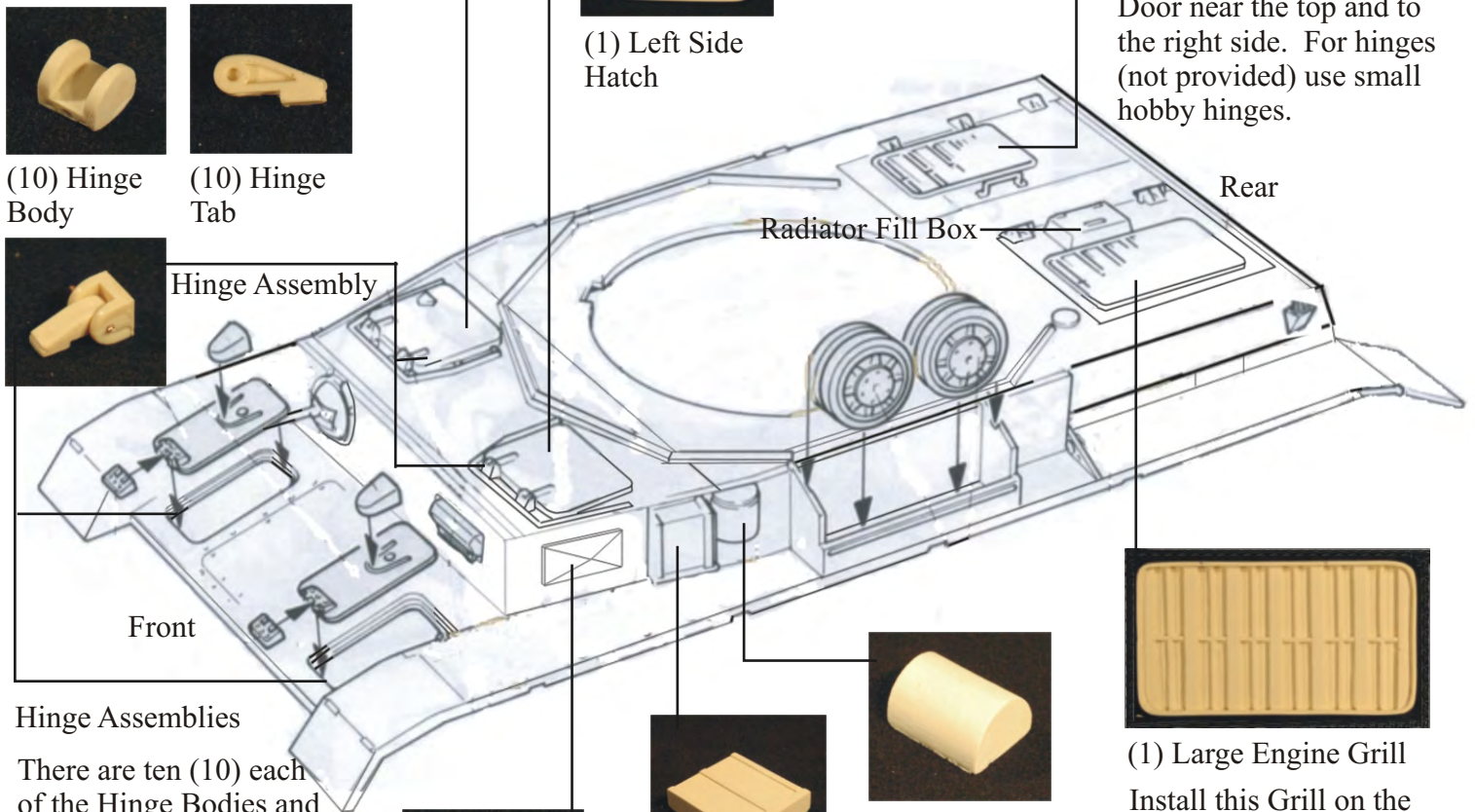


(10) Hinge Body

(10) Hinge Tab

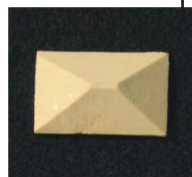


Hinge Assembly

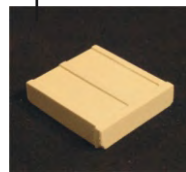


Hinge Assemblies

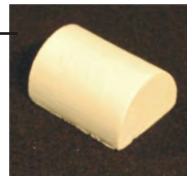
There are ten (10) each of the Hinge Bodies and the Hinge Tabs although only eight (8) Hinge Assemblies are required the extra are for breakage as they are very delicate, Install two (2) Hinge Assemblies to each of the Hatches and two (2) to each of the Brake Access Covers.



(2) Armor Side View Port
Install one Armor Side View Port on each side in the position shown.



(1) Wooden Jack Block
Install the Wooden Jack Block to the Position shown.



(1) Air Vent Cover
Install Air Vent Cover to the location shown to the right of the Wooden Jack Block.

Hatches

Install the Hatches over the forward openings in the Upper Deck using two hinge Assemblies for each Hatch. The Bolt Detail should be to the top and to the edge of the tank.



(1) Right Side Hatch



(1) Left Side Hatch



(1) Small Engine Grille

Install this Grille on the right side Engine Access Door near the top and to the right side. For hinges (not provided) use small hobby hinges.



(1) Large Engine Grille

Install this Grille on the left side Engine Access Door and mount to the top and to the left side. Make sure there is room for the Radiator Fill Box. For hinges (not provided) use small hobby hinges.

Panzer IV Assembly Instructions

Individual Part Placement

Placement for (2) Lifting Hooks, (1) Gas Cap, (2) Rear Tow Hook Assemblies (consisting of two (2) Rear Tow Hooks and (2) Rear Tow Hook Braces).

