Panzer Kampfwagen II Ausf. M/N
1/35 MILITARY MINIATURE SERIES



On 15th September, 1916 during the World War I, tanks were used for the first time by England at the Battle of Somme. This was the first appearance of modern tanks on the battlefield. The distinguished service of the tanks was an important factor that led Germany to a defeat. Fully realizing the importance of tanks through the bitter experience, Germany threw energy into the development of tanks and the study of their use under the leadership of General Heinz Guderian who is called the founder of the German Tank Divisions after the World War 1. Especially after Hitler gained power, Germany further accelerated the study and development, becoming far ahead of other countries both in the

Germany, having carried on the development of the Pzkpfw I and II, earnestly developed the Pzkpfw III and IV as its mainstrength tanks. In 1935, Man, Daimler Benz, Rheinmetall, and Krupp were ordered to design a 15-ton-class tank. Among the prototypes presented by these rivaling companies, the one by the Daimler Benz was selected. Although the Krupp's prototype lost the competition, many of its features were applied to the late Pzkpfw IV. In 1936, 10 tanks

technique and in the tactics.

of the A type, the first type of the Pzkpfw III, were produced, 8 of which were armed with a 37 mm main gun. Each of this type employed 5 large-sized road wheels and coil springs in the suspension system. It used 2 upper small-sized wheels. The thickness of the armour was 14.5 mm at its thickest part. It weighed 15.4 tons. Its engine was Maybach HL 108 TR, 12-cylinder, with the maximum speed of 32 km/hr.

The Pzkpfw III has a number of types, from A to N. Types A to E are of the so-called "trial production types", which underwent various improvents. The Pzkpfw III reached near stage of completion with its E type, the final trial production type, and the mass production was started. The E type, manufactured in 1939 to 1940, newly employed a Maybach 120 TR engine and a suspension system of torsion bar type with 6 large-sized road wheels. The lookout window for the driver was also improved. In the beginning of 1940, the production of the F type was initiated. The main gun on this F type and on the earlier G type was replaced with a 50 mm gun of 40 calibre, although Hilter insisted at that time that a longer and more powerful 50 mm gun of 60 calibre should be

mounted, which was not crystallized in view of production. The F type's engine was replaced with a Maybach HL 120 TRM, 300 hp for further reinforcement. Taking a lesson from battle experience, Germany mounted on it a fivefold smoke discharger operated at the gun turret.

The production of the G type was started in 1940. Its look-out platform was renewed, and its hatch was remoulded into a double-leaf one. The look-out window also underwent a slight improvement. With the exception of these points, the G type is about the same as the F type. Besides, the G type had a tropical type called G type Tp which was remodelled for use in Africa. The production of the G type totalled about 450. The H type, whose production began towards the end of 1940, underwent significant improvement: The caterpillar was widened from 36 cm to 40 cm. The upper small-sized wheels were rearranged at wider intervals with the increase of the tank weight. The drive wheels and the rear idler wheels were reshaped for mass production. Deriving a severe lesson from the battle with Russia that revealed the weakness of the Pzkpfw III's armour, Germany mounted 30 mm armour plates, as emergency measures for

1935 1937	1939		1941		1943		1945
Pzkpfw 1		10000					
Pzkpfw II							
3 👛	Pzkpfw III						
		3	Sturmgeschu	etz III			12 2005
4	Pzkpfw N						
					5	Pzkpfw V P	anther
						5	Jagd Panth
				b and	Pzkpfw VI T	iger I	
						b A	King Tiger Hunting
						6	Hunting Tiger
This chart shows the palmy days of the Pzkpfw $\mathrm{I}-\mathrm{VI}$			Schw	mmwagen			
	Kube	lwagen					

32

### A PARTS

- .Commander's Hatch 30 Exhaust Pipe A
- 2 . Commander's Hatch
- R Cupola A
- . Cupola C . Cupola B

12

- 36 Look-out Window B Reaction
- 37. Periscope
- 38. Frontal Hook
- 39 Handrail
- Absorbing Plate Cartridge Box M Type Gun Shield

