BRITISH ARMY





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 fighting vehicles in service anywhere today. It has not been without its detractors or critics, however, and there has been a running debate by military commentators for several years past on the relative merits of the British Chieftain Tank compared with the main battle tanks of other great military powers-the United States, Soviet Russia, 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 men felt to be the most 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 Tanks, and German Panther, represented the culmination of thinking (arising from actual experience) which pointed the 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 Korea, where the type of "armoured division" warfare of 1945 was not repeated. In Korea, nonetheless, the efficacy of the Centurion design was proven, and it proved superior to the T-34/85 which was in the hands of the enemy. The British ideal of a single "universal" tank dad, meanwhile, been disturbed by the appearance of the Soviet Josef Stalin III tank in 1945, with a powerful 122 mm gun.

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proved superior to the 1-97-95 which was mines and the enemy. The British ideal of a single "universal" tank had, meanwhile, been disturbed by the appearance of the Soviet Josef Stalin III 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 setting up of NATO. If war broke out, much of the initial fighting at least would take place in Europe, notably in Northern Germany, and Britain's armoured divisions were either located in or earmarked for deployment to Germany. The backbone of the Soviet armoured divisions in the 1950s was the formidable JS-III and its T-10 derivative, both with the 122 mm gun, which could out-shoot the 20 pdr. (84 mm) gun 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 Conqueror was unsatisfactory in many ways: it was very heavy, noisy, relatively slow, and made an extra logistic liability for relatively few vehicles. 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 both the Centurion and Conqueror, with firepower superior to both. Initial studies for a new "medium tank gun" to replace both the Centurion, and Conqueror, with firepower superior to both. Initial studies for a new "medium tank gun" to replace both the Centurion and superstructure, particularly at the front, and a new, compact V-8 engine intesed of the Meteer engine of the Centurion. It was originally thought that the maxim

a low sloped hull, it was decided to dispense with the conventional seated driving position and give the drive a semi-reclining station, central in the hull front. A sloped, faceted glacis, quite similar to that of the Stalin tank, was featured in early design studies, though this evolved into a flatter sloped and cast nose in the final design. To give the best ballistic shape to the turret it was to have a sloped, pointed from the same of the terms of the staling that the substitution of the well-tried Horstmann wide mantlet of earlier tanks. The well-tried Horstmann wide mantlet of earlier tanks. The new requirements, Leyland built a running prototype in 1956, largely based 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 motor, the L60, which was a two-stroke with vertically opposed pistons, developed from a German compression ignition design. This work caused the whole programme to be delayed and further complicated, for the entire rear end of the vehicle had to be re-designed to take the new engine, taking the weight above the originally scheduled 50 tons in the process. Ironically, also, troubles with this engine hampered the vehicle even after it reached production and service status.

A finalised specification for the FV4201 was drawn up in 1958, and a wood mock-up was ready by early 1959. By this time the design contract had been passed from Leyland to Vickers-Armstrong, the speed requirement had been increased to a maximum of 26 mph, with a range of 300 miles, and there was an increase in elevation and depression of the gun to improve the maximum and minimum ranges.

The first running prototypes with turrets were delivered for army trials in 1961-62. Various chan

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 infra-red converters for their sights, and the commander's spotlight can be fitted with an infra-red filter. The driver's reclining position is flanked by battery and ammunition stowage, and he has a periscope behind his hatch. There are conventional steering levers with epicyclic gearbox and Merritt differential transmission; transmission is automatic with foot pedal gearchange selector. The superstructure overhangs the tracks to give the necessary turret ring radius. Both the hull and turret fronts 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:

Chiftain 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 those on later types of Centurion.

Chieftain Mk 2 This was the definitive production versities and training the content of the cupola similar to those on later types of Centurion.

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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 cupola, and modified internal stowage were other changes.

Chieftain Mk 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 1970s, this was the main type in service in the mid 1970s. Further engine modifications bring the power output up to 750 bph, with consequent improvement in overall performance, and revision of the ammunition stowage arrangements enabled 64 rounds to be stowed. Splash plates have been added on the glacis.

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of the ammunition stowage arrangements enabled 64 rounds to be stowed. Splash plates have been added on the glacis. The Chieftain has been compared, inevitably, with the French 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 big progress with fin-established 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 many years past. Whatever the future, however, Chieftain remains an exciting and powerful fighting vehicle. 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.

