BRITISH ARMY





CHIEFTAIN MK 5 MAIN BATTLE TANK by Chris Ellis

CHIEFTAIN MK 5 MAIN BATTLE TANK by Chris Ellis The Chieftain Tank is one of the best known of the present generation of battlefield weapons, and is one of the most heavily armoured and armed flighting vehicles in service anywhere today. It has not been without its detractors or critics, however, and there has been a running dehate by military commentators for several years paston the relative merits of the British Chieftain Tank compared with the main battle tanks of other great military powers - the United States, Soviet Russis, France and West Germany-whose present equivalent designs afford a fascinating contrast with Chieftain in many key aspects.

The Chieftain, however, was developed as a result of British tank experience in World War II and after, and reflects the priorities which British tank mea felt to be the innst important in terms of firepower, protection and mobility. British tank development in World War II resulted in the famous Centurion, which first appeared in 1945 in the closing weeks of the war. The Centurion, together with the Soviet Ramous Centurion, which first appeared in 1945 in the closing weeks of the war. The Centurion, together with the Soviet he need for a "universal" battlefield tank with an optimum combination of large, powerful gun, good speed and adequate armour, able to undetake the roles previously performed by several classes of specialised tank, variously known as infantry tanks, cruiser tanks, medium tanks and so on, all differing in their main characteristics. Battle debut of the Centurion, however, did not come until 1951-52 when it went into action in Koren, where the type of "armoured division" warfare of 1945 was not repeated. In Koren, nonetheless, the efficacy of the Centurion design was proven, and it proved supervior to the T-34/85 which was in the hands of the enemy. The British ideal of a single "miversal" tank and medical the force of 1945 was not repeated. In Koren, nonetheless, the efficacy of the Centurion design was proven, and it proved supervior to the T-

the enemy. The British ideal of a single "universal" lank had, meanwhile, been disturbed by the appearance of the Soviet Josef Stalin [II] tank in 1945, with a powerful 122 mm gun.

In the immediate post-war years it became clear that Soviet Russia and her East European allies (later the Warsaw Pact powers) posed the greatest threat to Western Europe in any future conflict, and this led, subsequently, to the secting up of NATO. If war broke out, much of the initial fighting at least would take place in Europe, notably in Northera Germany, and Britain's armouved divisions were either located in or earmarked for deployment to Germany. The backbone of the Soviet armoured divisions in the 1950s was the formidable 125-III] and its '1-10 derivative, both with the 122 mm gun, which could out-shoot the 20 pdr. (94 mm) un of the early service versions of Centurion. To strengthen the firepower of the Centurion, therefore, the British developed and introduced a "heavy tank gun", the Conqueror, with a 120 mm gun specifically to match the Stalin. The Centurion at this time was clossed as a "medium gun tank". The Conqueror was unsatisfactory in many ways: it was very heavy, noisy, relatively slow, and made an extra logistic liability for relatively few whiches. By 1966 the Conqueror was withdrawn from service and an up-gunned Centurion with 105 mm gun was in service.

More significant still, however, was that the British by this time had a new tank in production, the Chieftain, which was to replace both the Centurion and Conqueror, with firepower superior to both. Initial studies for a new 'medium' tank gun" to replace these two tanks started in the early 1950s and by 1934 some definite proposals had been formulated by the British General Staff. It was planned that the new which should not exceed 50 tons in weight, should have a gun of 120 mm calibre, low sloped superstructure, particularly at the front, and a new, compact V-8 engine inlessed of the Meteor engine of the Centurion. It was originally thought that the maximum c