13. Gun Turret Parts

17. Unnecessary Parts

20, Fire Extinguisher

14. Ventilator

Gun

18. Scoop 19 Wire Cutter

21 Jack

15. Muffler Parts

- 40. Smoke Discharger .Armour Plate A
- 41 Exhaust Pipe C 10 Tool Box 42. Smoke Discharger Support A
- 11.7.92 mm MG . Tool 43. Smoke Discharger
  - Support B 44. Upper Half of Gun

31 Gun Turret (Left)

33 Armour Plate C

34. Armour Plate B

Gun Turret (Right)

Look-out Window A

- Turret
- 45.Escape Hatch C 16. Gun Turret Machine 46 Escape Hatch D
  - 47 Light
  - 48. Upper Hull Parts 49. Antenna Base A

56. Machine Gun

14. Road Wheel A

Rear Wheel A

Sprocket Wheel B

Shock Absorber

23. Upper Hull Parts 24. Upper Hull Parts

25. Upper Hull Parts

28. Spare Caterpillar

26. Unnecessary

27 Binocular

Holder 29. Idler Wheel Shaft

16

22

19. Cap 20. Spare Caterpillar 21. Rear Panel

57. Projectile Charging

Section Parts B

58. Antenna Base B

Muzzle

- 50. Antenna Holder
- 51 Muffler
- 22. Axe 52. Muffler 23. Projectile Charging 53. Projectile Charging
- Section A Section Parts A 54. Gun Turret Base Projectile Charging 55. Exhaust Pipe B
- Section B 25 Ventilator
- 26.Escape Hatch A
- 27 Escape Hatch B
- 28 Barrel
- 29. Frontal Armour Plate

## B PARTS

- Spare Wheel Clasp Rear Wheel Bearing
- Spare Wheel Holder Idler Wheel
- Tank Soldier's Left 18 Sprocket Wheel A Hand
- 6 Lower Half of Tank
- Soldier's Body Tank Soldier's
- Right Hand
- Upper Half of Tank Soldier's Body
- . Ventilator
- 10. Hull Fastening
- Parts
- 11. Spare Wheel 12. Road Wheel B
- 13. Pistol

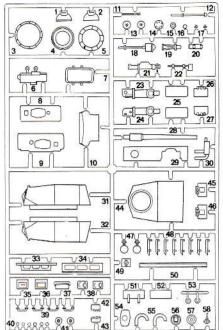
# C PARTS

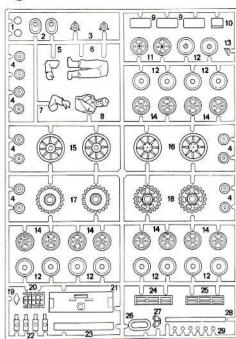
- 1 . Gun Turret Bulletproof Plate
- 2 Gun Turret Bullet proof Plate
- Rear Wheel Shaft
- N Type 75mm Barrel N Type Gun Shield
- Front Wheel Shaft
- Armour Plate A N Type Barrel Base Gun Turret Bullet
- Plate Holder A 10. Gun Turret Bullet
- Armour Plate Holder A

- 12. Armour Plate Holder B 13. Armour Plate
- Holder C
- 14. Gun Turret Bullet-proof Plate Holder C
- 15. Armour Plate B
- 16. Gun Turret Bullet-proof Plate 17. Gun Turret Bullet
- proof Plate
- 18. Gun Turret Bullet-proof Plate
- proof Plate Holder B 19. N Type Hatch

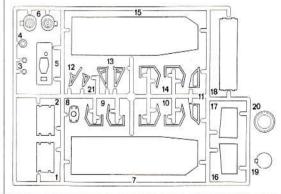
  - 20.N Type Cupola 21.Armour Plate
- Holder D
- ★Be sure to read instructions before you start each construction work in numerical order.
- ★Get a knife, a driver, a pair of nippers, a file, and other necessary tools ready.
- ★Cut each parts off the runner carcfully with either a pair of nippers or a knife. But it won't do to pluck it away with your hand.
- ★Too much adhesives won't do. Instead apply just a little onto both parts to be glued together.

