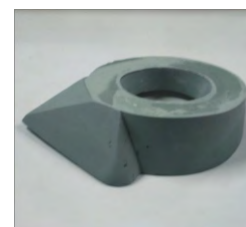
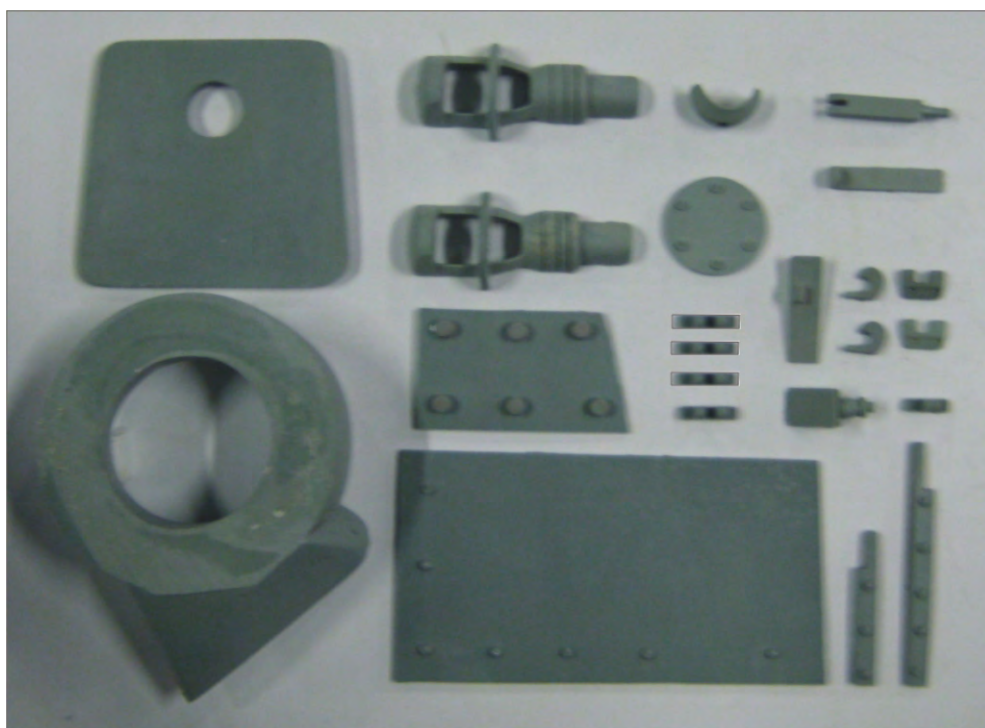


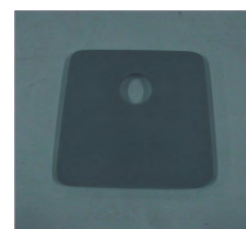
# Stug IV Parts

## Bag 1 Contents (17 Parts - 23 Pieces)

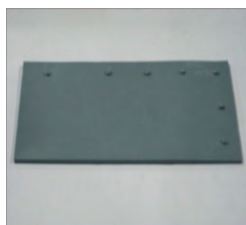
Note : Quantity of part indicated in ( )



(1) Cupola/Commander's Hatch Base  
BRA006-401R



(1) Mantlet Back Plate  
BRA006-402R



(1) Hull Deck Thickener  
BRA006-403R



(1 ) Gunner's Enclosure Bolt Detail  
BRA006-404R



(1) Travel Rest Seat  
BRA006-405R



(1) Travel Rest Arm  
BRA006-406R



(1) Travel Rest Base  
BRA006-407R



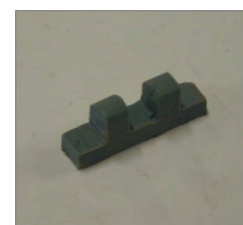
(1) Machine Gun Shield Hinge Base  
BRA006-408R



(1) Machine Gun Shield Hinge Block  
BRA006-409R



(2) Machine Gun Shield Hinge  
BRA006-410R



(4) Machine Gunner Access Door Hinge Base -  
BRA006-411R



(2) Tie Down Hooks  
BRA006-412R



(2) Muzzle Break  
BRA006-413R



(1)Periscope Bolt Detail A (Short)  
BRA006-414R



(1) Periscope Bolt Detail B (Long)  
BRA006-415R



(1) Rear Crew Compartment Vent  
BRA006-416R

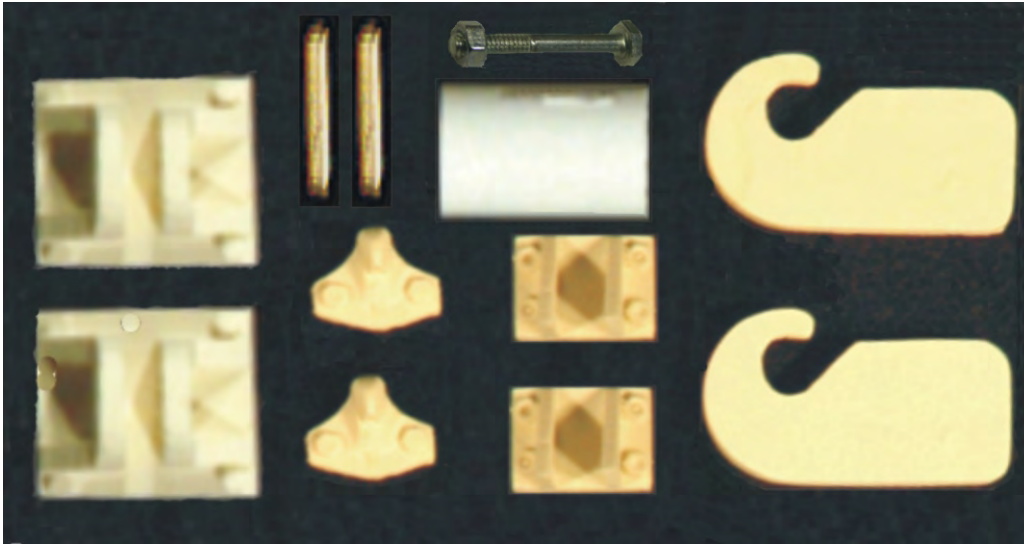


(1) Antennae Mount  
BRA006-417R

# Stug IV Parts

## Bag 2 Contents (7 Parts - 12 pieces)

Note : Quantity of part indicated in ( )



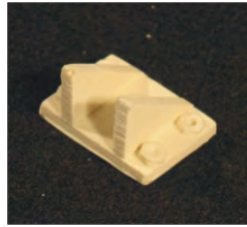
(2) Wooden Dowel Keeper  
BRA002-417W



(1) Barrel Elevation Rotate Piece  
BRA003-456R



(1) 1/4" x 2 1/2" Bolt and 1/4" Nut  
BRA003-457R



(2) Rear Tow Hook Brace  
BRA001-430R



(2) Rear tow Hook  
BRA001-431R



(2) Front Tow Shackle  
BRA001-432R



(2) Lifting Hook  
BRA001-438R

## Bag 3 Contents 5 Parts - 5 Pieces)

Note : Quantity of part indicated in ( )



(1) Commander's Hatch Mounting Ring  
BRA005-410R



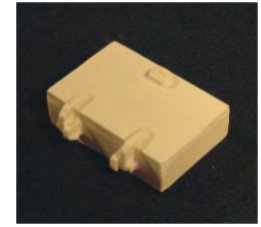
(1) Commander's Hatch Hinge Ring  
BRA005-411R



(1) Commander's Hatch  
BRA005-412R



(1) Commander's Hatch Viewing Door  
BRA005-413R



(1) Radiator Fill Box  
BRA005-415R

## Bag 4 Contents (1 Part - 36 Pieces)

Note : Quantity of part indicated in ( )



(36) Road Wheel  
BRA001-601R

# Stug IV Parts

## Bag 5 Contents (15 Parts - 65 Pieces)

Note : Quantity of part indicated in ( )



(8) Suspension Block  
BRA001-602R



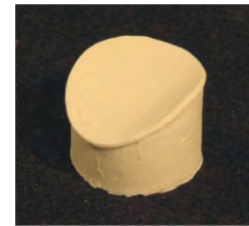
(4) Drive Wheel  
BRA001-603R



(1) Right Side Idler  
Brace  
BRA001-605R



(1) Left Side Idler  
Brace  
BRA001-606R



(1) Muffer Exhaust  
Tube  
BRA001-607R



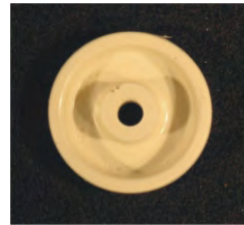
(2) Muffer End  
Caps  
BRA001-608R



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



(1) Muffer 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

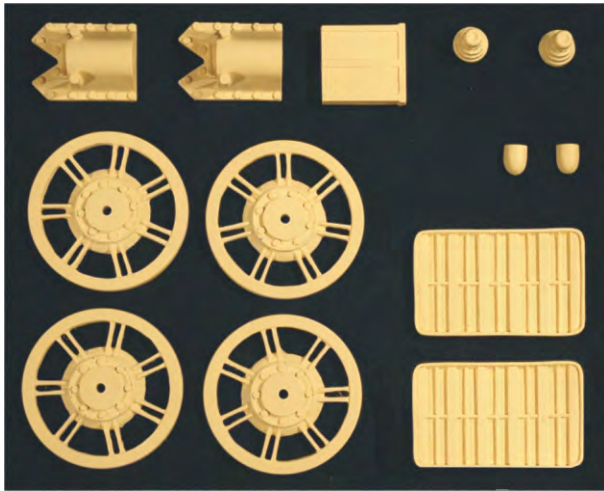


(1) Headlight  
Bracket  
BRA001-637R

# Stug IV Parts

## Bag 6 Contents 6 Parts - 13 Pieces)

Note : Quantity of part indicated in ( )



(2) Small Engine Grill  
BRA001-614R



(4) Idler Wheel  
BRA001-615R



(1) Wooden Jack Block  
BRA001-616R



(2) Idler Mount  
BRA001-617R



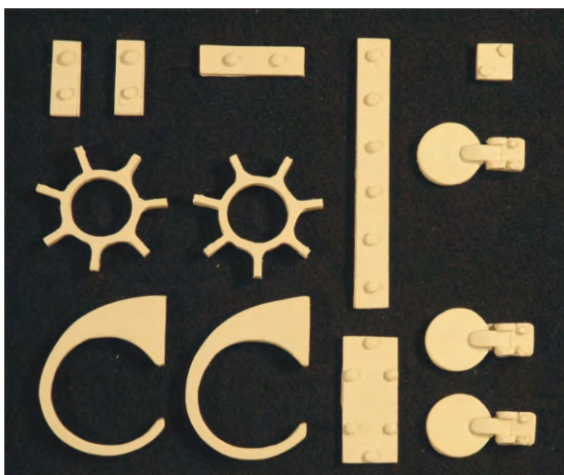
(2) Idler Mount Cap  
BRA001-618R



(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

# Stug IV Parts

## Bag 8 Contents (6 Parts - 29 Pieces)

Note : Quantity of part indicated in ( )



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



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



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



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



(1) Periscope  
BRA002-405R



(2) Periscope Cover  
BRA002-408R

## Bag 9 Contents (1 Part - 212 Pieces)

Note : Quantity of part indicated in ( )



(210) Track Pin  
BRA001-901P

## Bag 10 Contents (1 Part - 212 Pieces)

Note : Quantity of part indicated in ( )



(208) Track Link  
BRA001-902P

# Stug IV Parts

## Bag11 Contents (1 Part - 1Piece)

Note : Quantity of part indicated in ( )



(1) Barrel  
BRA006-440T

## Bag12 Contents (1 Part - 1Piece)

Note : Quantity of part indicated in ( )



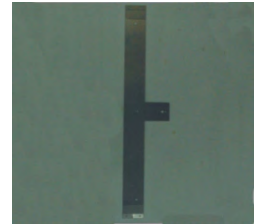
(1) Muffler Body  
BRA001-444T

## Bag13 Contents (9 Parts - 10 Pieces)

Note : Quantity of part indicated in ( )



(1) Chassis  
BRA006-701AM



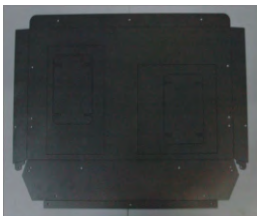
(2) Return Roller  
Axle Support  
BRA002- 519M



(1) Upper Deck  
BRA006-701BM



(1) Drivers' Enclosure  
BRA006-701DM



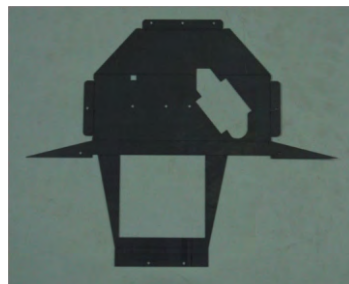
(1) Engine Deck  
Cover  
BRA006-701FM



(1) Spare Wheel  
Holder  
BRA006-701HM



(1) Idler Axel  
Bracket  
BRA001-704M



(1) Upper Deck Roof and  
Gun Housing  
BRA006-701CM



(1) Gunner's Enclosure  
BRA006-701EM



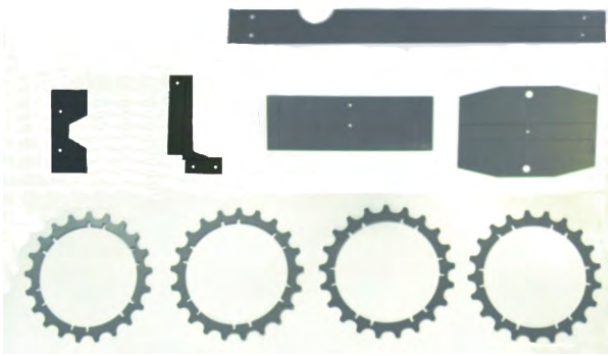
(2) Cavity Shield  
BRA006-701GM

# Stug IV Parts

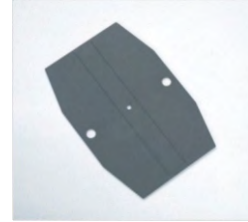
## Bag14 Contents

(6 Parts - 10 Pieces)

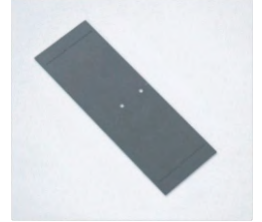
Note : Quantity of part indicated in ( )



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



(1) Towing Bracket  
BRA001-702M



(1) Towing Bracket Housing  
BRA001-703M



(1) Rear Tow Bracket Reinforcement  
BRA005-706M



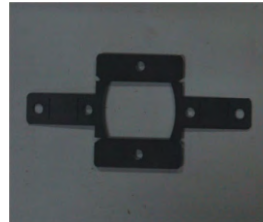
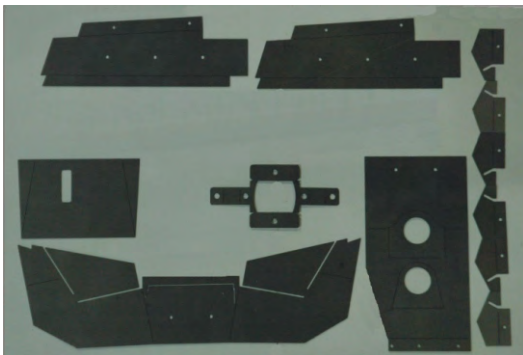
(1) Rear Brace  
BRA001-705M



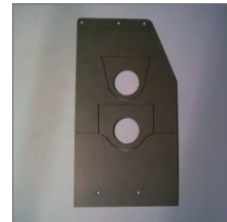
(2) Rear Fender Brace  
BRA005-705M

## Bag15 Contents (6 Parts - 13 Pieces)

Note : Quantity of part indicated in ( )



(1) Barrel Rotation Bracket  
BRA006-702M



(1) Barrel Rotation Bracket Support  
BRA006-703M



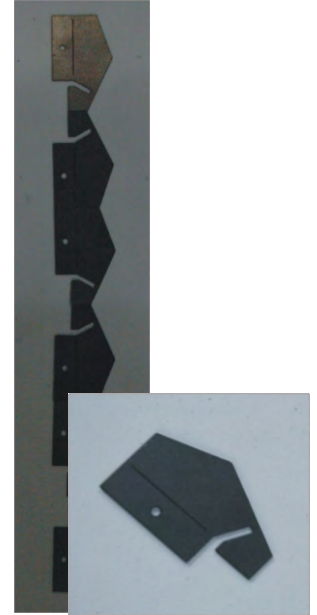
(1) Gun Shield  
BRA006-704M



(2) Exterior Machine Gun Shield  
BRA006-705M



(2) Air Intake Manifold  
BRA006-706M

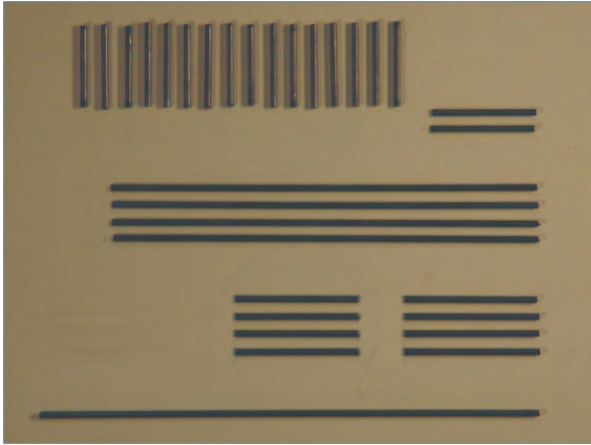


(6) Intake Manifold Fins  
BRA001-510M

# Stug IV Parts

## Bag16 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

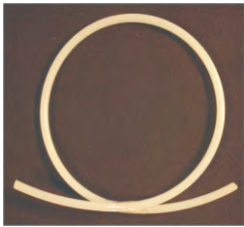
15.5" Suspension Axle - 4 Pieces - BRA001-803M

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

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

## Bag 17 Contents (1 Part - 1 Piece)

Note : Quantity of part indicated in ( )



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

## Bag 18 Contents (1 Part - 50 Pieces)

Note : Quantity of part indicated in ( )



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

## Bag 19 Contents (1 Part - 50 Pieces)

Note : Quantity of part indicated in ( )



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



# Stug IV Parts

## Bag 20 Contents (1 Part - 120 Pieces)

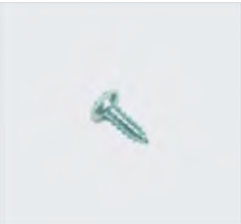
Note : Quantity of part indicated in ( )



(120) 1/8" x 5/16"  
Aluminum Pop Rivets  
BRA001-809M

## Bag 21 Contents (1 Part - 20 Pieces)

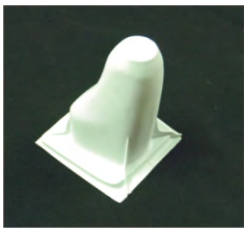
Note : Quantity of part indicated in ( )



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

## Bag 22 Contents (1 Part - 1 Piece)

Note : Quantity of part indicated in ( )



(1) Mantlet  
BRA006-901VF

## Bag 23 Contents (1 Part - 1 Piece)

Note : Quantity of part indicated in ( )



(1) Instruction CD  
BRA006-ICD

# Stug 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 Stug IV. Go to your enclosed CD or to the Field of Armor's website at "www.fieldofarmor.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 no 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) 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.