a low sloped hull, it was decided to dispense with the con-

a low sloped hull, it was decided to dispense with the conventional seated driving position and give the drive a seni-reclining station, central in the hull front. A sloped, faceled glacis, quite similar to that of the Stalin tank, was featured in early design studies, though this evolved into a flatter sloped and cash nose in the final design. To give the best ballistic shape to the turret it was to have a sloped, pointed front, eliminating the wide mantlet of carlier tanks. The well-tried Horstmann suspension, as used in the Centurion, was to be retained. In order to test the feasibility of the new requirements, Leyland built a running protutype in 1956, largely hased on Centurion components. Popularly known as the "40 ton Centurion", but designated FV4202 and intended only for test purposes, this vehicle featured both a semi-reclining driver position and a pointed cast turret front. There was still much development work to do, however, notably the need to develop a new engine capable of running on several different types of fuel in accordance with a new NATO policy decision introduced in 1957. Leyland came up with a new motor, the 1.60, which was a twastroke with vertically opposed pistons, developed from a German cumpression ignition design. This work caused the whole programme to be delayed and further complicated, for the entire rear ond of the whole had to be re-designed to take the new engine, taking the weight above the originally scheduled 50 tons in the process. I ronically, also, troubles with this engine hampeved the vehicle even after it reached production and service status.

A finalised specification for the FV4201 was drawn up in 1959, and a two domerchy was ready by early 1959. By this time, the summary of the production and service status.

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in a box on the left side of the turret, offering either white light or infra-red light for night fighting, the system being linked for elevation with the gunner's sight. The gunner and the commander have optional liafar-red converters for their sights, and the commander's spollight can be fitted with an infra-red filter. The driver's reclining position is flanked by hattery and ammunition stowage, and he has a periscope behind his hatch. There are conventional steering levers with epicyclic gearhox and Merritt differential transmission; transmission is automatic with foot pedal gearchange selector. The superstructure uverbangs the tracks to give the necessary turret ring radius. Both the hull and turret ronts are complex castings, and the hull front is said to have given some problems in the casting when production first started.

Development of the Chieftain since it entered production is best seen by summarising the various models:

Chittain Mk 1 About 40 of these vehicles were built, largely for extended troop trials and training. After test service with 1st and 5th RTR, the type was cleared for service in 1963. A distinguishing feature was the split hatches to the cupola similar to thuse on later types of Centurion.

Chieftain Mk 2 This was the definitive production versured to the cupola similar to thuse on later types of Centurion.

service in 1903. A distinguishing feature was the split hatches to the cupola similar to those on later types of Centurion. Chieftain Mk. 2. This was the definitive production version which first went into service (with the 11th Hussars) in 1967. It had a one-piece cupola hatch and special ventilation equipment on the turret rear to enable the vehicle to operate closed down in nuclear and biological warfare conditions. The armour plating on the light projector was reduced, round stowage reduced, and snorkel wading equipment was supplied in place of a flotation kit originally envisaged. This type saw extensive service in the late 1960s and early 1970s, and, indeed, the Chieftain rapidly replaced the Centurion as the British Army's main battle tank once production was under way. Special purpose models - a recovery vehicle, AURE, and bridgelayer have appeared.

Chieftain Mk. 3. This version appeared in 1969 and had a better auxiliary generator and detail improvements to the engine. The L60 engine proved complex, and successive marks of the Chieftain have had the engine gradually uprated to give the full designed power output. An improved cupula, and modified internal stuwage were other changes.

Chieftain Mk. 3/3. This saw a big step forward, in that the fire control arrangements were modified so that an advanced laser sight for the gunner can be fitted.

Chieftain Mk. 5. First announced in 1970, this was the main type in service in the mid 1970s. Further engine modifications bring the power output performance, and revision of the ammunition stowage arrangements enabled 64 rounds to be stowed. Splash plates have heen added on the glacis.

The Chieftain has been compared, inevitably, with the French AMX-30, the West German Leopare, and the US M60A1.

to be stowed. Splash plates have been added on the glacis. The Chieftain has been compared, inevitably, with the Fronch AMX-30, the West German Leopard, and the US M60A1. All these tanks have speed and mobility superior to the Chieftain and are lighter in weight. They also have the 105 mm gun and are inferior to Chieftain in firepower and armour. Whether mobility or firepower will be the most crucial top quality in any European major war has yet to be put to the test, but the pace of technology in armoured warfare in relentless. The Soviets have made hig progress with fine-stablished ammunition (in their T-62 and new T-72 battle tanks) and the Israeli-Arab "yom Kippur" war of October, 1973 showed for the first time that the main battle tank was very vulnerable to tactical anti-tank missiles skilfully employed. It may be, therefore, that the Chieftain could be the last of the traditional type of tank in the form in which it has been accepted for mony years past. Whatever the future, however, Chieftain remains an exciting and powerful fighting vohicle. It has been ordered by the Iranian Army and has interested many others, though the great expense of one of these vehicles (over £100,000 each in 1967) limits their availability.



