



PANZER IV GERMAN TANK



H-2110-3800

The Panzerkampfwagen IV was designed in 1934 as a back-up for the Pz Kpfw III already in production. General Heinz Guderian, the father of the German Armored Corps, was insistent upon good mobility, armor, and communications as essentials of good fighting vehicles. The Pz Kpfw IV was designed with these requirements in mind and became the only German tank to stay in production right through to the end of the war. Its designers had obviously done their job well.

The first production models came off the assembly lines in 1936. Ausführung (version) A weighed 17.3 metric tons and only 35 were built. Ausführung B appeared in 1937 and only 42 of this version were built. Ausführung C and D appeared in 1938 but by the time of the attack on Poland only 211 Panzer IV's were in action. By the time of the French Campaign, Ausführung E was in production, albeit in small numbers, but the basic design was steadily improved as combat reports and realistic requirements became known.

In August 1940, Hitler issued an order putting the highest priority on Panzer III and IV production.

The Panzer IV Ausführung F went into production in 1940, and by 1941, 393 of this type had been produced. Its armor was thicker, its tracks were wider, and its weight was up to 22.3 metric tons. When the F-2 version with the long-barreled 75 mm gun appeared, the F version was renamed F-1. The F-2 weighed 23.6 tons but was otherwise similar to the F-1. When the F-2's reached North Africa, the British dubbed them "Mk IV Specials" and felt they were superior to anything then in the Allied arsenal.

When, in 1942, the Panzer IV received thicker side armor and a double baffle (or four port) muzzle brake for its 75 mm gun, the resulting tank was called Ausführung G. Production continued through the J version.

The many versions of this vehicle are an indication of the flexibility of its design. When it was decided in 1943 to decrease pro-

duction of the Panzer IV in favor of the new Panther and Tiger Tank programs, both of which were untried, only General Guderian's intercession got the Panzer IV reinstated.

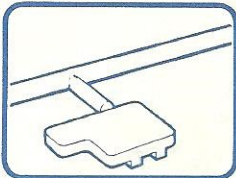
This outstanding weapon, like the Sherman Tank of the Allies, soldiered on long after its designed life. The last battles of this old veteran were fought in 1967, when to everyone's surprise, Panzer IV's were found to be operated by Syrian units during the short war with Israel.

PANZERKAMPFWAGEN IV SPECIFICATIONS

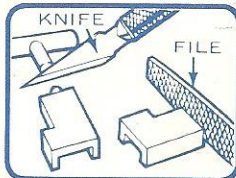
Hull Length:	17'9"
Width:	9'5½"
Height:	8'9½"
Armament:	(F-1) 75 mm KwK L/24 (F-2) KwK L/43 (G) KwK L/48, Two 7.92 mm MG34 machine guns, 87 rounds of 75 mm ammunition
Powerplant:	Maybach HL120 TRM V-12 gasoline engine of 300 hp
Crew:	Five
Gun:	75 mm - Traverse 360° - Elevation +20° -1°
Maximum Speed:	24.8 mph
Maximum Climbing:	30° grade
Maximum Trench:	7'
Maximum Wading:	3'3"
Maximum Range:	130 miles on roads, and 71 miles cross country
Armor:	Hull front 50 mm, sides 20 + 20 mm (G had 30 mm). Turret front 50 mm, sides 30 mm. All armor was welded Chrome Moly Steel

GET YOUR TOOLS READY:

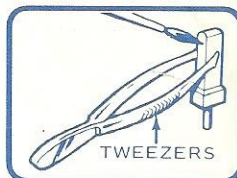
BEFORE YOU BEGIN



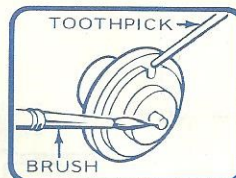
REMOVE PART WHEN CALLED FOR



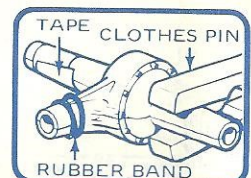
TO REMOVE AND TRIM PARTS



TO HOLD PARTS



TO APPLY CEMENT



TO HOLD PARTS AFTER CEMENTING

HELPFUL MODELING HINTS.

1. Fit parts together before cementing.
2. Trim away excess plastic.
3. Use cement sparingly, too much will damage your model.

4. Paint small parts **before** detaching from runner.

TO OBTAIN A GOOD BOND, REMOVE PAINT WHERE PARTS ARE TO BE CEMENTED.

IF YOU WISH TO STOP AT ANY POINT DURING THE CONSTRUCTION OF YOUR MODEL, DO SO ONLY AT THE END OF AN ASSEMBLY STEP.