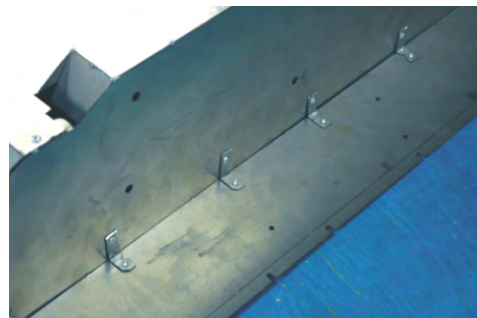
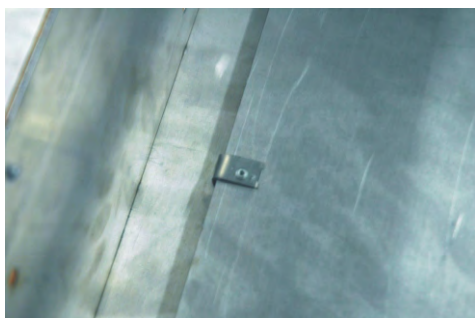


Figure 6a

Figure 6b

Figure 6c

# Stug 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.

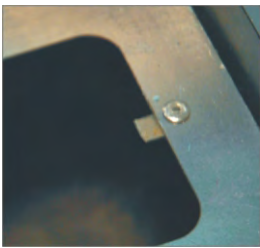


Figure B

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.

# Stug IV Assembly Instructions

## Chassis

Welcome to the world of “Battle Ready Armor”

**Step 1.** After opening the large bundled package 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 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

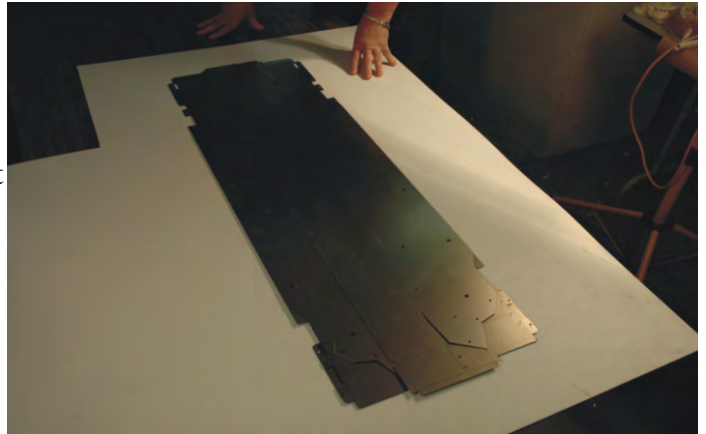


Figure 1a



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 Figure 2a)..

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



Figure 3a

**Step 4.** Raise the tabs at the four corners. See Figures 4a.

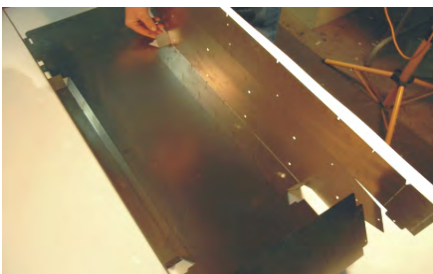


Figure 4a



Figure 4b

# Stug 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 5a

**Step 5.** 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 5a)



Figure 8a

**Step 6.** 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 6a and 6b.



Figure 6b

**Note:** Repeat steps 5 and 6 on other side.

**Important Note:** Make sure that you have the tabs in the four interior corners of the Chassis bottom (see **Step 4**) raised as shown here in Figure 8c.



Figure 6c

# Stug IV Assembly Instructions

## Chassis

**Step 7.** Bend pop rivet tabs to 90 degrees on the front and rear panels. See Figures 6a and 6b.



Figure 7a

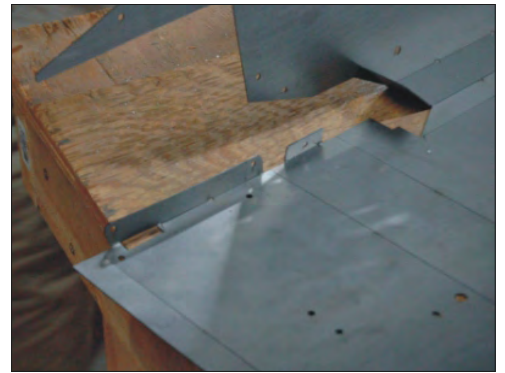


Figure 7b

**Step 8.** Raise the end pieces of the chassis and begin to shape them to match the 8a, 4b and 4c.



Figure 4a



Figure 4b



Figure 4c

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

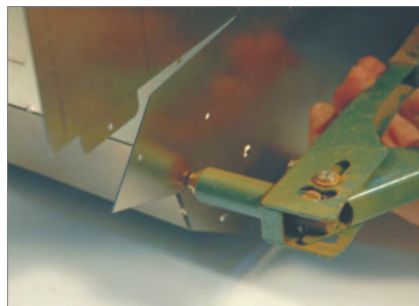


Figure 9b



Figure 9c



Figure 9d

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

# Stug IV Assembly Instructions

## Chassis

**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.

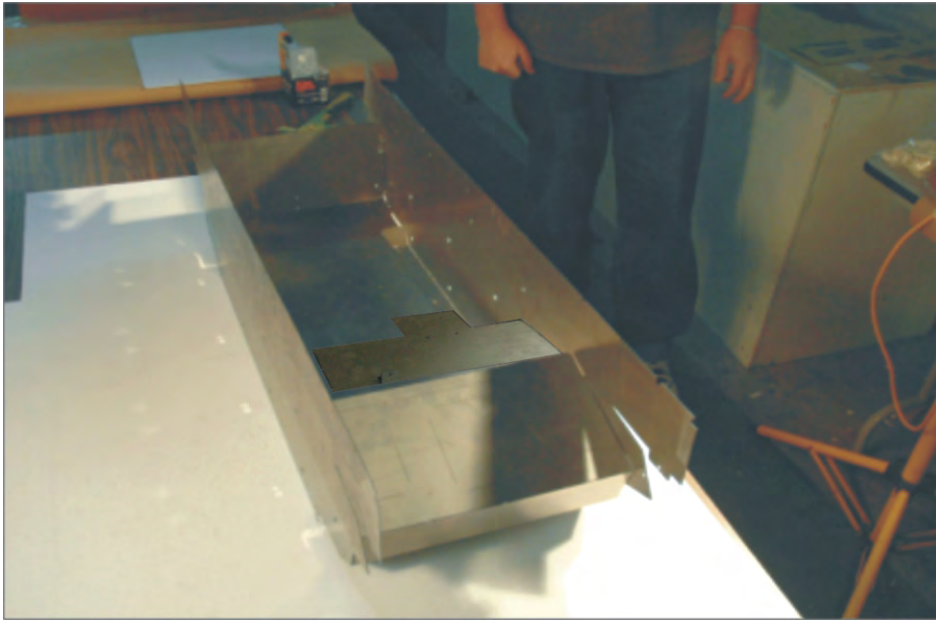


Figure 10a

**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

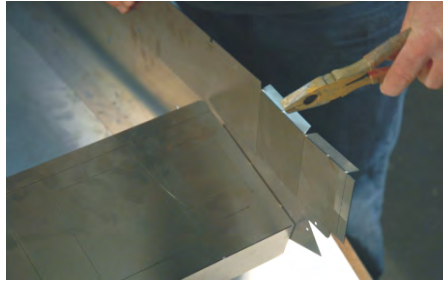


Figure 11b

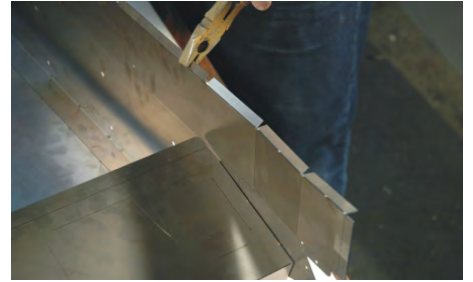


Figure 11c

**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

# Stug IV Assembly Instructions

## Chassis

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

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

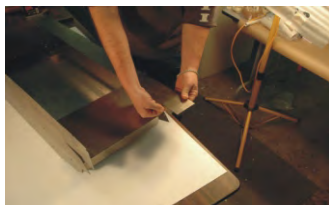


Figure 13a



Figure 13b



Figure 13c



Figure 13d

**Step 14.** 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

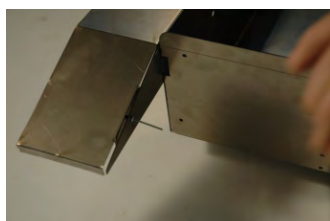


Figure 14b



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



# Stug IV Assembly Instructions

## Chassis

**Step 17.** 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

**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 18d.



Figure 18a

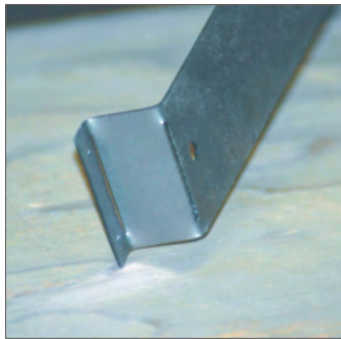


Figure 18b

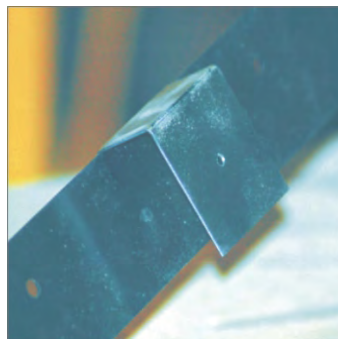


Figure 18c

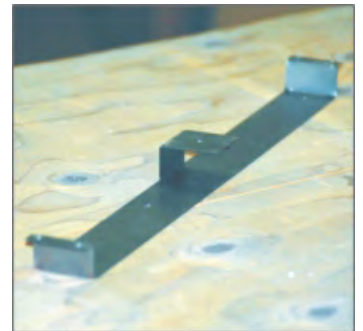


Figure 18d

**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

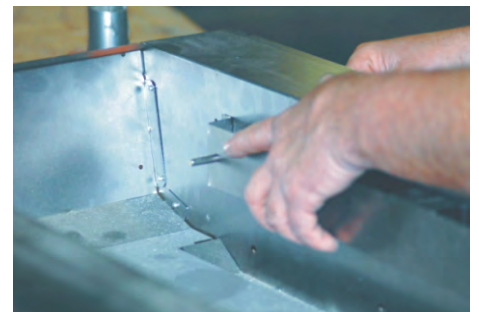


Figure 19c

# Stug IV Assembly Instructions

## Chassis

**Step 20.** This stage of the assembly is now complete.

**Note:** When complete the assembly of the Chassis body should appear as it does in the photograph (Figure 20a) to the right.



Figure 20a

# Stug IV Assembly Instructions

## Running Gear

**IMPORTANT:** You have now completed the first major portion of the of the tank, the Chassis, The next step is to install the running gear. 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). Also locate the Rear Towing Bracket Reinforcement piece (see Figure 1b).



Figure 1b

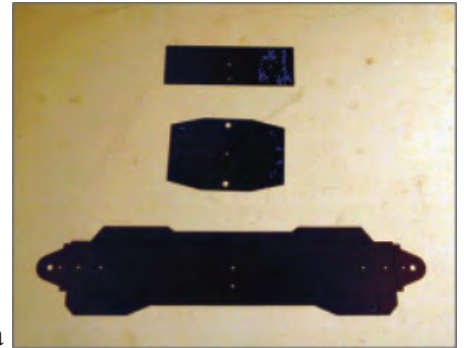


Figure 2a



Figure 2b



Figure 2c

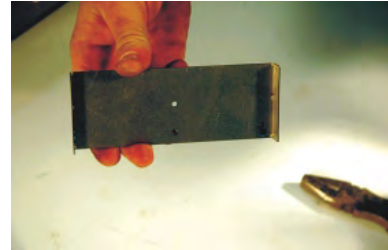


Figure 2d

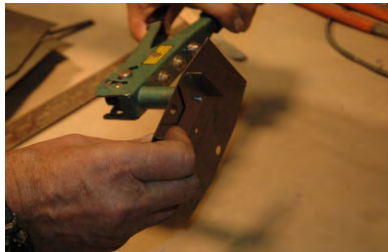


Figure 2e



Figure 2f



Figure 2g



Figure 2h

**Step 2.** Bend the tabs on the Idler Axle Bracket as shown in Figure 2a and 2b.

Bend the tabs on the Towing Bracket Housing as shown in Figures 2c and 2d.

Bend the side tabs of the Rear Towing Bracket Reinforcement piece to 90 degree and secure it to the Towing Bracket with Pop Rivets as shown in Figure 2e and 2f.

Fold the sides of the Towing Bracket along the seams as shown in Figure 2g and 2h until it looks like the Bracket in Figure 2i.

**NOTE:** The Rear Towing Bracket Reinforcement piece may not appear in some of the supporting photography in these Instructions.



Figure 2i

# Stug IV Assembly Instructions

## Running Gear

**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. Secure using a Single Pop Rivet in the bottom hole only.

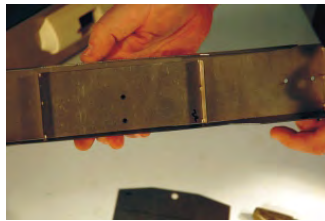


Figure 3a



Figure 3b



Figure 3c

**Step 4.** Place the Idler Axle Bracket, Towing Bracket, Towing Bracket Housing Assembly at the rear of the Chassis and align the hole in the lower center of the Chassis with the hole just above the Towing Bracket (see Figures 4a). Secure the Bracket Assembly in place with a Pop Rivet (see Figures 4b, 4c and 4d). When the assembly is in place it should look like it does in Figure 4e.



Figure 4a



Figure 4b



Figure 4c

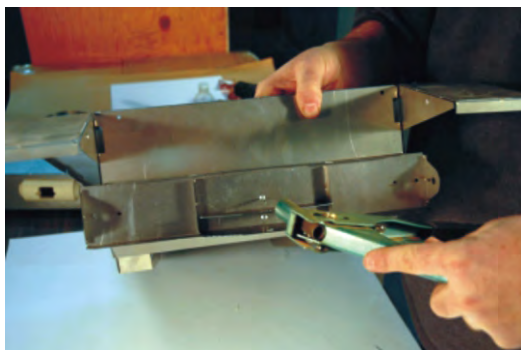


Figure 4d

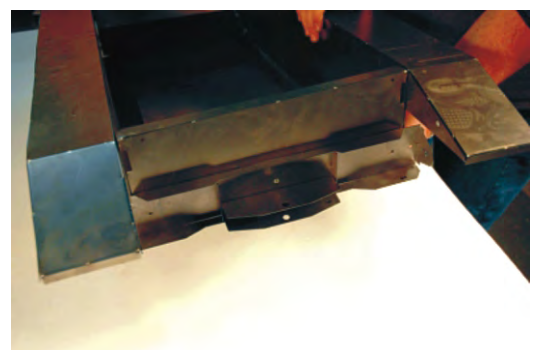


Figure 4e

**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.

**NOTE:** Placing the Idler Mount Caps on the Idler Mounts is optional at this point and may not appear in some of the supporting photography for this portion of the Instructions.



Figure 5a

# Stug IV Assembly Instructions

## Running Gear

**Step 6** Place the Idler Mount assemblies in place. Mark the screw holes and pre-drill for two (2) #6 x 1/2" Sheet Metal Screw. Fasten with the two (2) #6 x 1/2" Sheet Metal Screws - one screw in the end (see Figure 6a) and one screw in the back which is installed from inside the Chassis (see Figure 6b).



Figure 6a

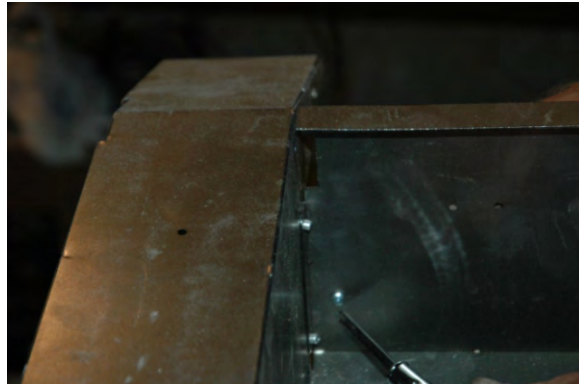


Figure 6b



**Step 7.** Insert one (1) 3.75" Idler Axle in each Idler Mount Assembly. (See Figure 7a) Secure the axle in place with epoxy

