

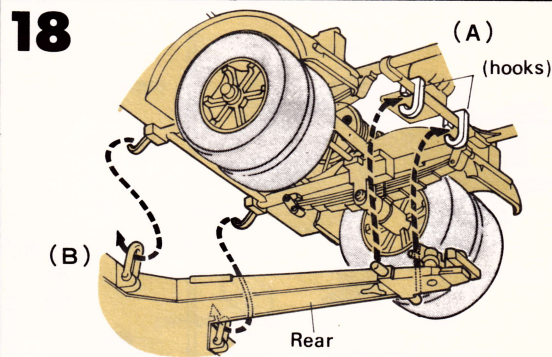
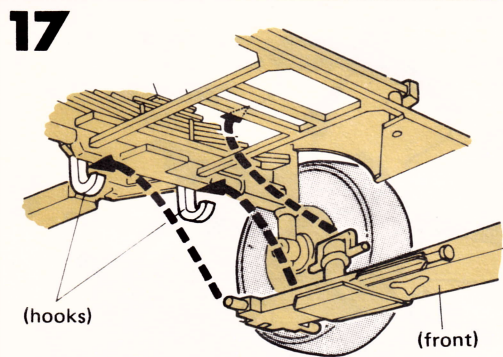
- Now set the Load-Wheels together with 88mm Flak Gun, when you set-up it in driving use.

Picture 17.
[Attaching Load-Wheels (Front)]

- Get the Leg's head in the hooks at the bottom of front wheels.

Picture 18.
[Attaching Load-Wheels (Rear)]

- Get the Leg's tail in the hooks at the bottom of rear wheels.



- Set (A) and (B) the next.

EMBLEMS

(For African Front)

- The German Army in Africa, commanded by General Rommel

(Divisions)

- 3rd Tank Division
- 15th Tank Division
- 21st Tank Division

(For European Front)

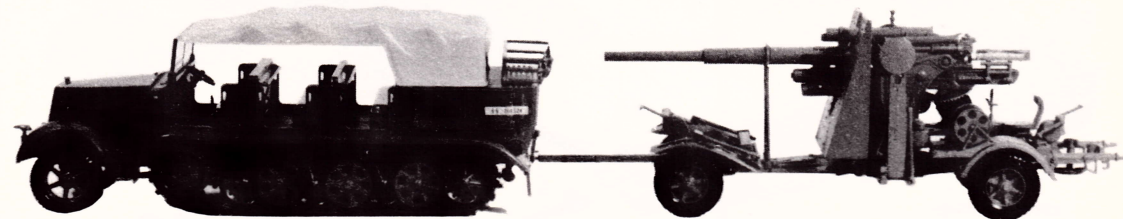
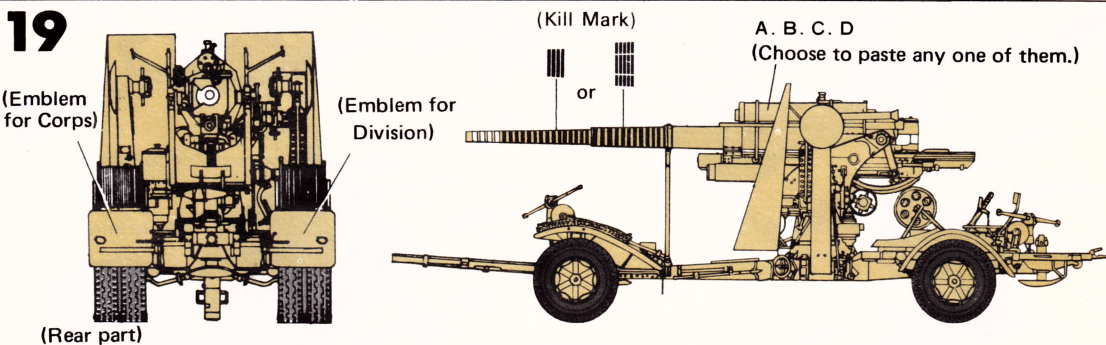
- The German Tank Corps commanded by General Guderian
- The German Tank Corps commanded by General Kreist

(Divisions)

- 1st SS Armored Division
- 3rd SS Armored Division
- 3rd Tank Division
- GD (Gross Deutschland) (Howitzer-Tank Division)

(For Carriages)

- Anti-tank Gun Carriers Troup



- This 88mm Anti-aircraft Gun can be attached to the 8 tons trailer in scale of 1/48.

German 88mm FLAK GUN

1/48 SCALE · WW II GERMAN PANZERTRUPPE SERIES NO.15

- This is an accurate 1/48 scale model of the German 88mm Flak Gun.
- This is the first mini model series that has detailed interior with engine cockpit.
- Complete instructions are enclosed for assembling the model kit. Also included is the historical summary on this vehicle.



PIN POINT SERIES

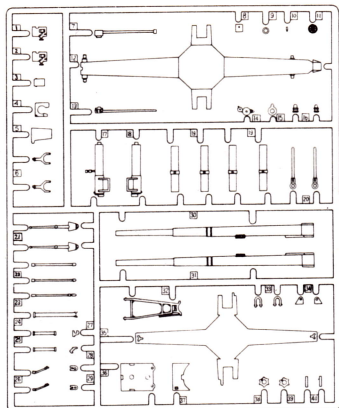


BANDAI CO., LTD.

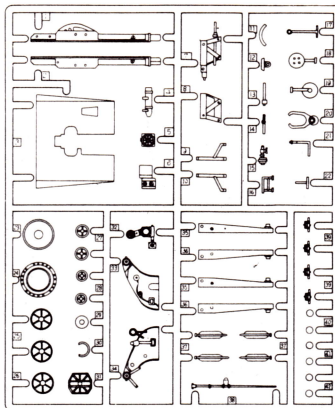
5-4 Komagata 2 chome
Daitoku, TOKYO, JAPAN

PRINTED IN JAPAN.