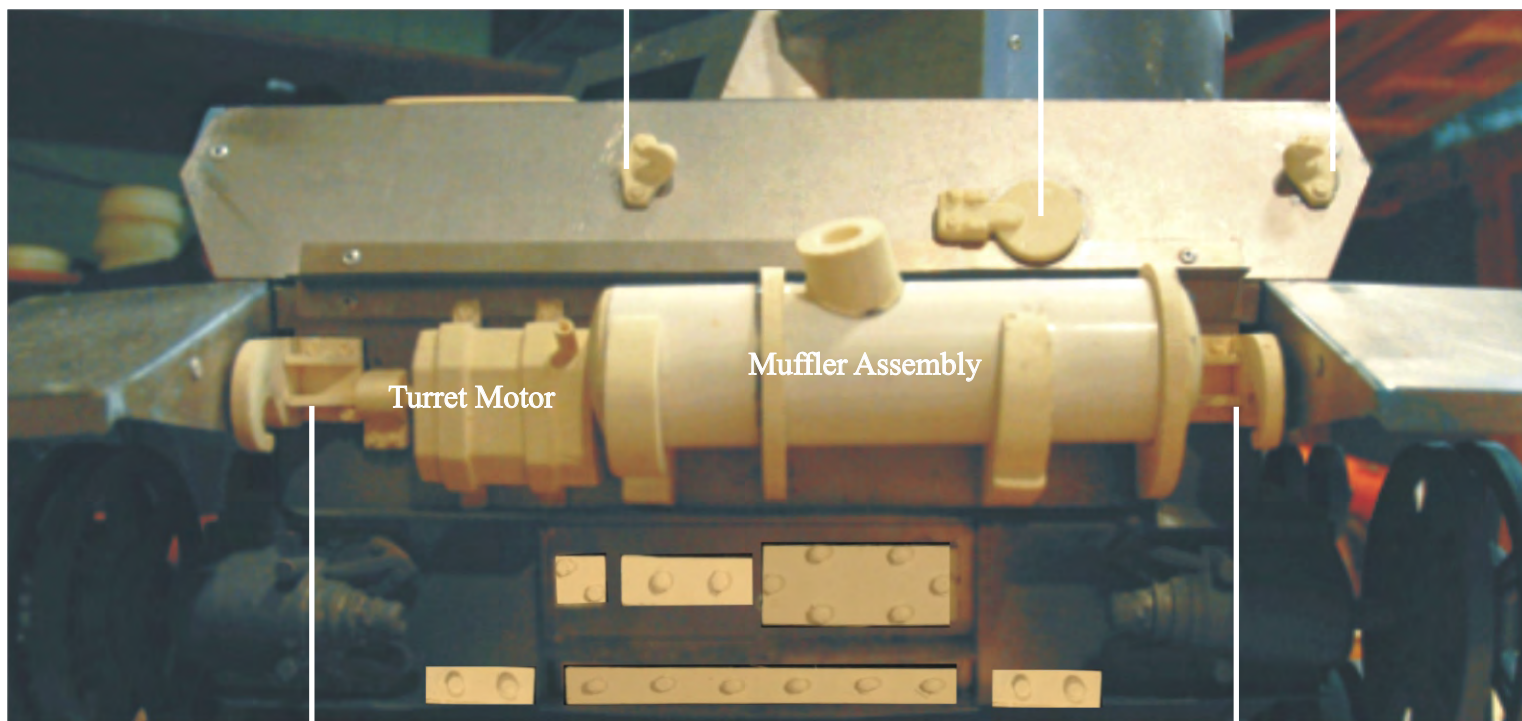
(1) Lifting Hook
Install one (1) Lifting Hook to the left of center on the rear of the Upper Deck as shown



Gas Cap
Install the Gas Cap so that the bottom curve of it fit into the cutout of the Rear Brace.



(1) Lifting Hook
Install one (1) Lifting Hook to the right side on the rear of the Upper Deck as shown



Rear View



(1) Rear Tow Hook Assembly
Install one (1) Rear Tow Hook Assembly to left side rear on the Chassis just under the Rear Brace



(1) Rear Tow Hook Assembly
Install one (1) Rear Tow Hook Assembly to left side rear on the Chassis just under the Rear Brace