**NOTE:** For maximum adhesion roughen the metal before installation,

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

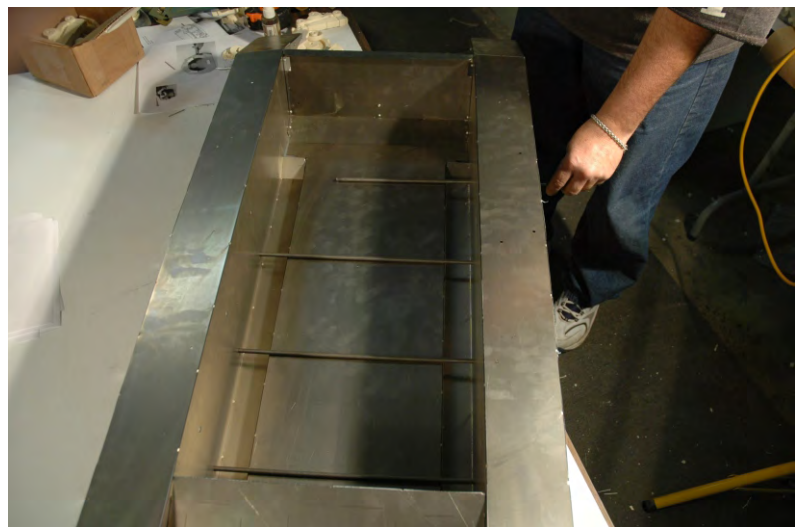


Figure 8b

**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.

# Stug IV Assembly Instructions

## Running Gear

**Step 9.** Turn the tank Chassis 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.

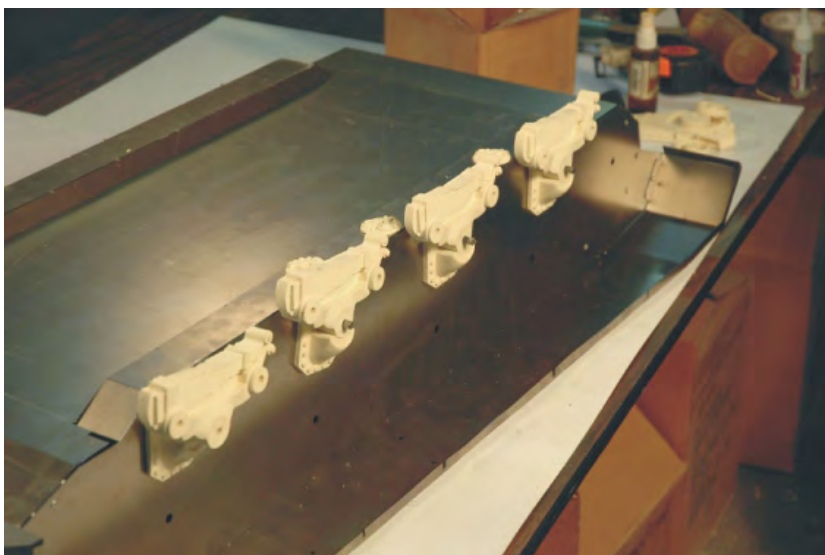


Figure 11a



Figure 11b

# Stug IV Assembly Instructions

## Running Gear

**Step 12.** Install the 3" Bogey Axles 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.

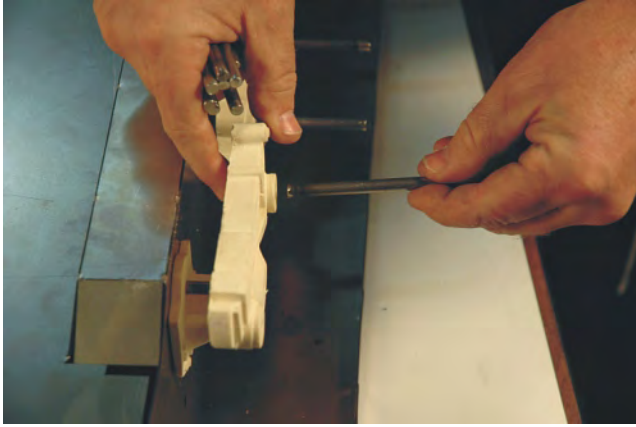


Figure 12a

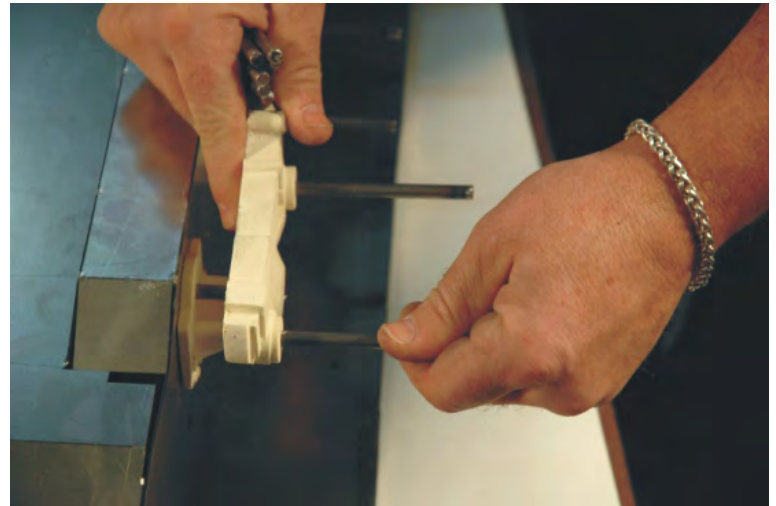


Figure 12b

**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.

# Stug 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.

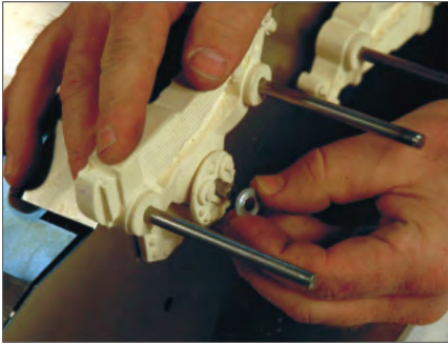


Figure 14a



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

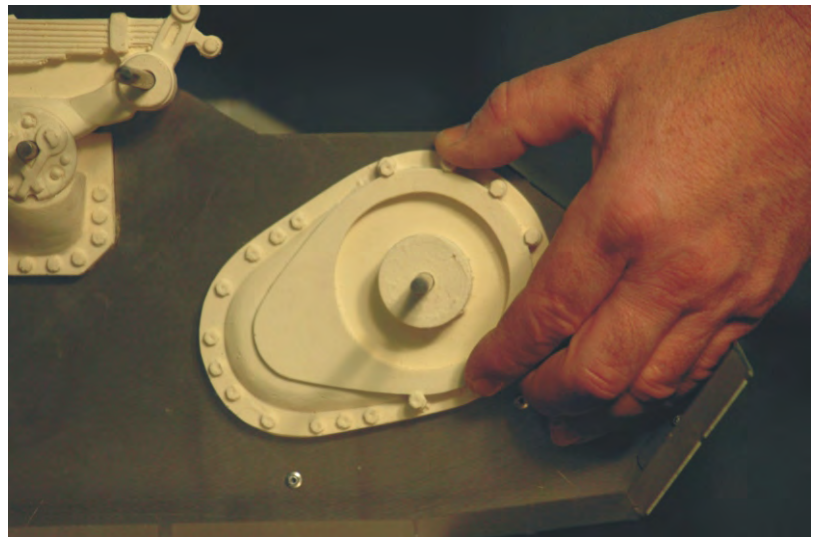


Figure 15b

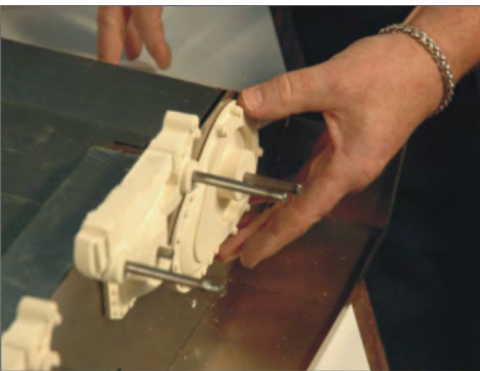


Figure 15c

**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



# Stug 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

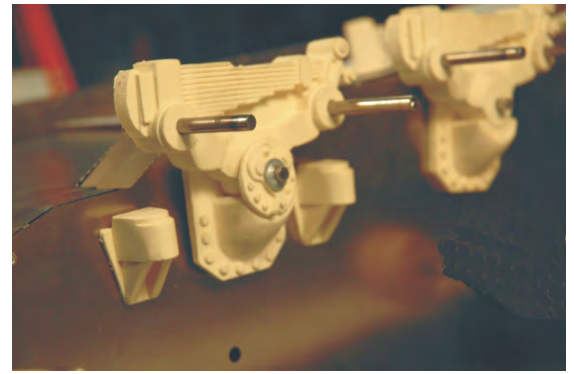


Figure 17b



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

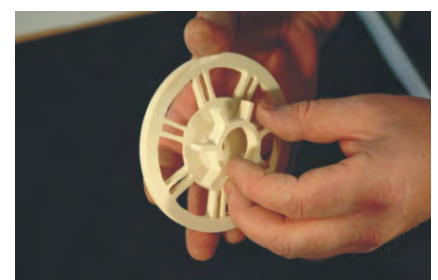


Figure 18c



Figure 18d



Figure 18e



Figure 18f

# Stug 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).

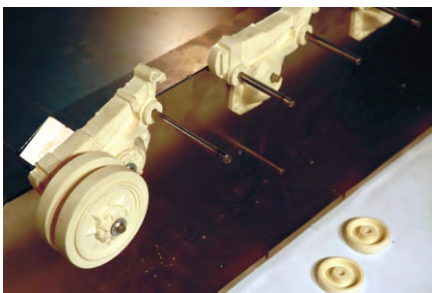


Figure 20a

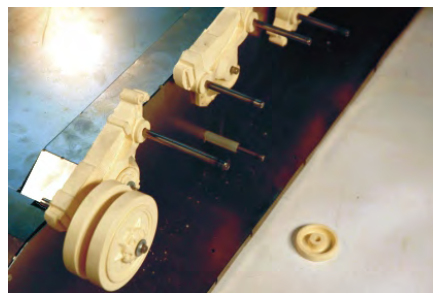


Figure 20b

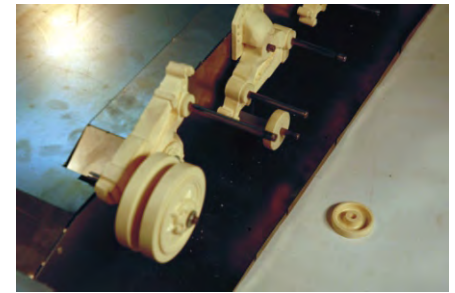


Figure 20c



Figure 20d



Figure 20e



Figure 20f

# Stug 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

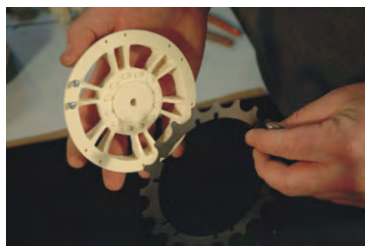


Figure 21b

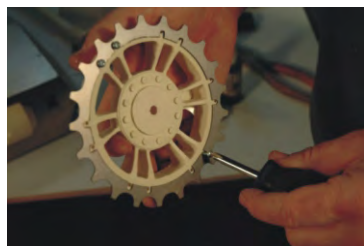


Figure 21d



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

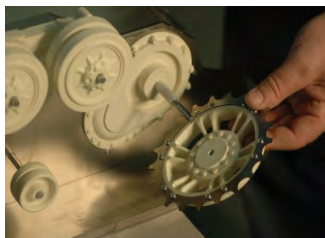


Figure 22b



Figure 22c

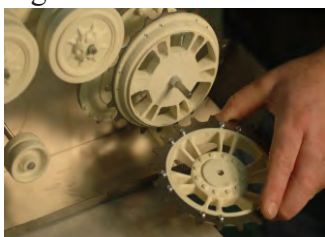


Figure 22d

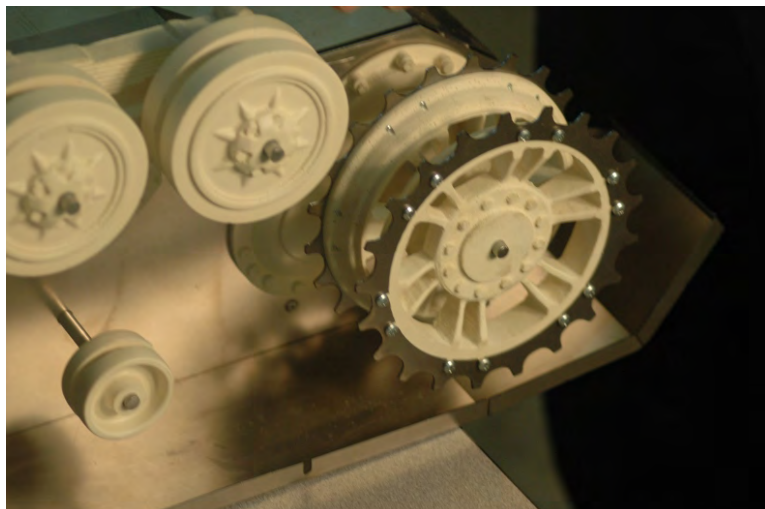


Figure 22f



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).

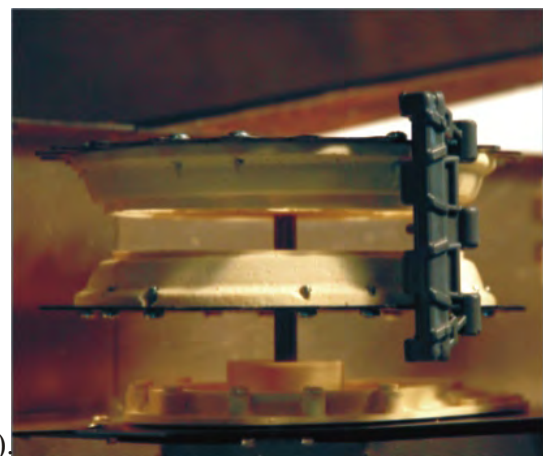


Figure 21g

**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.

# Stug 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.

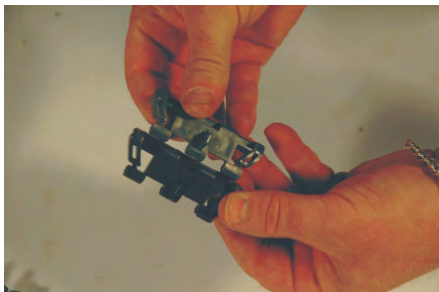


Figure 22a



Figure 22b

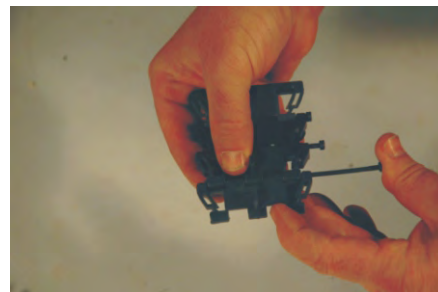


Figure 22c

**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

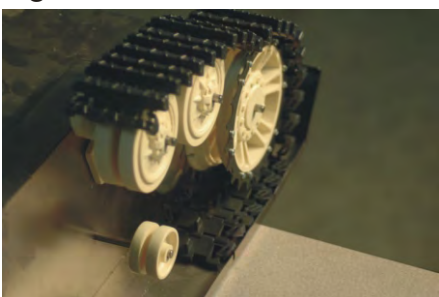


Figure 23a

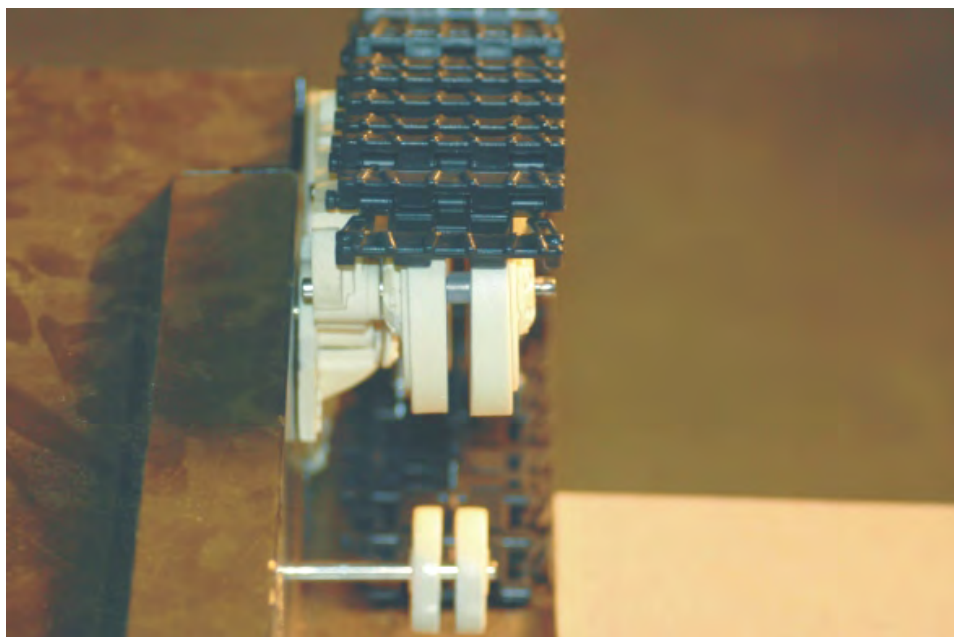


Figure 23b

**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).

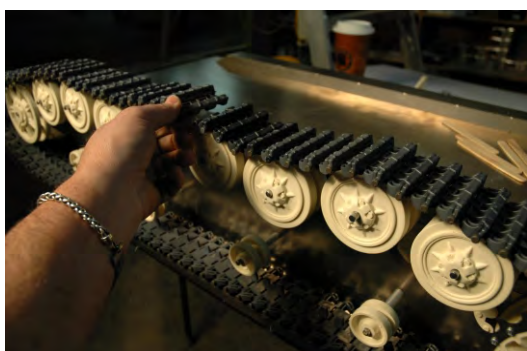


Figure 24a

**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.

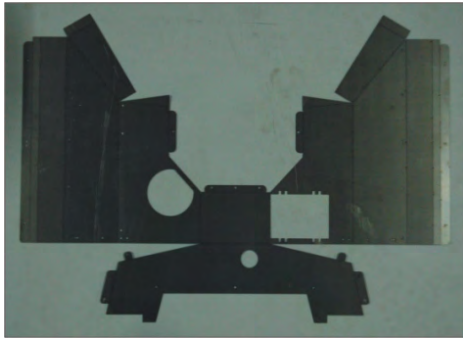


Figure 24b

# Stug IV Assembly Instructions

## Superstructure

**Step 1.** Locate the Upper Deck which is the first piece of the Superstructure Piece that needs to be assembled.



(1) Upper Deck  
BRA006-706B

**Step 2.** The Upper Deck may come with the side panels folded in at one of the seams. In any event making sure that what will finally become the outside is facing down on your work surface (see Figure 2a). Bend up the Tabs on the Back Panel of the Upper Deck (see Figure 2b) and then bend the rear Panel up 90 degrees to the top of the Upper Deck (see Figure 2c).

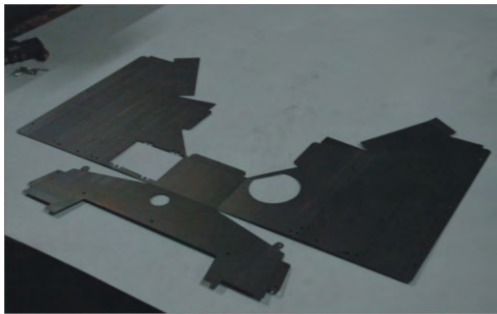


Figure 2a

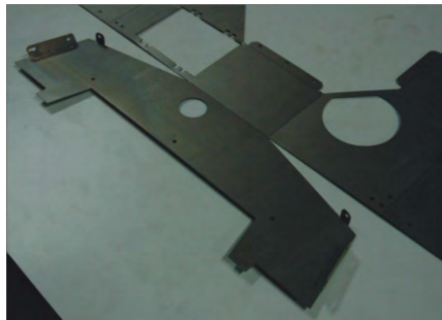


Figure 2b

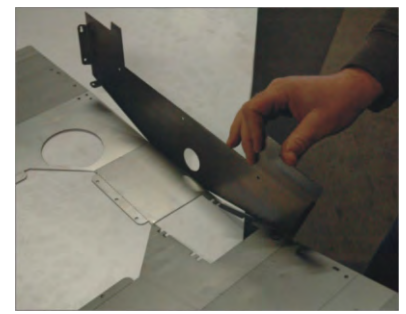


Figure 2c

**Step 3.** Raise the sloping Side Panels on either side to conform to the shape on the side slope of the Back Panel and align the holes in the top and the tabs and secure with Pop Rivets (see Figure 3a and 3b). Bend the sides up to conform to the shape of the sides of the Back Panel and align the holes in the sides with the holes in the Tabs and secure with Pop Rivets (see Figures 3c and 3d).



Figure 3a

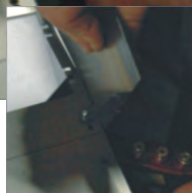


Figure 3b

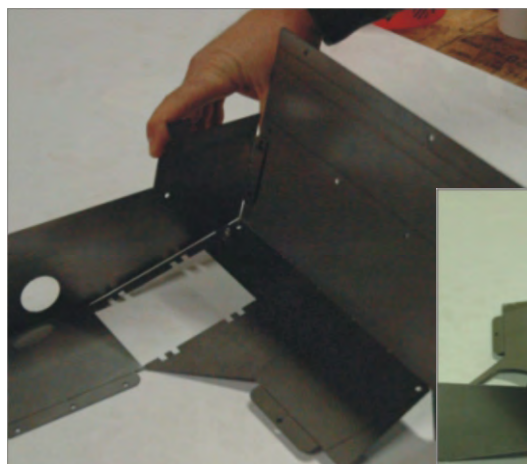


Figure 3c



Figure 3d

# Stug IV Assembly Instructions

## Superstructure

**Step 4.** Bend the Side Panels at the second seam down from the top inward (see Figure 4a). At the next seam bend the Panel outward and upward to 90 degrees (see Figure 4b). At the third seam bend the remaining strip of metal outward to 90 degrees (see Figure 4c).