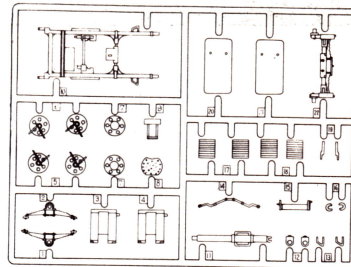
Parts A



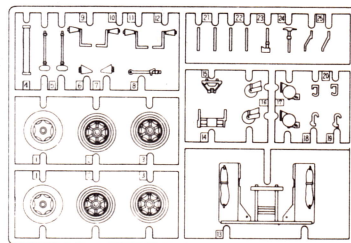
Parts B



Parts C



Parts D



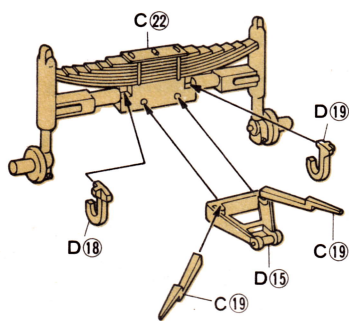
- After taking the contents out, tear and throw the empty plastic bags away, so that little children may not play with.
- Start to assemble after reading the explanation carefully.
- Use your tweezers to pick up tiny parts and accessories.

- Artillery soldiers
- 88mm Gun shells

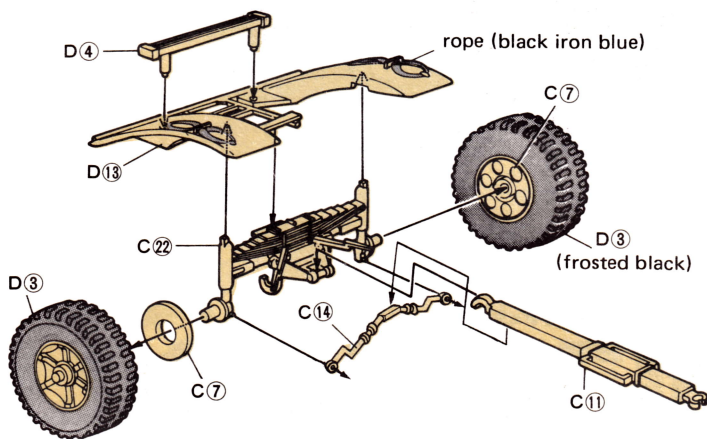
Picture 1.

[Set-up of LOAD-WHEELS (front)]

- Set-up the front part of load wheels. D 18 and D 19 are to be fixed firmly.
- Paint tires with frosted black.

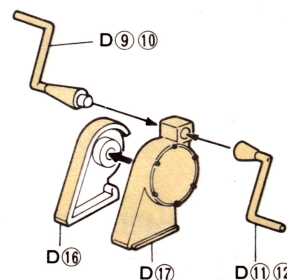


1



[Set-up of Winches]

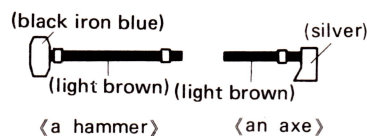
* 2 sets



Picture 2.

[Assembly of its accessories]

- Fix winches and tools at the fender.
- Another tools are painted as like as the above.

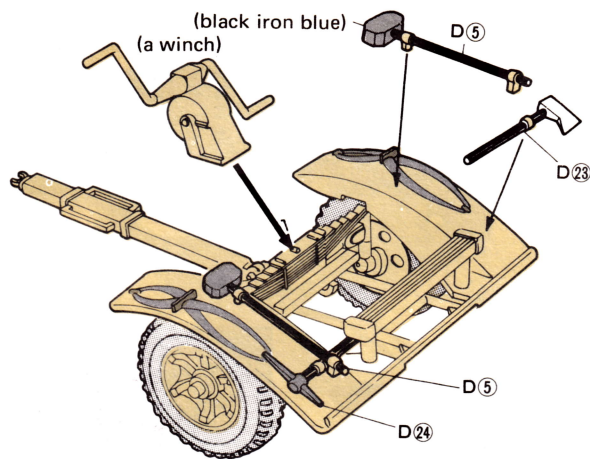


Picture 3.

[Set-up of LOAD-WHEEL (rear)]

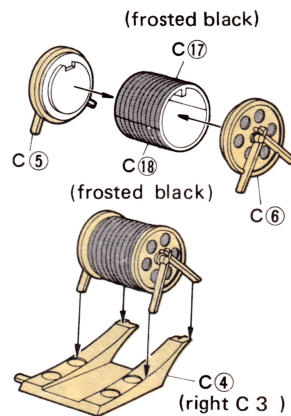
- Fix each accessories at C 10.
- D 20 is to be fixed firmly.

2



4

- Make 2 sets of reels.

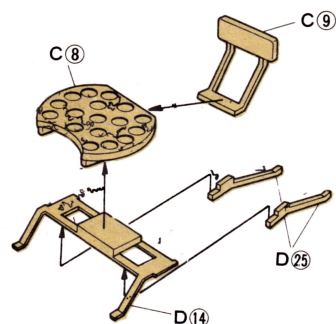


Picture 4.

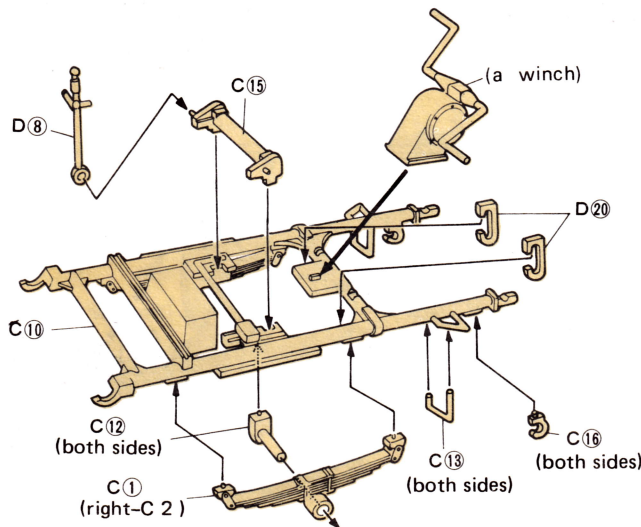
[Assembly of its fenders]

- After set up of reels, fix them and their accessories at C 20 and C 21.