(Read Before Assembly)

★You will need a sharp knife, a pair of pliers, a pair of tweezers, and a file.

★Do not Break parts away from sprue, but cut off carefully with a pair of pliers.

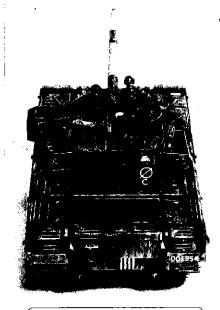
★Use glue sparingly. Use only enough to make a good bond. Apply cement to both parts to be joined.

This mark shows the color this part should be painted. For overall painting and marking, refer to page 7.

(Vor Beginn die Bauanleitung studieren.)
★Die Teile nach Bauabschnitten zusammenbauen. Teile nicht vom Spritzling brechen - abschneiden oder abzwicken, vor Kleben zusammenhalten - auf Passung achten.

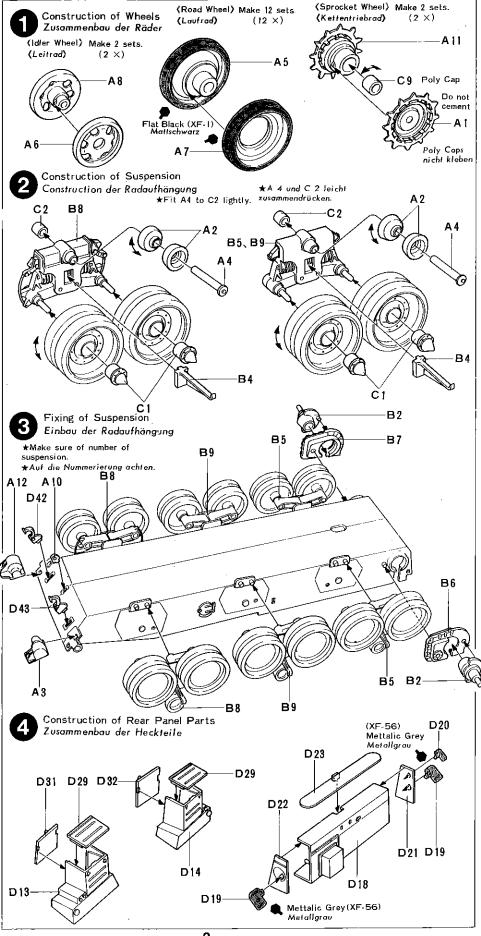
★Nicht zuviel Klebstoff verwenden. Kleine Teile mit Pinzette halten.

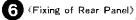
★Abziehbilder vorsichtig im Wasser abschieben, auf richtigen Sitz achten und gut tracknen.



Like to detail your models?

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.

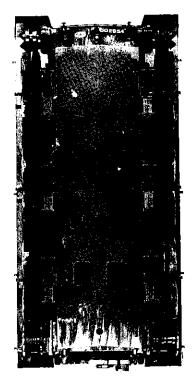




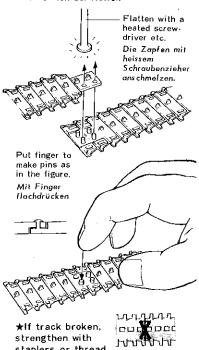
Wheels are designed to rotate. Fit them onto shafts. When you fix Rear Panel, widen Lower Hull carefully and cement in position.

《Einbau der Heckplatte, Leit - und Triebräder)

Die Räder sind drehbar, nur auf Achsen stecken. Beim Einbau der Heckplatte Panzerwanne vorsichtig etwas dehnen und Heckplatte einkleben.