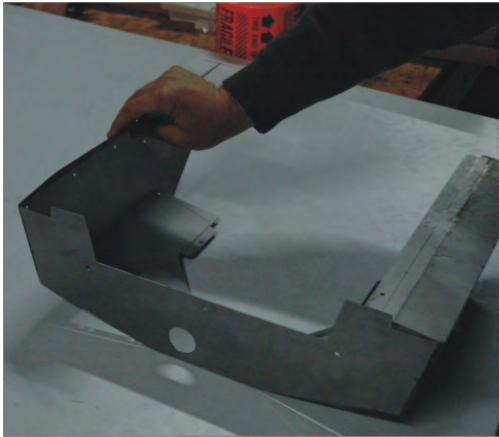


Figure 4a

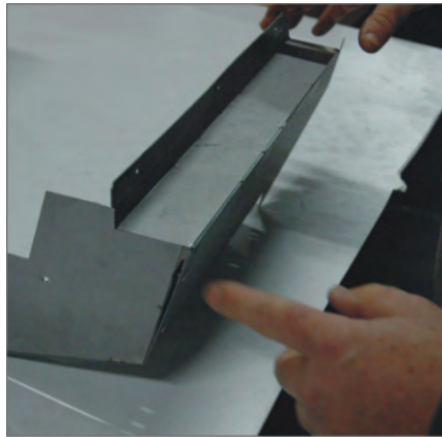


Figure 4b



Figure 4c

**Step 5.** Turn this piece of the Upper Deck over and bend the Small Triangular Tabs at the front of the sloping surfaces on either side of the “U” down at approximately 35 degrees (see Figures 5a and 5b). Bend the Tabs around the inner “U” down to 90 degrees (see Figures 5c and 5d).

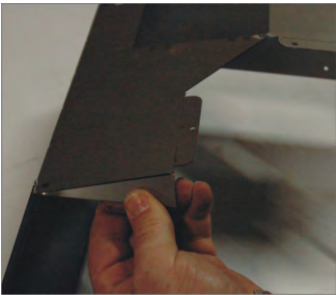


Figure 5a

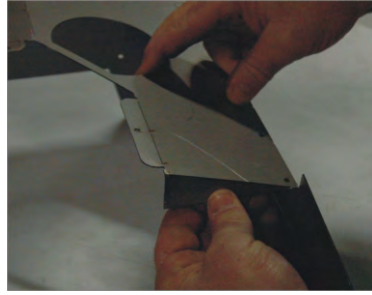


Figure 5b



Figure 5c

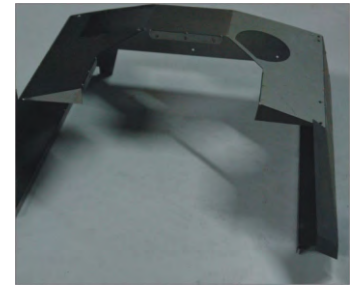


Figure 5d

**Step 6.** Bend the front plates on either side of the “U” inward until it is horizontal (see Figures 6a and 6b). Do not bend the tab at the bottom of these panels down at this time (see Figure 6c).



Figure 6a



Figure 6b

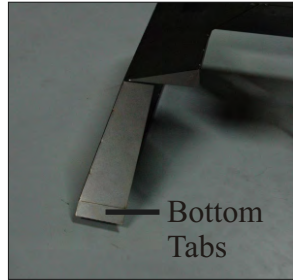


Figure 6c

**Step 7.** The Superstructure to this point should look as it does in Figure 7a.

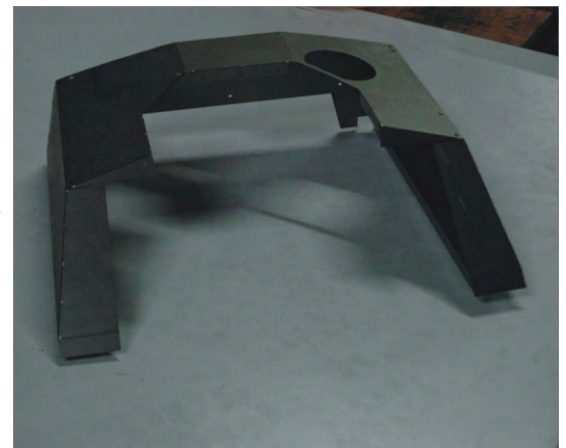


Figure 7a

# Stug IV Assembly Instructions

## Superstructure

**Step 8.** Locate the Upper Deck Roof and Gun Housing which is the second piece of the Superstructure Piece that needs to be assembled.



(1) Upper Deck Roof and  
Gun Housing  
BRA006-701CM

**Step 9.** With the outer face of the part down, bend up the Tabs on the “U” shaped Panel of the Upper Deck Roof and Gun Housing up 90 degrees (see Figure 9a and 9b). Next, bend the rear portion of the Top Panel up approximately 15 degrees (see Figure 9c and 9d) so that when the piece is installed in the “U shape of the Upper Deck so that the Edges of the Upper Deck and the Edges of the Upper Deck Roof and Gun Housing are flush when they are fitted together (see Figure 10c).

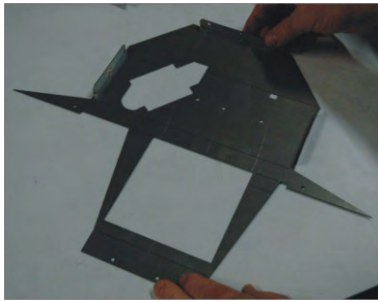


Figure 9a

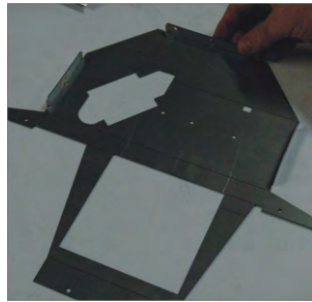


Figure 9b



Figure 9c

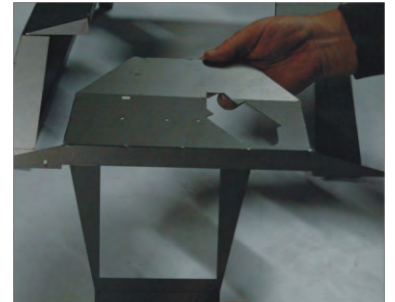


Figure 9d

**Step 10.** Bend the front of the Upper Deck Roof and Gun Housing down so that the narrow strip across the top is at the same angle as the small Triangular tabs on the Upper Deck and bend the bottom Tab backward to approximately 110 degrees so that when the Superstructure is mounted to the Chassis it sits flat on the Chassis top.



Figure 10a



Figure 10b

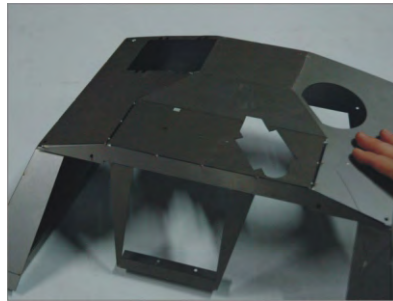


Figure 10c

**Step 11.** Turn the fitted pieces over and align the holes in the Tabs of the Upper Deck and the Upper Deck Roof and Gun Housing (see Figure 11a) and secure with Pop Rivets (see Figure 11b, c and d).



Figure 11a



Figure 11b

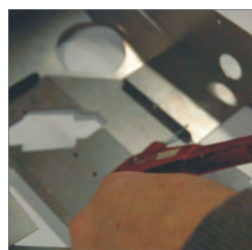


Figure 11c



Figure 11d

# Stug IV Assembly Instructions

## Superstructure

**Step 12.** Align the holes in the small Triangular Tabs on the Upper Deck and metal strip across the Upper Deck Roof and Gun Housing and secure with Pop Rivets (see Figures 12a). To this stage the Superstructure should look like it does in Figure 12b.



Figure 12a



Figure 12b

**Step 13.** Locate the Barrel Rotation Bracket, the Barrel Rotation Bracket Support, the Barrel Elevation Rotate Piece and the 1/4" x 2 1/2" x 1/4" Bolt and 1/4" Nut as shown below.

**NOTE: Please read Step 14 and 15 before completing Step 13.**

Bend the End tabs up 90 degrees then bend the tips of the End tabs over and inward to 90 degrees (See Figure 13b and 13c). Bend the Side tabs up (See Figure 13d). Insert the Barrel Elevation Piece (see Figure 13e). Align the holes in the Barrel Elevation Rotate Piece and the Barrel Elevation Piece and insert the 1/4" x 2 1/2" Bolt (see Figure 13e and Figure 13f). Twist on the 1/4" Nut and tight it down so that when the Barrel and Mantlet Assembly is installed that it moved up and down and remains in the position you have placed it after you take your hand away. See Figure 13g for the completed configuration.



(1) Barrel Rotation Bracket  
BRA006-702M



(1) Barrel Elevation Rotate Piece  
BRA003-456R



(1) 1/4" x 2 1/2" Bolt and 1/4" Nut  
BRA003-457R



(1) Barrel Rotation Bracket Support  
BRA006-703M

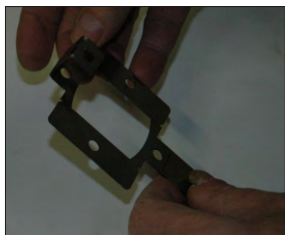


Figure 13a



Figure 13b



Figure 13c

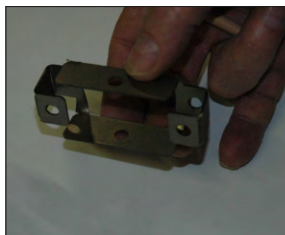


Figure 13d

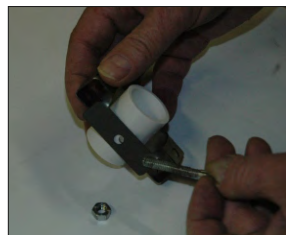


Figure 13e



Figure 13f

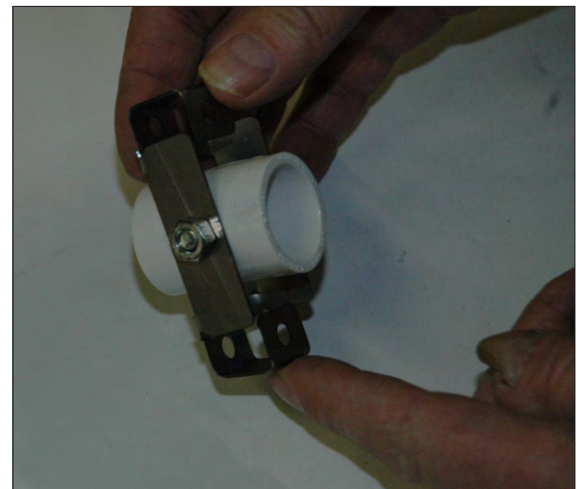


Figure 13g



# Stug IV Assembly Instructions

## Superstructure

**Step 14.** Locate the Barrel rotation Support Bracket. With the sloping side to your RIGHT bend the top flange back 90 degrees (see Figure 14b). Next bent the top and bottom cutouts with the holes in them outward toward you to 90 degrees (see Figures 14c and 14d). Bend the bottom flange forward to 90 degrees (see Figure 14e and 14f).



Figure 14a



Figure 14b



Figure 14c



Figure 14d



Figure 14e



Figure 14f

**Step 15.** It is now time to install the Barrel Rotation Bracket Assembly into the Barrel Rotation Bracket Support (see Figure 15a). Slide the Barrel Rotation Bracket Assembly (there is no top or bottom) into top and bottom arms (with the holes in them) of the Barrel Bracket Support (see figure 15b). Using the Wooden Dowel Keepers, secure the Barrel Rotation bracket Assembly in place by sliding them horizontally through the holes, one above the top support arm (see Figure 15c) and one below the bottom support arm (see Figure 15d).



Figure 15a

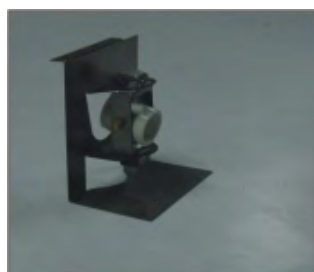


Figure 15b

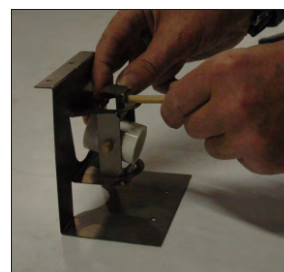


Figure 15c

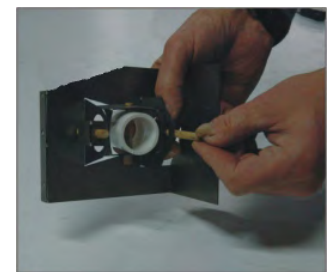


Figure 15d

**Step 16** Installing the Barrel Rotation Bracket and the Barrel Rotation Bracket Support Assembly into the Superstructure as it currently exists is next. Slide the Assembly under the top of the Superstructure (see Figure 16a) and align the holes in both pieces (see Figures 16d and 16e).



Figure 16a



Figure 16b



Figure 16c

# Stug IV Assembly Instructions

## Superstructure

**Step 17.** Secure the Barrel Rotation Bracket and the Barrel Rotation Bracket Support Assembly to the Superstructure with Pop Rivets (see Figures 17a, 17 b and 17e).

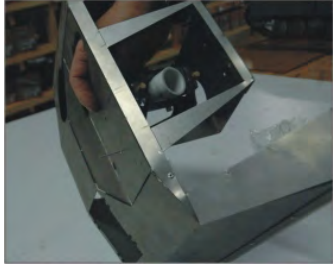


Figure 17a



Figure 17b



Figure 17c

**Step 18.** The Superstructure at this point should resemble Figure 18a.



Figure18a

**Step 19.** It is now time to attach the Superstructure that we have to date to the Chassis. Bend the two tabs on the Chassis up to 90 degrees (see Figure 19a) ready to receive the Driver's and the Gunner's Enclosures. Align the holes in the bottom rail of the superstructure Assembly (see Figure 19c) with the holes (three [3] per side) on the fenders of the Chassis and secure with Pop Rivets. DO NOT secure the Barrel housing and the Barrel Rotation Assembly (see figure 19b) at this time.

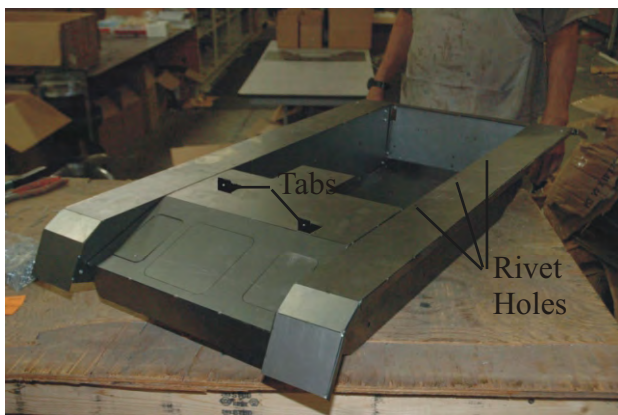


Figure 19a

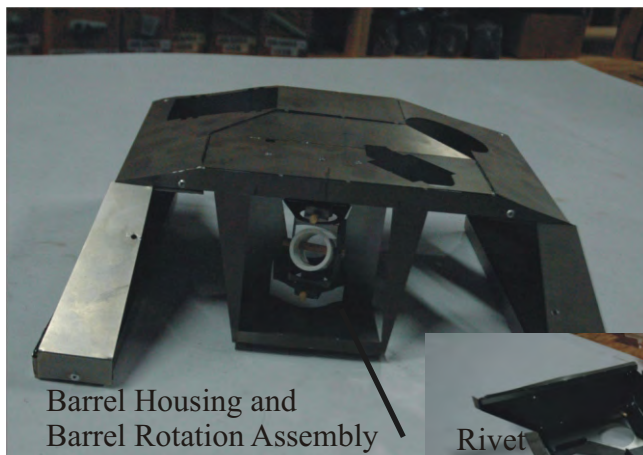


Figure 19b



Figure 19c

# Stug IV Assembly Instructions

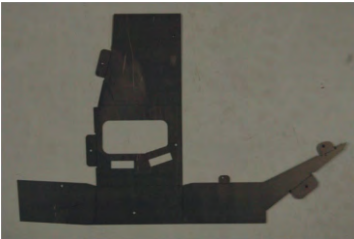
## Superstructure

**Step 20.** The tank should now look like the one in Figure 20a.



Figure 20a

**Step 21.** Locate the Driver's Enclosure which is the third piece of the Superstructure that needs to be assembled.



(1) Drivers' Enclosure  
BRA001-701DM

**Step 22.** Lay the Driver's Enclosure with the outer surface down on your work surface and bend all the tabs, with the exception of the one on the angled return, up to 90 degrees (see Figure 22a). Next, bend the front piece down making sure that the short section of the front is slightly angled (see Figure 22b) to accommodate the angle on the side pieces that will be folded in on the next step.

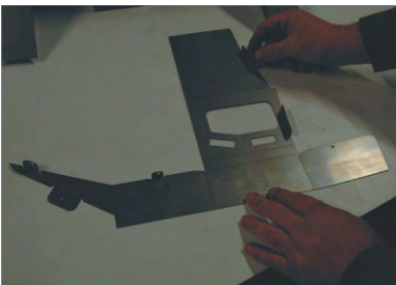


Figure 22a

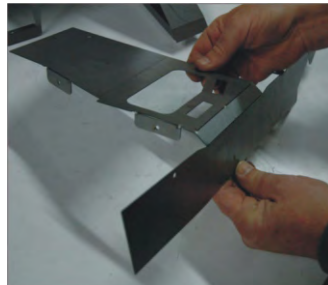


Figure 22b

**Step 23.** Bend the square ended side in first (see Figure 23a) and align the hole with the hole in the tab and secure with a Pop Rivet (see Figure 23b).

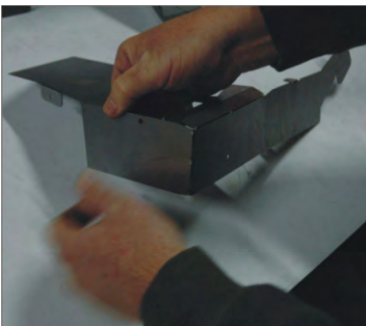


Figure 23a



Figure 23b

# Stug IV Assembly Instructions

## Superstructure

**Step 24.** Bend back the angled side partially (see Figure 24a). Bend the top up to follow the configuration of the side and then finish folding the side in (see Figure 24b). Align the holes in tabs with the holes in the top (see Figure 24c) and secure with Pop Rivets (see Figure 24d).



Figure 24a

Figure 24b

Figure 24c

Figure 24d

**Step 25.** Bend the tab on the angled side to 90 degrees (see Figure 25a and 25b).



Figure 25a

Figure 25b

**Step 26.** Install the Driver's Enclosure onto the Chassis. Slide the tab on the right side of the Enclosure under the side panel of the present superstructure configuration's front opening and position the front panel of the enclosure over the front of the Tab in the Chassis (see Figures 26a and 26b).



Figure 26a

Figure 26b

**Step 27.** Align the hole in the front panel of the Enclosure with the hole in the Tab of the Chassis and secure with Pop Rivets (see Figure 27a and 27b). Align the hole in the side Tab of the Driver's Enclosure with the hole in the side panel of the the opening in the Present Superstructure configuration and secure with Pop Rivets (see Figures 27c and 27d).