Panzer IV

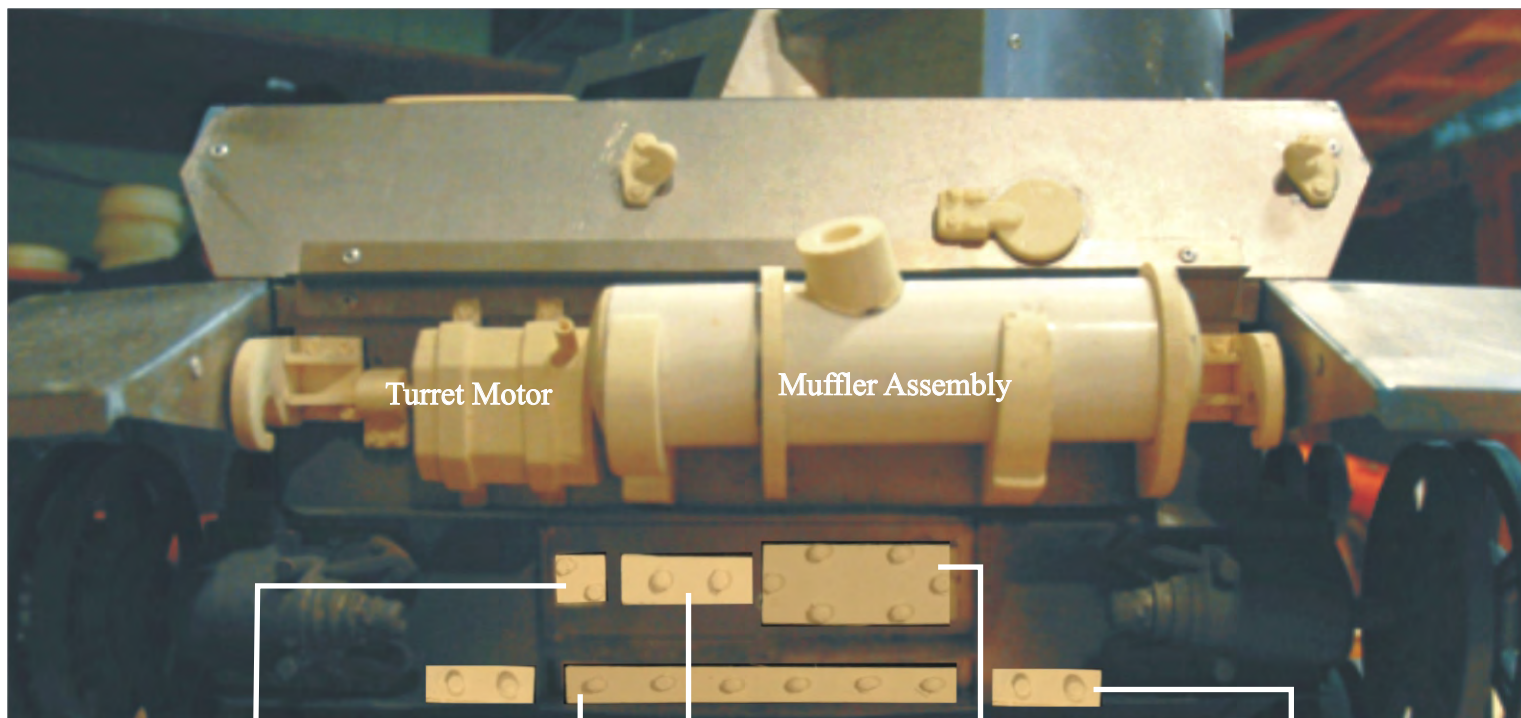
Assembly Instructions

Individual Part Placement

Bolt Details

Placement locations for Bolt Details #1, #2, #3, #4 and #5.

Rear View



(1) Rear Bolt Detail #1

Install this Bolt Detail above the rear Towing Bracket inside the Towing Bracket Housing on the left side.



(1) Rear Bolt Detail #4

Install this Bolt Detail horizontally inside the Towing Bracket



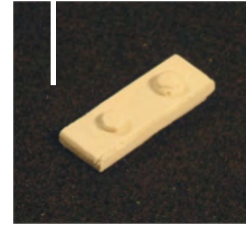
(1) Rear Bolt Detail #2

Install this Bolt Detail between Bolt Detail #1 and Bolt Detail #5 above the Towing Bracket



(1) Rear Bolt Detail #5

Install this Bolt Detail above the rear Towing Bracket inside the Towing Bracket Housing on the right side.



(2) Rear Bolt Detail #3

Install one (1) Bolt Detail on either side between the Towing Bracket Brace and the Idler Mount Assembly

Chassis Service Hatch

Install the Chassis Service Hatches on the left side of the Chassis. One (1) in front as shown in Figure A and one (1) in the rear as shown in Figure B.

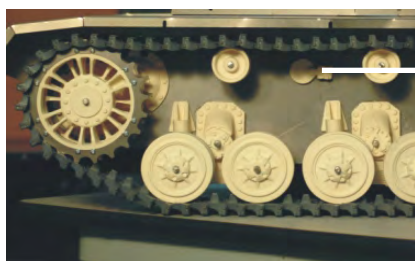


Figure A



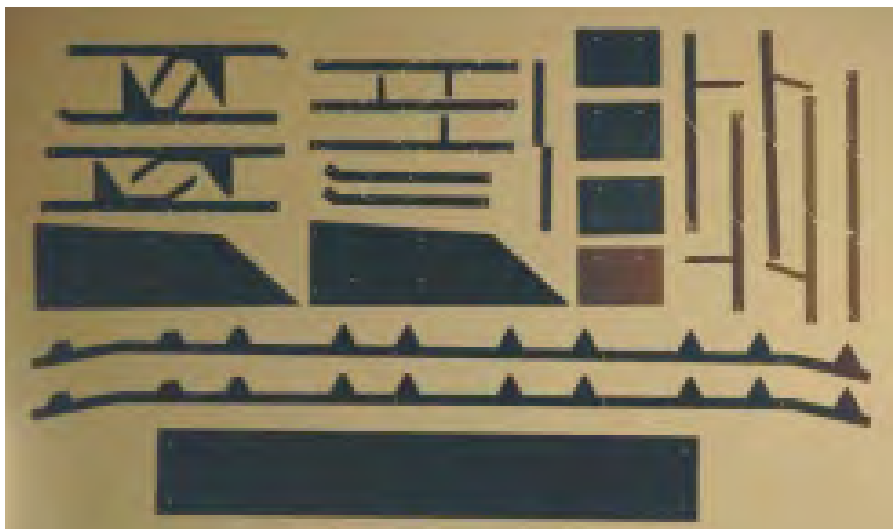
(2) Chassis Service Hatch



Figure B

Panzer IV Assembly Instructions

Turret Schuertzen (Accessory Package "A")



These are all the parts that should be in your Schuertzen Accessory Kit "A". It should be noted that this Kit contains the hangers for the Side Shields available in our Schuertzen Accessory Kit "B".

NOTE: The notches in the Brackets indicate the points along the length of the Bracket shaft that there is a bend to be made. Some notches are used in combination to define the angle at which the Bracket shaft is to be bent. Also **the Bracket for the Right Side is the Mirror image of the Left Side and should be bent in exactly the opposite configuration.**

Step 1. Locate the two (2) Turret Side Shield Brackets (Rear) and bend them into the configuration as shown in Figure 1a, 1b and 1c. **The Bracket for the Right Side is the Mirror image of the Left Side and should be bent in exactly the opposite configuration.**



Figure 1a



Figure 1b



Figure 1c

Note: These brackets are to be installed using Pop Rivets to the location shown in **Step 4** on either side of the Turret.

(2) Turret Side Shield
Bracket (Rear)
PZK512M

Step 2. Locate the two (2) Turret Side Shield Brackets (Center). Bend the Bracket along the seam between the shaft and the body to 90 degrees as shown in Figure 2a and then bend into the configuration as shown in Figure 2b and 2c. **The Bracket for the Right Side is the Mirror image of the Left Side and should be bent in exactly the opposite configuration.**



Figure 2a



Figure 2b



Figure 2c

Note: These brackets are to be installed using Pop Rivets to the location shown in **Step 4** on either side of the Turret.