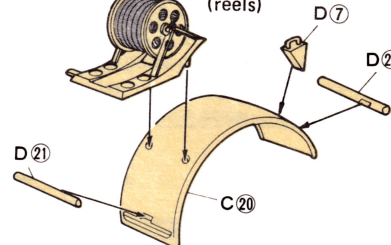
[Set-up of seats on L.W.]



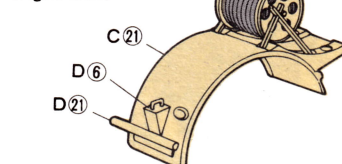
3



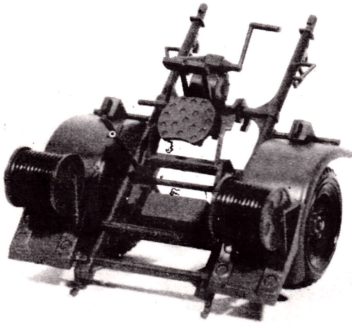
(left side)



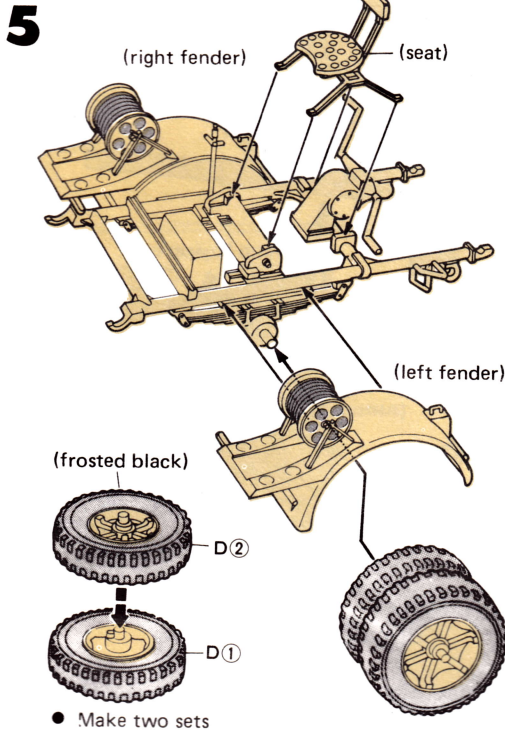
(right side)



Picture 5.
[Set-up of Wheels]

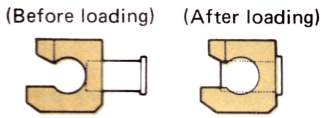


- Fix Wheel D 1 and D 2 together. Make two sets - right & left.
- Stick Fenders, Seat and Wheels at the right places as the picture shows.



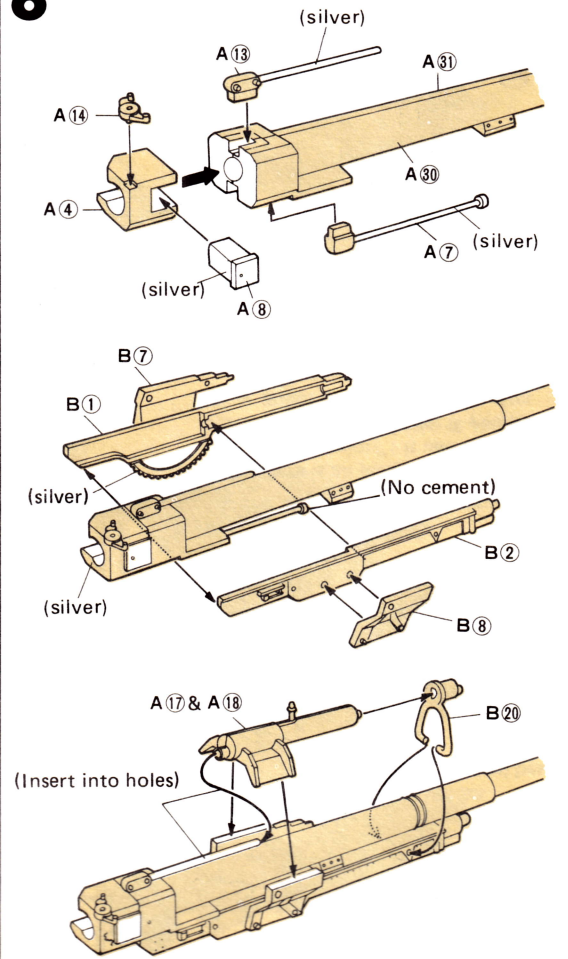
Picture 6.
[Set-up of Gun-Barrel]

- Stick A 8 in your preferable situation either before or after loading bullet.



- Set a Gun-Barrel to be sliding.
- Plane the joints of Gun-Barrel smoothly by knife.

6

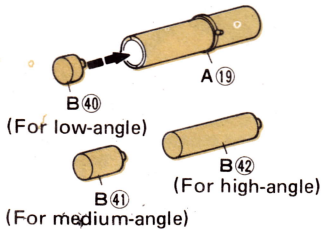


- Fixing left wheel is the same as the right.

Picture 7.
[Set-up of Barrel-Base]
[Set-up of Balance-Finder]

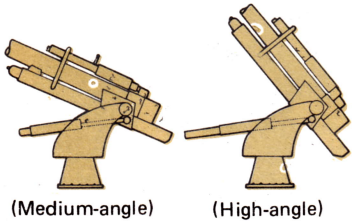
- You will find 3 kinds of B 40; for low angle, medium-angle and high angle. After choosing one of them, set to fix it on the right angle.

- Make 2 sets.



Picture 8.
[Set-up of Gun-Barrel]

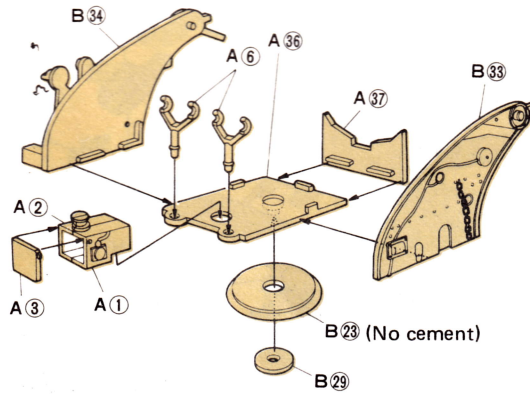
- Stick A 20 to set at the angle indicated by the Balance-Finder.