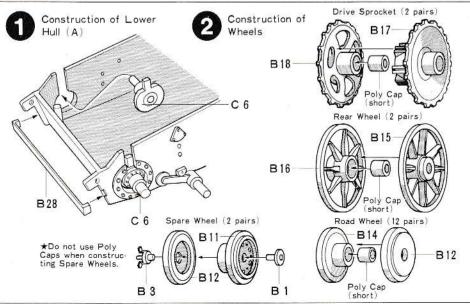






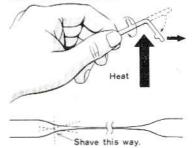






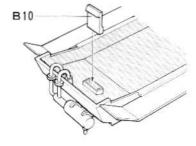
- Drive Sprockets should be fixed while holding C6 with your fingers after Poly Caps have been put
- ★Before fixing Idler Wheels, B4 and B29, apply adhesives onto Lower Hull, at which B29 is glued. Take care not to put adhesives on B4.
- In the construction of the front part, first fix A 56 and A 37, and then glue Armour Plate A 29.
- In fixing Antenna, do not apply adhesives to movable parts A 58 and A 49. A 18 should be glued before A 50.



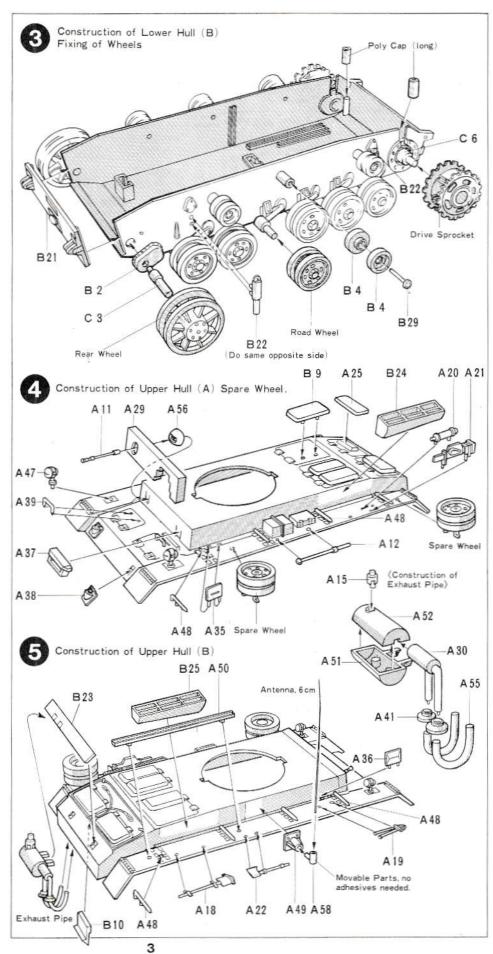


- ★Heat one of runner gradually while turning around. When the center portion began to melt, stop heating and stretch both ends of the runner slowly to opposite way to the thinness wanted. Hold it in that position for about 15 seconds to cool, and cut it to a 6 cm piece.
- ★Caution: Be careful in handling fire.









This kit is convertible and can be constructed in two ways; M Type and N type of the Pzkpfw III. Make your choice and construct either of them. At this time, keep in mind that the shape of Commander's Hatch differs according as it is M type or N type.

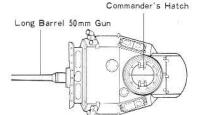
(Construction of Tank-Soldier Dummy)

★Glue Body on Legs with Cupola between them as shown in the figure below. See article 15.

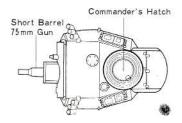
(Fixing of Tank Soldier)