Construction of Tracks Construction der Ketten

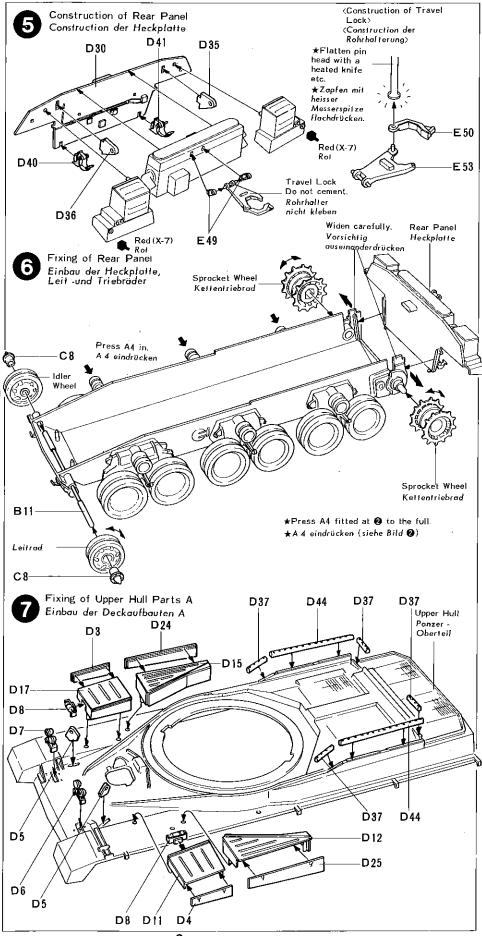


strengthen with

oder Draht flicken

staplers, or thread.

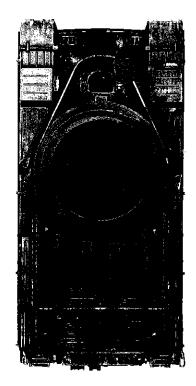
★Bei Kettenbruch mit Heftklammern

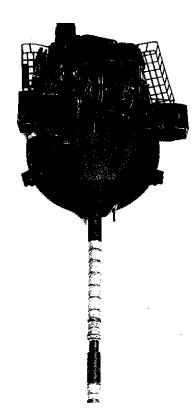


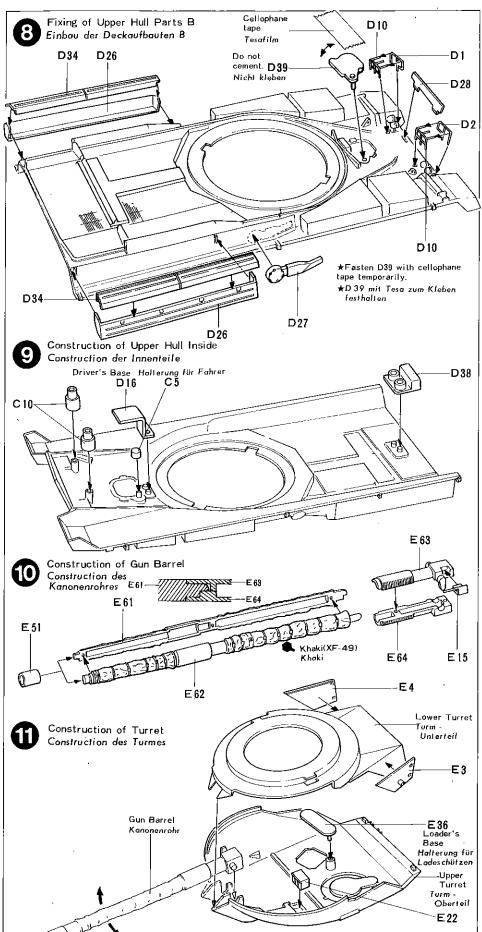
Fixing of Upper Hull Parts B)

Press Driver's Hatch in position shown in the figure and fasten with cellophane tape temporarily.

(Einbau der Deckaufbauten B) Fahrerluke in Position kleben und mit Tesa zum Trocknen festhalten.