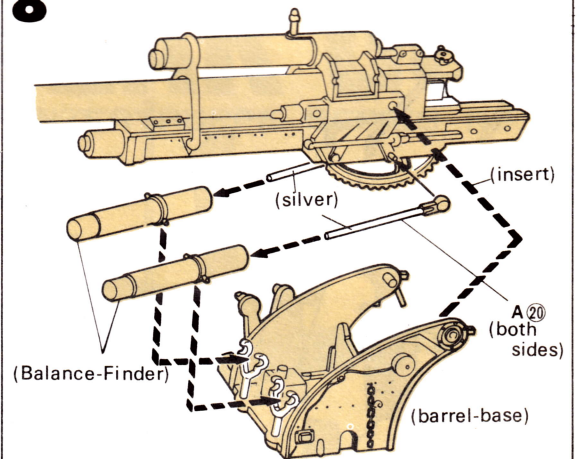
Picture 9.
[Set-up of Barrel-Base Parts]

- If you take shooting situation, stick B 16 after cut off a part of it. In that case, do not use B 4.

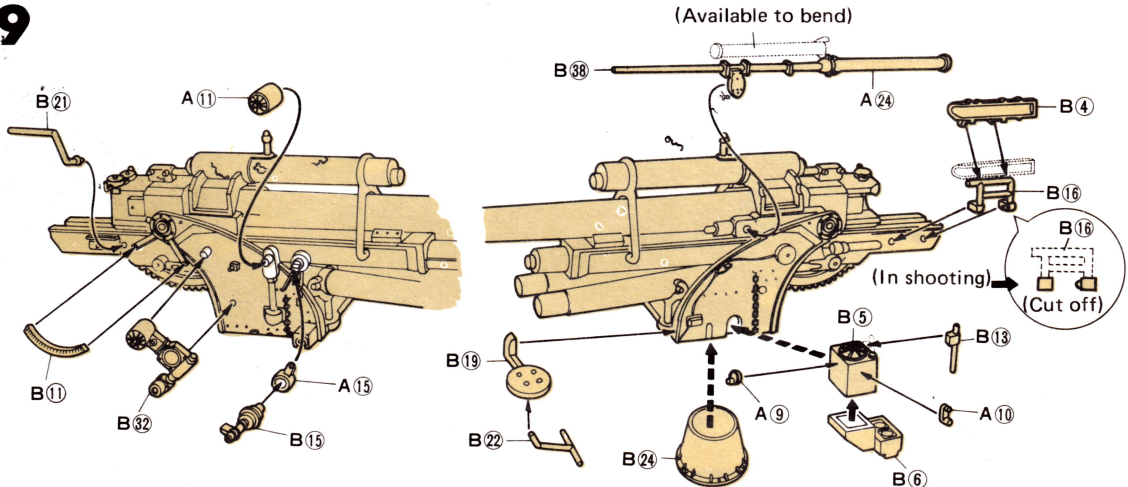
7



8



9

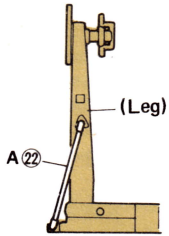


Picture 10.
[Assembly of Burrel-Base Parts]

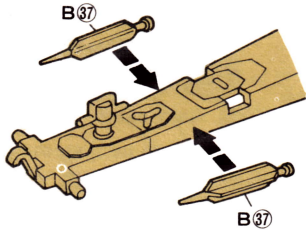
Picture 11.
[Set-up of Legs]

Picture 12.
[Set-up of Gun-Seat]

- Holding the legs between A 12 and A 35, stick them together and attach each accessory to A 12.
- Referred to the picture below, fix A 22 at the Legs when they are bent.



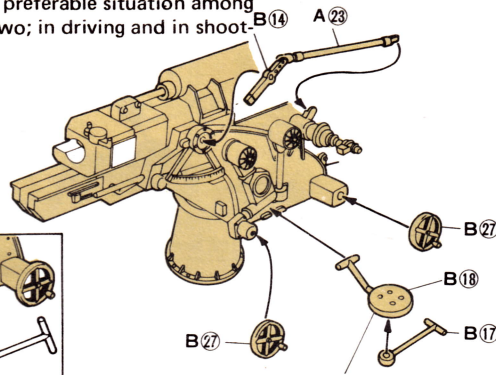
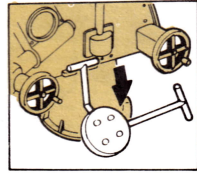
- In driving, B 37 is to be attached at the place indicated below.



Picture 13.
[Set-up of Shield]

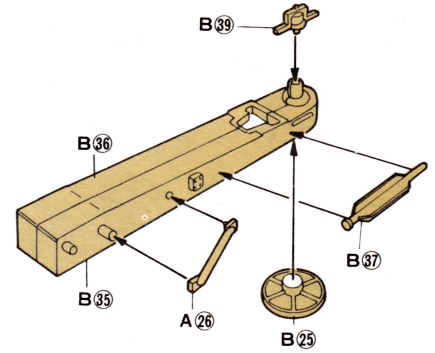
- 10** ■ Set the parts of seat matched to your preferable situation among the two; in driving and in shooting.

(In driving)

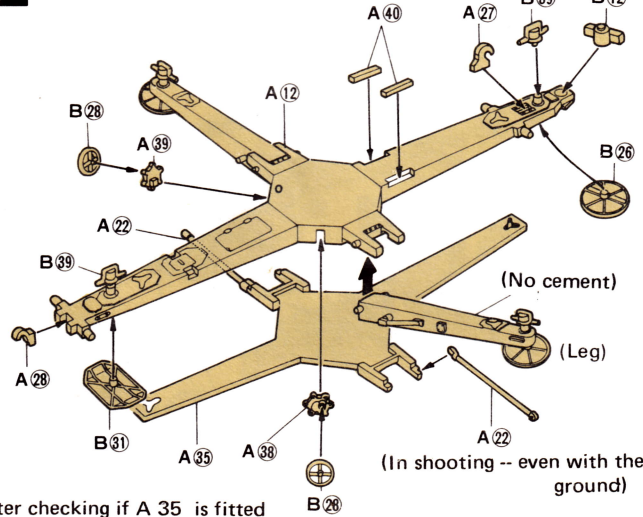


(Set even with ground in shooting.)