(2) Turret Side
Shield Bracket (Center)
PZK513M

Panzer IV Assembly Instructions

Turret Schuertzen (Accessory Package “A”)

Step 3. Locate the two (2) Turret Side Shield Brackets (Front) and bend them into the configuration as shown in Figure 3a, 3b, 3c, 3d, 3e and 3f. **The Bracket for the Right Side is the Mirror image of the Left Side and should be bent in exactly the opposite configuration.**



Figure 3a

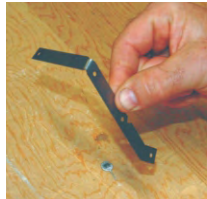


Figure 3b



Figure 3c



Figure 3d

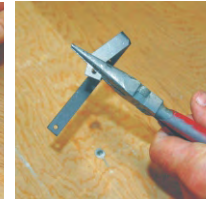


Figure 3e



Figure 3f

(2) Turret Side Shield
Bracket (Front)
PZK514M

Note: These brackets are to be installed using Pop Rivets to the location shown in **Step 4** on either side of the Turret.

Step 4. Secure the Front, Center and Rear Brackets to the Turret as shown in Figure 4a by aligning the holes in the Turret and the holes in the Bracket and using Pop Rivets (See Figure 4b).



Figure 4a



Figure 4b

Step 5. Locate the two (2) Turret Side Shields and bend the front, angled portion at the seam into the configuration as shown in Figure 5a.



(2) Side Turret Shield
PZK517M

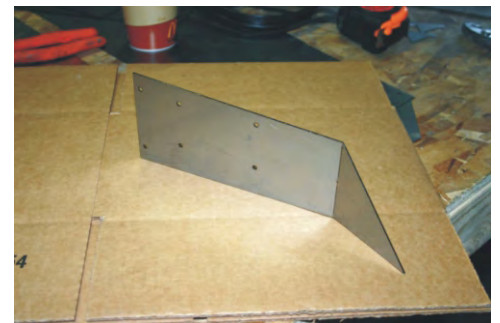


Figure 5a

Step 6. Line up the holes in the Brackets and the Side Shields and secure in place using Pop Rivets (See Figures 6a, 6b and 6c). Make sure the pointed end is at the bottom (and that you don't put your eye out).

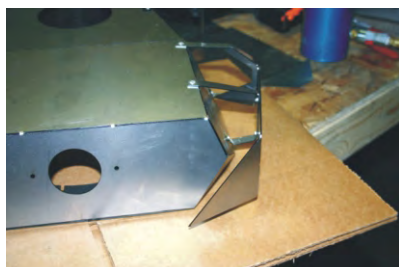


Figure 6a



Figure 6b



Figure 6c

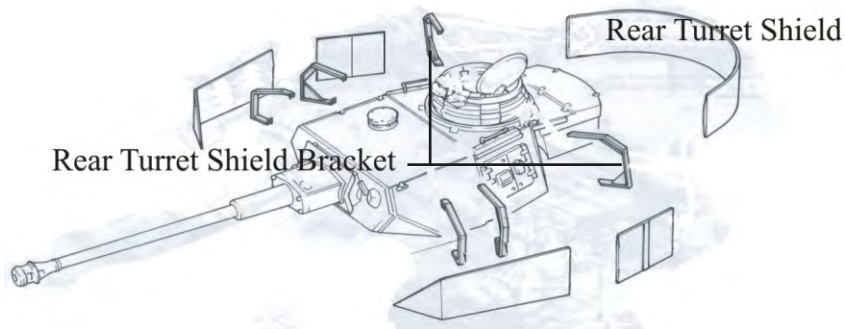
Panzer IV Assembly Instructions

Turret Schuertzen (Accessory Package “A”)

Step 7. Locate the Rear Turret Shield and bend it into a semi-circle shape. Position the Rear Turret Shield around the rear of the Bustle and align the hole in the Rear Turret Shield with the holes in the Rear Turret Shield Bracket. Secure in place using Pop Rivets.



(1) Rear Turret Shield
PZK516M



Step 8. Locate the four (4) Doors and the Door Latch. Break the Door Latch into two (2) individual pieces. Place one (1) piece along the edge of the Door opposite the edge with the holes in it and so that the edge of the Door laps over the latch half way. Secure in place using Epoxy.



(4) Door
PZK518M



(1) Door Latch
PZK519M

Note: The later versions of the Panzer IV do NOT have holes in the doors and in any case you will need to drill holes in the doors to accept the hobby hinges (not provided) and fill the holes in the doors prior to painting.

Step 9. Using Hobby hinges (not provided) on one side of the tank attach one (1) Door (the one with the Latch attached and with the latch to the outside) to the Front Turret Side Shield and one (1) Door (without a Latch attached) to the Rear Turret Shield. Repeat the process for the other side (See Figure below).

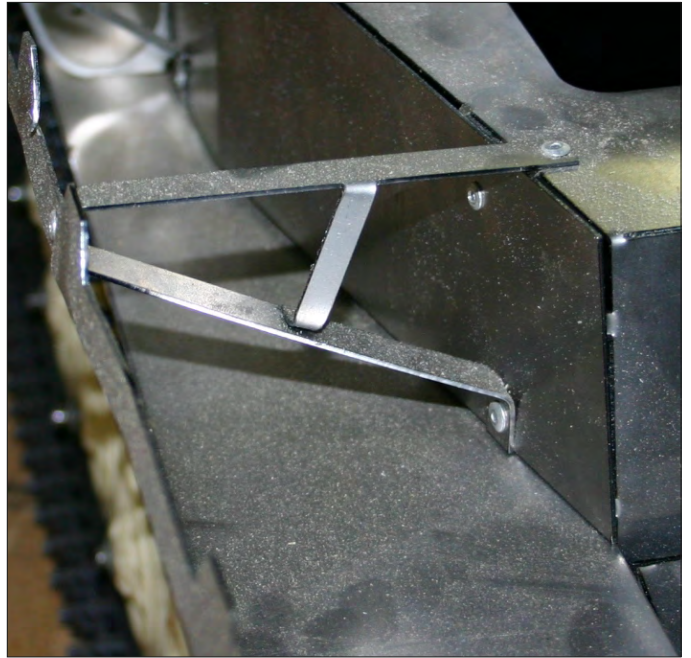
Note: The later versions of the Panzer IV do NOT have holes in the doors and in any case you will need to drill holes in both the doors and the Side and Rear Shields to accept the hobby hinges (not provided) and to fill the holes in the doors prior to painting.



