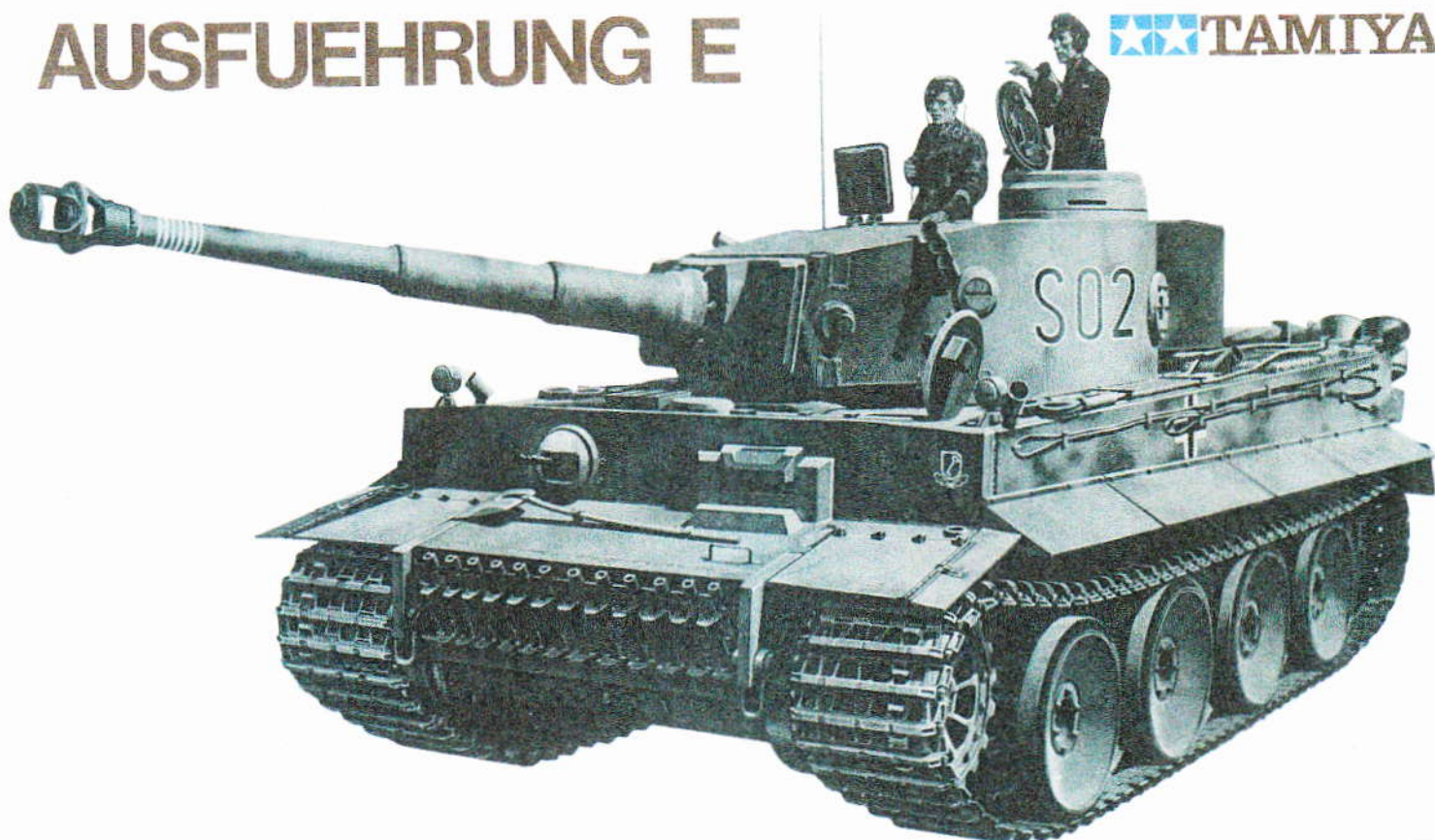


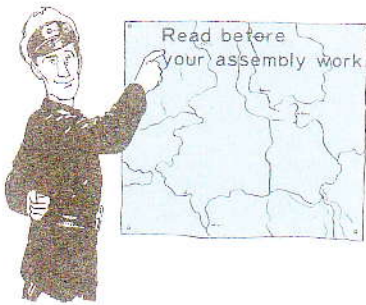
TIGER I

GERMAN PANZERKAMPFWAGEN VI TIGER I (SD.KFZ. 181) AUSFUEHRUNG E

 TAMIYA


Engine, manufacturer / type	Maybach "HL 210 P 45" *
Number of cylinders, arrangement	12, "V" 60°
Bore	125 mm
Stroke	145 mm
Cylinder displacement	21353 ccm
Compression ratio	7:1
RPM normal / maximal	2500 / 3000
Output normal / maximal	650 BHP
Power to weight ratio	11,4 HP/t
Valve arrangement	Overhead
Crankshaft bearings	7+1 rollerbearings
Carburetor	4× Solex 52 JFF II D
Firing order	12-1-8-5-10-3-7-6-11-2-9-4
Starter	Bosch BPD 6/24 ARS 150
Suspension	One transverse torsion bar per roadwheel
Chassis lubrication	High pressure
Brake manufacturer	Suedd. Arguswerke
Brake type	Disks, mechanically operated
Footbrake acts on	Steering brake
Handbrake acts on	Steering brake
Kind of roadwheels	Steel disks
Size of roadwheels	800×95 E
Track width	2822 mm, narrow track 2620 mm
Payload	1500 kg
Fuel consumption	Street 535 / Cross Country 935 litres per 100 km

Generator	Bosch GULN 1000 12-1000
Number of batteries	2×12 V, 150 Ah
Fuel system	2 mechanical pumps
Cooling	Water
Clutch	Multidisk, wet
Transmission	Maybach OLVAR, "401216"
Number of gears	8 F, 4 R
Final drive	Front sprockets
Final drive ratio	10,75:1
Top speed	38 km/h
Range	Street 100 km, Cross Country 60 km
Steering	Henschel "L 500 C"
Turning radius	7 metres
Length of track on ground	3605 mm
Width of track	725 mm, narrow track 520 mm
Ground clearance	470 mm
Overall length	8241 mm
Overall width	3547 mm
Overall height	2880 mm
Ground pressure	1,04 kg per sq. cm
Chassis weight	44550 kg
Total weight	56900 kg
Crew	5
Fuel capacity	534 litres in 4 tanks



★ The number of parts in this kit amounts to approximately 300. Read the instructions carefully before starting.

★ Have a small screwdriver, tweezers, knife, tape, etc. handy.

★ Use adhesives made exclusively for plastics.

★ Painting instructions are given on pages 13, 15 and 16. It is much easier to paint all small parts while they are still on the runners.

★ The blue colored portion of the sketches are areas to be glued.

Fig. 1 Fixing of Torsion Bar

Fix torsion bar onto lower hull by matching each lower hull with the torsion bar number. Refer also to Figure 5.

Fig. 2 Construction of Wheels

A. Insert cap (large) into sprocket wheel H2. Then glue sprocket wheel H1 to H2.

B. First glue wheels H5 and H6 together. Then glue H7 to same.

C. First glue wheels H5 and H8 together. Then glue H6 to same.

D. Insert cap (large) onto H3. Then glue H4 to same.

★ Paint sprocket wheel teeth silver. The rim of road wheels are usually made of a rubber material. Therefore, paint these rims in flat black.

Fig. 3 Fixing of Front Shaft

Insert the 3mm dia. shaft (106mm long, unplated) into lower hull and fix it with the hexagon nut. Then fix wheels A onto the shaft.

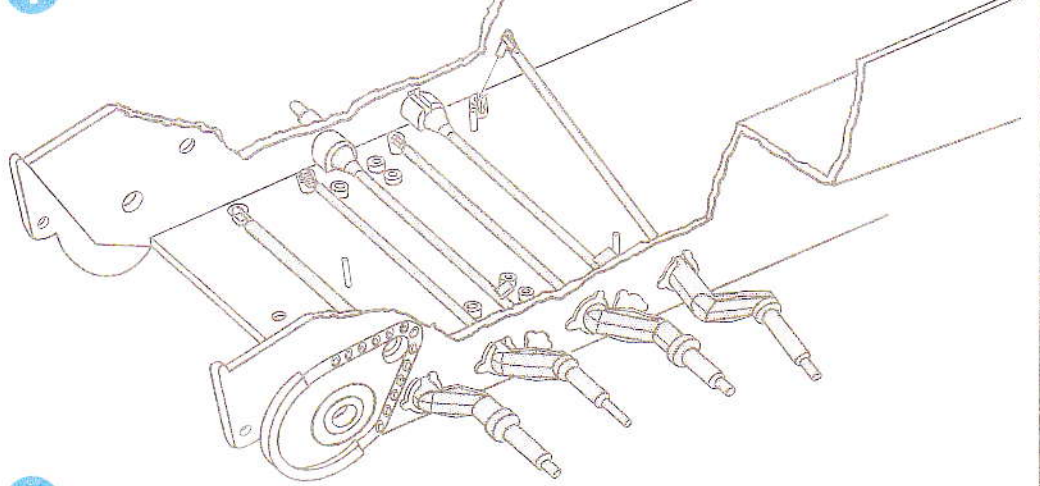
Fig. 4 Fixing of Rear Shaft and Adjuster

Fix adjuster J-10 onto lower hull using screw M2 and nut M3. The adjuster is to adjust the tension of the track after the kit is completed. Insert 3mm rear shaft (106mm) into lower hull.

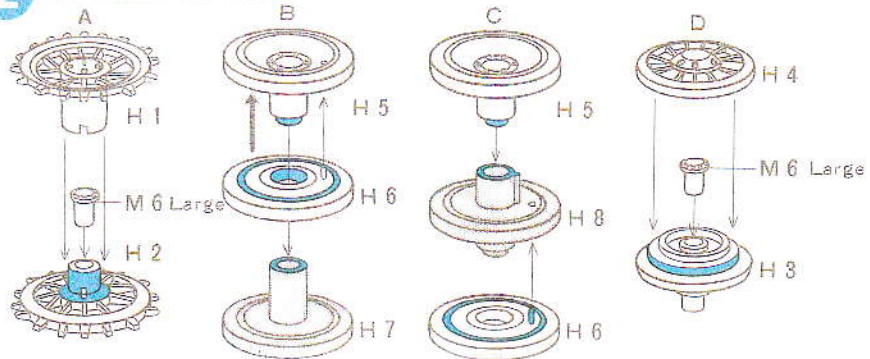
Fig. 5 Shows assemble of torsion bars and wheels.