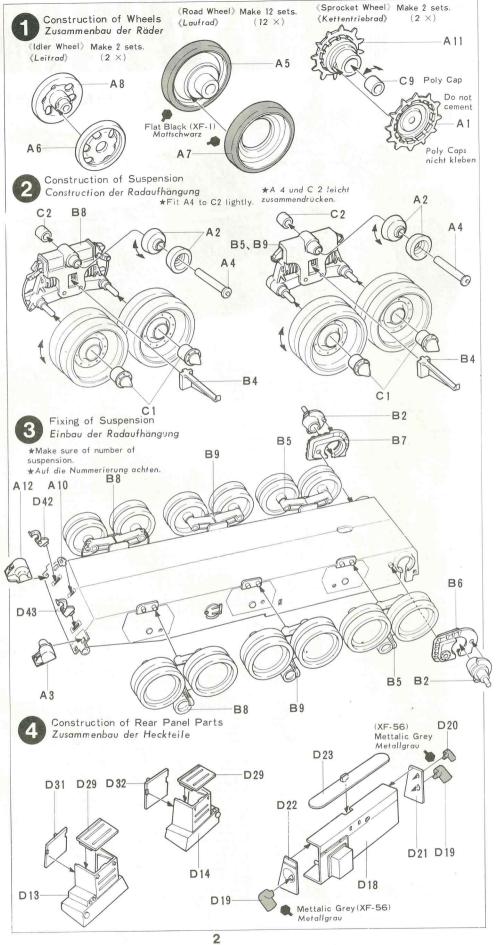
★Nicht zuviel Klebstoff verwenden. Kleine Teile mit Pinzette halten.

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



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.

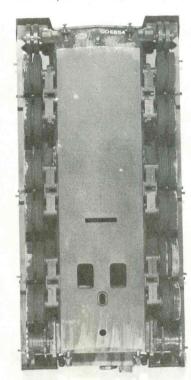




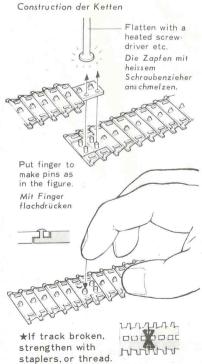
Wheels are designed to rotate. Fit them onto shafts. When you fix Rear Panel, widen Lower Hull carefully and cement in position.

《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.

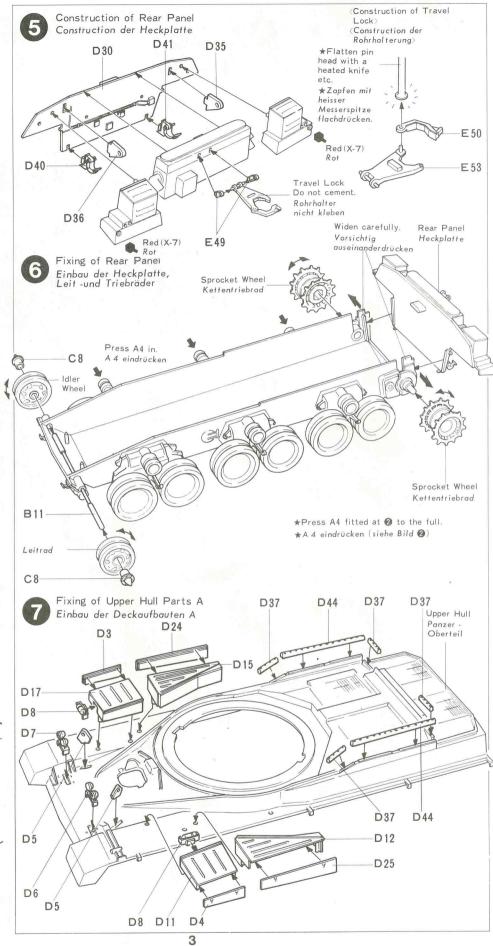


(Construction of Tracks)



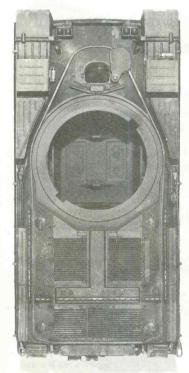
★Bei Kettenbruch mit Heftklammern

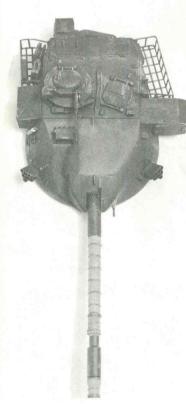
oder Draht flicken.