Panzer IV Assembly Instructions

Turret Schuertzen (Accessory Package “A”)

Step 10. We are now ready to install the Brackets for mounting Side Shield Hangers. There are eight (8) Brackets in total and are installed to the Upper Deck. First locate the two (2) Upper Deck (Hull) Side Shield Hanger Brackets (Front) and bend them into the configuration as Shown in Figure 10a. Align the holes in the Bracket with the holes in the Upper Deck and secure in place with Pop Rivets. **The Bracket for the Right Side is the Mirror image of the Left Side and should be bent in exactly the opposite**

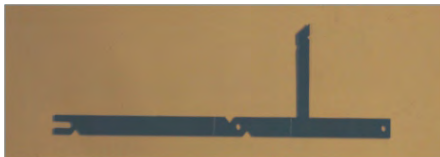


(2) Upper Deck (Hull) Side Shield
Bracket (Front)
PZK522M

Figure 10a

NOTE: The notches in the Brackets indicate the points along the length of the bracket shaft that there is a bend to be made.

Step 11. Locate the two (2) Upper Deck (Hull) Side Shield Hanger Bracket (Rear) and bend them into the configuration as Shown in Figure 11a. Align the holes in the Bracket with the holes in the Upper Deck and secure in place with Pop Rivets. **The Bracket for the Right Side is the Mirror image of the Left Side and should be bent in exactly the opposite configuration.**



(2) Upper Deck (Hull) Side Shield
Bracket (Rear)
PZK526M

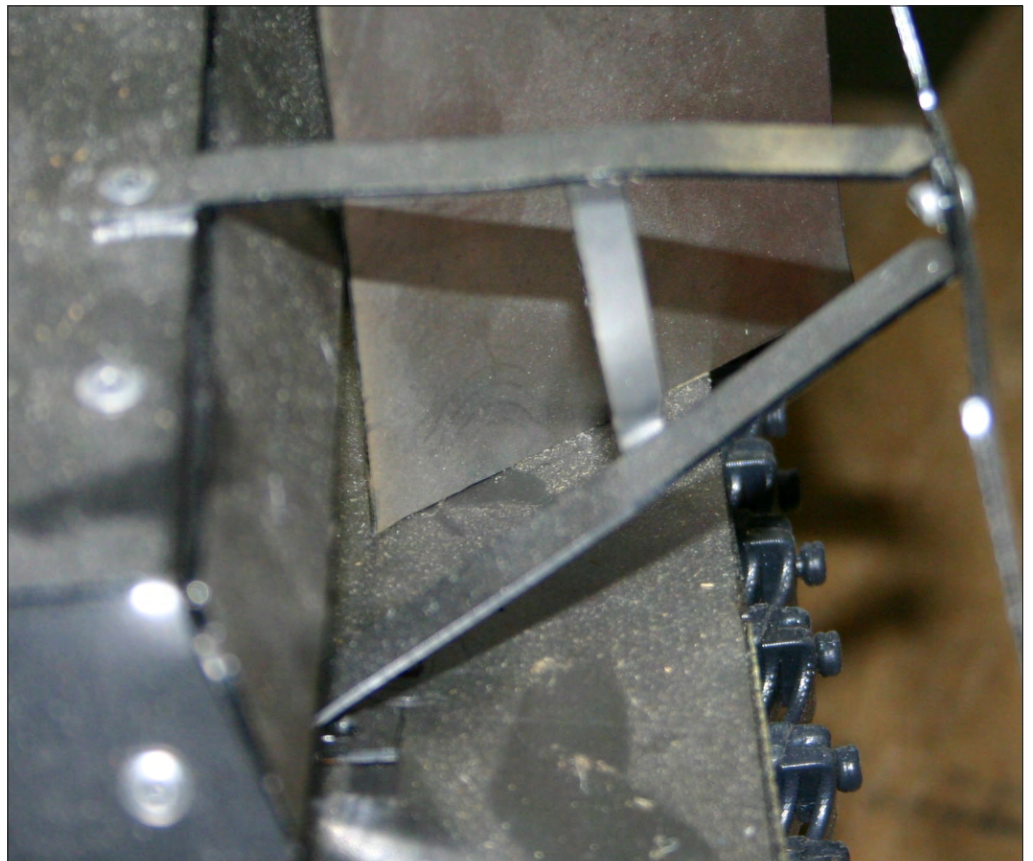


Figure 11a

Panzer IV Assembly Instructions

Turret Schuertzen (Accessory Package "A")

Step 12. Locate the three (3) Upper Deck (Hull) Side Shield Hanger Brackets (Middle) and bend them into the configuration as Shown in Figure 12a. Align the holes in the Bracket with the holes in the Upper Deck and secure in place with Pop Rivets. These Brackets are the two (2) Middle Brackets on the Left Hand side of the tank and the Front most middle bracket on the right hand side of the tank. There is a special bracket that goes to the Air Cleaner Location. **The Bracket for the Right Side is the Mirror image of the Left Side and should be bent in exactly the opposite configuration.**