(As per Figure 1)

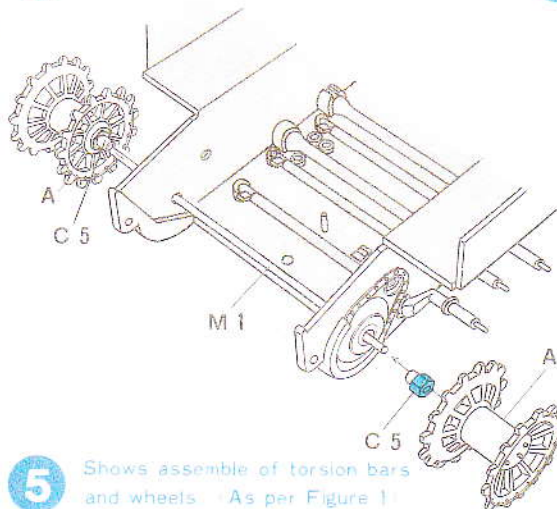
1 Fixing of Torsion Bar



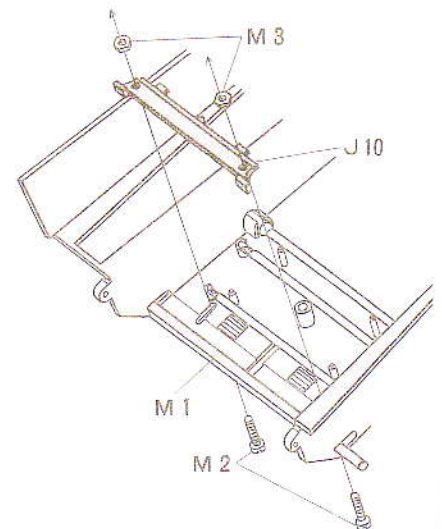
2 Construction of Wheels



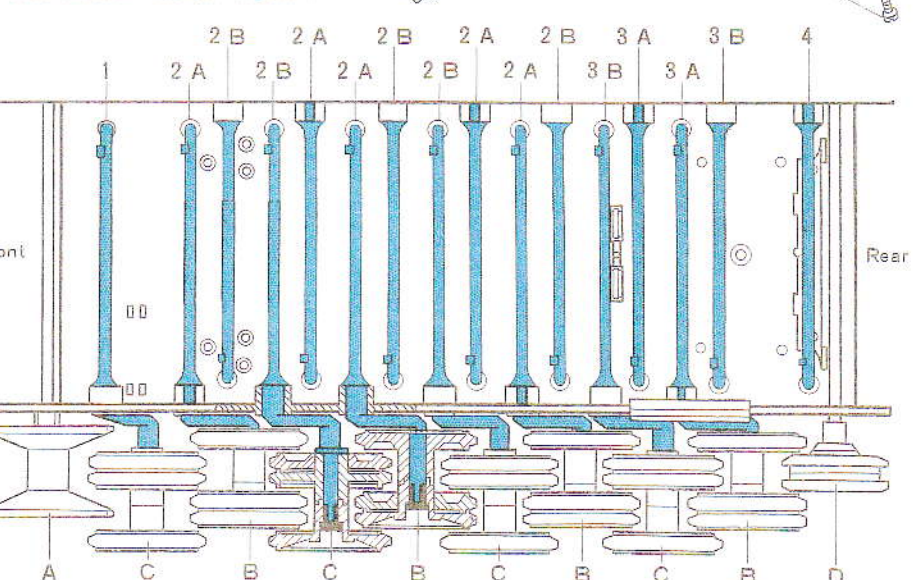
3 Fixing of Front Shaft



4 Fixing of Rear Shaft and Adjuster



5 Shows assemble of torsion bars and wheels



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Fig. 6 Fixing of Wheels
 Fix wheels C & B (have been preassembled per Fig. 2) onto torsion bars by twisting. Secure the wheels with cap (small) F6.

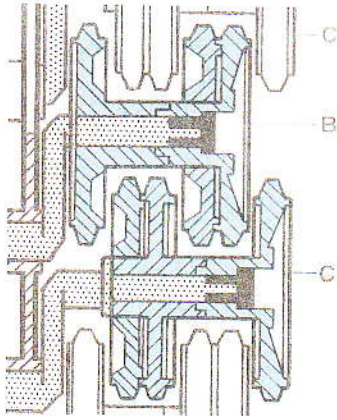


Fig. 7 Construction of Transmission Unit

See diagram on right.

*Paint steering wheel and steering lever in white but the area where hands are placed on wheels should be painted in glossy steel grey.

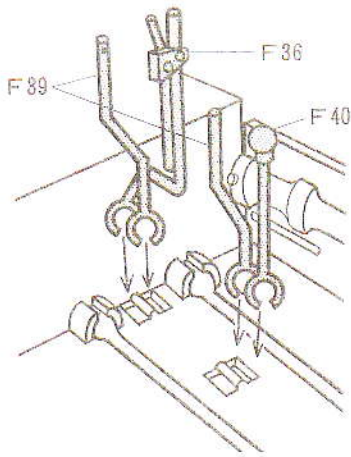


Fig. 8 Fixing Transmission Unit onto Lower Hull

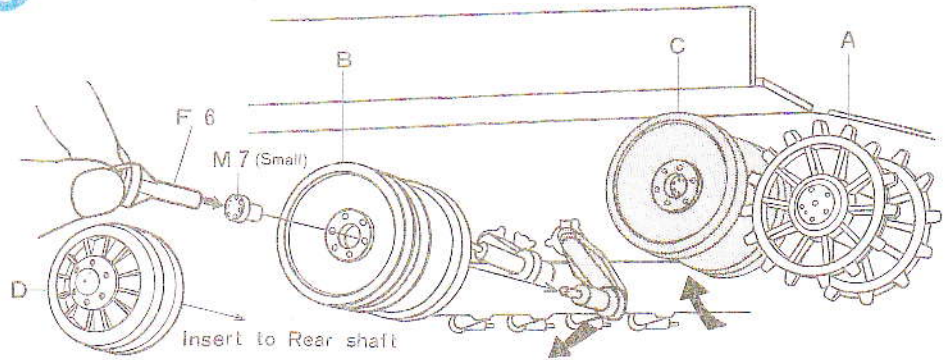
Snap onto lower hull steering lever F-39, control lever F-40, and hand brake F-36. Do not use glue here. Glue transmission unit to lower hull. Then glue driver's seat F-30 at both ends. Glue 88mm ammo boxes F30 and F33 in place as shown.

Fig. 9 Fixing Engine and Checkered Floor Plate

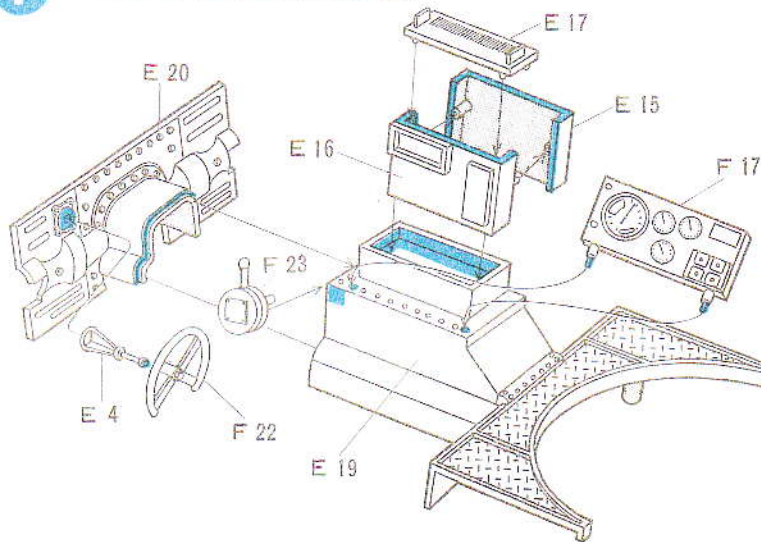
Fix 3 each MG ammunition magazines F-1 onto bulkhead E12. Put E12 and E8 together and glue them to lower hull. Mount engine F41 on stay as shown.



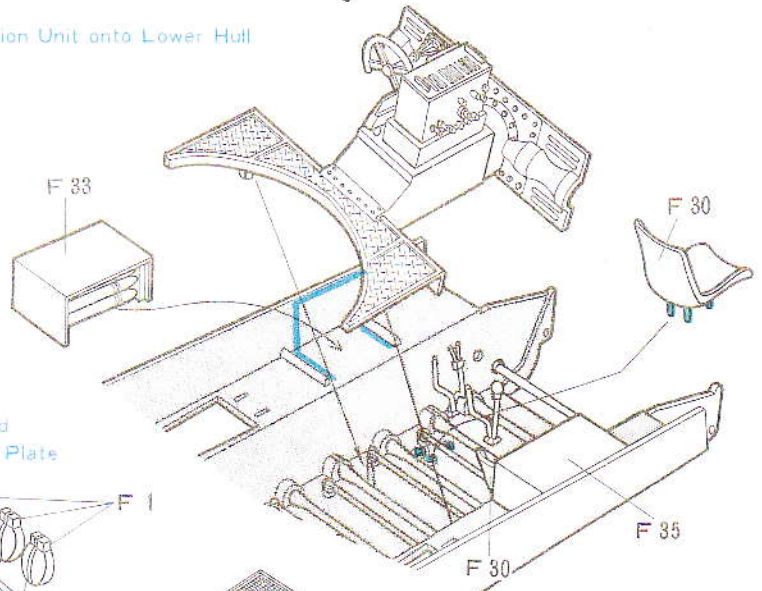
6 Fixing of Wheels



7 Construction of Transmission Unit



8 Fixing Transmission Unit onto Lower Hull



9 Fixing Engine and Checkered Floor Plate

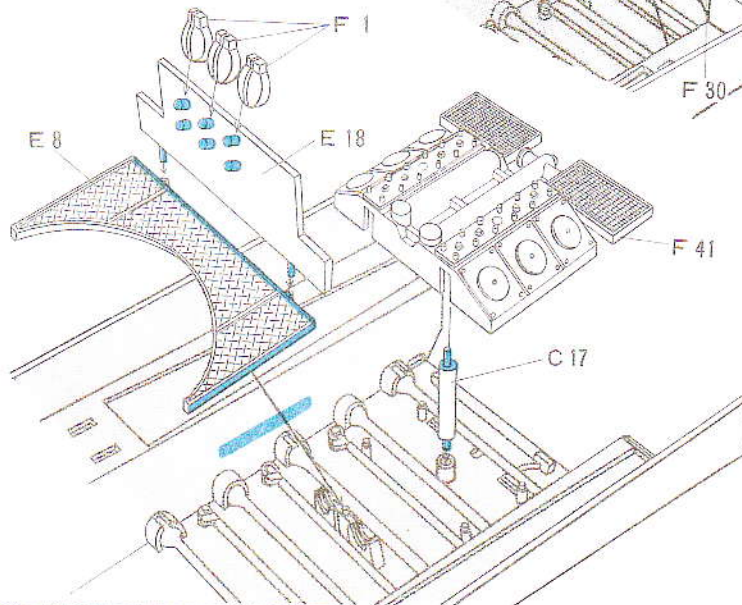
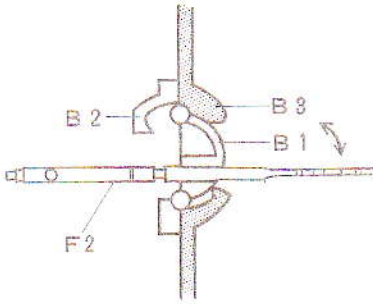


Fig 10 Fixing of Front Panel Interiors

Be careful to face MG34 base B1 in the correct direction. Fix with B2 glued to B3. Be sure not to apply glue to B1 as it should be movable.