- 11** ■ In shooting, do not use B 37 .
■ Make 2 sets.



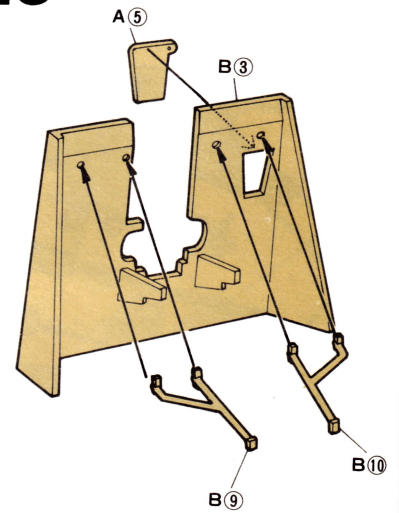
12



(In shooting -- even with the ground)

After checking if A 35 is fitted to A 12, stick them together.

13



Picture 14.
[Fixing Barrel-Base]

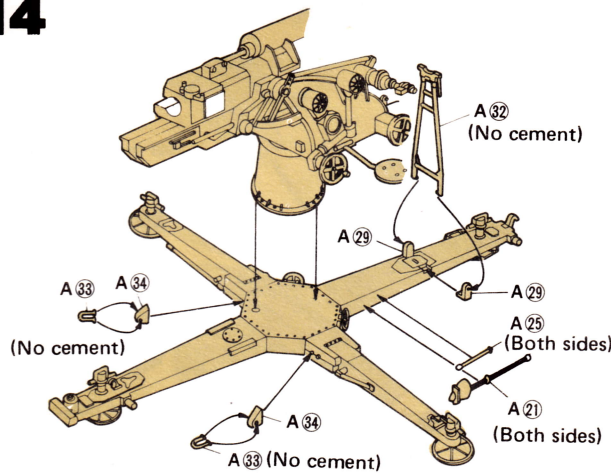
- Attach each accessory to the Gun-Seat and fix Barrel-Base on it.

Picture 15.
[Set-up of Shield]

Picture 16.
[Completion]

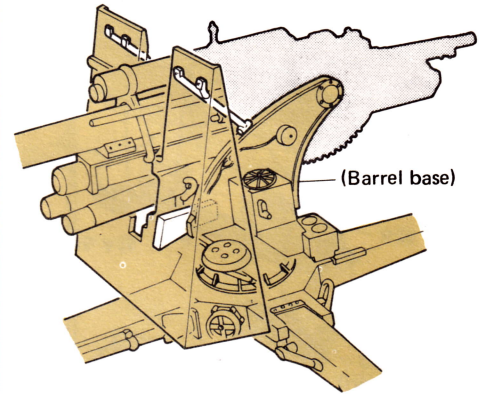
- When Gun-Seat is set on the ground, fix B 37 in the hole as shown below.

14



15

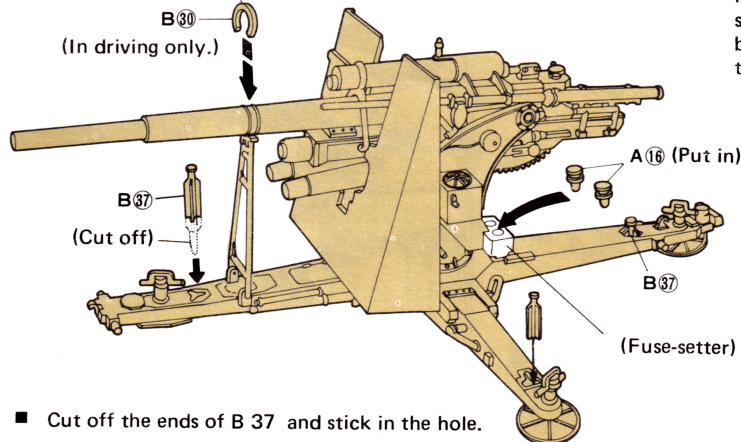
- Stick shield on barrel base. (There were some Guns having no shield.)



16

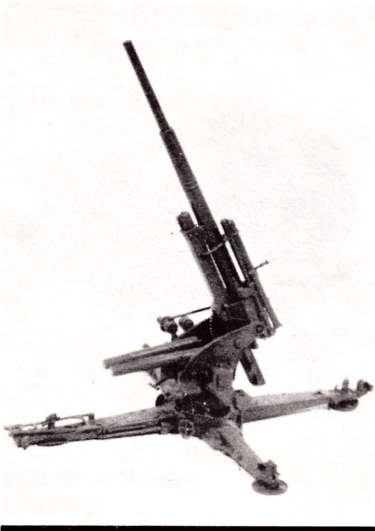
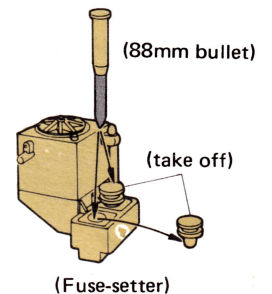
(Do not use in shooting.)

(In driving only.)



- Cut off the ends of B 37 and stick in the hole.

- Here is an idea on making "fighting situation": it will show about setting time of fire, if you put the bullet in the fuse-setter, after taking off its cover.