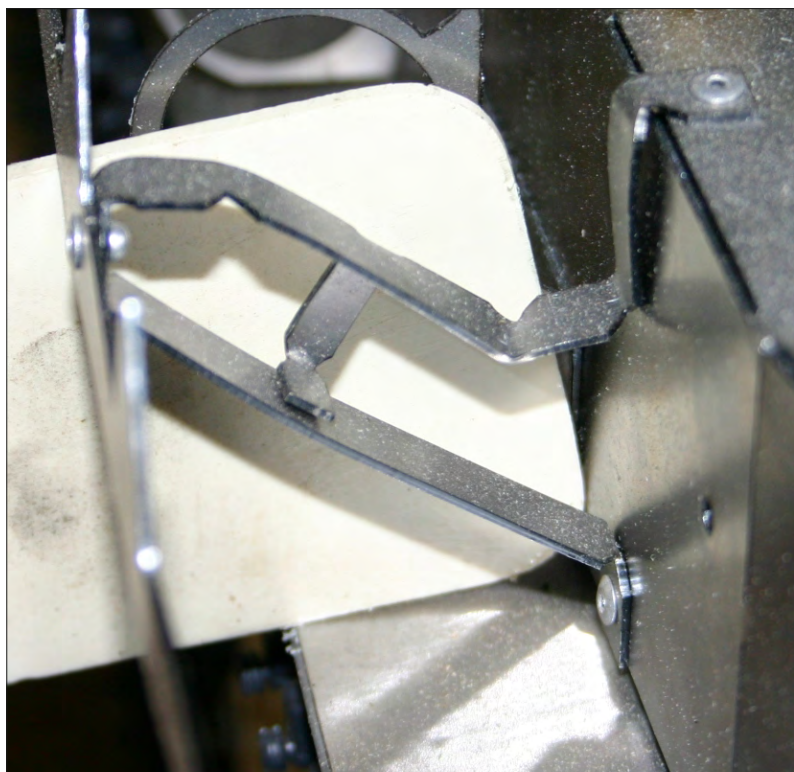


Figure 12a



(3) Upper Deck (Hull) Side Shield Bracket
(Middle)
PZK523M

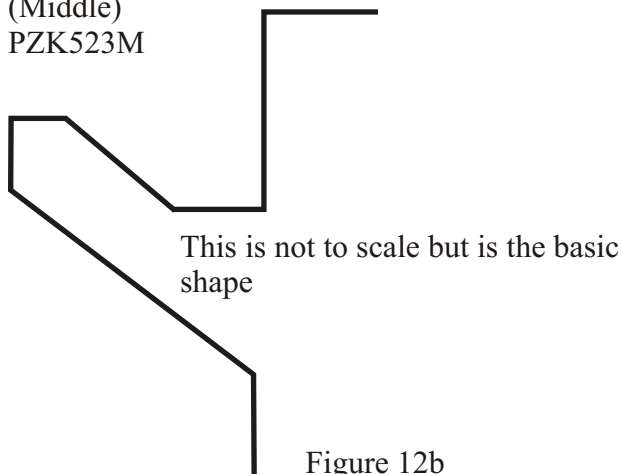
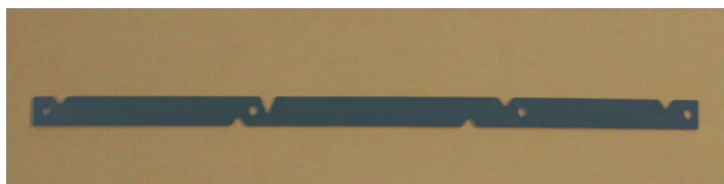


Figure 12b

Step 13. Locate the one (1) Upper Deck (Hull) Side Shield Hanger Brackets (Middle) and bend it into the configuration as Shown in Figure 13a. This is the special bracket that goes to the Air Cleaner Location. Align the holes in the Bracket with the holes in the Upper Deck and secure in place with Pop Rivets. **The Bracket for the Right Side is the Mirror image of the Left Side and should be bent in exactly the opposite configuration.**



(1) Upper Deck (Hull) Side Shield Bracket (Middle -
Special)(At Air Cleaner)
PZK525M

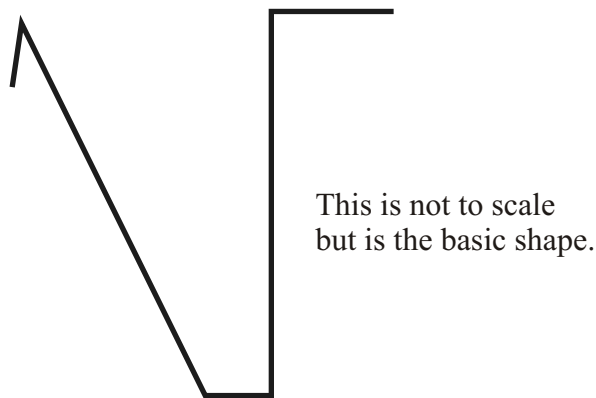
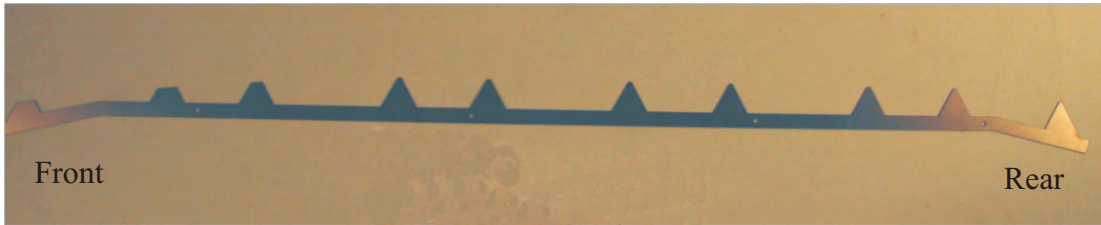