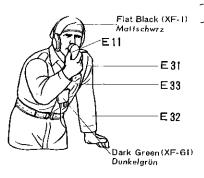
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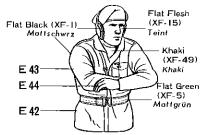
(Fixing of Turret Parts) (Einbau der Turmteile)

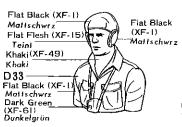


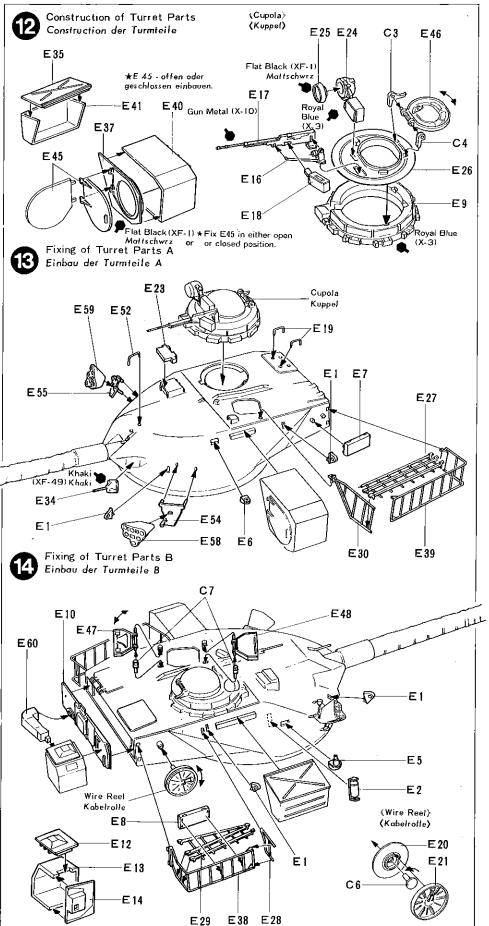
Construction and Painting of Figures

«Männchenbou»

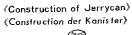


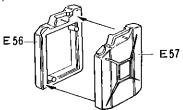




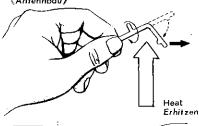


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(How to Make Antenna) (Antennbau)



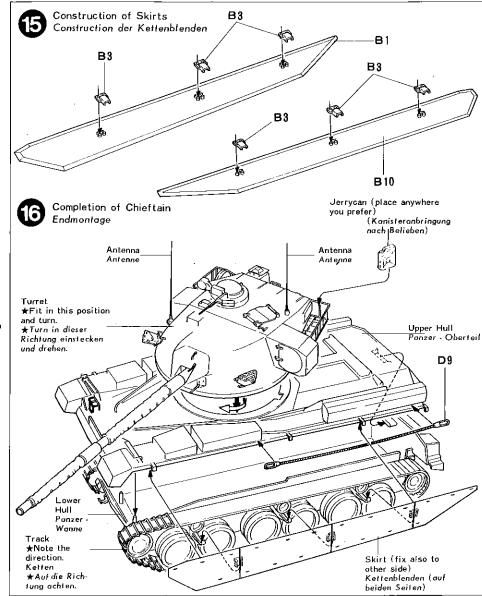
Shave this way. Hier abschneiden ★Heat one of runner and when melt a

little, stretch opposite way. Hold it about 15 seconds to cool. Cut 2 pieces of 4 cm long.

★Ein Stück vom Spritzling über Kerze gerade biegen. Dann in der Mitte im Drehen erhitzen. Wenn Plastik schmilzt, nicht weiter erhitzen und langsam auseinanderziehen und ca.15 Sek. abkühlen, 2 Stück a 4 cm abschneiden.

★Place Figures to the tank as shown in the photo below.









PAINTING PLYING DECALS

APPLYING DECALS

(Painting of the British Tank)

The British Royal Army's fighting tanks have been mostly painted in just one colour dark green. The famous Chieftain tanks of the army also usually come in the same single dark green. In case of camouflage painting, the Chieftain tanks have been most commonly painted green on dark green base. This camouflage scheme features large patches of each colour and clear dividing lines, which seems to be common in British military vehicles. Shading off of one colour into another to make dividing lines unclear or painting in leopard-skin style has been hard to find among British tanks.