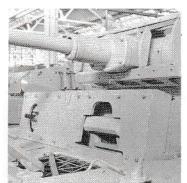


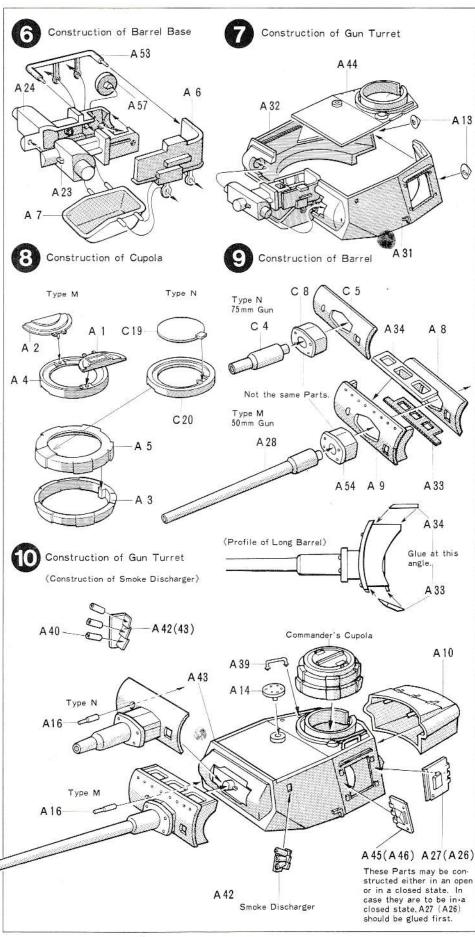
(Pzkpfw III M Type)
Long Barrel. Commander's Hatch
with 2 leaves.

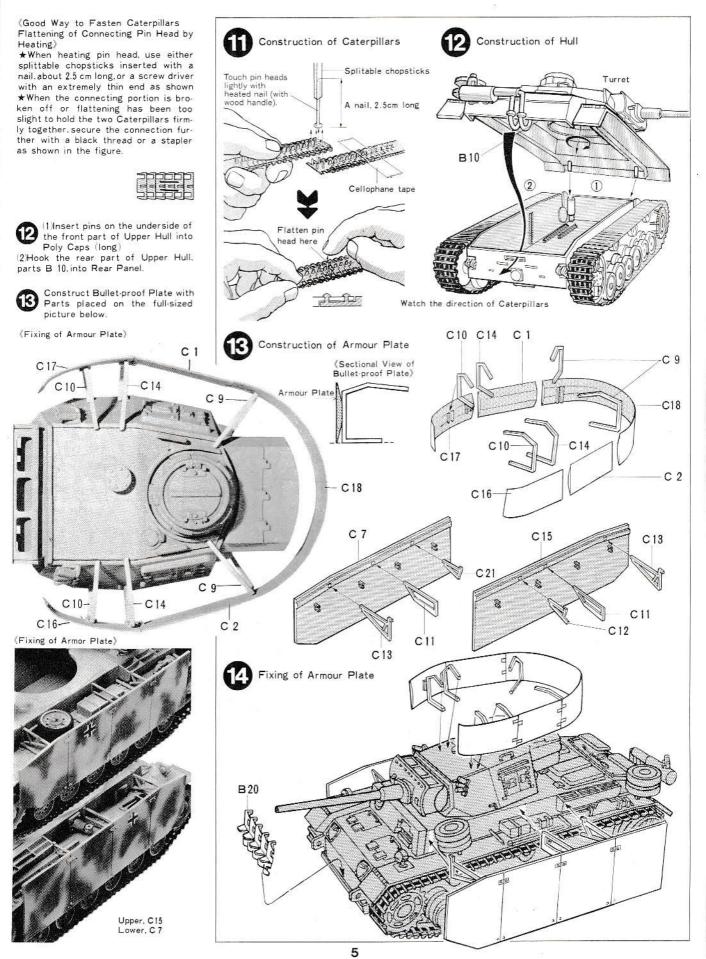


(Pzkpfw III N Type) Short Barrel. Commander's Hatch with a single leaf.









# (General Painting of German Officer and Tank Soldier)

Uniform

The uniform, including cloth gloves provided by the army, was made of field green cloth. Lapels, which were dark bluish green in the early stage, were later coloured field green, the same colour as the uniform itself. Matted-silver buttons were used, five on the coat and one on each pocket. The eagle mark, the national emblem, was provided on each army man's cap and left breast. German Tank Soldier's combat uniforms, including caps, are roughly divided into two: Black ones and field grey ones. Grey shirts worn under the uniform were coloured light green later in 1944.

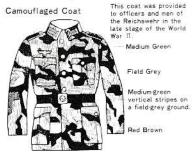
Cap

Each officer was provided with a regulation cap corresponding to his rank, which was used at the time of battle also.

Soldiers wore a field cap or a mountain cap by choice except for the time of fighting when they used a helmet.

Camouflaged Coat

A camouflaged coat, as shown in the figure below, was adopted in 1943. The helmet was sometimes covered with the same camouflaged cloth.