PANZER IV TANK COLORS REQUIRED

- FLAT BLACK F.S. 37038
- FLAT WHITE F.S. 37875
- FLAT SILVER F.S. 37178
- FLAT KHAKI F.S. 34201
- FLAT BROWN F.S. 30108
- FLAT OLIVE GREEN F.S. 34092
- FLAT FLESH F.S. 33717

MOLDED COLOR IS LIGHT BROWN
USE F.S. 30257 (SAND) IF PAINTING.

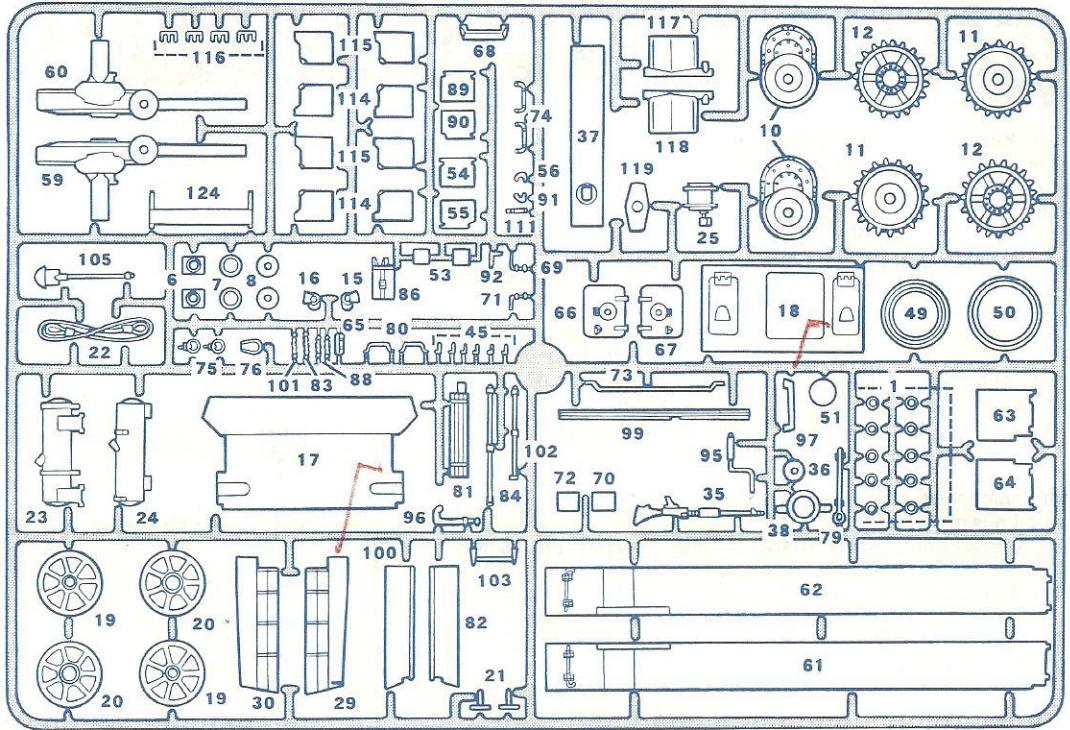
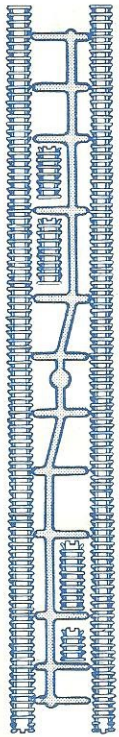
CAMOUFLAGE VERSION
FLAT RED BROWN F.S. 30111

MIX ONE PART BLACK, ONE PART SILVER AND FOUR PARTS WHITE FOR FLAT METALLIC GRAY.

MIX ONE PART OLIVE GREEN WITH THREE PARTS WHITE FOR LIGHT OLIVE GREEN.