★Paint periscope interior in silver with the edges in steel gray. Paint 88mm shell in copper color and bullets in silver.

Fig 11—Fixing of Parts

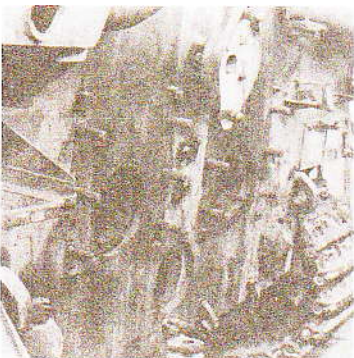
Fix hook C12 without using glue. No glue is to be applied to shovel C15 and C18. It should be detachable. Insert track link assemblies (9 links) as shown. Refer to the method of making tracks on page 24.

Fig 12—Construction of Silencer, Jack, Air Intake Pipe

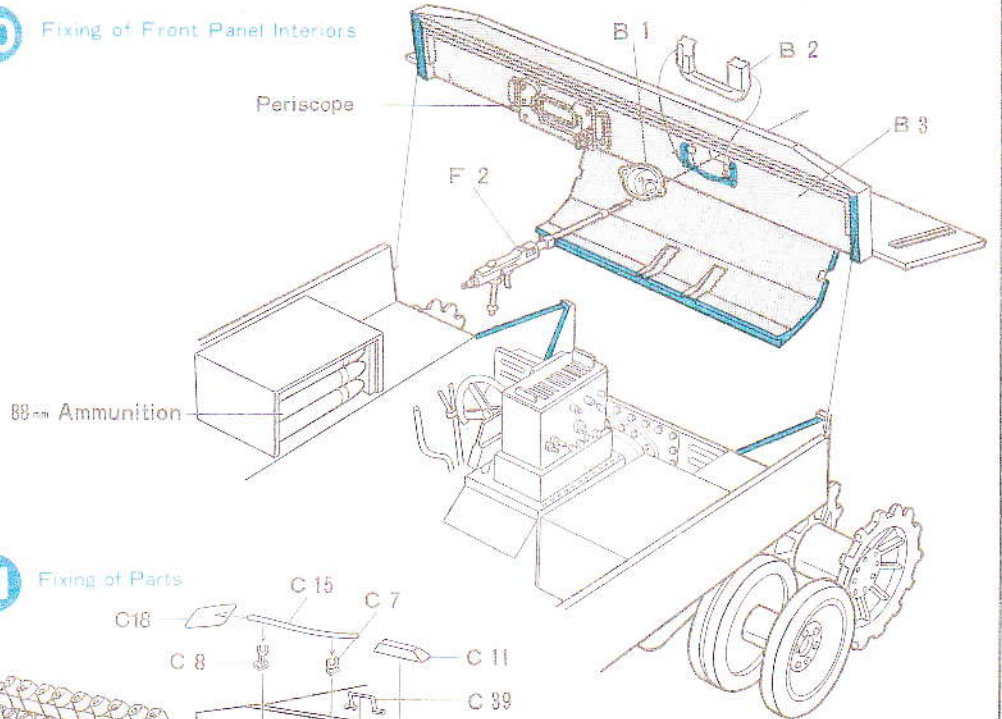
Jack, Air Intake Pipe—Silencer and air intake pipe come in two pairs.

Fig 13—Fixing Rear Panel Parts

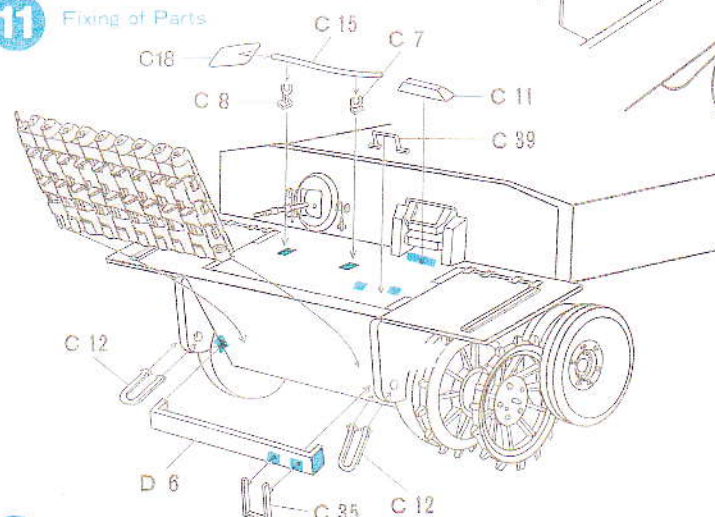
Glue rear panel B7 to lower hull. Snap onto lower hull fender D20 and D21 and hook C12 (no glue should be applied).



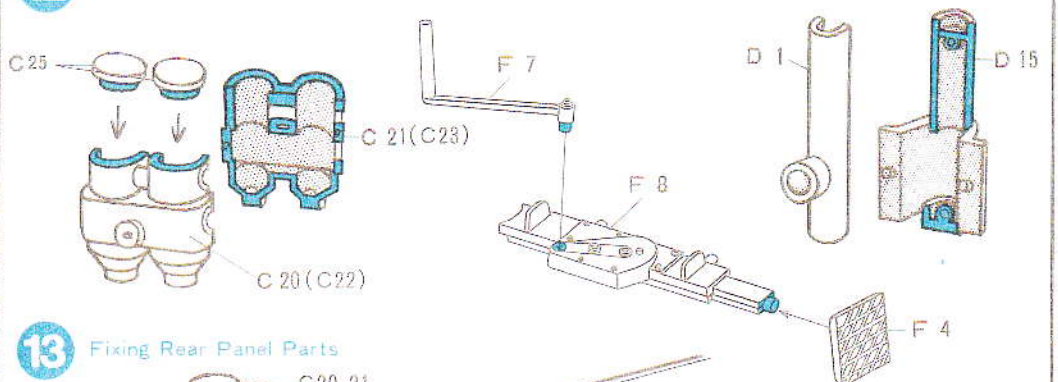
10 Fixing of Front Panel Interiors



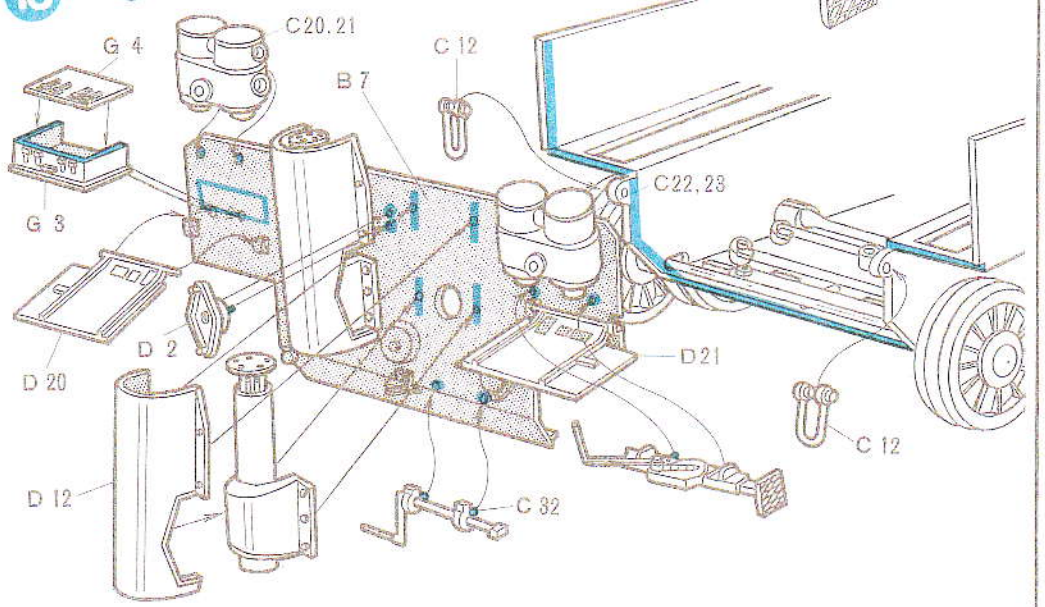
11 Fixing of Parts



12 Construction of Silencer, Jack, Air Intake Pipe



13 Fixing Rear Panel Parts



14 Fixing of Fender (Skirt) and Wire Ropes

Fig 14—Fixing of Fender (Skirt) and Wire Ropes

Fix wire rope as shown. Put the wire rope as shown in the illustration. Fixing the ends of the wire rope.

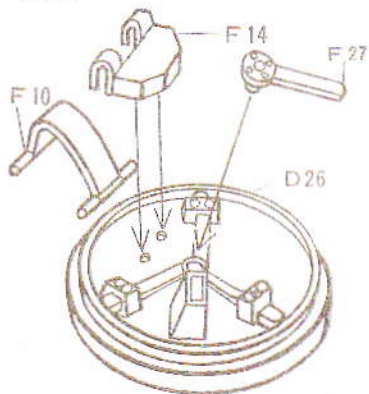
Put vinyl tube through the wire rope. Loop each end and secure the neck of loop with the vinyl tube.

Fig 15—Construction of Upper Hull A

Do not glue C26.

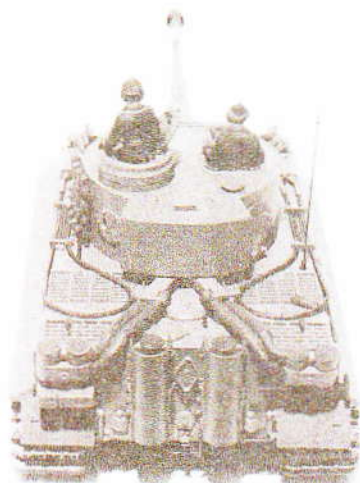
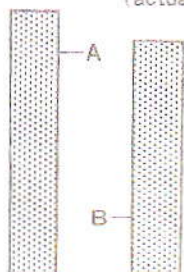
Fig 16—Construction of Upper Hull B

In gluing F16 of driver's hatch with hinge F10 snapped therein, be careful not to let the adhesive overflow onto F10. —In constructing exhaust pipes,

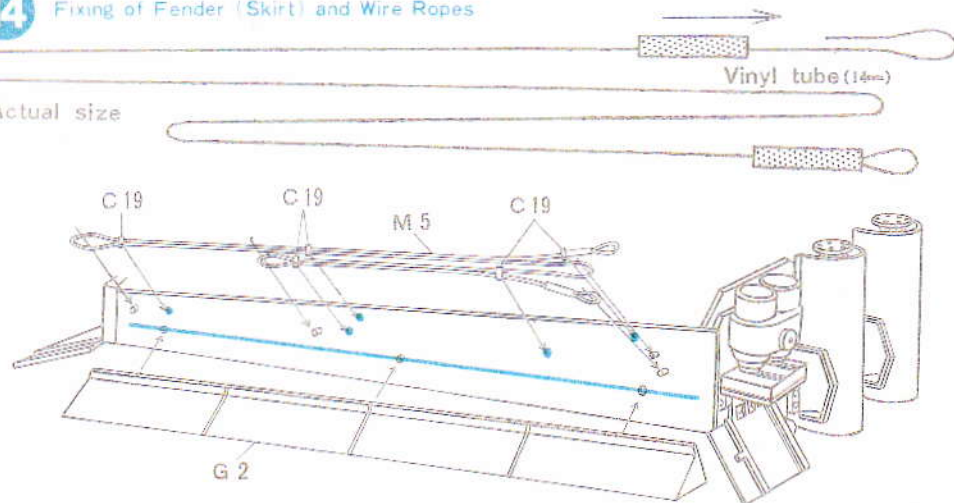


cut rubber tube into two pieces 34.5mm long and two pieces 30mm long and fix them together as shown.