Painting

In constructing dummies, painting is the most important work. Get the following tools and paints ready and start painting of each dummy carefully. Tools and Paints: a slender brush (a long-tipped one for designing); a pair of tweezers; a series of matted or bright paints used exclusively for the plastics—white, flesh tint, yellow, red, brown, green, blue, black, and silver paints.

[How to Make Field Grey]

Mix white, black, green, and yellowish brown in the proportion 6:3:6:4 to give a matted tint.

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# TAMIYA COLOR CATALOGUE

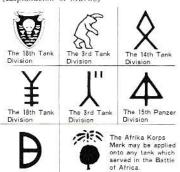
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# (Explanation of Marks)



(Camouflaged Colours of German Tanks) The camouflaged painting of the German tanks has three basic colours: dark yellow, dark green, and red brown.

The combination of these colours varies the camouflaged colours and patterns according to the season and the region.

Camouflaged Painting (Gradation by means of Spray-type Col-

ours)

The 21st Tank Division

Get the following ready: cotton, aseptic paste, Spray-type Colours — dark yellow and red brown.

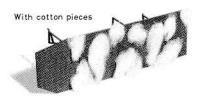
(1) Paint the tank overall in the basic colour red brown so lightly that the plastic colour remains visible. After drying it do the work again.

(5) Cover the basic colour with cotton, referring to the figure of camouflaged painting at right. The cotton should be taken to as small pieces beforehand as you can and applied with small amount of paste.

(3) Apply camouflaged colours overall in the same way as the basic colour. Do not forget the bottom of the hull. Give three thin coats or so.

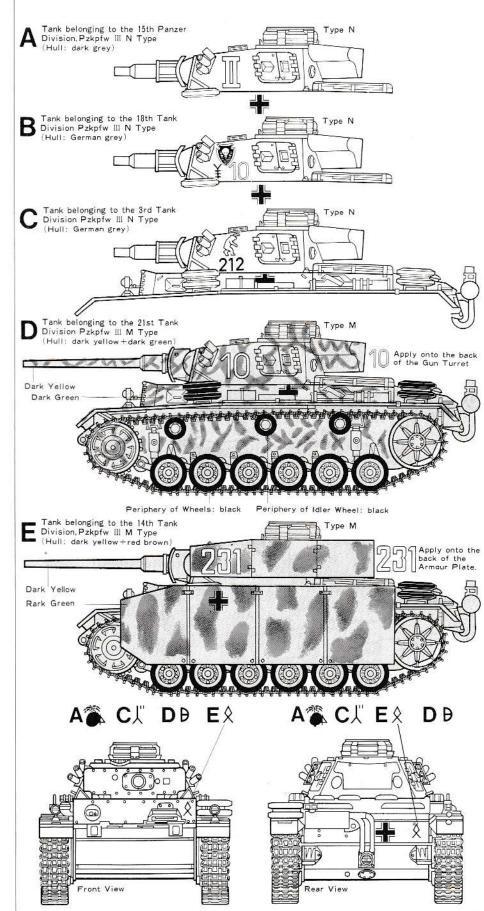
(4) Remove the cotton pieces after leaving for about 20 minutes. When dry the colours for another 30 minutes, rinse the paste away.

# (Painting of Armour Plate)



After painting





armour reinforcement, on the gun turret shield and on the upper front hull of the H type which was in course of production. Some of the later tanks of the H type are armed with a powerful 50 mm gun of 60 calibre.

The J type had a 50mm armour. Its main gun was then replaced with a 50mm gun of 60 calibre. Its look-out windows at the front and the side of the hull were taken off.

The next L type, much the same as the J type, has improved suspension system with the increase of the total weight.

The M type was manufactured from 1942 to 1943. The escape hatch at the side of its hull was removed. The M type, except for the initial production type, has Panzer Schelzen, or apron, as the standard equipment on the sides of the hull and around the gun turret. Its river-crossing ability was improved: It could move freely at a depth of up to 130 cm or up to 152 cm with special equipment. Thus, new mufflers and exhaust pipes were employed. The smoke discharger, which had been mounted since the F type on the right side of the rear portion of the hull, were moved to the sides of the gun turret. The head lights were renewed and also moved to the top of the fender. To facilitate the engine starting, the M type had a cooling water exchanging device as the standard equipment, which made possible the engine starting in 12-15 minutes even at 30 deg C of frost. This device was mounted on the next N type and on the Pzkpfw IV after the G type.