Figure 27a

Figure 27a

Figure 27a

Figure 27a

# Stug IV Assembly Instructions

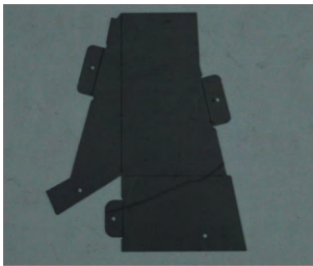
## Superstructure

**Step 28.** The tank should now look like the one in Figure 28a.



Figure 28a

**Step 29.** Locate the Gunner's Enclosure which is the fourth piece of the Superstructure Piece that needs to be assembled.



(1) Gunner's Enclosure  
BRA006-701EM

**Step 30.** Bend the tab on the front to 90 degrees (see Figure 30a). Bend the angled side down 90 degrees (see Figure 30b). Fold the front down and align the hole in the tab with the hole in the side (see Figure 30c) and secure with a Pop Rivet. Fold the tab on the side of the angled side up 90 degrees (see Figures 30d and 30e).

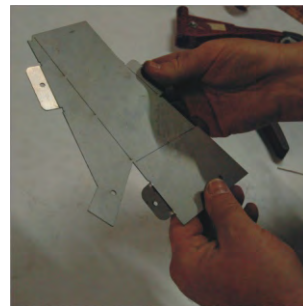


Figure 30a



Figure 30b



Figure 30c

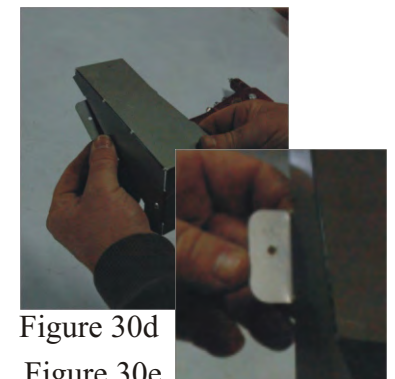


Figure 30d

Figure 30e

**Step 31.** Install the Gunner's Enclosure onto the Chassis. Slide the tab on the left side of the Enclosure under the side panel of the present superstructure configuration's front opening and position the front panel of the enclosure over the front of the Tab in the Chassis (see Figures 31a and 31b).

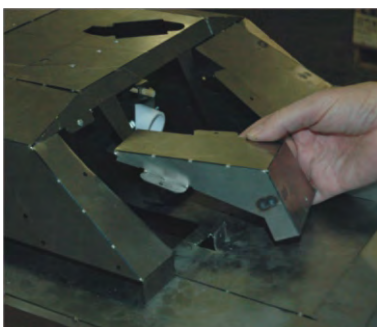


Figure 31a



Figure 31b

# Stug IV Assembly Instructions

## Superstructure

**Step 32.** Align the hole in the front panel of the Enclosure with the hole in the Tab of the Chassis and secure with Pop Rivets (see Figure 32a and 32b). Align the hole in the side Tab of the Driver's Enclosure with the hole in the side panel of the opening in the Present Superstructure configuration and secure with Pop Rivets (see Figures 32c and 32d).



Figure 32a



Figure 32a



Figure 32a



Figure 32a

**Step 33.** Bend down the Tab on the side of the Gunner's Enclosure (see Figure 33a) and On the Driver's Enclosure (see Figure 33b) to accept the Gunn shield.

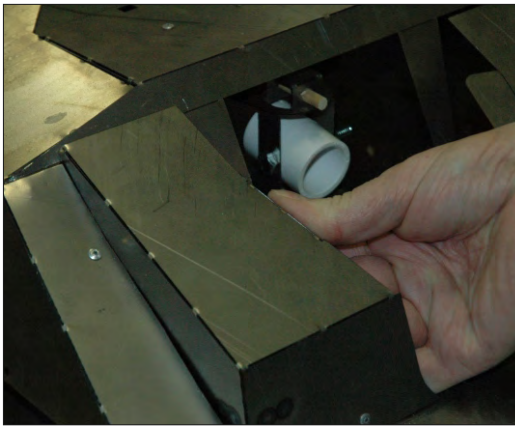


Figure 33a

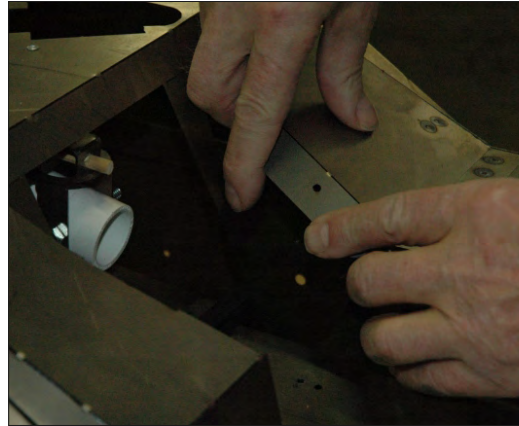


Figure 33b

**Step 34.** The tank should now look like the one in Figure 34a.

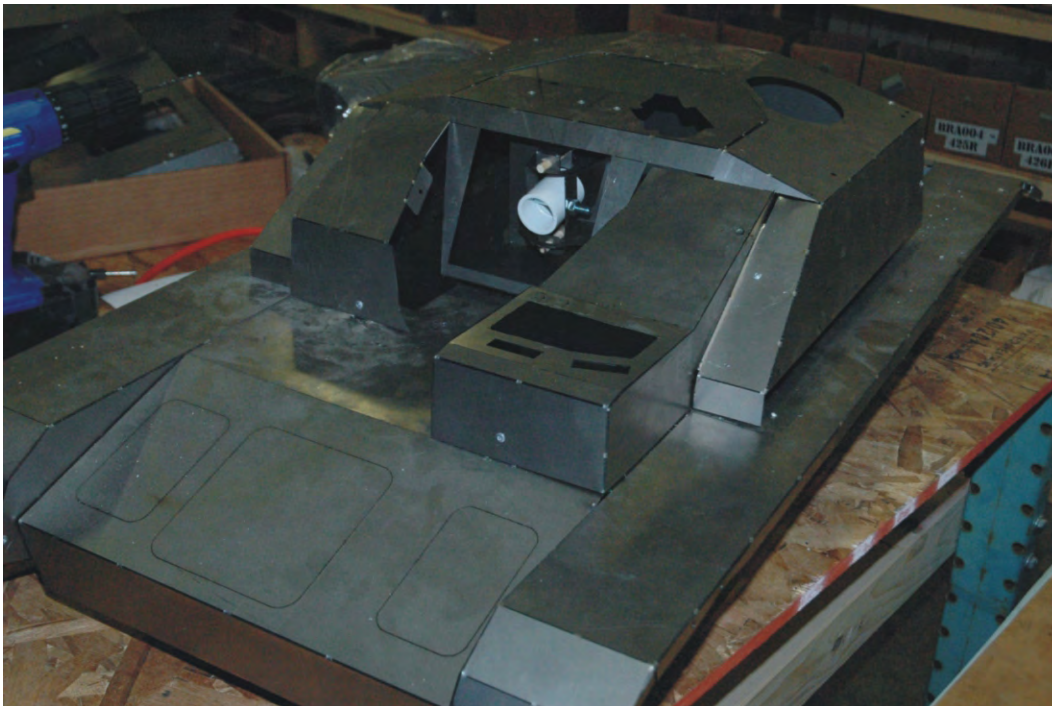
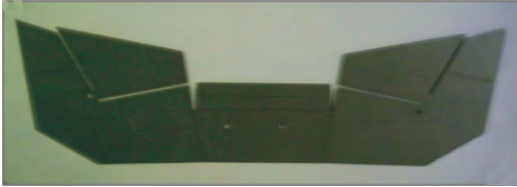


Figure 34a

# Stug IV Assembly Instructions

## Superstructure

**Step 35.** Locate the Gun Shield.



**NOTE:** To be sure that you make the folds in piece correctly make sure you have the correct side of the piece up or as the top. It should be as shown in Figure 36a

(1) Gun Shield  
BRA006-704M

**Step 36.** In the center portion of the Gun shield there is a integral Bullet Shield. Bend the piece up at the first seam to 90 degrees (see Figure 36a) and then backward 90 degrees at the second seam (see Figure 36b). With the Gun Shield in hand bend the two sides of the Gun Shield upward approximately 60 degrees (see Figures 36c). Push back the Front Panel of the Upper Deck Roof and Gun Housing as required to allow the for the installation of the Gun Shield (see Figure 35d).

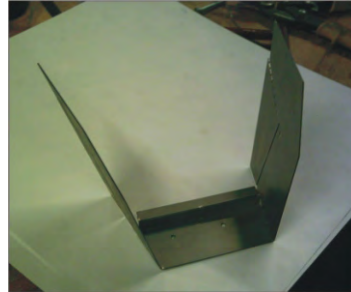
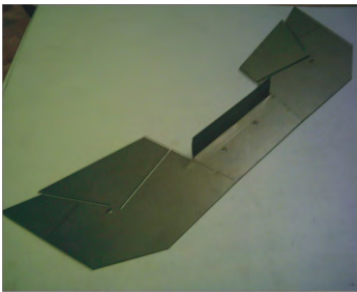


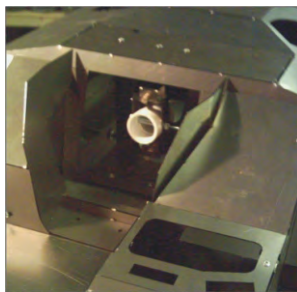
Figure 36a

Figure 36b

Figure 36c

Figure 36d

**Step 37.** Insert the Gun Shield into the opening between the Gunner's and the Driver's Enclosures and slide it into position (see Figures 37a and 37b).



**NOTE:** Before proceeding with Step 38 make sure at this time that you have bent the Bullet Splash into position. The Bullet Splash is integral in the Gun Shield and has a double 90 degree bend. At the first seam, bend upward to 90 degrees up, at the second seam, bend 90 degrees back (see Figure 37c).

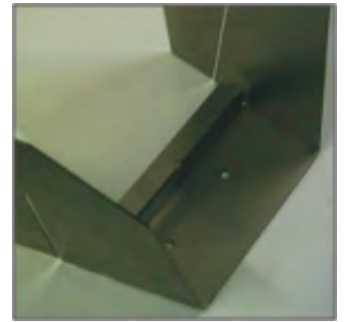


Figure 37a

Figure 37b

Figure 37c

**Step 38.** Align the holes in the sides of the Gun Shield With those in the Tabs of the Gunner's and the Driver's Enclosures and secure with Pop Rivets (see Figures 38a and 38b).

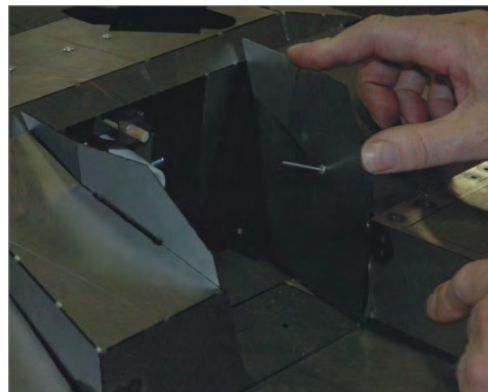


Figure 38a

Figure 38b

# Stug IV Assembly Instructions

## Superstructure

**Step 39.** Align the holes in the bottom of the Gun Shield in front of the Bullet Splash with the holes in the Chassis and secure with Pop Rivets (see Figures 39a, 39b and 39c).

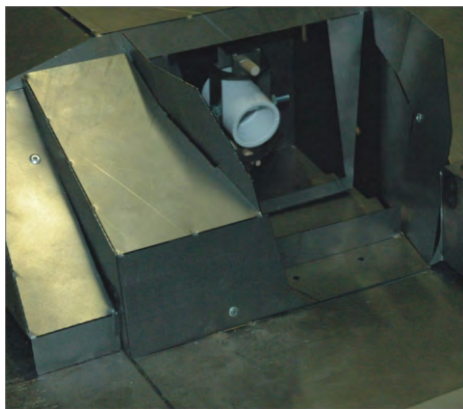


Figure 39a

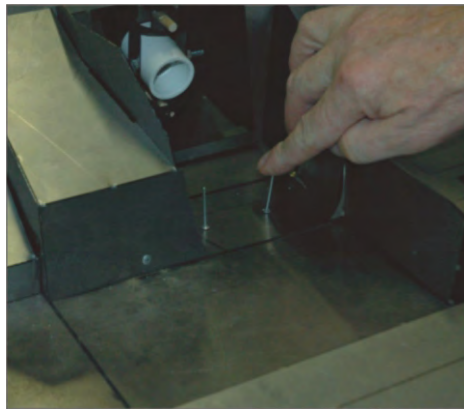


Figure 39b



Figure 39c

**Step 40.** Pull the Front Panel of the Upper Deck Roof and Gun Housing Back back into position. It should be on top of the folded under portion of the Barrel Rotation Bracket Support. Align the holes in both of these pieces and then align them with the holes in the Chassis. Secure in place with Pop Rivets (see Figure 40a and 40b).



Figure 40a

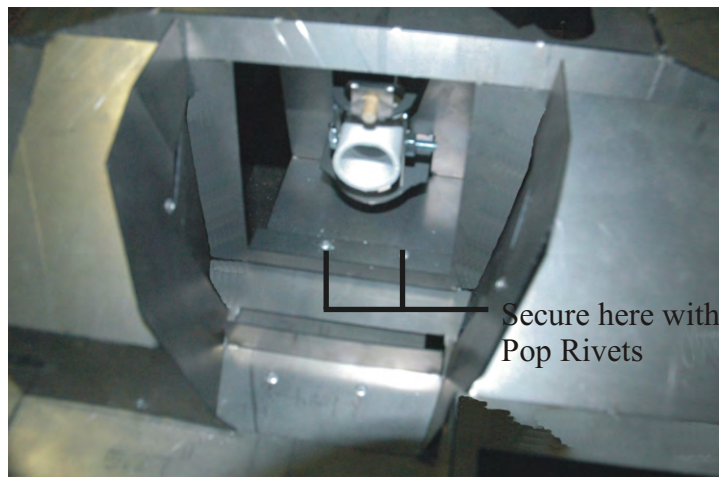


Figure 40b

**Step 41.** The tank should now look like the one in Figure 41a.



Figure 41a



# Stug IV Assembly Instructions

## Superstructure

**Step 42.** Locate the Cavity Shield



(2) Cavity Shield  
BRA006-701GM

**Step 43.** Bend the Gun Shield very slightly along its length at the seam to match the side of the Superstructure (see Figure 43a and 43b). Bend the end at 90 degrees (see Figure 43c). One Cavity Shield needs to be the mirror of the other.

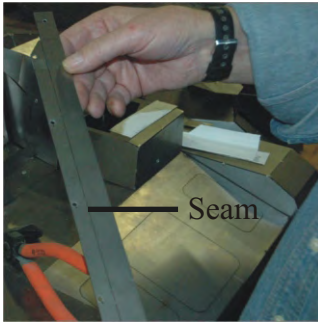


Figure 43a



Figure 43b



Figure 43c

**Step 44.** Place the Cavity Shield along the side of the Superstructure and slide the 90 degree end bend behind the flat portion at the front bottom of the side panel next to the Gunners Enclosure (see Figures 44a). Align the holes in the Cavity Shield with the holes in the Superstructure and secure in place with Pop Rivets (see Figures 44b and 44c). Repeat the process for the other side.

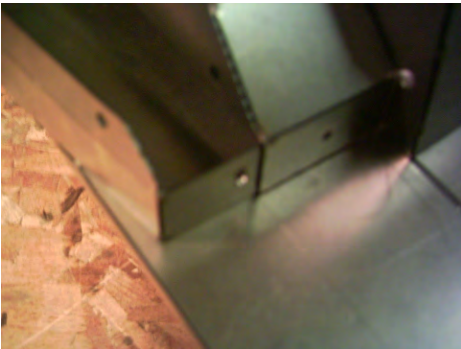


Figure 44a

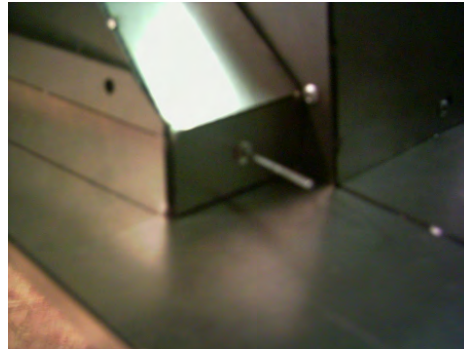


Figure 44b



Figure 44c

**Step 45.** Align the holes in the Cavity Shield with the holes in the Superstructure and secure in place with Pop Rivets (see Figures 45a and 45b). Repeat the process for the other side.

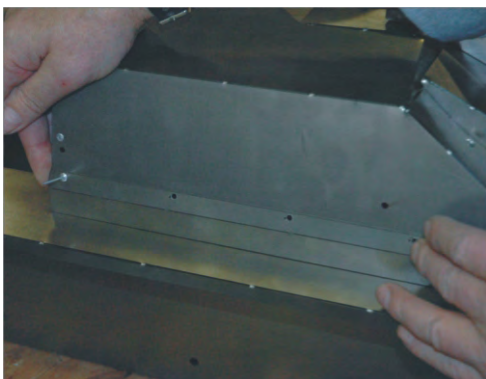


Figure 45a



Figure 45b

# Stug IV Assembly Instructions

## Superstructure

**Step 46.** The tank should now look like the one in Figure 46a.

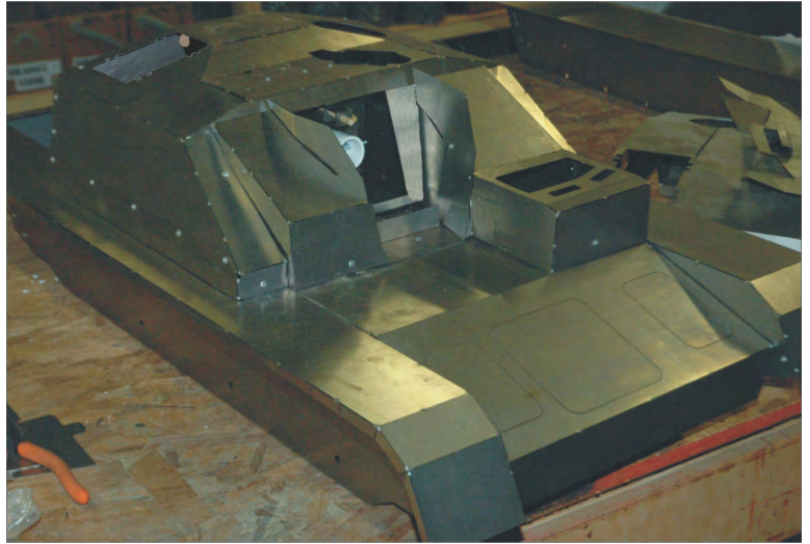
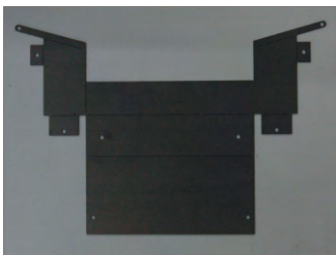


Figure 46a

**Step 47.** Locate the Spare Wheel Holder.



(1) Spare Wheel Holder  
BRA006-701HM

**Step 48.** Bend the four (4) tabs on the side panels up 90 degrees (see Figure 48a and 48b). Bend the sides in to 90 degrees (see Figure 48c) and then bend the bottom over top of the side's bottom tabs (see Figure 48d). Secure with Pop Rivets (see Figure 48e).