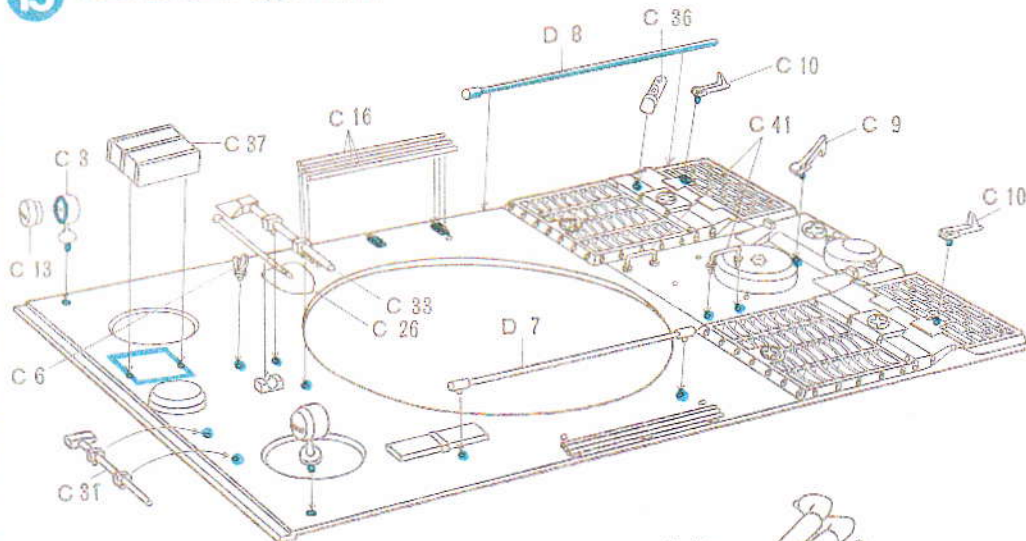
(actual size)



Actual size



15 Construction of Upper Hull A



16 Construction of Upper Hull B

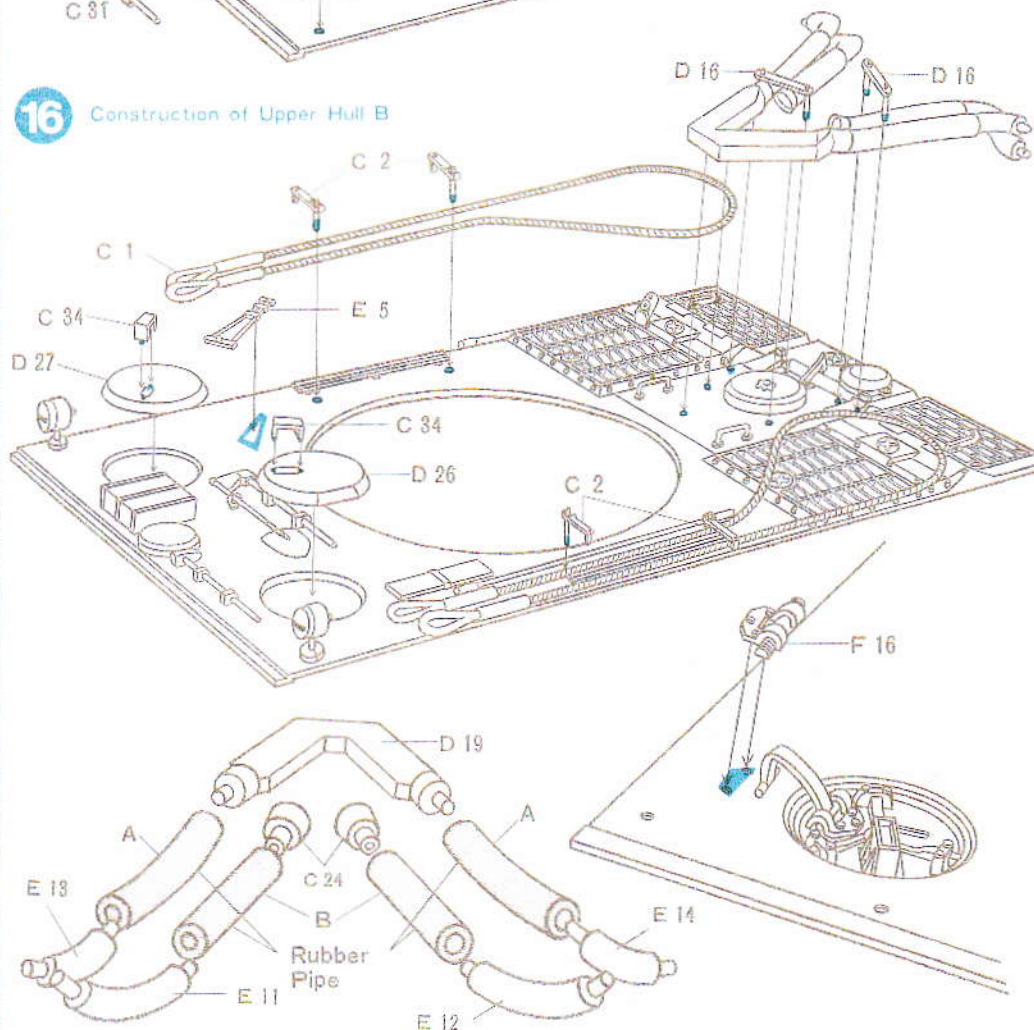


Fig. 17 - Construction of Gun Barrel and Breech (A)

★The slant-lined area should be painted copper color.

Fig. 18 - Construction of Gun Barrel and Breech (B)

★Paint the canvas sack for shells grey.

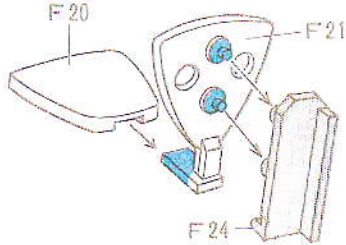
Fig. 19 - Construction of Gun Turret Interior (A)

Note: Actual gunner's chair consisting of F26 and 31 is a revolving type.
★Paint the steering wheel white but the area where hands are placed on wheel should be painted glossy steel grey.

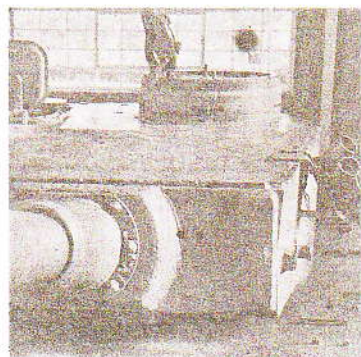
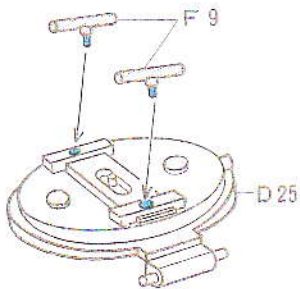
Fig. 20 - Construction of Gun Turret (B)

In gluing F11 to mount escape hatch D25, be careful not to let the adhesive overflow onto D25. Glue 6 MG magazines F1 to turret side panels (3 pieces on each side of panel).