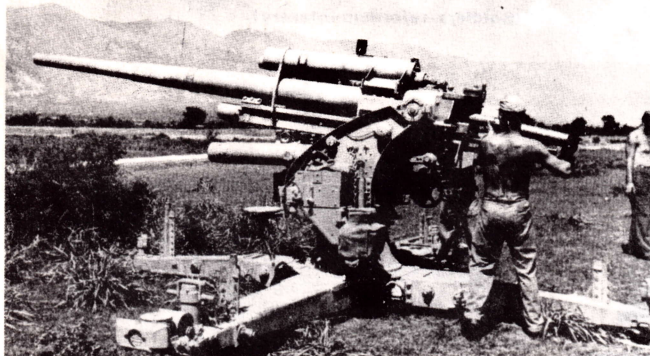


88mm FLAK GUN (Anti-aircraft Gun)

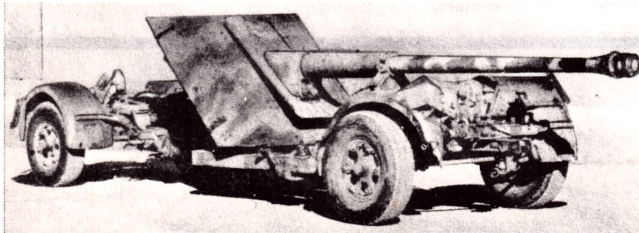
This German 88mm Anti-aircraft Gun was quite famous enough having the best ability in the world. The newly development of German arms had been limited by the Versailles Treaty, however, Krupp GmbH was trying to get the blue print of the 88mm-caliber gun, along with producing other small caliber guns. And, crazy Hitler got his administrative power, their efforts had been already reached to the goal line of its production. During 1936 to 1937, German Army and Air Forces had been dispatched to help Franco Troups in Spanish Civil War. There, this new weapon was tested its ability. This 88mm gun, by the name of FLAK 88, showed its tremendous power toward the sky and also on the ground too. Up to this stage, the gun being originately produced for anti-aircraft was very effective in concentrative fires by its cross-wise gun-floor, but it also displayed its enormous power toward the enemies on the ground although it had not been equipped with a tank-sight. During the battles in Poland and France, at the beginning of the "Lightning Operation", there were few cases that this gun displayed its usefulness for anti-tank action. It proved itself really capable of attacking British tanks at Killenaica, North Africa. It crushed British tanks before they reached to their shooting range, by taking the best possible advantage of its long gun barrel, paralleled to the ground, where was

no obstacle there at sight. Thus, it became really menace to the Allied Forces, as a tank killer which could destroy any of their tanks with a single fire. The PAK-43, remodeled this 88mm Gun as a tank attacker, was in similar shape to the anti-aircraft gun's barrel, mounted on four legs gun floor. It was on the four wheeled carrier, on which shooting could be possible in case of emergency. At the beginning, this 88mm gun had been used as the FLAK-18. On its mechanic structure, measurements of firing angle and that of burst-out timing were transmitted by electricity from a computing machine to a meter board, by which the operator turned the handle to set the target. After its several reformations, the FLAK-36 made its appearance being mounted on its new trailer. All the types since 1940, had equipped shields to protect crews. On the later stages, the FLAK-37 appeared having equipped with its new transmission, then the 41st type on the last stage. Thus, the 88mm guns were applied for anti-aircraft and also anti-tank in the East and Western Front. The famous tank, "Tiger 1" equipped KWK-36, the anti-aircraft gun, displayed its tremendous power on its fire, besides its figure as of a tank. It could shoot 15 to 20 discharges per minutes. Its weight was 7.9 tons with carrier and 5.5 tons without of it. Mostly, it driven by 8 tons trailer. The number of crew was 8 and 10 including its trailer's personnels.

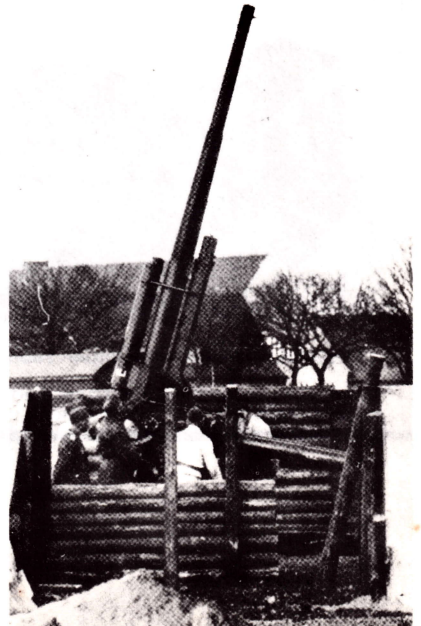
88mm Gun, attacking tanks on the ground



88mm Gun, originally developed as for Anti-Tank.



A gallant figure of 88mm Gun



[One Point DIORAMA]

Don't you think that DIORAMA should be made in large scale, otherwise its effect is reduced? It is true that larger the scale is better effect added. But, at the same time, you should pay much for materials and make many kinds of models for it. Here, we suggest you to make "ONE POINT DIORAMA", that is to make compact in Diorama. By this way, we have no problem mentioned the above, we can get much more series and we can get much more fun for it. The right photos are for your reference. These Dioramas are the same size of 20cm x 20cm. And their ground are made of oil clay on plywood.

Photo 1 shows a scene of German Army in Africa. Atmosphere in Africa is brought by palm trees and oasis. Sand used for Railroad Series are applied for desert this time, but you can use painted sand and lime for it.

Photo 2 shows a scene of 88mm gun being ready to fire. Use suitable types of soldiers matched to the scene, and reform them if they are not matched.

Photo 3 shows marching German soldiers. The soldiers were reformed, wooden fences were made by runner and runner were also used as for wires by making thinner on flame of candle.

Photo 4 shows Oppelmaustier and German Ammunitions Station.

The said 4 examples show you that fine Diorama could be done even though they are not in large scale. You can get many kinds of soldiers, ammunitions, palm-trees and many others from our "Field-Work Accessories Series."

3

1 By the oasis

*Some of the materials for desert are not to get from shops. In the case, you can use lime for instance, after painted with water color.