The N type, the final mass production type, was munufactured from the end of 1942 to August, 1943. The main gun mounted on it was a short 75 mm gun of 24 calibre, type 37, which was originally on the Pzkpfw IV. The hatch of its look-out platform was replaced with a circular single-piece one. Also improved was the hatch for inspecting the steering brake at the front of the hull. These are important features of the N type. Some of Pzkpfw III with a the short 75 mm gun use the hull either of the L type or of the M type. This model is the earlier N type having the hull of the M type. The production of the N type, including those with such hulls, totalled 666.

It was between 1941 and 1943 that the Pzkpfw III played the key role of the German Army. During this period, the German tank corps displayed its strength and manoeuvrability to the

Example of German Tank Regiment Standard The 1st Platoon Organization (As of autumn, 1942) The 1st This mark stands for Company the Pzkpfw III. The 2nd Company \_\_\_ Headquarters This mark stands for Platoon the Pzkpfw II. This mark stands for the Pzkpfw IV This mark stands for The 3rd Heavy Radio Combat Car. The 2nd Company (the same as the 1st) The 1st Battalion Battalion Headquarters The 3rd Company Regimental (the same as the 1st) Headquarters Battalion Headquarters Communication Platoon allow all Regimental Headquarters Communication Platoon The 1st Battalion Headquarters Platoon Light Platoon THE PERSON Regimental Headquarters Light Plattoon The 4th The 2nd Company Platoon adillam a dillilling The 3rd The 2nd Battalion Platoon (the same as the 1st)

world as well as Germany. Although the Pzkpfw III, originally designed as an attack tank, later reached the level of using a 75 mm gun, General Guderian reminiscenes say, its armament was never strong and its armour was rather poor. The fact that it showed such activity that adds glory to the German was history was the result of its excellent united operations with other tanks, flying corps, or later with 88 mm guns, which feature the tactics of the German forces. The Pzkpfw III rendered distinguished service together with the Afrika Korps in North African hot deserts, as well as drove Russia to the wall twice on the Eastern Front in midwinter. These facts show that the tank tactics of the German Army was excellent and at the same time that the Pzkpfw III was a superior tanks of high working ratio suitable for the tank tactics. The Pzkpfw III has many escape hatches in compared with tanks of other countries, which

clearly shows how the crew's lives were valued. This is true of all German tanks.

Among various types of the Pzkpfw III, the best are the types J, K, L, and M armed with a long 50 mm gun of 60 calibre. The Allied forces placed a high value on the superiority of these 4 types. The production of the Pzkpfw III including command ones totalled about 5800. If the Assault Gun III, which was built using the hull of the Pzkpfw III, is taken into account, the total production will exceed 15,000.

Essential Specifications of the M type

(The N type, in parentheses) Length: 6.55m (5.78m)

Height: 2.50m With: 3.41m

Weight: 21.13tons (21.3tons)

Engine: Maybach HL 120 TRM, V-type, 12-cylinder Maximum speed: 40 hm/hr

Armaments: One KWK, L60, 50mm gun (One KWK, L24, 75mm gun); Two MG 34, 7.92mm machine guns Number of crew: 5

- (1): 7,92mm Machine Gun (5): Gun Shield
- (2): 20mm Armour Plate (6): 75mm Projectile
- 3 : Gauge Board
- (4): L24,75mm Gun
- Charging Section (7): Ventilating Device
- 8: Reaction
- Absorbing Plate
- 9: Look-out Window
- 10 : Escape Hatch
- 11: Commander's Cupola
- (12): Gun-elevation
  - Adjusting Wheel
  - 13⊯ Engine
- (14): Exhaust Pipe
- 15: Rear Wheel
- 16: Road Wheel

- (17): Propeller Shaft
- 18: Commander's Seat 20: Control Lever
- Suspension System
  - 20 : Driver's Seat

(9 : Torsion Bar

- 20: Transmission System
- 23 : Clutch Pedal 24: Drive Sprocket