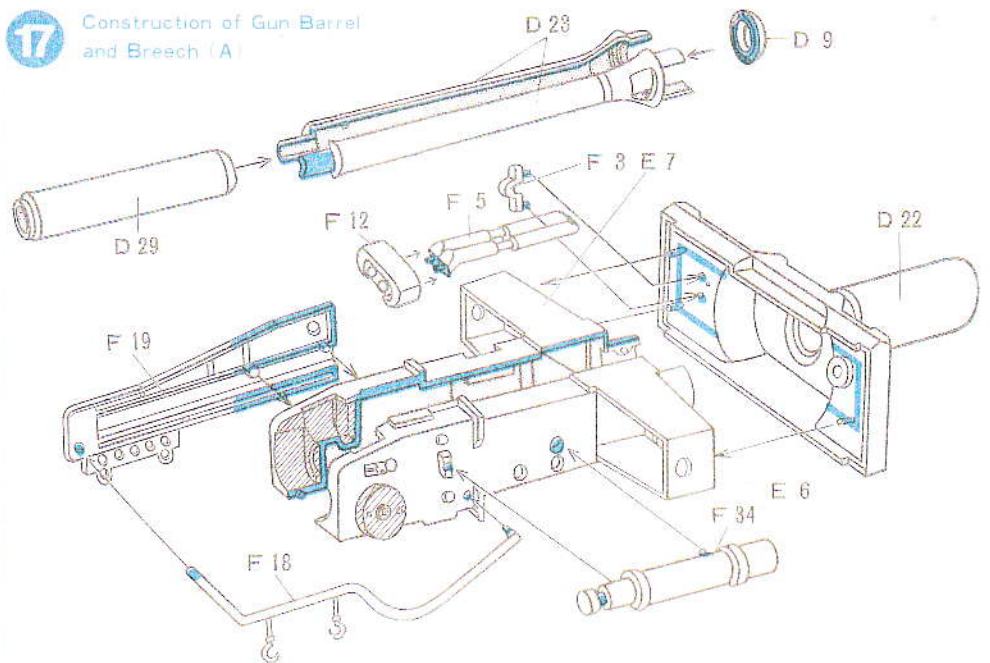
Construction of Commander's Seat



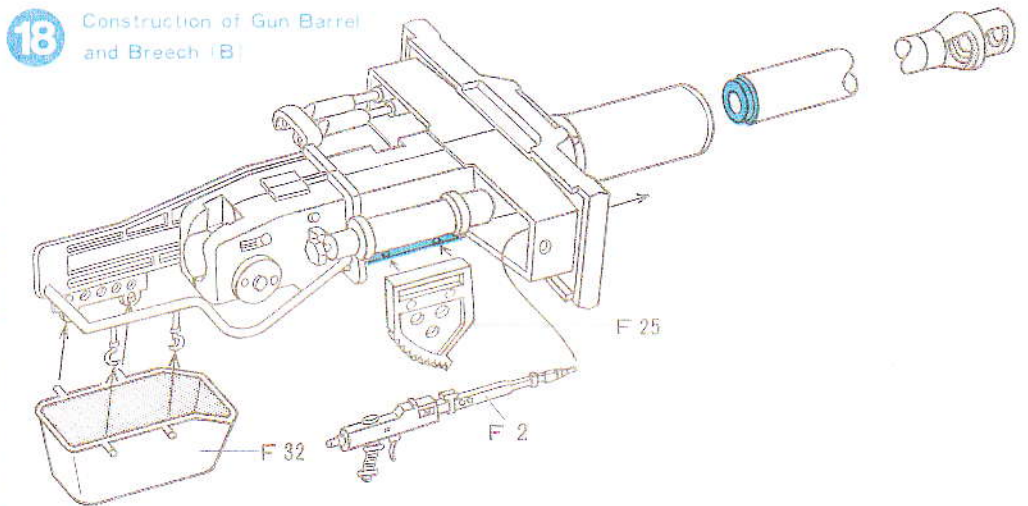
Construction of Escape Hatch



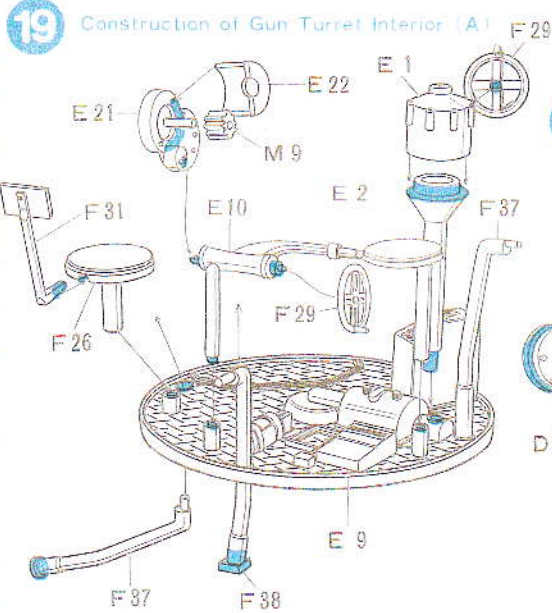
17 Construction of Gun Barrel and Breech (A)



18 Construction of Gun Barrel and Breech (B)



19 Construction of Gun Turret Interior (A)



20 Construction of Gun Turret (B)

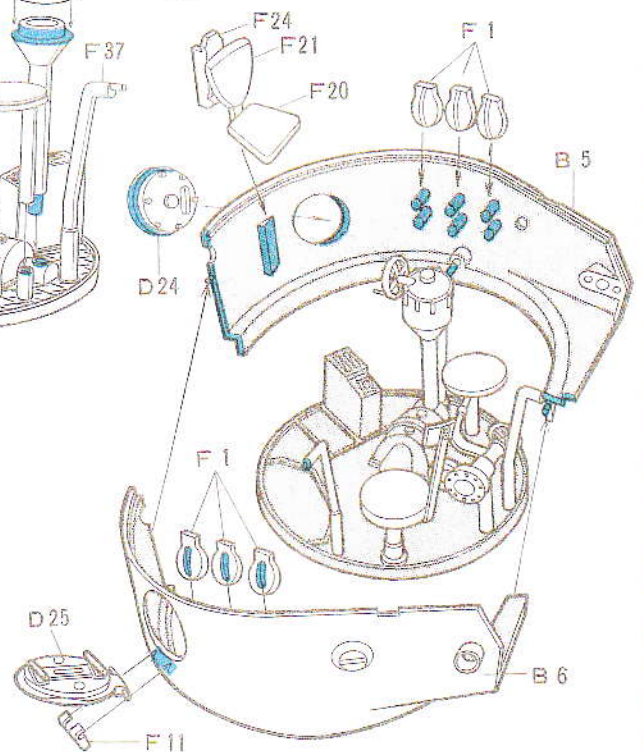


Fig. 21 Construction of Smoke Discharge Hatch

Smoke discharge comes in two pairs.
★ Paint smoke discharge interior in black.

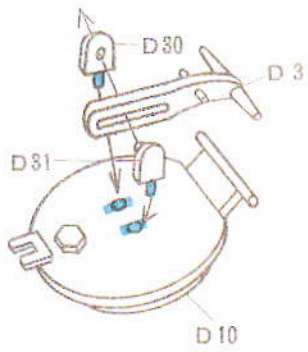
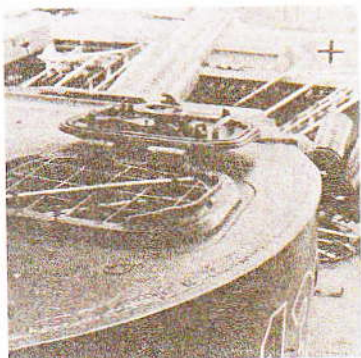


Fig. 22 Construction of Upper Gun Turret

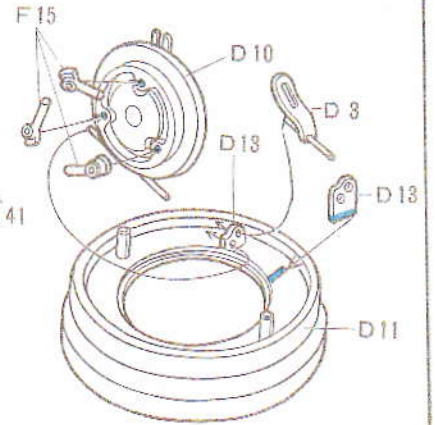
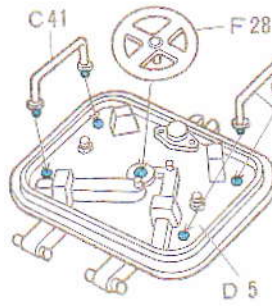
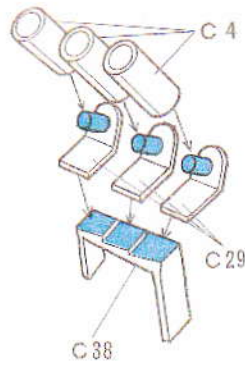
Commander hatch construction.

Carefully distinguish between movable parts and fixed parts in construction so that no glue strays onto movable parts.

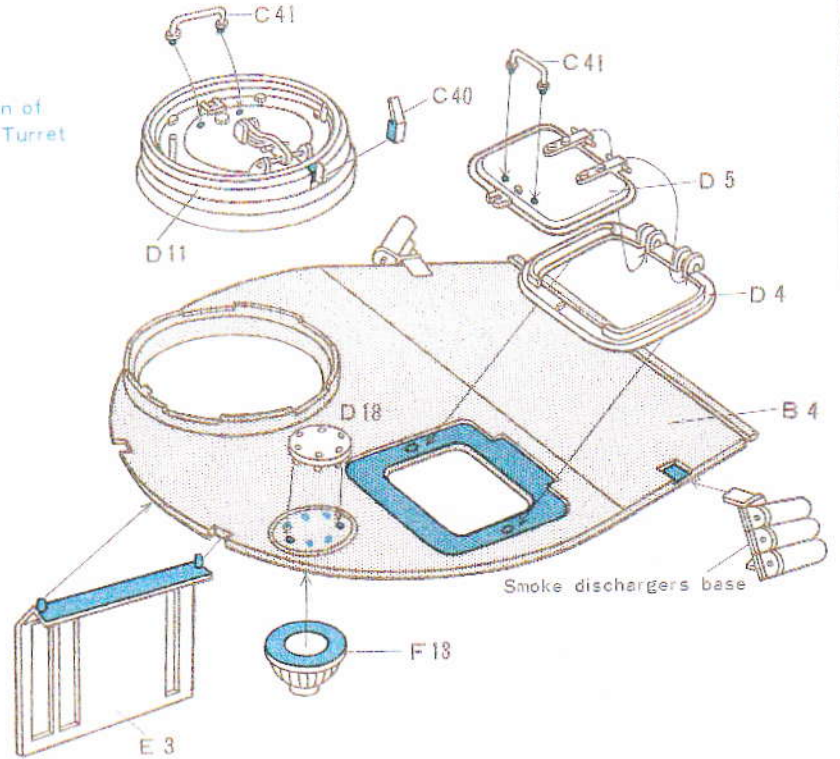
Fig. 23 Construction of Gun Turret
Do not glue box consisting of C27 and C28. It should be detachable from turret.



21 Construction of Smoke Discharge Hatch



22 Construction of Upper Gun Turret



23 Construction of Gun Turret

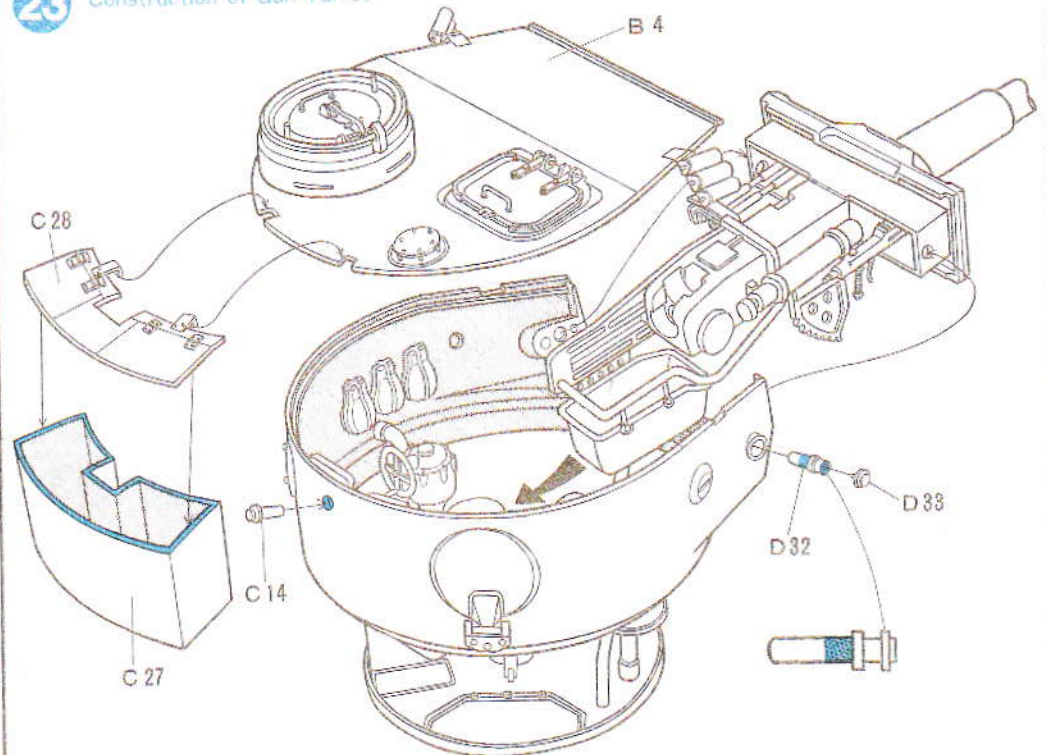
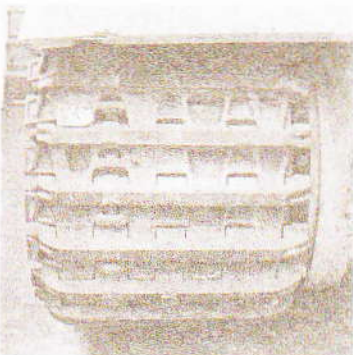
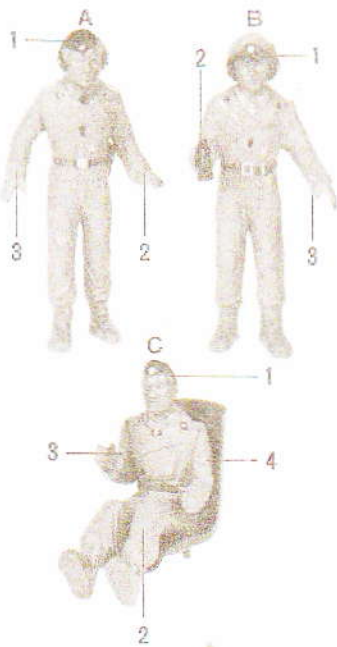
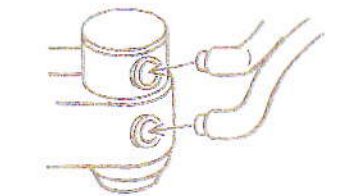


Fig. 24 - Construction of Track
 Holding track link part as shown, slip in a link piece at one end of pin and bend the piece hard enough to fix the other end of pin to the track link part.