《Colours to be Used》

Flat Black ·····	XF-I
Flat Green ······	XF-5
Metallic Grey ······	XF-5€
Buff	XF-5
Dark Green ·····	XF-6
Red	X-7
Chrome Silver ······	X-11
(Bemalung des Chieftain)	

Die Kampfpanzer der brit. Royal Armee waren meistens in einer Farbe - dunkelgrün.

Der berühmte Chieftain war ebenfalls dunkelgrün. Die Tarnung war einheitlich grün auf dunkelgrün und zeigte grosse Flecken mit scharfen Rändern. (Farben)

Mattschwarz mattgrün metallgrau mattdunkelgrün rot glänzend silber.

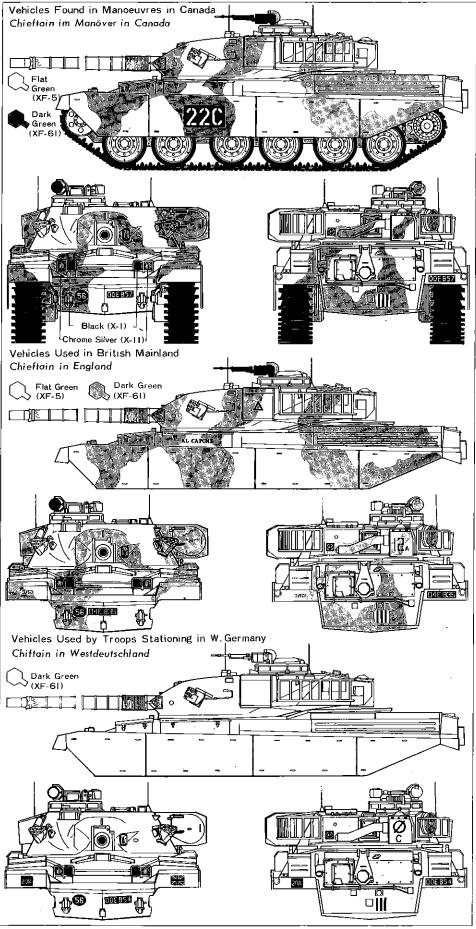
Marking of the Chieftain Tanks

A British army tank carries marking such as follows: Vehicle number, division or brigade mark, and sometimes radio call number (12A or 22C),nickname of the tank (AL CAPONE) or squadron sign.

(Markierung des Chieftain)

Fahrzeugnummer, Division, Brigade oder Schwadron Zeichen und manchmal Funknummer (12 A od.22 C)





A PARTS

- 1. Sprocket Wheel A 2. Support Roller Shaft Cover (Right) 4. Support Roller Pins Road Wheel A 6. Idler Wheel FI
- Road Wheel B B. Idler Wheel A Unnecessary 10. Front Eye Hook II. Sprocket Wheel B 12. Shaft Cover (Left)

B PARTS

Skirt (Right) Skirt Holder 2. Drive Shaft 4. Skirt Arms 5. Suspension C 7. Final Case (Left) 6. Final Case (Right) 8. Suspension A 9. Suspension B 11. Idler Shaft 10. Skirt (Le(t)

C PARTS

- Road Wheel Cap 2. Support Roller Stopper Commander's Hatch Hinge (Right) Commander's Hatch Hinge (Left)
- 5. Driver's Hatch Stopper 6. Wire Reel Stopper 7. Loader's Hatch Hinge 8. Idler Wheel Caps 10. Hull Stopper Part 9. Sprocket Caps