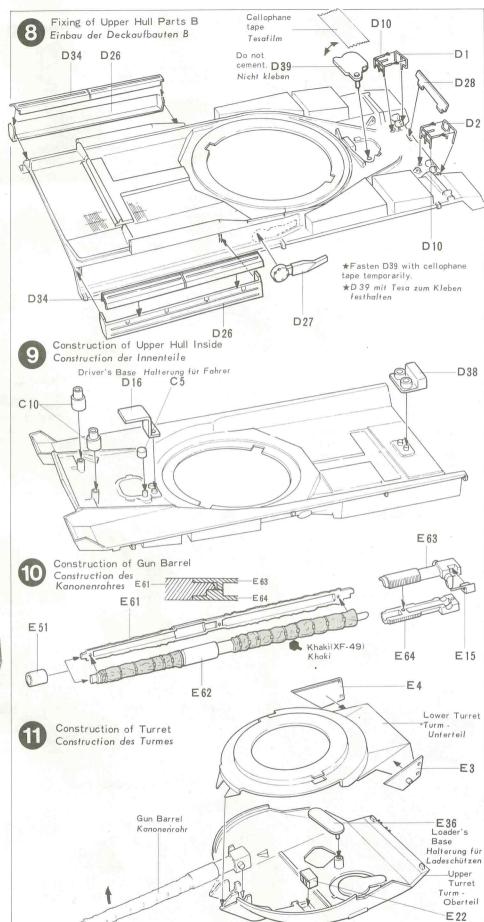


8 (Fixing of Upper Hull Parts B)
Press Driver's Hatch in position shown in the figure and fasten with cellophane tape temporarily.

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

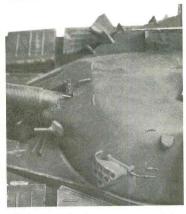


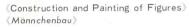


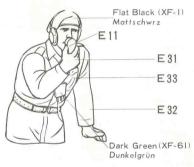


4

(Fixing of Turret Parts) (Einbau der Turmteile)

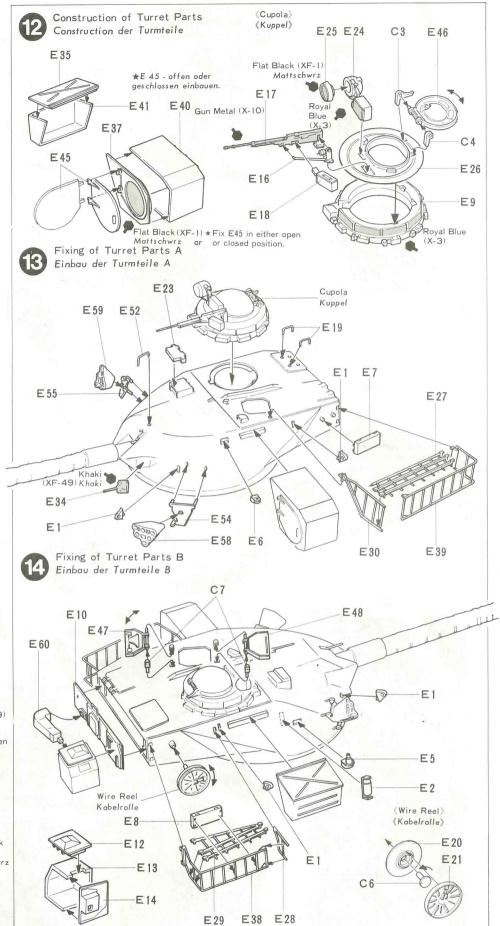




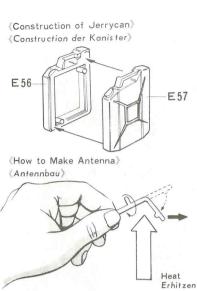






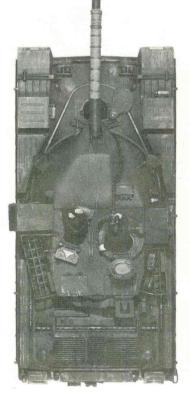


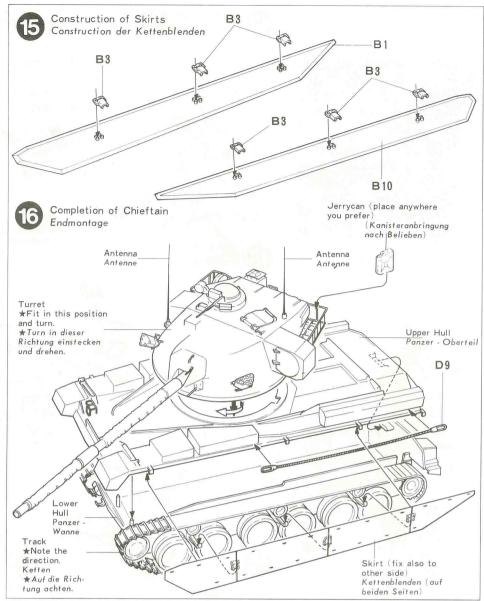
5



- 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.
- ★Figuren wie im Bild gezeigt einsetzen







PAINTING 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-56

 Buff
 XF-57

 Dark Green
 XF-61

 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.