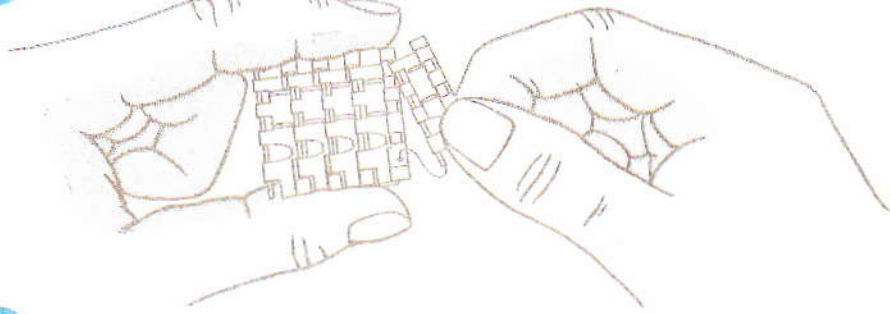
A total of 72 links (assembled) will make one caterpillar. Make two sets one each for the left and right side.

Fixing of Track
 Refer to photo and built-up sketch. fix track carefully arranging its right side to engage sprocket wheel. Tension of track should be adjusted to a your preference by moving the abjuster (constructed in Figure 4) back and forth or by adding a link piece or vice versa.

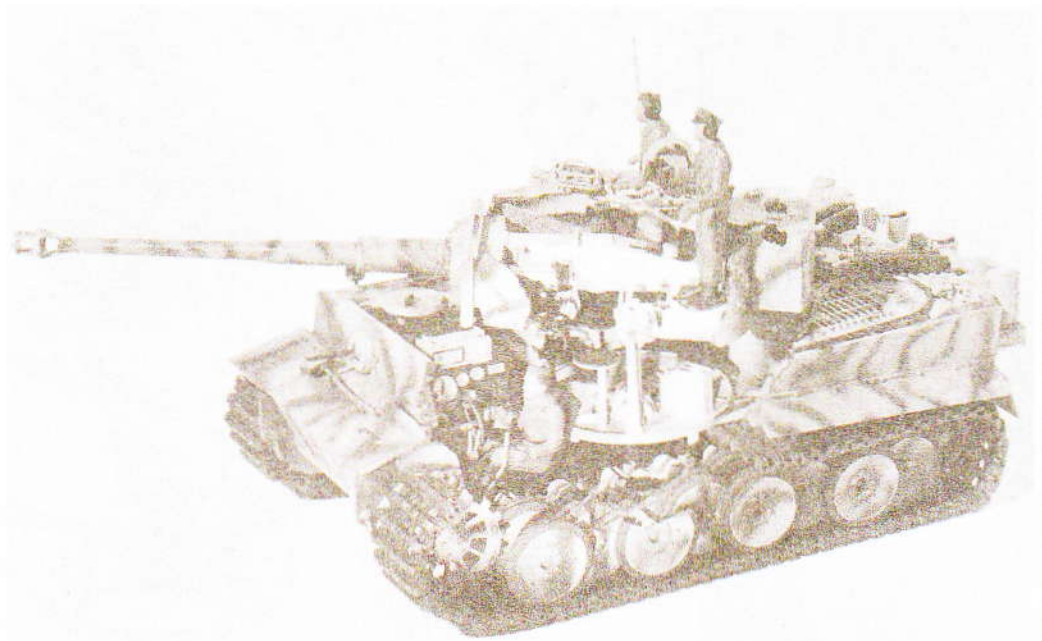
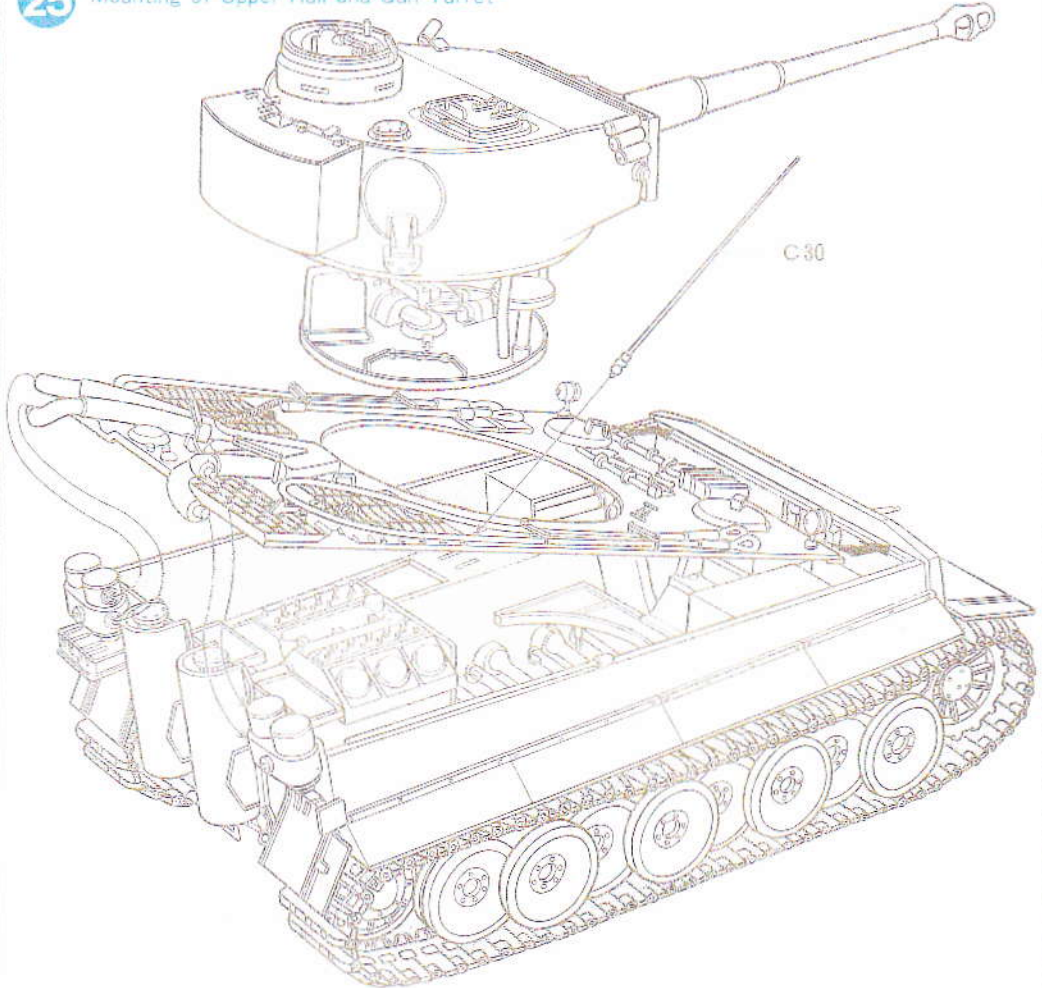
Fig 25 - Mounting of Upper Hull and Gun Turret
 Push four exhaust pipes (two on each side) into silencer C20, C21 and C22 and C23 respectively. This serves to hold upper hull securely in position. Do not apply glue, as upper hull must be detachable.



24 Construction of Caterpillar



25 Mounting of Upper Hull and Gun Turret



PARTS

B

- 1. MG34 base
- 2. Stopper
- 3. 100mm frontal armour
- 4. Upper turret panel
- 5. Turret side panel (left)
- 6. Turret side panel (right)
- 7. Rear panel

C

- 1. Tow Rope
- 2. Clamp
- 3. Blackout light
- 4. Smoke generator discharger
- 5. Shaft Stopper
- 6. Hook for tools (small)
- 7. Hook for tools (medium)
- 8. Hook for tools (large)
- 9. Stopper
- 10. Stopper
- 11. Driver vision slit protector
- 12. Towing shackle
- 13. Black light lense
- 14. Turret part
- 15. Handle
- 16. Crow Bar
- 17. Engine stay
- 18. Shovel
- 19. Wire Rope Stopper
- 20. Air cleaner (L.O)
- 21. Air cleaner (L.I)
- 22. Air cleaner (R.O)
- 23. Air cleaner (R.I)
- 24. Air Intake
- 25. Air cleaner's Cap c c c
- 26. Shovel
- 27. Box of Rear Turret
- 28. Box cover of Rear Turret
- 29. Smoke discharger base
- 30. Antenna
- 31. Sledge hammer
- 32. Hand crank
- 33. Axe
- 34. Periscope cover
- 35. Step
- 36. Fire extinguisher
- 37. Hardwood Block
- 38. Smoke discharger base support
- 39. Handrail
- 40. Stopper
- 41. Handrail

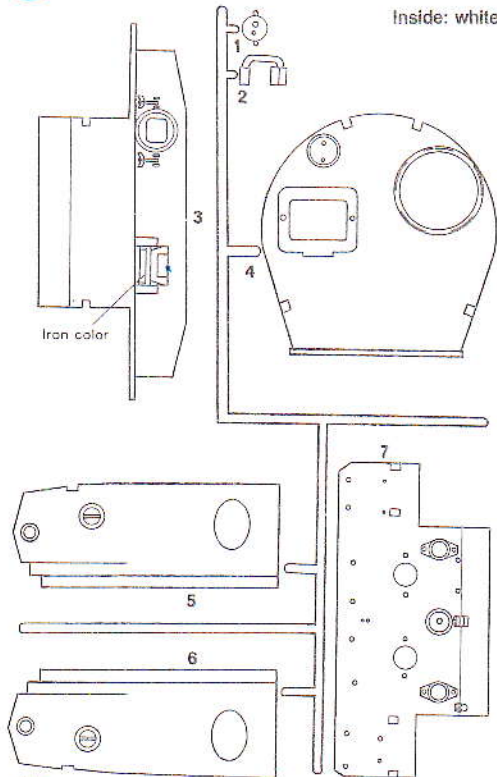
D

- 1. Exhaust pipe inside
- 2. Accessory of rear panel
- 3. Stopper
- 4. Loader's hatch
- 5. Loader's hatch cover
- 6. Stopper for spare track links
- 7. Cleaning rod
- 8. Cleaning rod
- 9. Muzzle brake
- 10. Commander's hatch cover
- 11. Cupola
- 12. Exhaust cover
- 13. Hinge
- 15. Air cleaner, outside
- 16. Clamp
- 17. Cover
- 18. Dry battery support
- 19. Manifold
- 20. Rear fender (left)
- 21. Rear fender (right)
- 22. 88mm gun shield
- 23. 88mm gun barrel halves
- 24. Revolver port
- 25. Escape hatch
- 26. Radio operators hatch cover
- 27. Driver's hatch cover
- 28. Extractor fan cover
- 29. 88mm gun barrel
- 30. Hinge
- 31. Hinge
- 32. Turret gun elevator cylinder shaft
- 33. Elevator cylinder shaft cap