Figure 13a

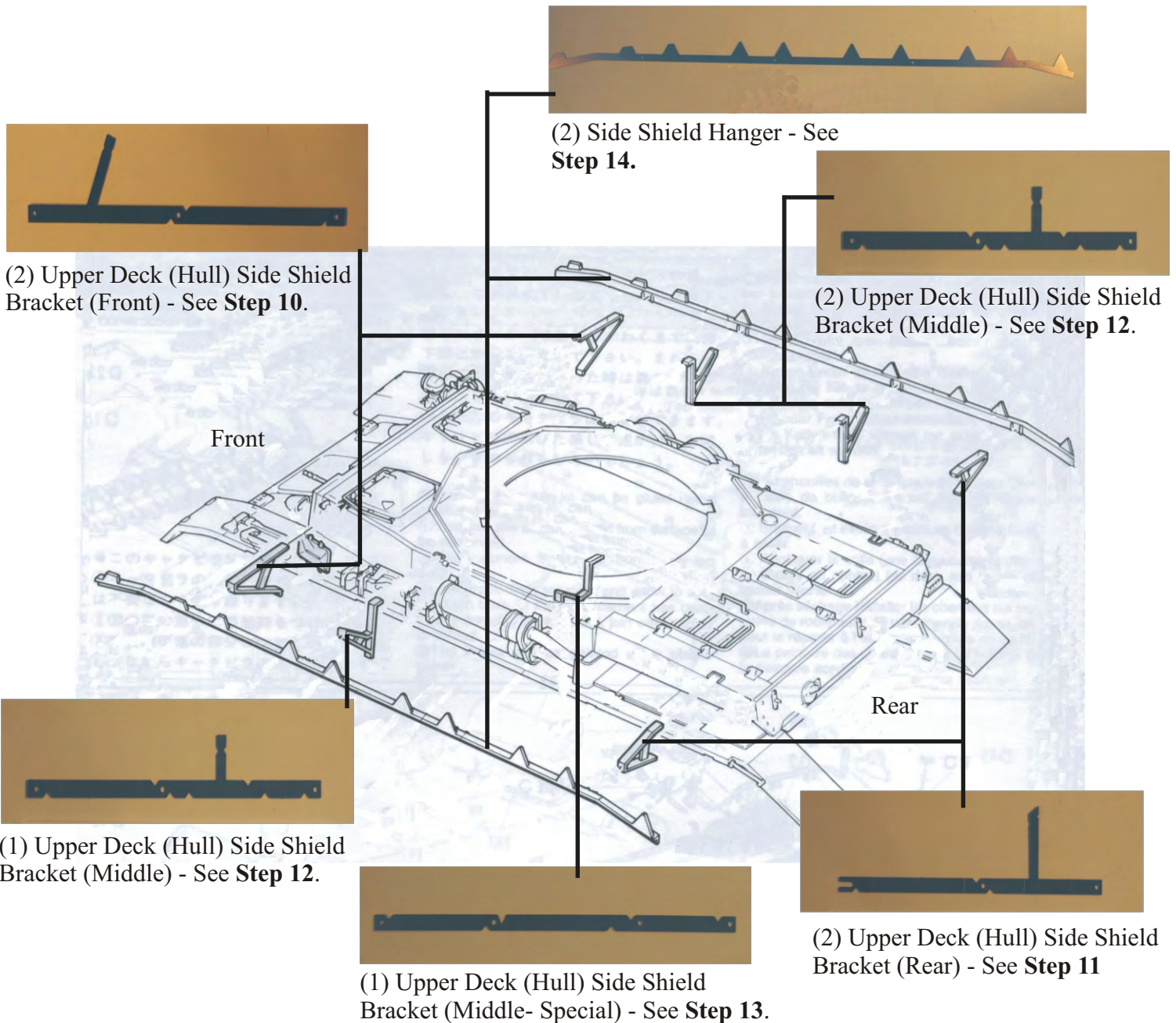
Panzer IV Assembly Instructions

Turret Schuerten (Accessory Package "A")

Step 14. Locate the two (2) Side Shield Hangers. With the jagged side to the top and the sharper angle in the length to the front align the holes in the Side Shield Hangers with the holes in the Side Shield Brackets secure in place with Pop Rivets.

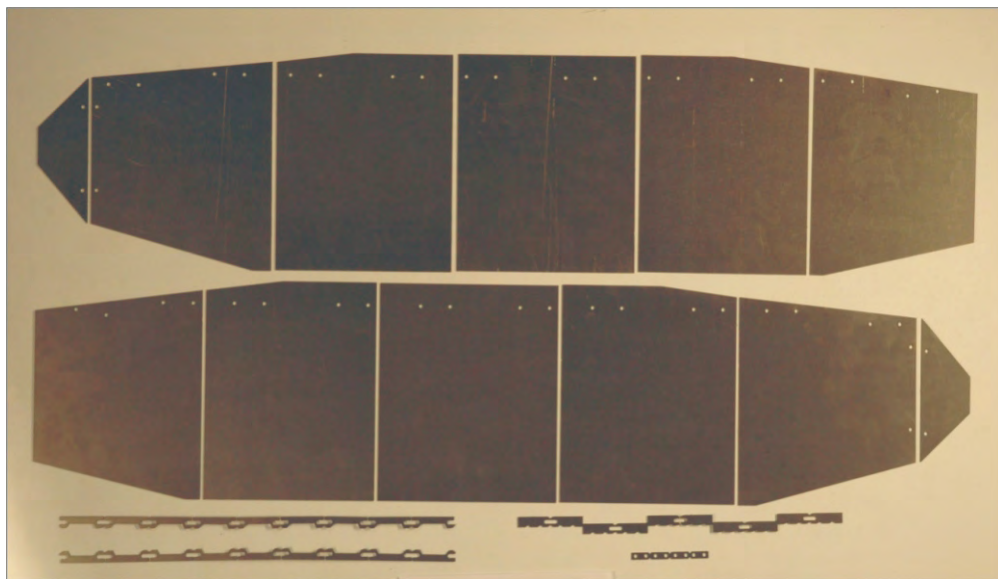


(2) Side Shield Hanger
PZK521M



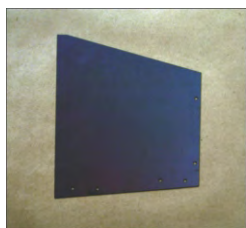
Panzer IV Assembly Instructions

Side Schuertzen (Accessory Package "B")

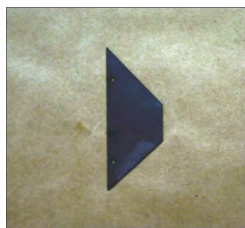


These are all the parts that should be in your Schuertzen Accessory Kit "A". It should be noted that this Kit contains the hangers for the Side Shields available in our Schuertzen Accessory Kit "B".

Step 1. Locate the Side Skirt Panel 1A and Side Skirt Panel 1B and Front Side Shield Fasteners. Break the Front Side Shield Fasteners in to four (4) individual pieces. With Two (2) of the fasteners Join Side Skirt Panel 1A to Side Skirt Panel 1B by aligning the holes in the Fasteners with the holes in the Side Skirt Panels and securing them with Pop Rivets. The resultant is a single Side Skirt Panel #1 (See Figure 1a).