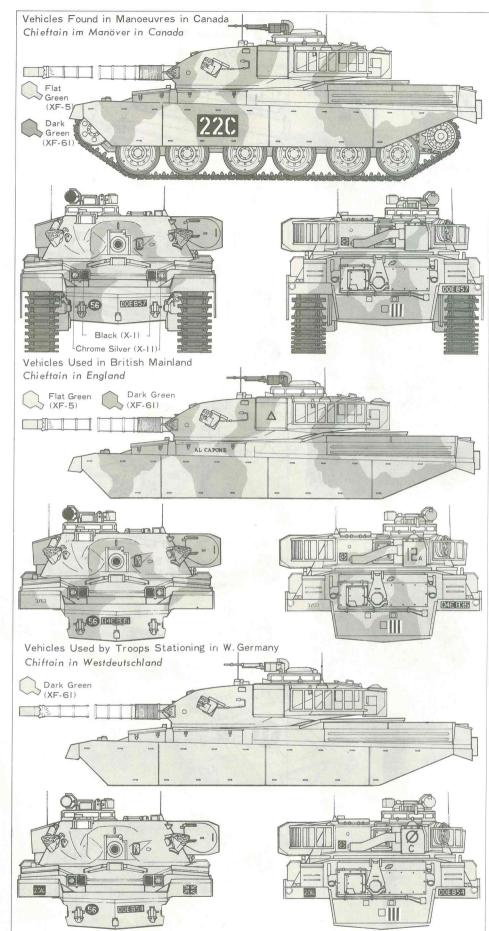
(Marking of the Chieftain Tanks)

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)





PARTS

A PARTS

Sprocket Wheel A 2. Support Roller
Shaft Cover (Right) 4. Support Roller Pins
Road Wheel A 6. Idler Wheel B
Road Wheel B 8. Idler Wheel A
Unnecessary 10. Front Eye Hook
Sprocket Wheel B 12. Shaft Cover (Left)

9. Unnecessary 11. Sprocket Wheel B

B PARTS

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

11. Idler Shaft PARTS

I Road Wheel Cap 2. Support Roller Stopper 3. Commander's Hatch Hinge (Right) 4. 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

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
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 (Right)
18. Exhaust Box
19. Exhaust Pipe A
20. Exhaust Pipe B
21. Exhaust Panel (Right)
22. Exhaust Panel (Left)
23. Exhaust Cover
24. Tool Box B Panel (Right)

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

26. Tool box 0

28. Front Guard

30. Hull Rear Panel

31. Rear Caose Panel (Left)

32. Rear Caose Panel (Right)

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

40. Rear Hook B (Left)

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

Turret Suspending Hook 2. Fire Extinguisher B
Turret Panel (Right) 4. Turret Panel (Left) Turret Panel (Right) Antenna Holster (Right)

Antenna Holster (Left)
Tool Box D 8 . Tool Box E
Cupola (Lower) 10. Turret Rear Panel 12. Ventilator A 14. Ventilator C 16. MG Cylinder 11 Microphone 13. Ventilator B 15. Coaxial MG

Turret MG 18. Ammunition Box

19. Turret Inspection Hatch Handle
20. Wire Reel A 21. Wire Reel B
22. Range Finder 23. Finder Cover
24. MG Periscope 25. Lens Cover

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 (Right) C
31. Commander's Right Arm
32. Commander's Left 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

38. Travel Lock (Right) B 39. Travel Lock (Left) B

39. Travel Lock (Lett) 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
46. Commander's Hatch
47. Loader's Hatch A
48. Loader's Hatch B
49. Gun Saddle Hinge
50. Gun Saddle B
51. Muzzle
52. Gun Saddle A

49. Gun Saddle Hinge 51. Muzzle 53. Gun Saddle A

 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)

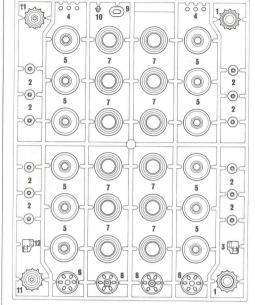
 64. Cannon Drum (Leger)
 64. Cannon Drum (Top)

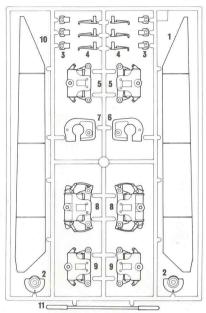
64. Cannon Drum (Lower)





PARTS

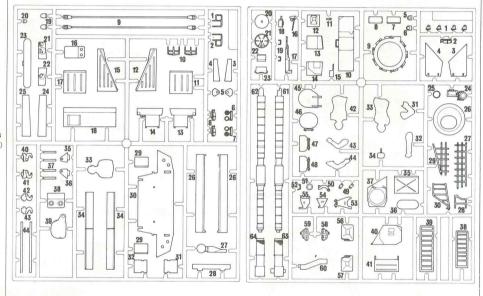




PARTS



PARTS





PARTS