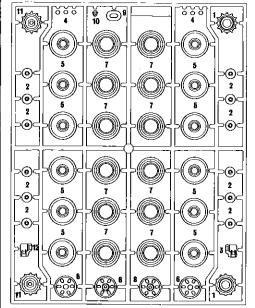
D PARTS

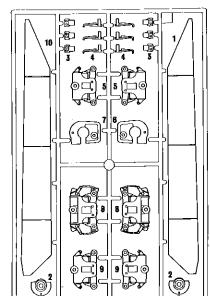
- 1 Light Cover (Front, Left) 2 Light Cover (Front, Right) 3 Tool Box A Panel (Right) 4 . Tool Box A Panel (Left) 5 . Upper Hull Eye Hook 6 . Headlight (Left)
- 7. Headlight (Right) 8. Fire Extinguisher A
 9. Wire Rope 10. Light Cover (Rear)
 11. Tool Box A (Left) 12. Tool Box A (Right)
 13. Rear Fender (Left) 14. Rear Fender (Right)
- 15. Tool Box B (Right) 16. Driver's Base 17. Tool Box B (Left) 18. Exhaust Box 19. Exhaust Pipe A 20 21. Exhaust Panel (Right) 22. Exhaust Panel (Left) 20. Exhaust Pipe B
- 23. Exhaust Cover 24. Tool Box B Panel (Right)
- 25. Tool Box B Panel (Left) 26. Tool Box C (Lower) 27. Ventilator 28 Front Guard
- 29. Rear Case Lid 30. Hull Rear Panel 31. Rear Caose Panel (Left)
- 32. Rear Case Panel (Right)
 33. Driver 34. Tool Box C (Top)
- 33. Driver 34. Tool Box C (Top)
 35. Rear Hook A (Left) 36. Rear Hook A (Right)
 37. Upper Hull Parts A 38. Hull Stopper Part
 39. Driver's Hatch 40. Rear Hook B (Left)
 41. Rear Hook B (Right)
- 42. Front Hook (Right) 43. Front Hook (Left)
 44. Upper Hull Parts B

E PARTS

- 1. Turret Suspending Hook 2. Fire Extinguisher B 3. Turret Panel (Right) 5. Antenna Holster (Right) 4. Turret Panel (Left)
- 6. Antenna Holster (Left) 7. Tool Box D
- 8. Tool Box E 10. Turret Rear Panel . Cupola (Lower) 11. Microphone 12 Ventilator A I4. Ventilator C
- 13. Ventilator B 15. Coaxial MG 16. MG Cylinder 17. Turret MG 18. Ammunition Box 19. Turret Inspection Hatch Handle
- 20. Wire Reel A 21. Wire Reel B 23. Finder Cover 22. Range Finder 24. MG Periscope 25. Lens Cover
- 26. Cupola (Top) 27. Travel Lock (Left) C
- 28. Travel Lock (Right) A 29. Travel Lock (Right) C 30. Travel Lock (Left) A 31. Commander's Right Arm
- 32. Commander's Left Arm 33. Commander's Body 34. Ranging MG 35. Tool Box F (Top) 36. Loader's Base
- 37. Main Searchlight (Front) 38. Travel Lock (Right) B 39. Travel Lock (Left) B 40. Main Searchlight (Rear)
- 41. Tool Box F (Lower) 42. Loader's Body 43. Loader's Right Arm 44. Loader's Left Arm
- 45. Searchlight Cover 47. Loader's Hatch A 49. Gun Saddle Hinge 49. Gun Saddle B
- 51. Muzzle 52. Gun Barrel Hook 53. Gun Saddle A
- 54. Smoke Discharger Stay (Left)
 55. Smoke Discharger Stay (Right)
 56. Jerrycan A
 57. Jerrycan B
 58. Smoke Discharger (Left)
- 59. Smoke Discharger (Right)
- 60. Ventilator Pipe 61. Gun Barrel (Right) 62. Gun Barrel (Left) 63. Cannon Drum (Top) 64. Cannon Drum (Lower)









PARTS

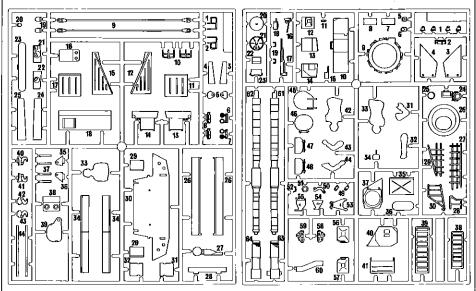


B

PARTS

PARTS

11_





PARTS