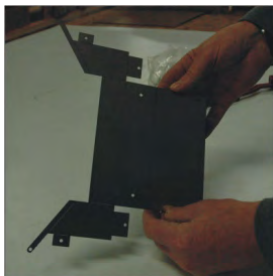


Figure 48a

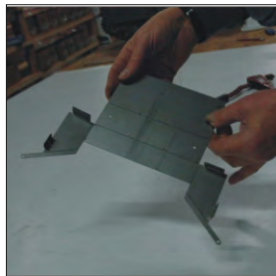


Figure 48b



Figure 48c

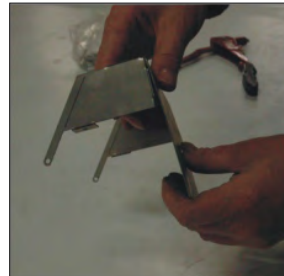


Figure 48d



Figure 48e

**Step 49.** With the Bottom now secured to the sides bend the back up and align the hole in the back with the top side tabs (see Figure 49a). Secure with Pop Rivets (see Figure 49b). Bend the side straps at the tops of the side panels over to 90 degrees (see Figure 49c). When complete it should look like Figure 49d.



Figure 49a



Figure 49b



Figure 49c



Figure 49d

# Stug IV Assembly Instructions

## Superstructure

**Step 50.** Bend the Arms on the Spare Wheel Holder slightly so that they take the shape of the slop of the top of the Superstructure. Align the holes in the Spare Wheel Holder with those in the Superstructure and secure with Pop Rivets (see Figure 50a, 50b and 50c)..

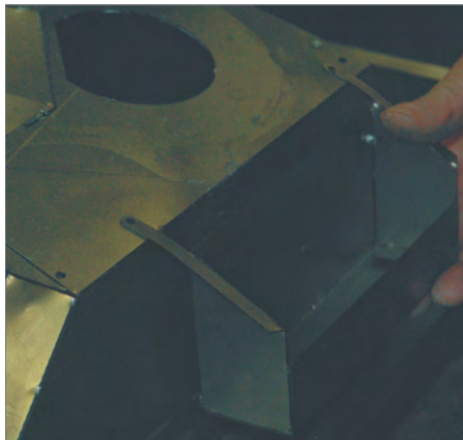


Figure 50a



Figure 50b

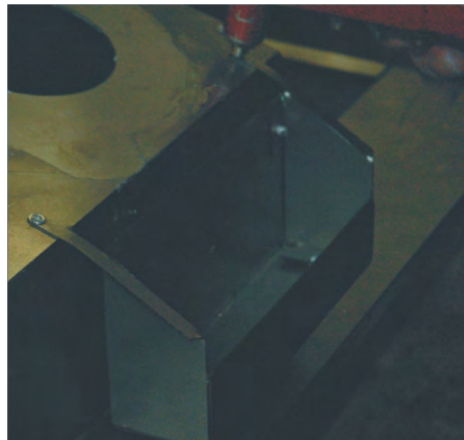


Figure 50c

**Step 51.** The tank should now look like the one in Figure 51a.

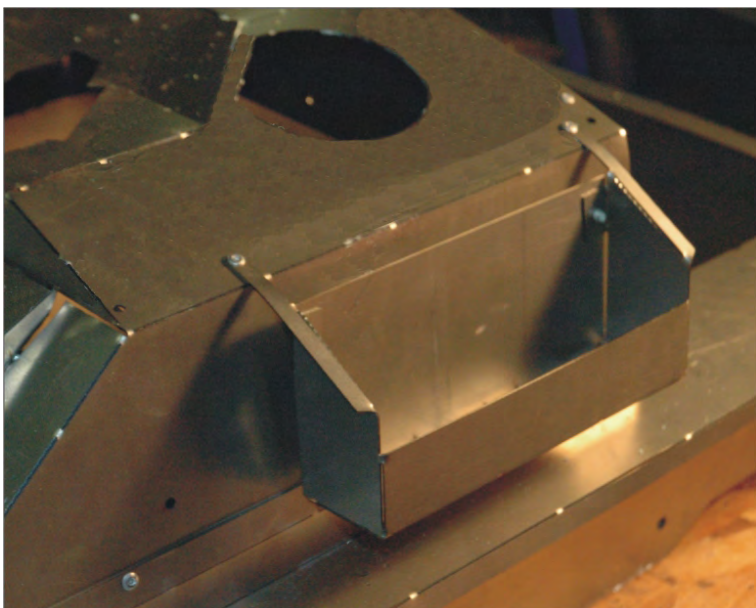
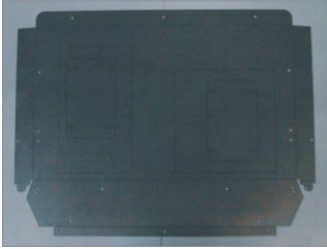


Figure 51a

# Stug IV Assembly Instructions

## Engine Deck Cover and Manifold

**Step 1** The Engine Cover Deck is the third of the larger pieces in the bundle (See Figure 1a and 1b).



(1) Engine Deck Cover  
BRA006-701FM



Figure 1a



Figure 1c

**NOTE:** There are break out pieces in the access door portions of the Engine Deck Cover and can be removed at this stage (see Figure 1c), may have fallen out during shipping or can be left in until a later date. These pieces will eventually have to be removed to accommodate the Engine Grills. For this demonstration we have chosen to remove them.

**Step 2.** Fold the Tabs at the ends of the Side Panels inward to approximately 85 degrees (see Figure 2a), then raise the Side Panels to about 70 degree to the horizontal (see Figure 2b).



Figure 1d



Figure 1b

**Step 3.** Raise the Rear Panel up (see Figure 3a and 3b) until the holes in the Rear Panel align with the hole in the Tabs of the Side Panels. Secure in place with Pop Rivets (see Figures 3c and 3d).

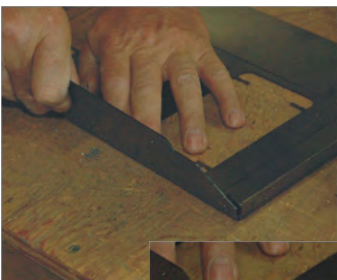


Figure 3a



Figure 3b



Figure 3c



Figure 3d

**Step 4.** When completed the assembly should look like Figure 4a.



Figure 4a

# Stug IV

## Assembly Instructions

### Engine Deck Cover and Manifold

**Step 5.** 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 5a).

**Step 6.** 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 6a) and also bend the tabs with the holes in them on the Intake Manifold Fins to a 90 degree angle (See Figure 6b)

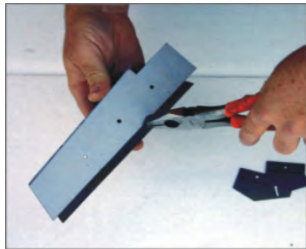


Figure 6a



Figure 6b

**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.

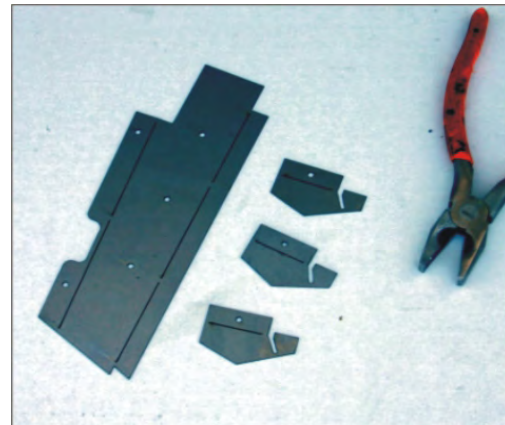


Figure 5a

**Step 7.** 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 7a) When complete you should have two Manifold Assemblies that are the mirror image of one another and resemble Figure 7b.



Figure 7a

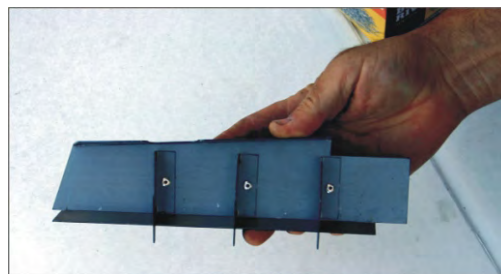


Figure 7b

**Step 8.** Install the Manifold Assemblies on the right and left sides of the Engine Cover Deck (see Figure 8a). The holes in the top Tab of the Manifold Assembly will line up with the holes in the Engine Cover Deck. Secure with Pop Rivets (see Figure 8b)



Figure 8a



Figure 8b

**Step 9.** Pull the bottom of the manifold Assembly outward until the fins are touching the inside of the Side Panel (see Figure 9a).



Figure 9a

**Step 10.** Bend the flange at the front of the Top Panel down as far as it will go (to about 95 degrees) to the horizontal (see Figure 10a). This will allow for the attachment of the Engine Deck Cover to the Superstructure.

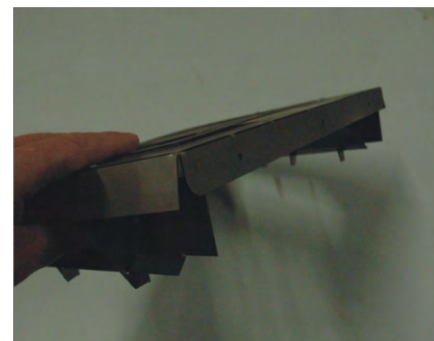


Figure 10a

# Stug IV Assembly Instructions

## Engine Deck Cover Installation

**Step 1.** Install the Rear Engine Deck Cover onto the Chassis and Superstructure (see Figure 1a). Slide the Engine Deck Cover Assembly onto the Chassis behind the Superstructure (see Figure 1b). Secure the Rear Engine Deck Assembly to the Superstructure in three locations with Pop Rivets (see Figures 1c and 1d).



Figure 1a



Figure 1b

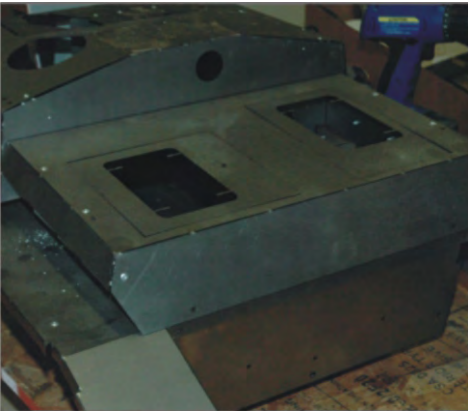


Figure 1c



Figure 1d

**Step 2.** Locate the Rear Brace.



(1) Rear Brace  
BRA001-705M

**Step 3.** Bend the Rear Brace to 90 degrees along the seam and lay the Rear Brace across the bottom of the rear panel of Engine Deck Cover (see Figure 3a). . Align the holes in the Rear Brace with those in the rear panel of the Engine Deck Cover and secure in place with Pop Rivets - one (1) on each side (see Figures 3b, 3c and 3d).



Figure 3a



Figure 3b



Figure 3c

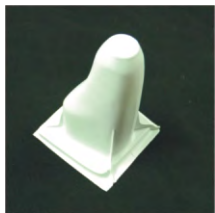


Figure 3d

# Stug IV Assembly Instructions

## Mantlet, Barrel and Muzzle Break Assembly

**Step 1.** Locate the Mantlet. The mantlet will require quite a bit of work to prepare it for installation. See below.



(1) Mantlet  
BRA006-901VF

**Step 2.** The Mantlet comes excess Styrene that has to be removed from the webs at the four vertical corners and around the juncture of the outermost horizontal and vertical surfaces of the Mantlet Shield. With a pencil draw a line around the Mantlet at that juncture. Your pencil should follow the bottom of the groove easily (See Figure 2b). Using a sharp utility knife or a sharp pair of scissors trim off the excess Styrene along the pencil line you have just drawn (See Figure 2c). Sand off any rough edges or imperfections. Trim the excess Styrene from the webs (see Figure 2c) in the same manner as you have just removed the excess Styrene from the Mantlet Shield. At this point the Mantlet should look like it does in Figure 2d. There is also a joint along the bottom surface of the Mantlet elongation that will need to be glued and sanded (see Figure 1a).

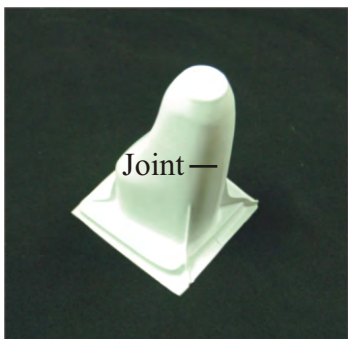


Figure 2a

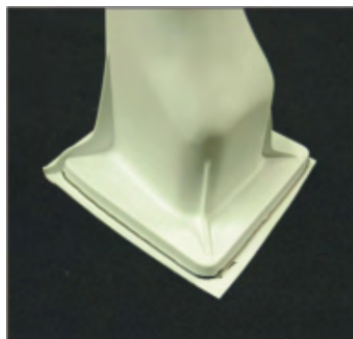


Figure 2b



Figure 2c



Figure 2d

**Step 3.** At the front tip of the mantlet you will see a depression (See Figure 3a). With a pencil draw a line around the mantlet at the bottom of the ridge. Your pencil should follow the bottom of the groove easily. Using a sharp utility knife cut out the styrene (See Figure 3b) to form a hole the slightly smaller than the diameter of the Barrel. Ream out the hole and smooth the surface so that it fits snugly around the Barrel (See Figure 3c).

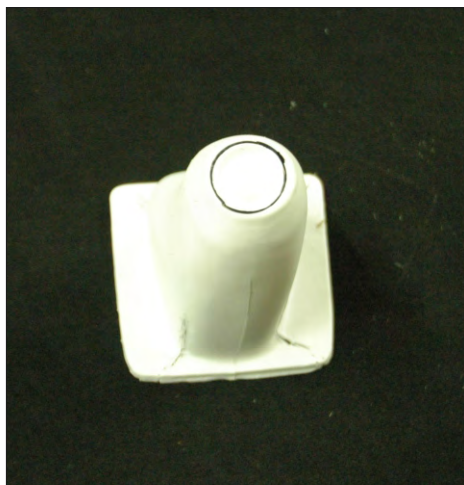


Figure 11a

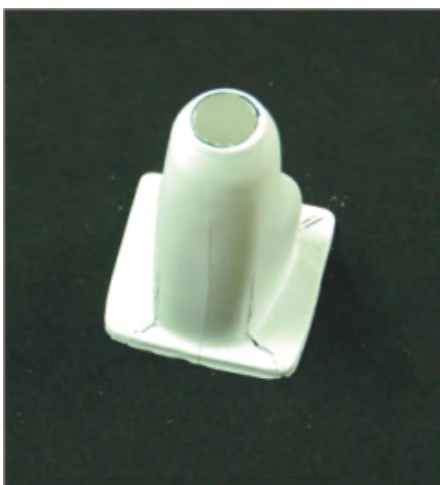


Figure 11b



Figure 11c

# Stug IV

## Assembly Instructions

### Mantlet, Barrel and Muzzle Break Assembly

**Step 4.** Sand off any rough edges or imperfections. Fill any imperfections with your choice of filler (here in the shop we use Bondo or Bondo Corps Dynatron Glazing and Spot Putty). Let dry and sand smooth ready for paint (see Figure 4a).



Figure 4a

**Step 5.** Locate the Muzzle Breaks,



(2) Muzzle Break  
BRA006-413R

**Step 6.** Using Super Glue, glue the two halves of the muzzle Break together and then sand smooth (see Figure 6a and 6b).



Figure 6a



Figure 6b

**Step 7.** Fit the Muzzle Break Assembly into the Barrel end and secure with Super Glue (see Figures 7a, 7b and 7c).



Figure 7a



Figure 7b



Figure 7c



# Stug IV Assembly Instructions

## Mantlet, Barrel and Muzzle Break Assembly

**Step 8.** Place a mark on the Barrel 8 3/4" back from where the Muzzle Break meets the Barrel. Fit the Barrel into the Mantlet (see Figure 8a) and slide it up the Barrel until the front of the Mantlet is aligned with the mark you made on the Barrel. Rotate the Mantlet around the Barrel so that the top of the wide part of the Mantlet Shield is at 90 degrees to the opening in the Muzzle break(see Figure8b). Secure the Mantlet to the Barrel with Super Glue.

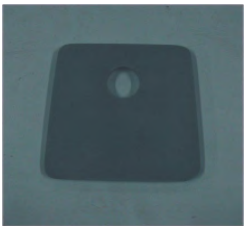


Figure 8a



Figure 8b

**Step 9.** Locate the Mantlet Back Plate.



(1) Mantlet Back  
Plate  
BRA006-402R

**Step 10.** Fit the Mantlet Back Plate over the Barrel end (see Figures 10a and 10b) and slide it up into the pocket on the back of the Mantlet Shield (see Figure 10c. Secure in place with Super Glue.



Figure 10a



Figure 10b



Figure 10c

**Step 11.** The assembly should look as it does in Figure 11a.



Figure 11a

# Stug IV Assembly Instructions

## Barrel Assembly installation

**Step 10.** Install the barrel into the Barrel Rotate Guide. The Barrel is held in position by Friction. If the Barrel Assembly does not stay in the position that you place it in when you take your hand away you need to tighten the 1/4" Nut more tightly onto the 1/4" x 2 1/2" Bolt. The assembly to this point (shown without the Running Gear installed) should look as it does in Figure 10a.



Figure 10a

# Stug IV Assembly Instructions

## Engine Deck Cover Access Doors, Hinges 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).

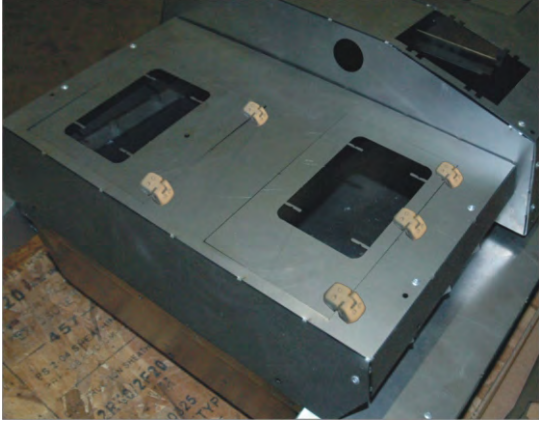


Figure 1a

**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

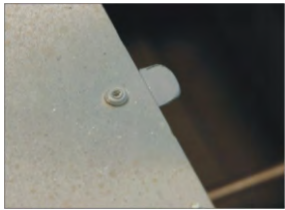


Figure 1e

**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 down into what would be the Engines compartment (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



(2) Small Engine Grill  
BRA001-614R



Figure 2c



Figure 2d

# Stug IV

## Assembly Instructions

### Individual Part Placement

#### 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

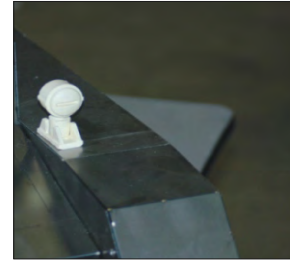


Figure B

#### 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

#### 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.



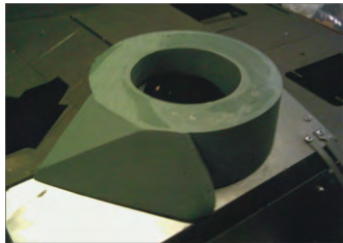
Figure 3a

# Stug IV Assembly Instructions

## Individual Part Placement

### Cupola/Commander's Hatch Base

Place the Cupola/Commander's Hatch Base in the position shown in Figure A. The angle on the front Cupola/Commander's Hatch base should be parallel to the angle of the opening for the Periscope enclosure,



(1) Cupola/Commander's Hatch Base  
BRA006-401R



Figure A

### Commander's Hatch

Before placing the Cupola there is some assembly required. Locate the Commander's Hatch Mounting Ring, the Commander's Hatch Hinge Ring, the Commander's Hatch and the Commander's hatch Viewing Door.