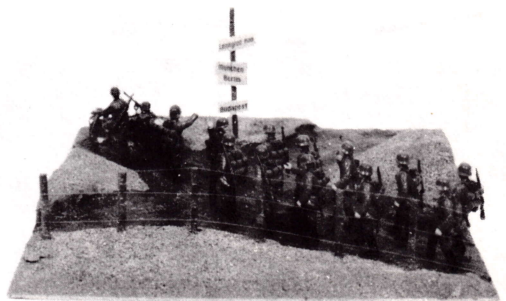
2 Ready to fire

*Turn the heads of soldiers toward the sky when they stand by an anti-aircraft gun.

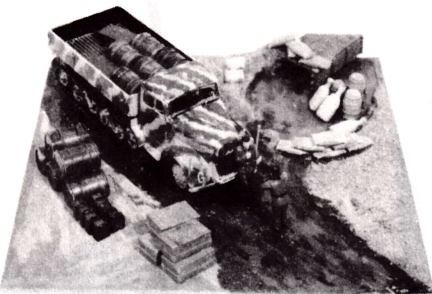


3 At the cross-road

(Soldiers--reformed infantry)



*It is a good idea to use reformed infantry soldiers.



4 Oppelmaustier and Ammunition Supply Station

*Drum cans and Ammunition boxes are from our another model kit of 'Ammunition'.



1/48 SCALE • BANDAI PLASTIC MODEL SOLDIER SERIES

GERMAN ARTILLERY

German 88mm FLAK GUN

BANDAI CO.,LTD.

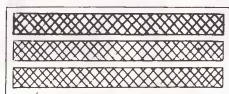
5-4 Komagata 2 chome
Daitoku • TOKYO • JAPAN

- ★ Referred to the diagram on the right, let's assemble ARTILLERY.
- ★ Attach each shell to artillery B, C and D.
- ★ You can stick their arms on any movement you prefer.
- ★ Paint them, referred to the "package."
- ★ Part A ⑤ is an optical telescope.

It was used to measure distance to attack target.



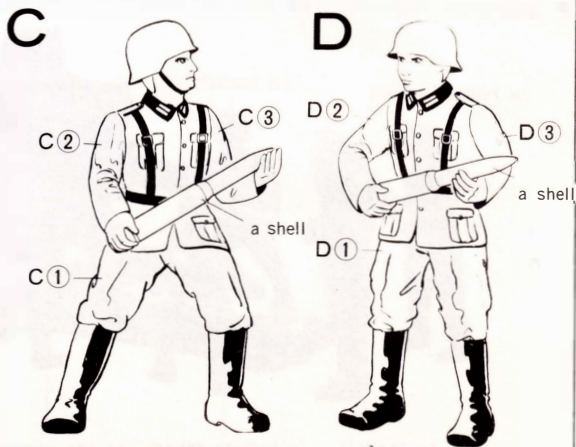
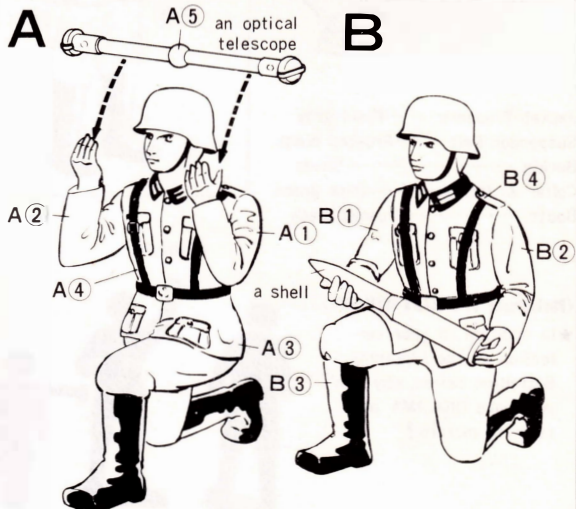
'88 shell



Sand Yellow.

88 shell case

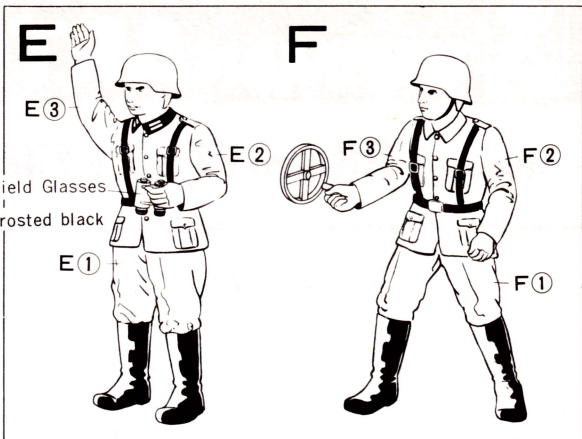
- ★ Shell case contains three shells.
- ★ It maybe also fun to change arm movements and some accessories.



◀ COSTUME OF NATIONAL DEFENSE SOLDIER ▶



Jacket. Trousers.....Field gray
 Suspender. Belt.....Frosted black.
 Buckle.Silver
 Collar & Jacket.....Dark green.
 Boots.....Frosted black



a leader

a loader

◀ Photography of DIOLAMA-ARTILLERY ▶

★ In addition to your collection of the Lightning Battalion series, why don't you make DIOLAMA and take its picture ?

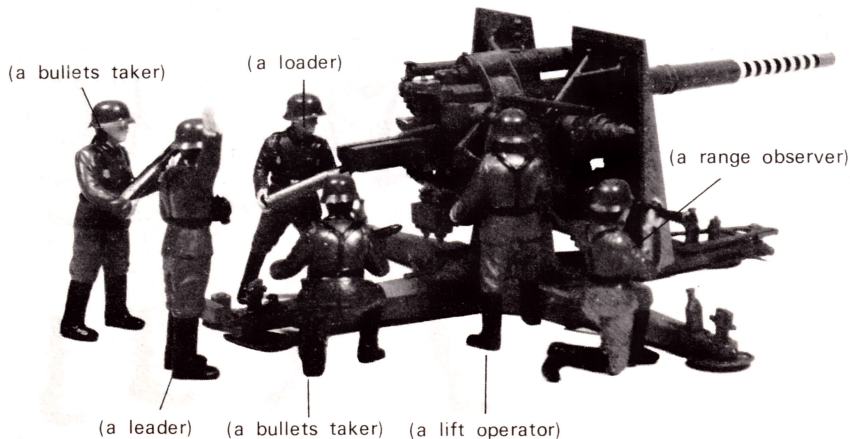


a lift operator

a range observer

a bullets taker

● Standard disposition of crew for 88mm FLAK GUN



(a bullets taker)