E

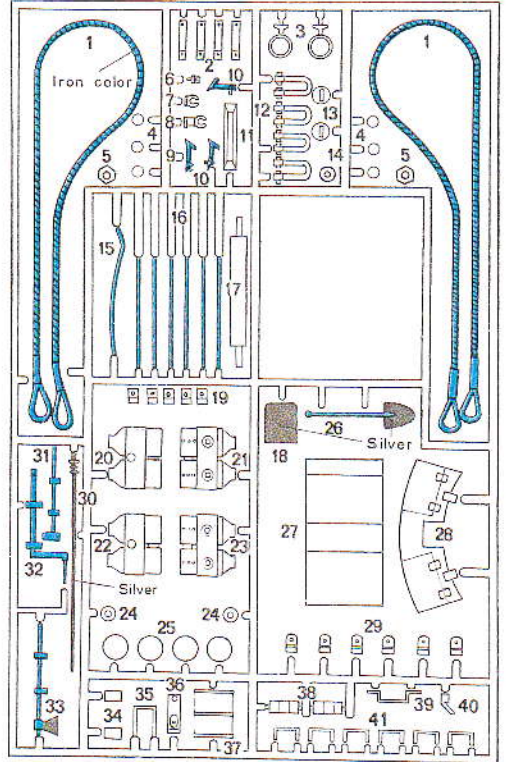
- 1. Upper traverse gear box
- 2. Lower traverse gear box
- 3. Commander's shield
- 20. Front shaft cover
- 19. Turret platform with gearbox
- 4. Steering wheel shaft
- 5. Wire cutter
- 6. Breech half (right)
- 7. Breech half (left)
- 8. Platform
- 9. Turret platform
- 18. Bulkhead
- 15. Radio mechanism
- 16. Radio mechanism
- 17. Radio mechanism
- 22. Elevating gear case cover
- 10. Gunner's seat
- 21. Elevating gear case
- 11. Air cleaner pipe
- 12. Air cleaner pipe
- 13. Air cleaner pipe
- 14. Air cleaner pipe

B PARTS

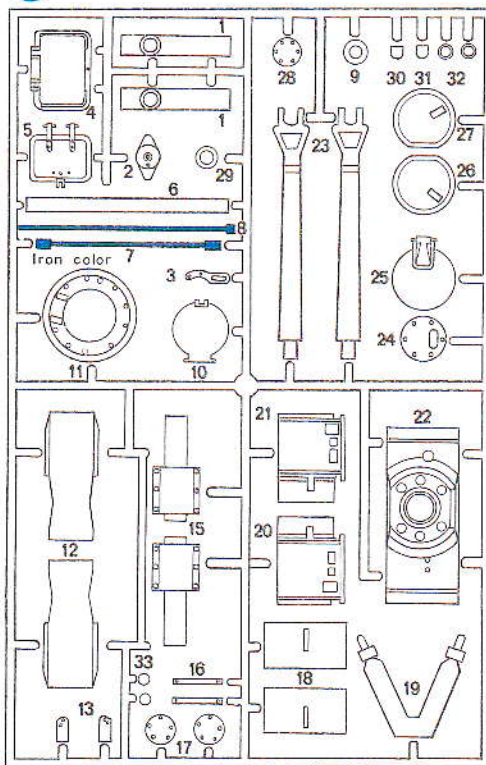


C PARTS

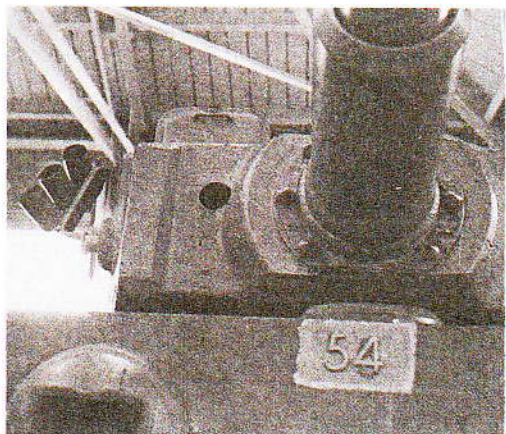
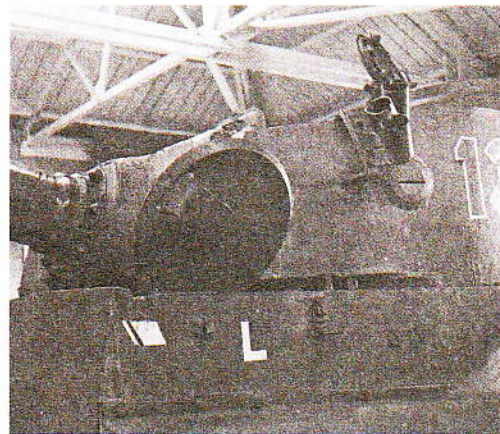
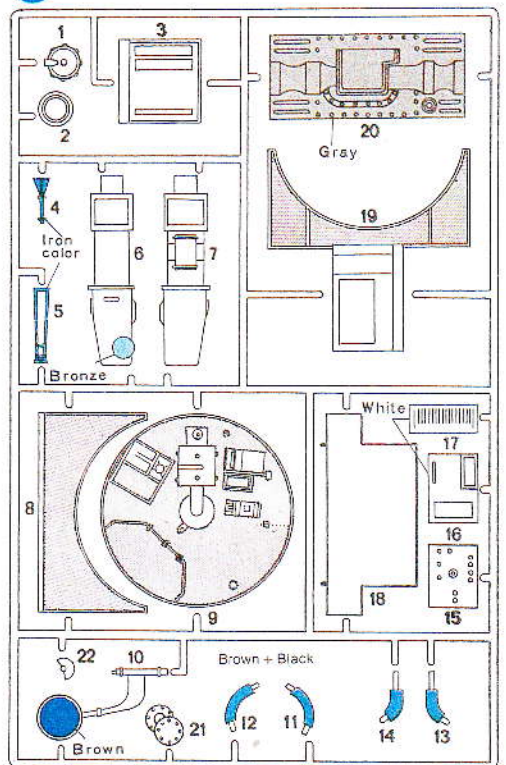
1 · 9 · 10 · 15 · 16 · 26
· 31 · 32 · 33 Iron color