Commander's Hatch Mounting Ring



Commander's Hatch Hinge Ring



Commander's Hatch



Commander's Hatch Viewing Door



Hinge Assembly

Using a short section of 1'16" copper wire and lay it across the two elevated hinge posts of the Commander's Hatch and secure in place with Epoxy (see Figure A). Locate the Commander's Hatch Viewing Door and fit it into the angled portion of the Commander's Hatch. Trim and shape the Commander's Hatch Viewing Door to assure a proper fit. With an assembled hinge join the Commander's Hatch Viewing Door to the Commander's Hatch by securing it with Super-glue.



Figure A

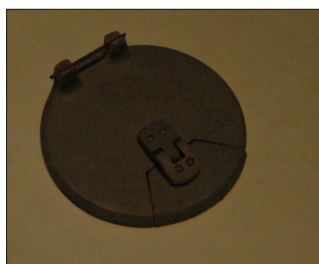


Figure B

# Stug IV

## Assembly Instructions

### Individual Part Placement

#### Commander's Hatch (continued)

Fit the Copper Pin that you have just secured to the Commander's Hatch into the grove of the Commander's Hatch Hinge Ring (see Figure C). Sand the Hinge portion of the Commander's Hatch Hinge Ring down so that the surfaces on either side of the copper hinge pin down so that they are flush with the top of the copper hinge pin.



Figure C

With a Piece Of Styrene shaped to go over the Hinge area of the Commander's Hatch Hinge Ring and secure it in place with Super-glue making sure not to get any glue on the copper hinge pin (see Figure D and Figure E).



Figure D

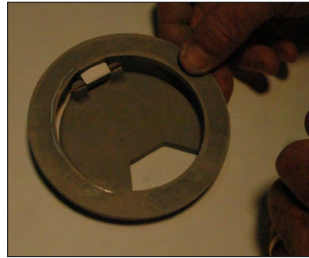


Figure E

Taking the Commander's Hatch Mounting Ring align the Notches in the ring with the Protrusions on the Commander's Hatch hinge Ring (NOTE: It will only fit one way) and snap the pieces together. Some sanding may be required to have the Commander's Hatch sit correctly in the assembly. It should sit so that the bottom of the Commander's hatch is parallel and flush with bottom surface of the Commander's Hatch Hinge Ring.



Figure F



Figure G



Figure H

When you are happy with the fit of the assembly take apart and reassemble it in a secure manner using a dab of Super-glue at each of the posts that separate the two rings and pressing it together firmly until the glue has dried. When the assembly is complete it should look like Figures I and J below.



Figure I



Figure J

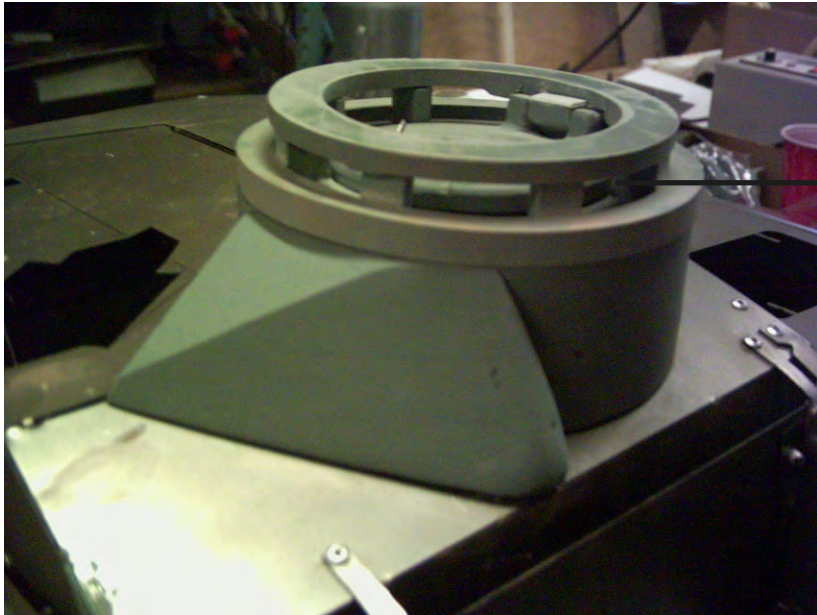
**NOTE:** The Commander's Hatch is designed so as not to be opened as one unit. It is necessary to first open the Commander's Hatch Viewing Door before the Commander's Hatch per see will open.

# Stug IV Assembly Instructions

## Individual Part Placement

### Commanders's Hatch (continued)

Install the Cupola onto the upper surface of the Superstructure with the hinge portion of the Assembly directly to the rear and the edge of the Commander's Hatch Mounting Ring flush with the rear edge of the top of the Superstructure as shown in the Mounting Diagram below.



(1) Commanders Hatch (Cupola) Assembly

Mounting Diagram

### Periscope Hatch Assembly

Gently twist the Access Door from the front of the Superstructure from the stitching (it is attached with two small stitches of metal that allow easy removal). Attach One (1) sets of hinges to Access Door side and the other side to the Superstructure (see Figure A).

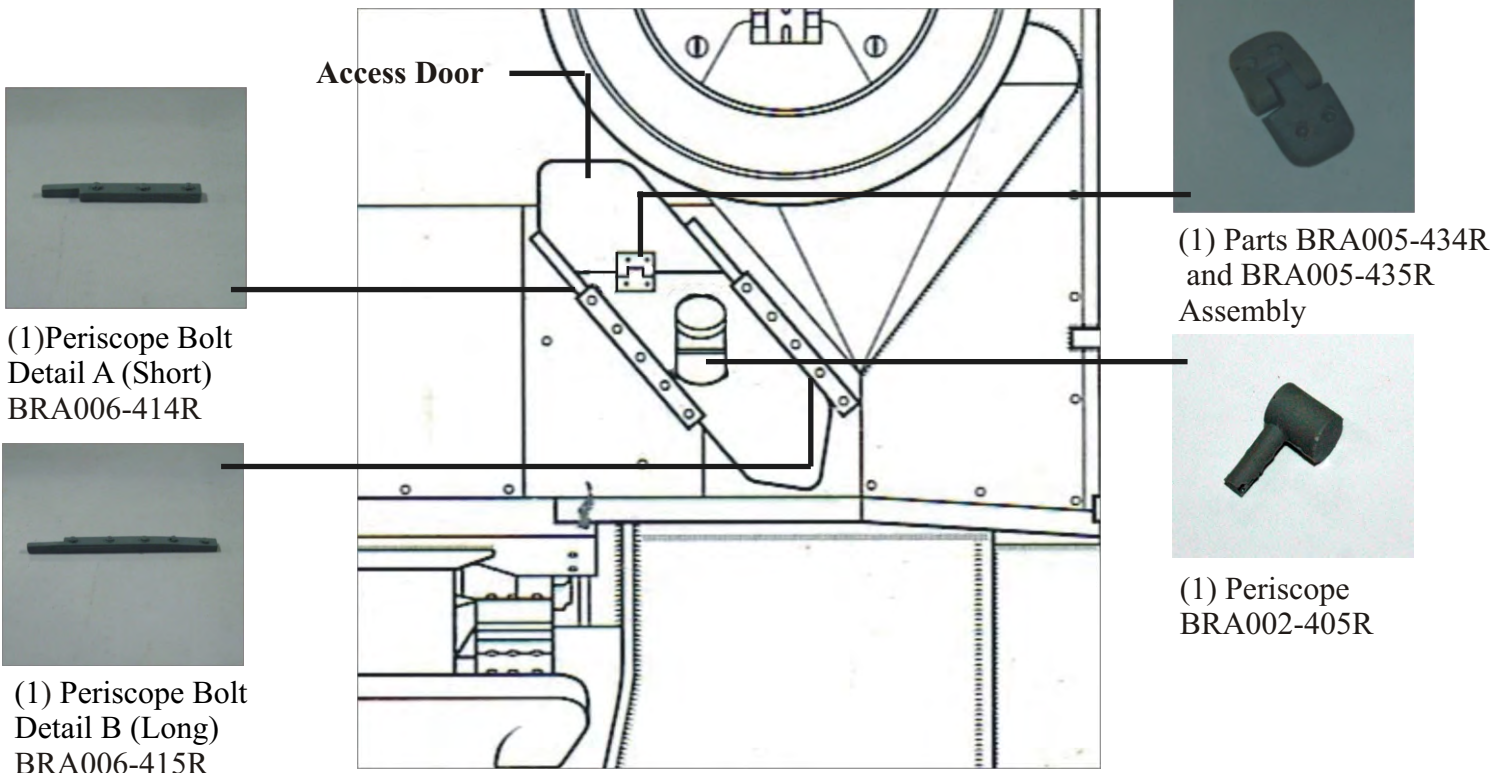


Figure A

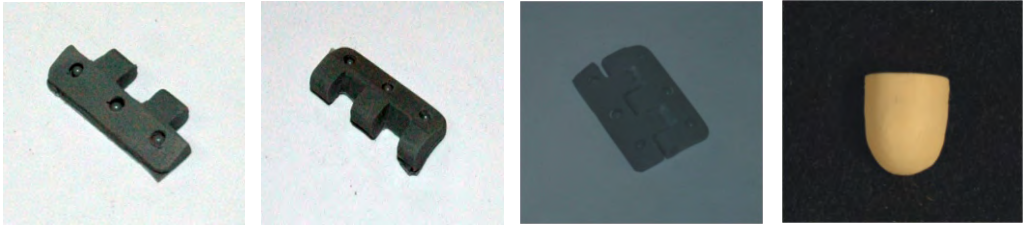
# Stug IV

## Assembly Instructions

### Individual Part Placement

#### Brake Access Panel Doors, Hinges and Vents

Locate two (2) sets of hinge halves as shown below (Note: One (1) set of hinges is supplied as an extra set) Assemble the hinge halves by drilling a hole through each part and inserting a pin through the two halves. Here in the shop we use 1/16" copper wire for the pin.



(2) Brake Access Panel Hinge Half - A

(2) Brake Access Panel Hinge Half - B

Brake Access Panel Hinge Assembly

(2) Brake Access Cover Vent

Gently twist the individual Brake Access Doors from the front of the Chassis (they are attached with two small stitches of metal that allow easy removal). Place the Brake Access Doors back into their respective openings in the Chassis front. Attach One (1) sets of hinges to each Access Door by attaching one side of the Hinge Assembly to the door and the other side to the Chassis (see Figures A and B).

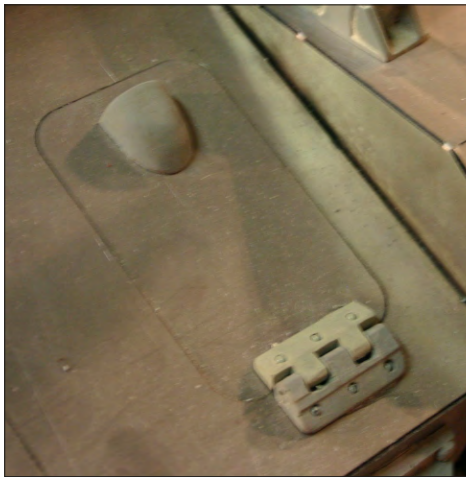


Figure A



Figure B

Using Epoxy attach the Brake Access Cover Vent to the Brake Access Door in the center of each door approximately 3/8 inches down from the top edge (see Figure A)..

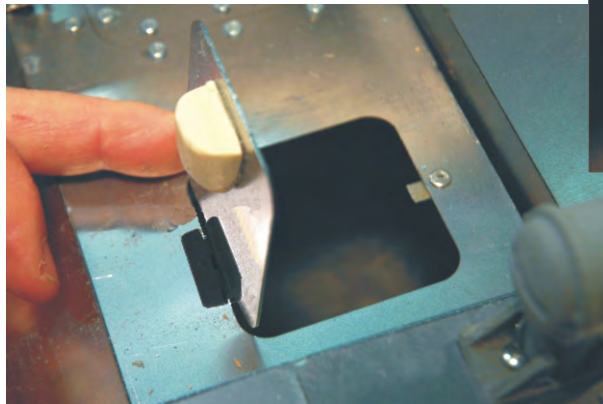
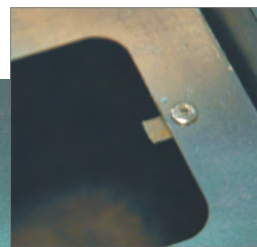


Figure A

Brake Access Assembly



**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.



# Stug 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.



Figure 1a

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 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

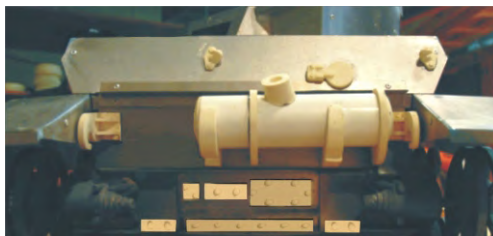


Figure 2b



Figure 2c

**Note:** It would be wise to wait until the Chassis and Upper Deck (Superstructure) are assembled and Rear Brace is installed before completing this installation. Also before installing the Muffler Assembly make sure you have installed Rear Tow hook Assemblies (see section on Individual Part Placement).

# Stug 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).**

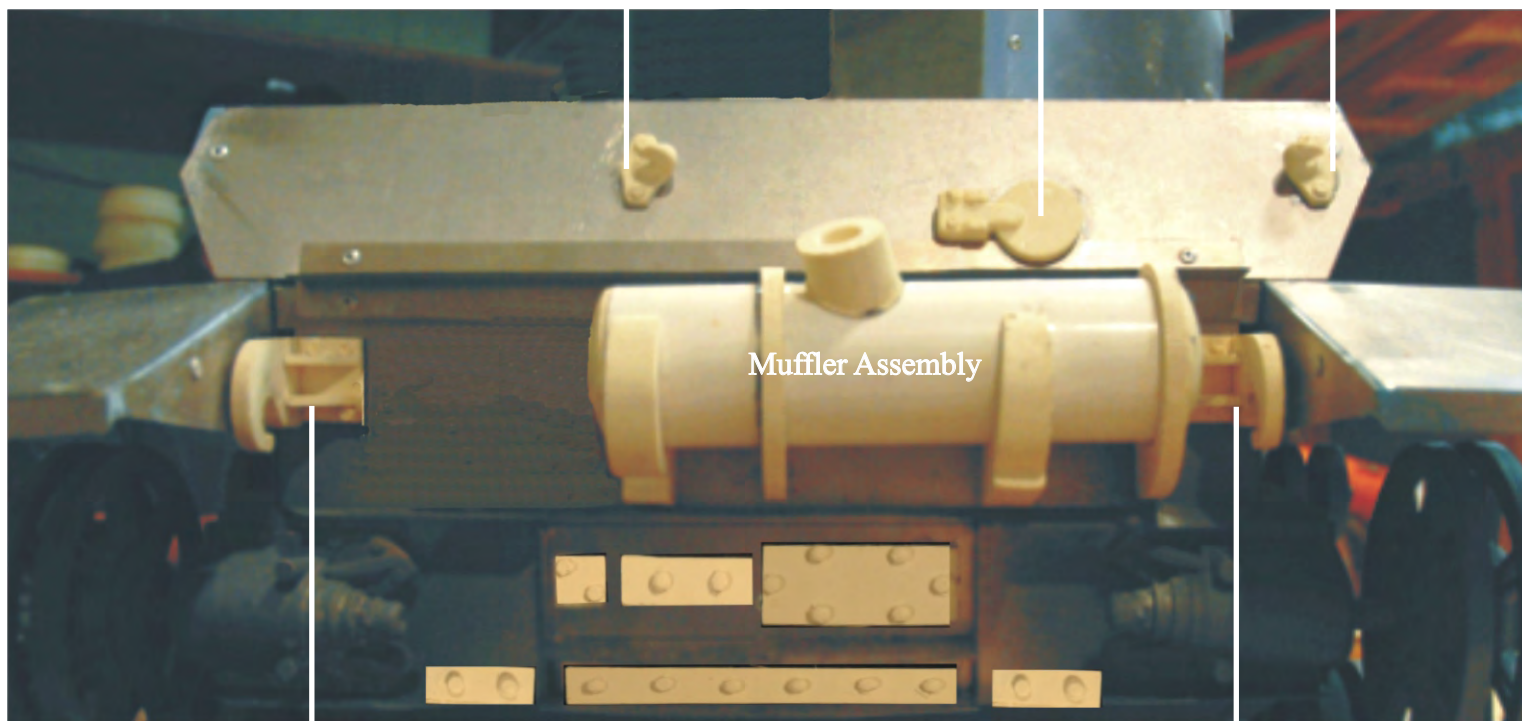
(1) Lifting Hook  
Install one (1) Lifting Hook to the left of center on the rear of the Upper Deck as shown



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

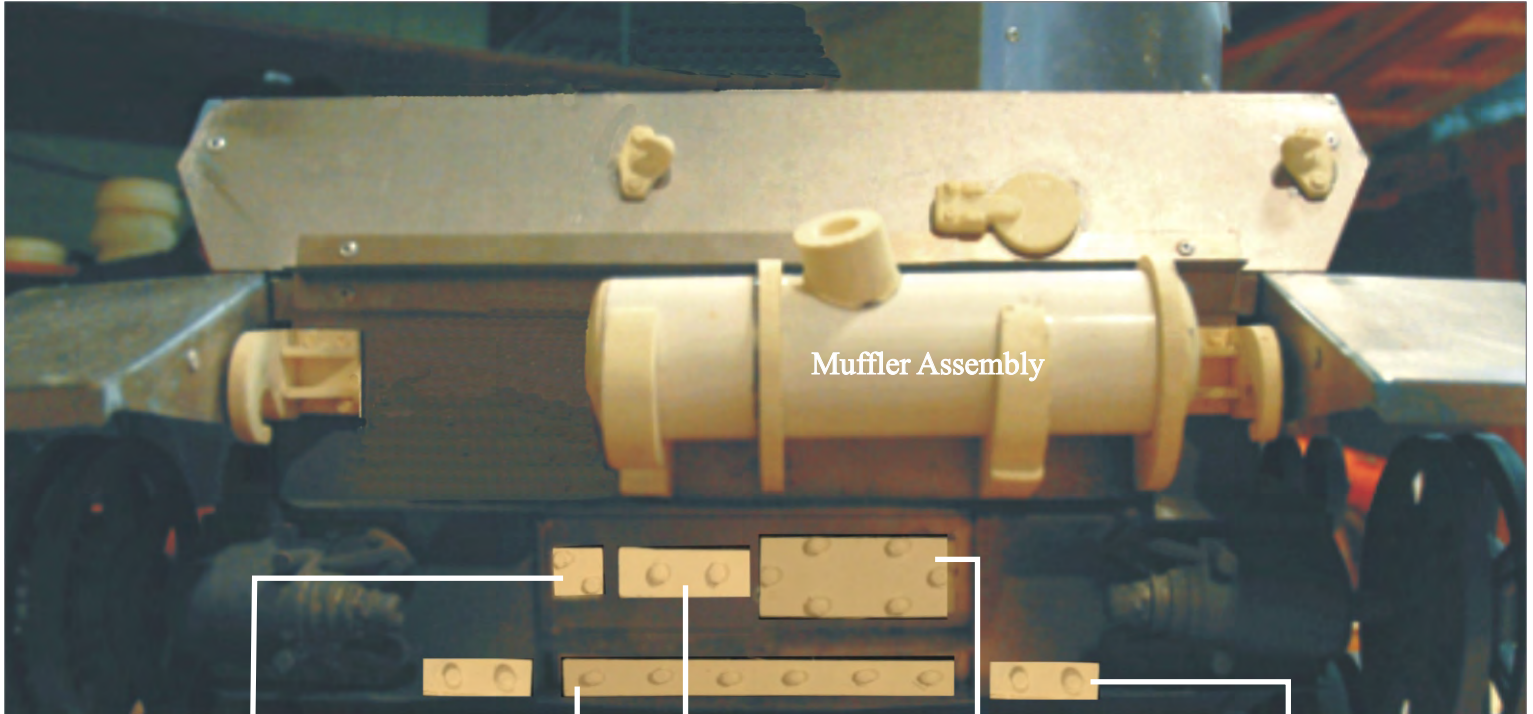
# Stug IV Assembly Instructions

## 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 in sections as required to fit with the Tow Hook Brace



(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

### Radiator Fill Box



(1) Radiator Fill  
Box  
BRA001-604R

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 .