(2) Side Skirt
Panel #1B
PZK532M



2) (Side Skirt
Panel #1A
PZK533M



(1) Front Side
Shield Fastener
PZK527M

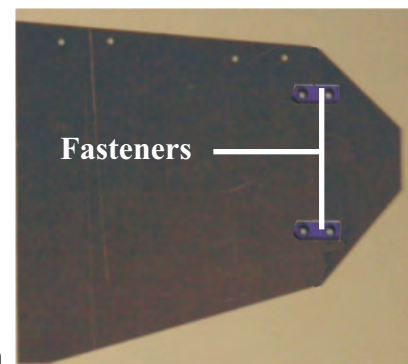
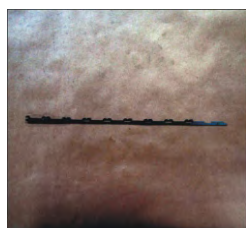


Figure 1a

Step 2. Locate the two (2) Side Shield Attachment Clips and break them into Twenty (20) individual pieces and allocate two (2) clips for each Side Panel. Bend the individual Side Shield Attachment Clips to the shape as shown in Figure 2a and then attach two (2) Clips to the back sides of each of Side Skirt Panels #1, #2, #3, #4 and #5 using Pop Rivets (See Figure 2b).



(2) Side Shield
Attachment Clip
PZK515M

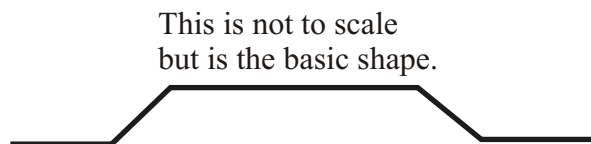


Figure 2a

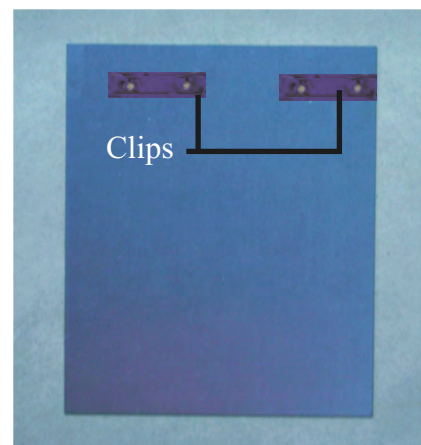


Figure 2b

Panzer IV Assembly Instructions

Side Schuerten (Accessory Package “B”)

Step 3. Locate the Fender Spacer part and separate it into ten (10) individual pieces. Bend the notched end 90 degrees at the first notch along the shaft (See figure 3a). Locate the five (5) notches along the edge of the Fenders on either side (See Figure 3b) and secure the Fender Spacer in place using a Pop Rivet (See Figure 3c). At the second notch along the shaft bend the Fender Spacer down 90 degrees. Repeat the process with each of the other nine (9) Spacers.



(1) Fender Spacer
PZK520M



Figure 3a



Figure 3b

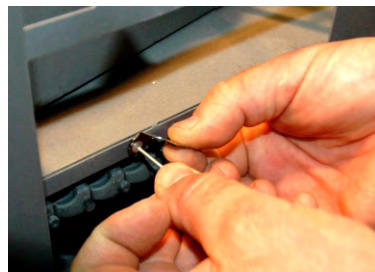
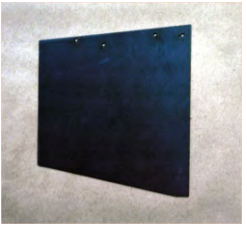


Figure 3c



Figure 3d

Step 4. Hang the Side Skirt Panels on the Side Shield Hanger included in Accessory Package “A”. The Panel arrangement is as shown below.



(2) Side Skirt
Panel #5
PZK528M



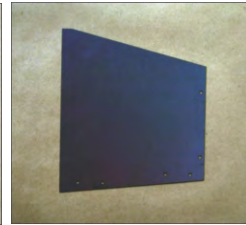
(2) Side Skirt
Panel #4
PZK529M



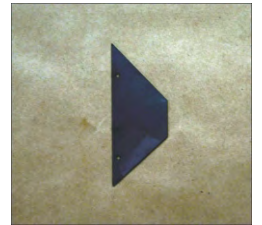
(2) Side Skirt
Panel #3
PZK530M



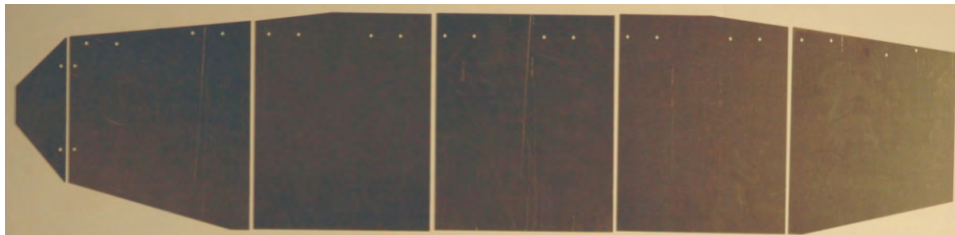
(2) Side Skirt
Panel #2
PZK531M



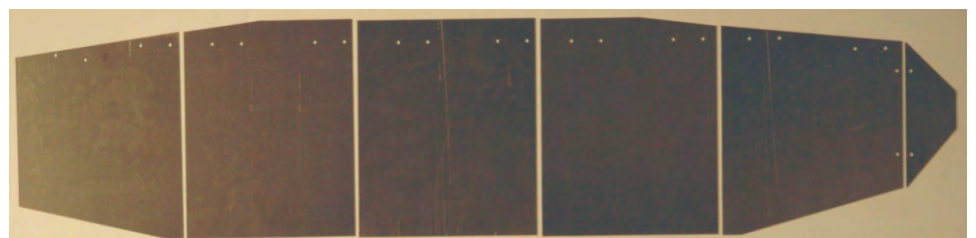
(2) Side Skirt
Panel #1B
PZK532M



(2) Side Skirt
Panel #1A
PZK533M



Left Side Skirt Panel Arrangement



Right Side Skirt Panel Arrangement