D PARTS

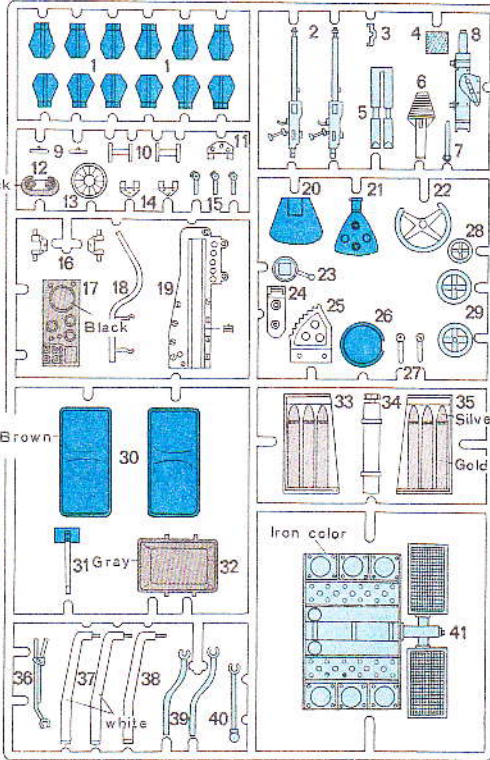


E PARTS

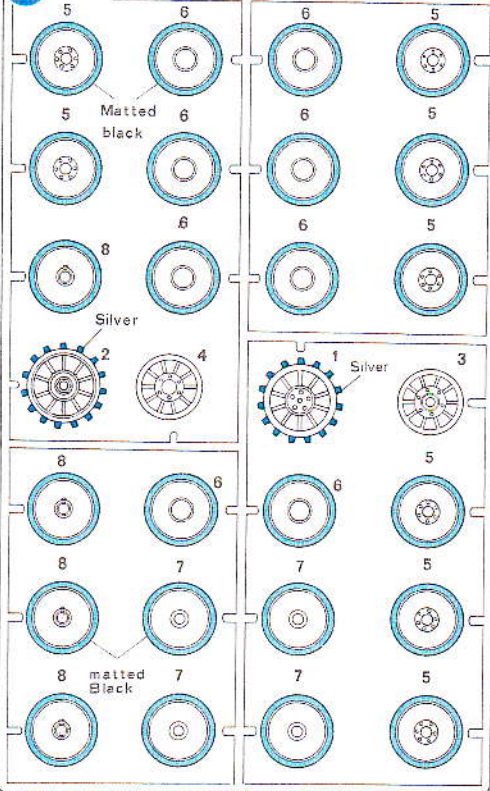


PARTS

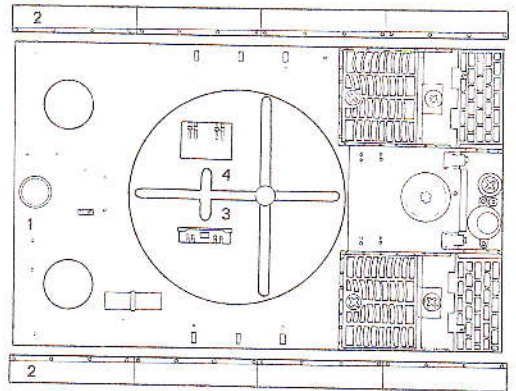
F PARTS



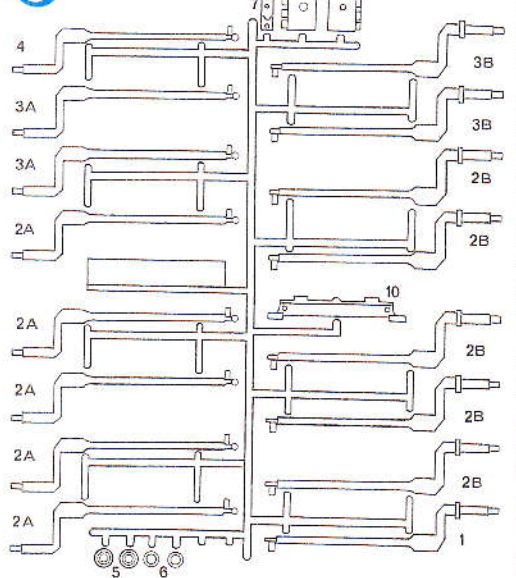
H PARTS



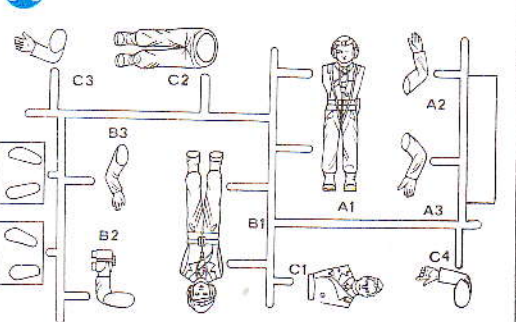
G PARTS



J PARTS



A PARTS



F

1. MG ammunition magazine
2. MG
3. Accessory, telescope
4. Accessory, jack (A)
5. Binocular telescope
6. Wheel cap fixing part
7. Accessory, jack (B)
8. Jack
9. Accessory, escape hatch
10. Hatch cover arm
11. Escape hatch cover hinge
12. Sight base
13. Extractor fan
14. Hatch cover hinge (A)
15. Accessory, commander hatch cover hinge
16. Hatch cover hinge (B)
17. Instrument panel
18. Breech mechanism (A)
19. Breech mechanism (B)
20. Commander's seat
21. Commander's back seat
22. Steering wheel
23. Control lever
24. Commander's seat support
25. Rack
26. Gunner's seat
27. Driver's hatch part
28. Hatch cover hand wheel
29. Elevating handwheel and traverse handwheel
30. Seat
31. Gunner's back rest
32. Canvas sack
33. Ammunition with rack
34. Breech mechanism (C)
35. Ammunition with rack
36. Hand brake
37. Turret platform support (A)
38. Turret platform support (B)
39. Emergency steering levers
40. Direction control lever
41. Upper engine

G

1. Upper hull plate
2. Upper hull plate side
3. Side panel, tool box
4. Tool box

H

1. Sprocket wheel
2. Sprocket wheel
3. Front road wheel
4. Front road wheel
5. Road wheel
6. Road wheel
7. Road wheel
8. Road wheel

J

1. Torsion bar suspension
2. Torsion bar suspension
3. Torsion bar suspension
4. Torsion bar suspension
5. Bushing (unnecessary)
6. Joint (unnecessary)
7. (unnecessary)
8. (unnecessary)
9. (unnecessary)
10. Adjuster

A

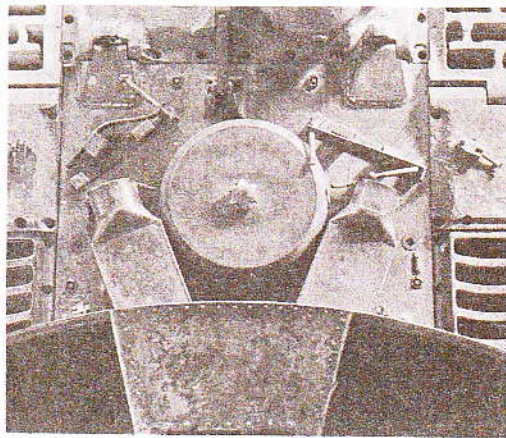
- A1. Loader
- A2. Loader's right hand
- A3. Gunner's left hand
- B1. Commander
- B2. Commander's left hand
- B3. Commander's right hand
- C1. Driver's upper half
- C2. Driver's lower half
- C3. Driver's left hand
- C4. Driver's right hand

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The latest in cars, boats, tanks and ships. Motorized, radio controlled and museum quality models are all shown in full color in Tamiya's latest catalogue. At your nearest hobby supply house.

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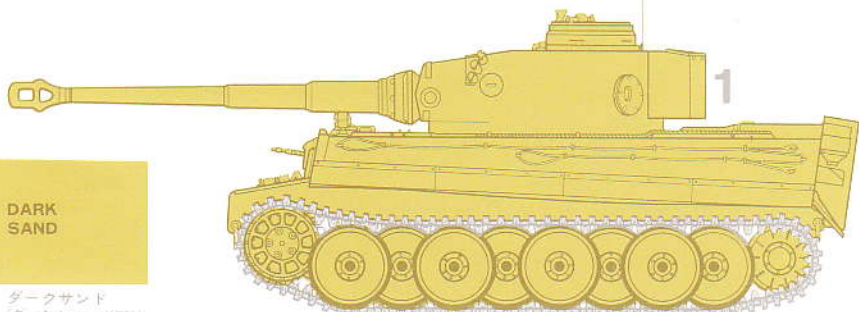
Tamiya has a fine line of photo albums that will help you in the super detailing of your tank models or diorama construction. See them at your nearest Tamiya supply house, or order direct from the factory.



TIGER I

GERMAN PANZERKAMPFWAGEN VI
TIGER I (SD.KFZ.181) AUSFUEHRUNG

ドイツ陸軍重戦車タイガーI型 塗装参考表

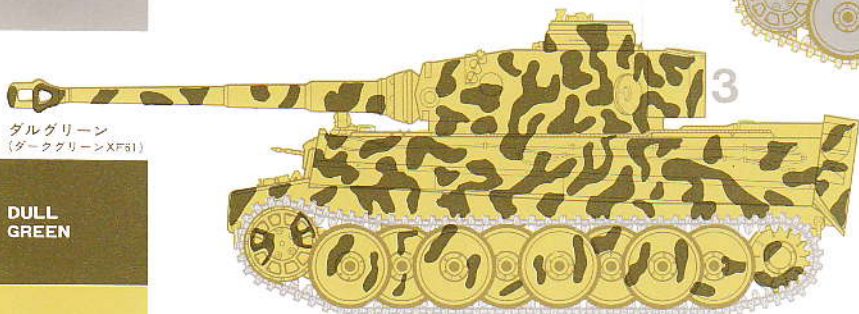
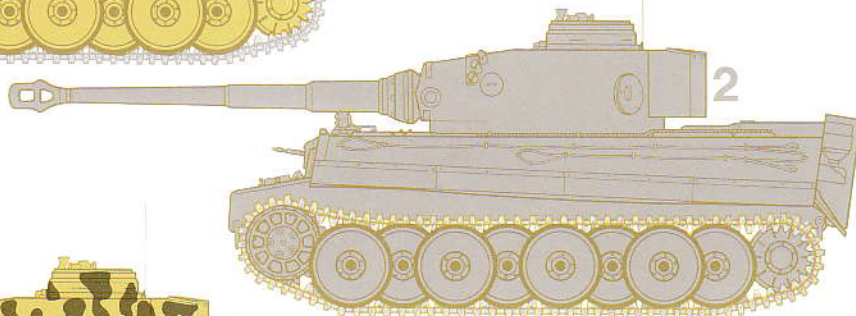


DARK
SAND

ダークサンド
(タークイエローXF62)

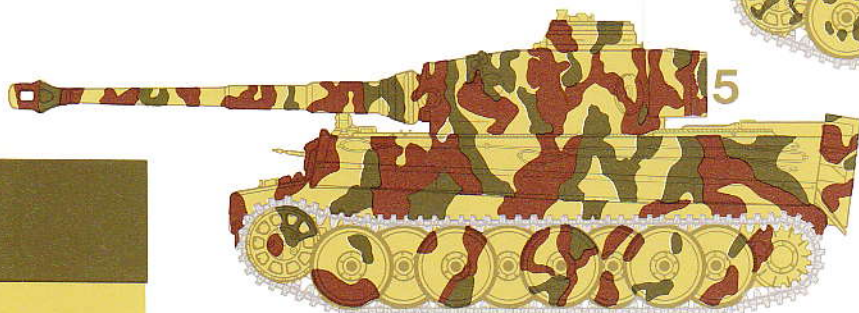
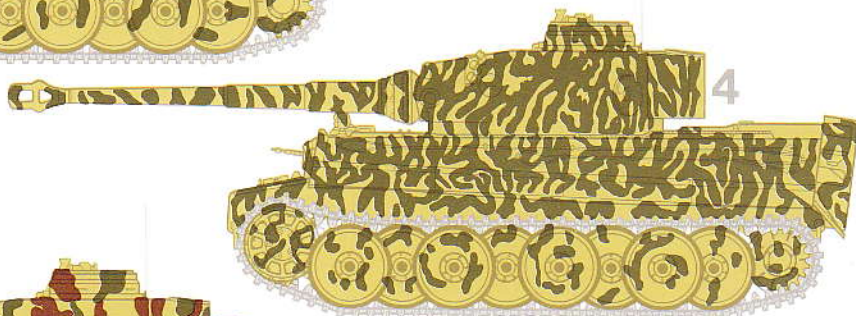
パンツァーグレイ
(ジョーマンクレイXF63)

PANZER
GREY



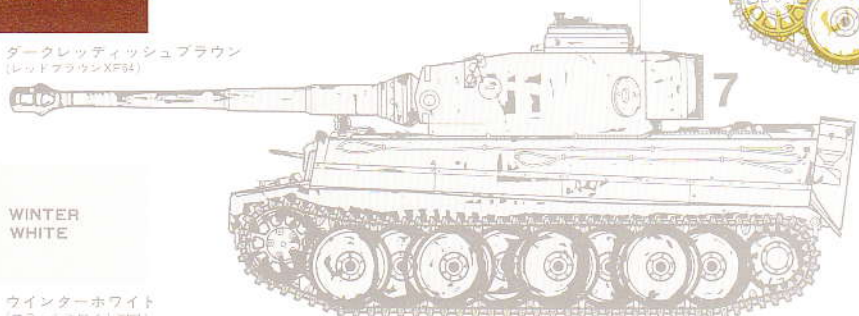
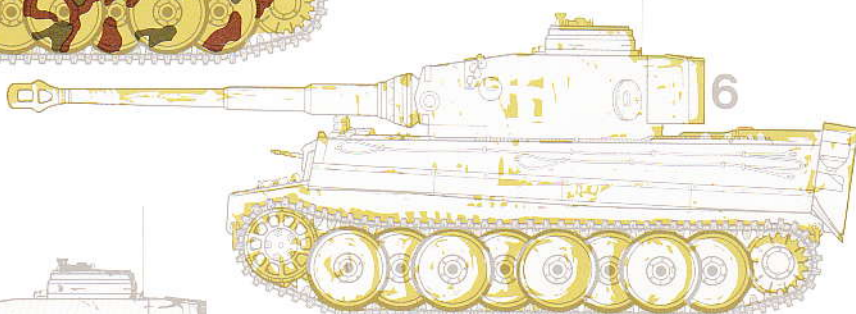
ダルクグリーン
(ダークグリーンXF61)

DULL
GREEN



DARK
REDDISH
BROWN

ダークレディッシュブラウン
(レッドブラウンXF64)



WINTER
WHITE

ウインターホワイト
(フラットホワイトXF65)

★ ★ TAMIYA