# Stug IV Assembly Instructions

## Individual Part Placement

### 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.

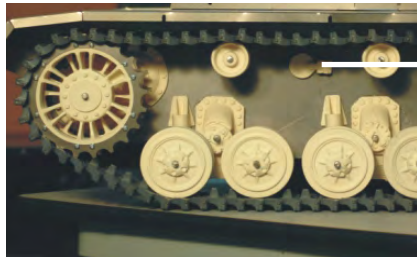
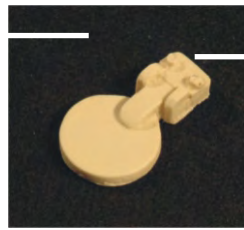


Figure A



(2) Chassis Service Hatch

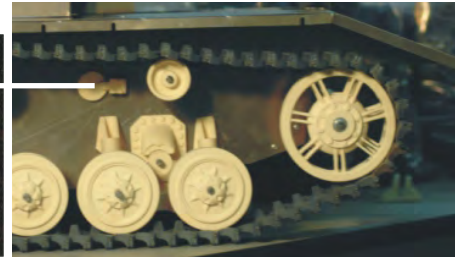


Figure B

### Exterior Machine Gun Shield and Hinges



(2) Exterior Machine Gun Shield  
BRA006-705M



(1) Machine Gun Shield Hinge Block  
BRA001-409R



(1) Machine Gun Shield Hinge Base  
BRA001-408R



(2) Machine Gun Shield Hinge  
BRA001-410R

Bend the sides of the Exterior Machine Gun Shield back approximately 30 degrees (see Figures A and B).



Figure A

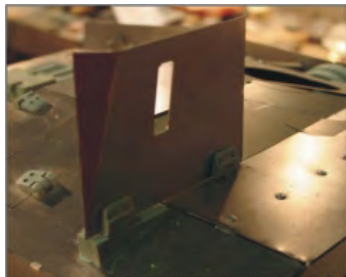


Figure B



Hinge Assembly Type "A"



Hinge Assembly Type "B"

**NOTE:** The Hinge Base for the Type "B" Assembly is installed from the underside of the Superstructure so only the Hinge "nub" is above the roof (see Figure D).

Assemble both of hinge types "A" and "B". When assembling them before installing them make sure you have allowed for the thickness of the metal that will be between the two (2) hinge parts when they are installed.



Figure C



Figure D

Secure Hinge Types "A" and Type "B" to the Upper Deck as shown in Figure E) using epoxy and then secure the Hinges to the Exterior Machine Gun Shield.



Figure E

# Stug IV Assembly Instructions

## Individual Part Placement

### Machine Gunner's Access Hatch Hinges



(4) Machine Gunner  
Access Door Hinge  
Base - BRA006-411R



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



Hinge Assembly

**NOTE:** When assembling them before installing them make sure you have allowed for the thickness of the metal that will be between the two (2) hinge parts when they are installed.

**NOTE:** When assembling them before installing them make sure you have allowed for the thickness of the metal that will be between the two (2) hinge parts when they are installed.

Gently twist the Machine Gunner's Doors (the two(2) doors will come out as one piece) from the rear corner of the top of the Superstructure (they are attached with two small stitches of metal that allow easy removal). Separate the piece along the seam to create two (2) doors See Figure A).

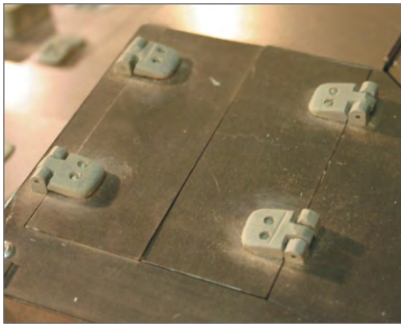


Figure A



**NOTE:** The Hinge Base for these Hinge Assemblies are installed from the underside of the Superstructure so only the Hinge "nub" is above the roof (see Figure D).

Figure B

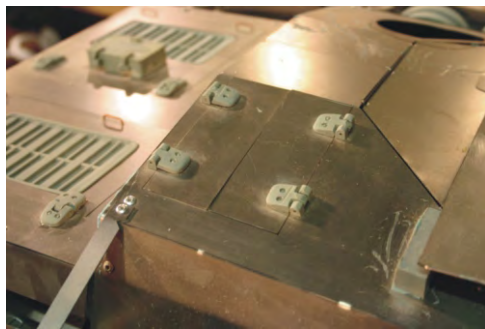


Figure C



Figure D

### Rear Crew Compartment Vent

Assemble both of hinge types "A" and "B".



(1) Rear Crew  
Compartment Vent  
BRA006-416R

Install the Rear Crew Compartment Vent by centering it over the hole in the rear of the Superstructure and securing it in place using Epoxy (see Figure A)

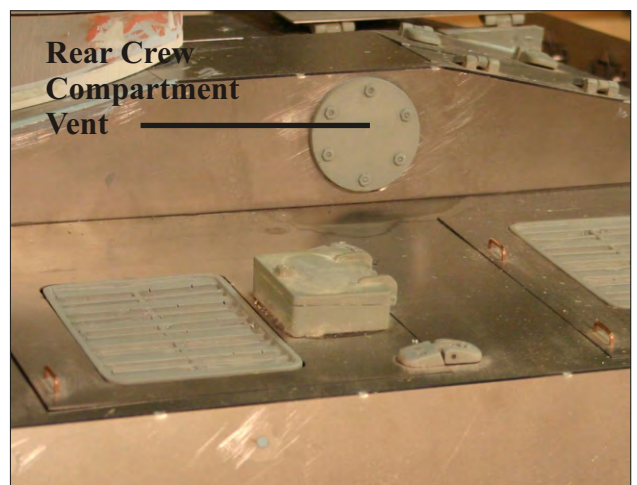


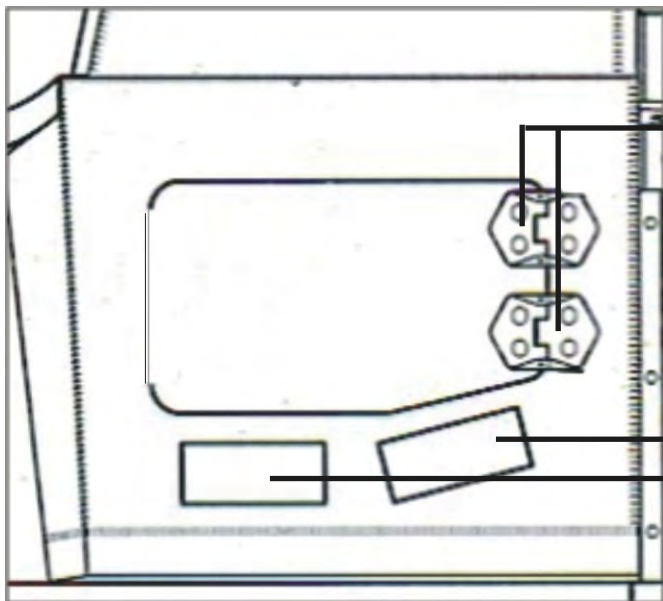
Figure A

# Stug IV Assembly Instructions

## Individual Part Placement

### Machine Gunner's Access Hatch Hinges

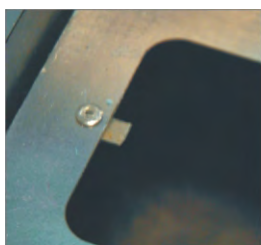
Gently twist the individual Driver's Door from its place in the Driver's Enclosure (it is attached with two small stitches of metal that allow easy removal).



(2) Part BRA005-434R and  
Part BRA005-435R Assembly



(2) Periscope Cover  
BRA002-408R



**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.

### Barrel Travel Lock



(1) Travel Rest Seat  
BRA006-405R



(1) Travel Rest Arm  
BRA006-406R



(1) Travel Rest Base  
BRA006-407R



Assemble the three parts to create an assembly as shown in Figure A

Figure A

Install the Barrel Travel Lock Assembly as shown in Figure B

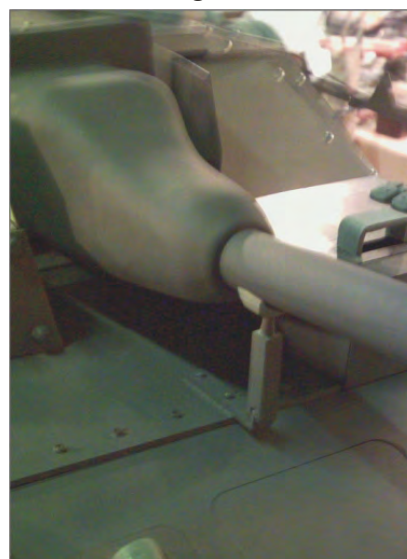


Figure B

# Stug IV Assembly Instructions

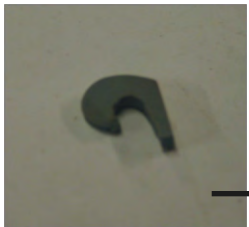
## Individual Part Placement



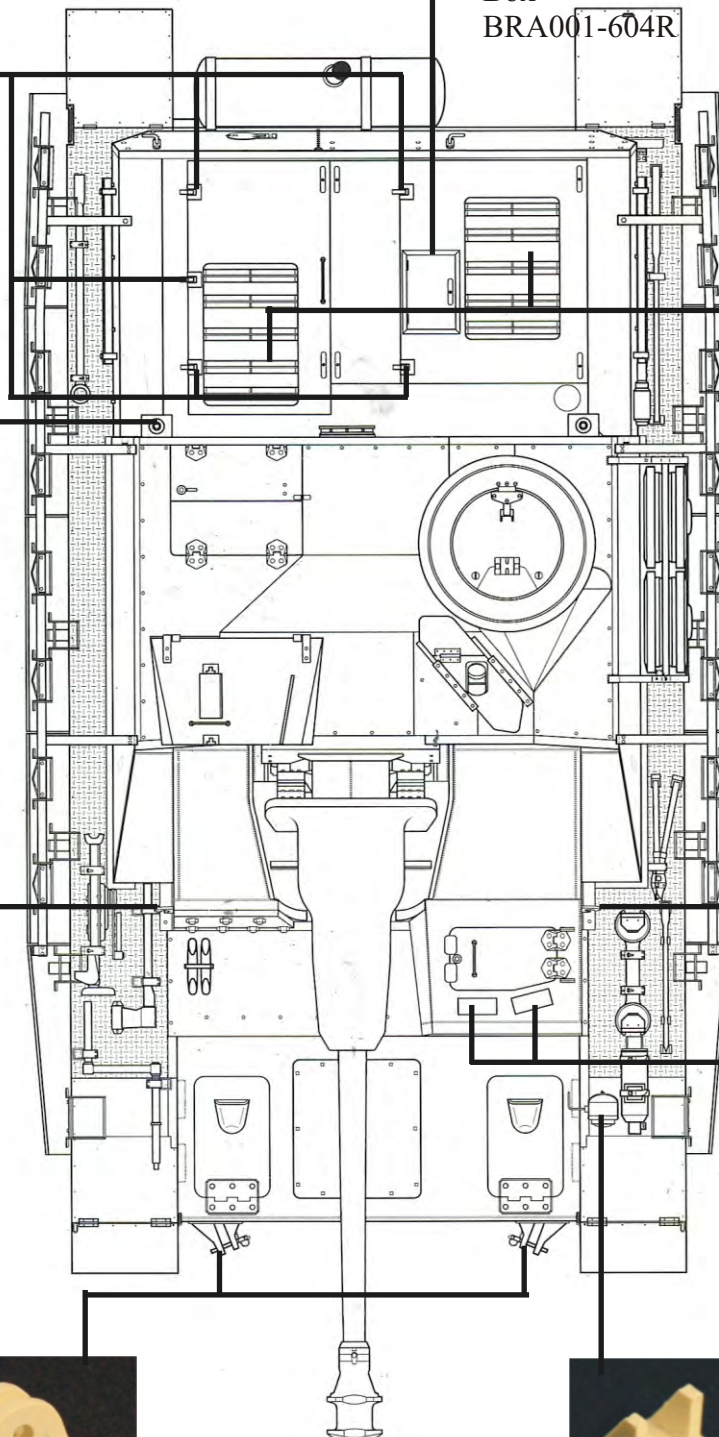
(5) Parts BRA005-434R  
and BRA005-435R  
Assembly



(1) Antennae Mount  
BRA006-417R



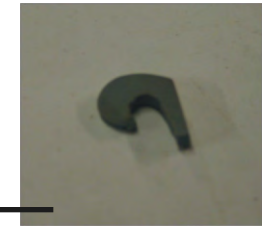
(1) Tie Down  
Hooks  
BRA006-412R



(1) Radiator Fill-  
Box  
BRA001-604R



(2) Small Engine  
Grill  
BRA001-614R



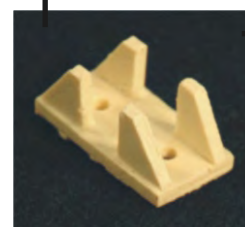
(1) Tie Down  
Hooks  
BRA006-412R



(2) Periscope Cover  
BRA002-408R



(2) Front Tow  
Shackle  
BRA001-432R



(1) Headlight  
Bracket  
BRA001-637R



(1) Headlight  
BRA001-636R

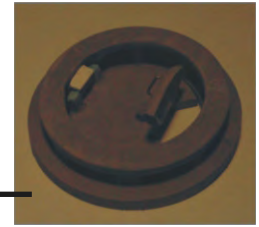
# Stug IV Assembly Instructions

## Individual Part Placement

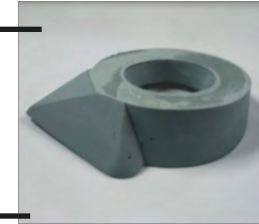
Place two (2) sets of Road Wheels into the Spare Wheel Holder



Secure two (2) set of Road Wheels together with a section of 1/4" Dowel (not Provided)



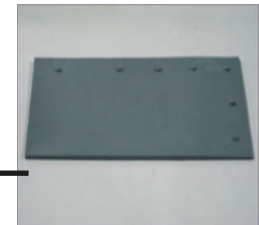
(1) Commanders Hatch (Cupola) Assembly



(1) Cupola/Commander's Hatch Base  
BRA006-401R



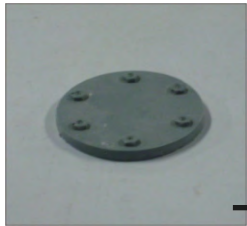
(1) Periscope  
BRA002-405R



(1) Hull Deck Thickener  
BRA006-403R



Brake Access Panel Hinge Assembly



(1) Rear Crew Compartment Vent  
BRA006-416R



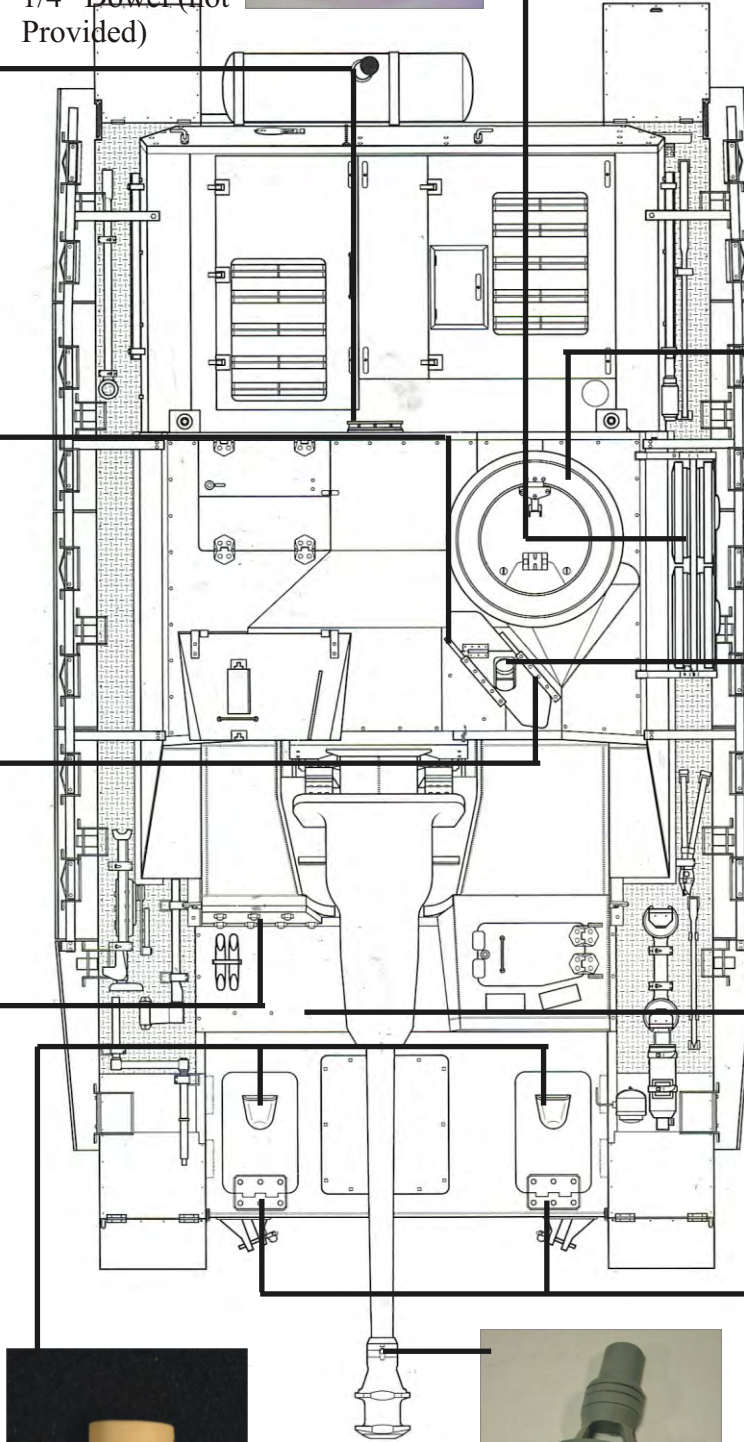
(1) Periscope Bolt Detail A (Short)  
BRA006-414R



(1) Periscope Bolt Detail B (Long)  
BRA006-415R



(1) Gunner's Enclosure Bolt Detail  
BRA006-404R



(2) Brake Access Cover Vent



(2) Muzzle Break  
BRA006-413R