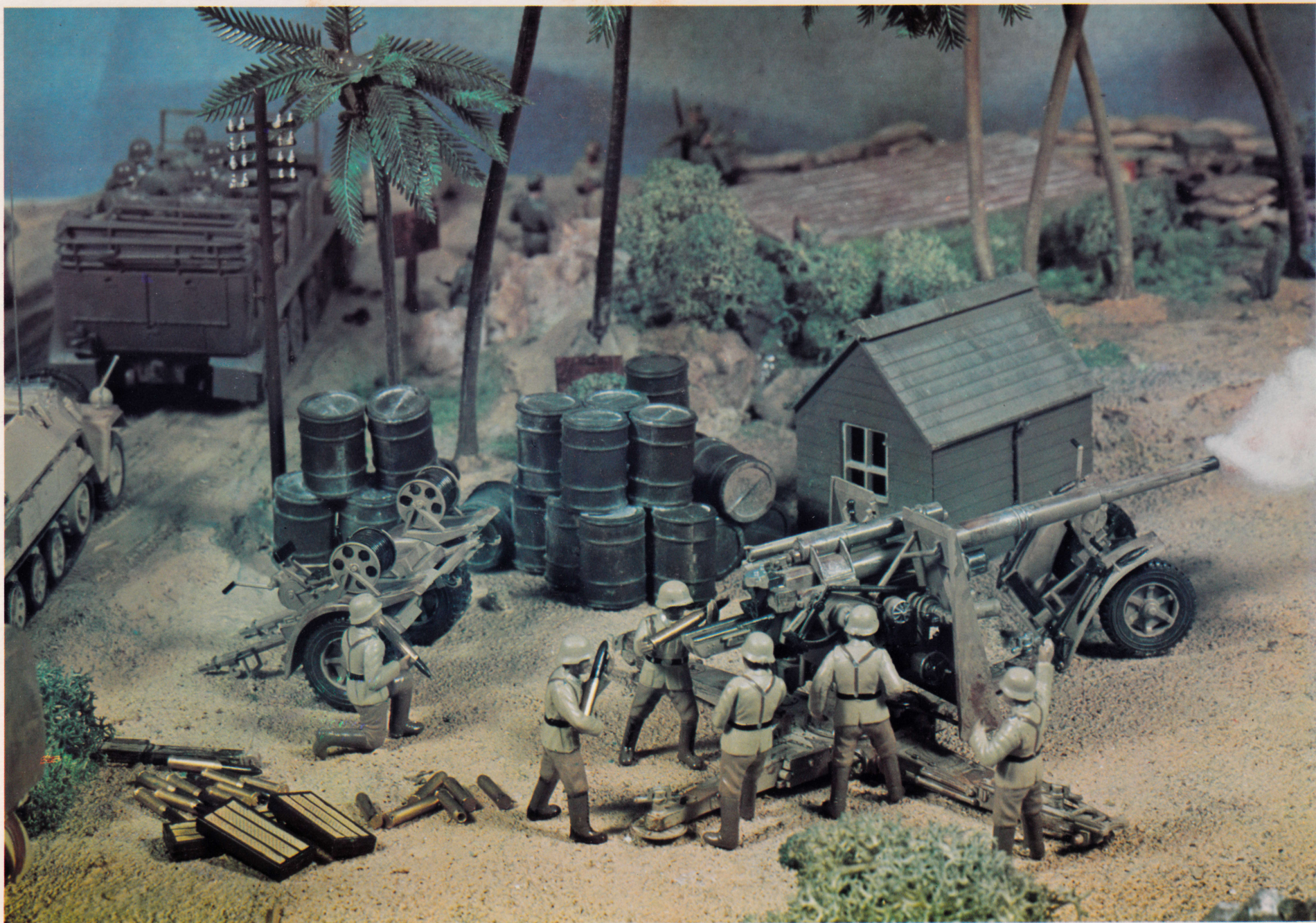
(a loader)

(a range observer)

(a leader)

(a bullets taker)

(a lift operator)





1/48 SCALE · WWII GERMAN PANZERTRUPPE SERIES No.15

German 88mm FLAK GUN



1/48精密電撃機甲師団シリーズ
ドイツ88mm高射砲

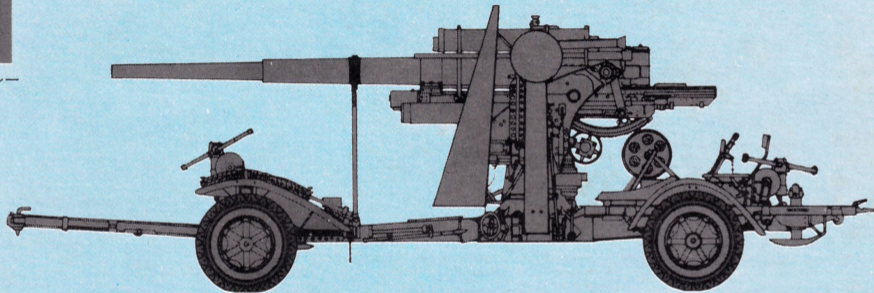
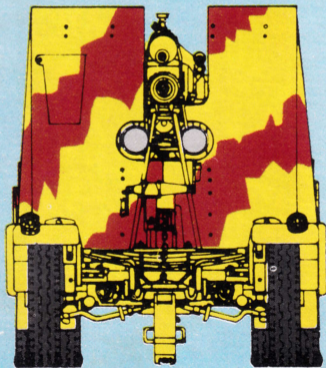
39

サンド

41

レッドブラウン ジャーマングレー

40



《塗装説明》

- 88mm砲の塗装については、砲の本体の方はほとんどサンドかジャーマングレーの単色塗装になっているが、防楯のところには図のような迷彩がほどこされている場合があります。砲身のところにキルマークが入ってる時もあります。