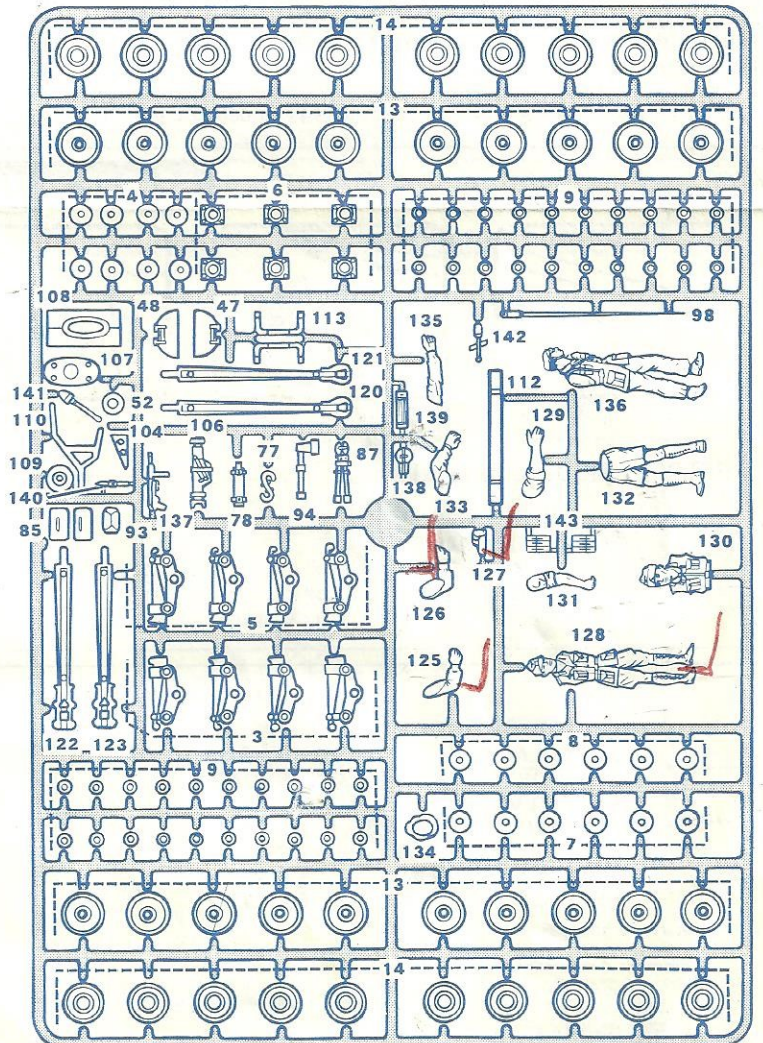
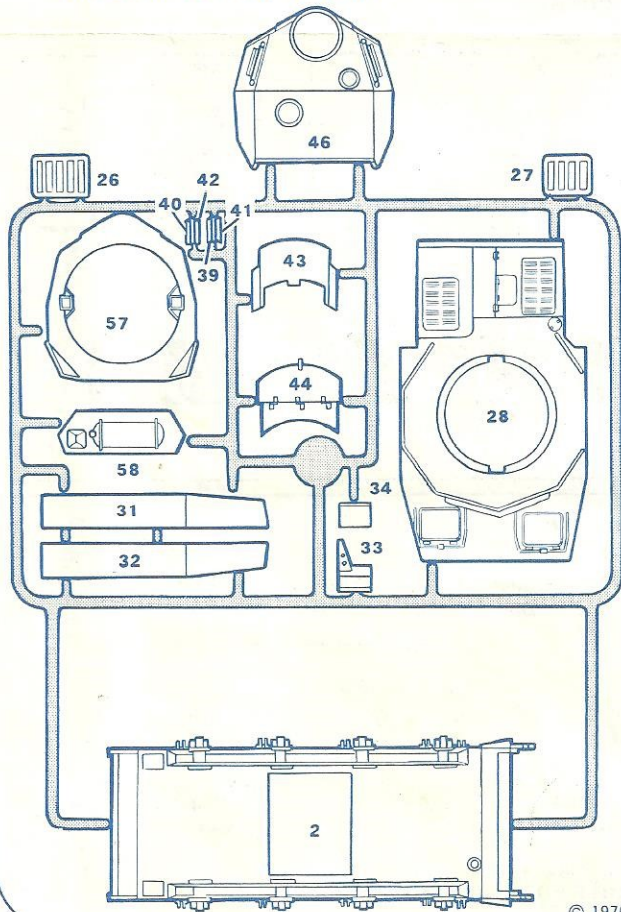
For modelers wishing to paint their models in authentic colors we have included the Federal Standard Color Numbers. These numbers refer to color samples printed in FS-595. Copies may be purchased for \$2.75 each from:

THE GENERAL SERVICE ADMINISTRATION
SPECIFICATIONS SECTION
Building 197, STOP 249
WASHINGTON, D.C. 20407



CAUTION

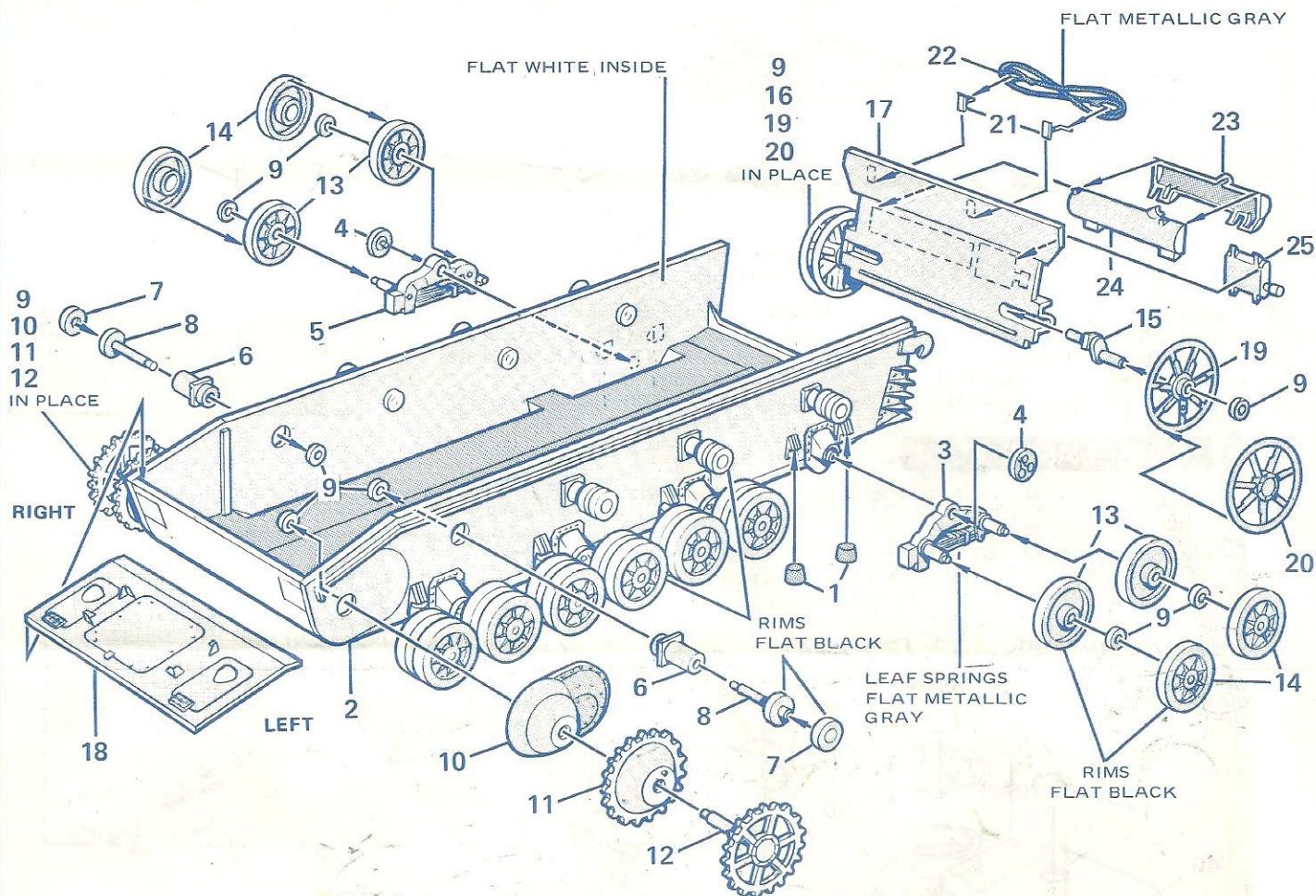
PLASTIC PARTS ARE NOT NUMBERED. USE THESE ILLUSTRATIONS AS A GUIDE IN ASSEMBLING THIS KIT. DO NOT REMOVE PARTS UNTIL YOU ARE READY TO USE THEM.



1

HULL/WHEELS

- | | | |
|---------------------------------|---|--------------------------------|
| 1 BUMPERS (10 Parts) | 10 GEAR CASE (2 Parts) | 19 IDLER, INNER HALF (2 Parts) |
| 2 HULL | 11 DRIVE SPROCKET, INNER HALF (2 Parts) | 20 IDLER, OUTER HALF (2 Parts) |
| 3 SUSPENSION/AXLES (4 Parts) | 12 DRIVE SPROCKET/SHAFT, OUTER HALF (2 Parts) | 21 HOOK (2 Parts) |
| 4 RETAINER (8 Parts) | 13 WHEEL, INNER HALF (20 Parts) | 22 CABLE, TOWING |
| 5 SUSPENSION/AXLES (4 Parts) | 14 WHEEL, OUTER HALF (20 Parts) | 23 MUFFLER, REAR HALF |
| 6 SOCKET (8 Parts) | 15 AXLE, LEFT | 24 MUFFLER, FRONT HALF |
| 7 RETURN ROLLER (8 Parts) | 16 AXLE, RIGHT | 25 TANK |
| 8 RETURN ROLLER SHAFT (8 Parts) | 17 PANEL REAR | |
| 9 RETAINER (28 Parts) | 18 GLACIS PLATE | |



FOR A SIMPLE STATIC MODEL, ALL MOVABLE PARTS CAN BE CEMENTED INTO PLACE.

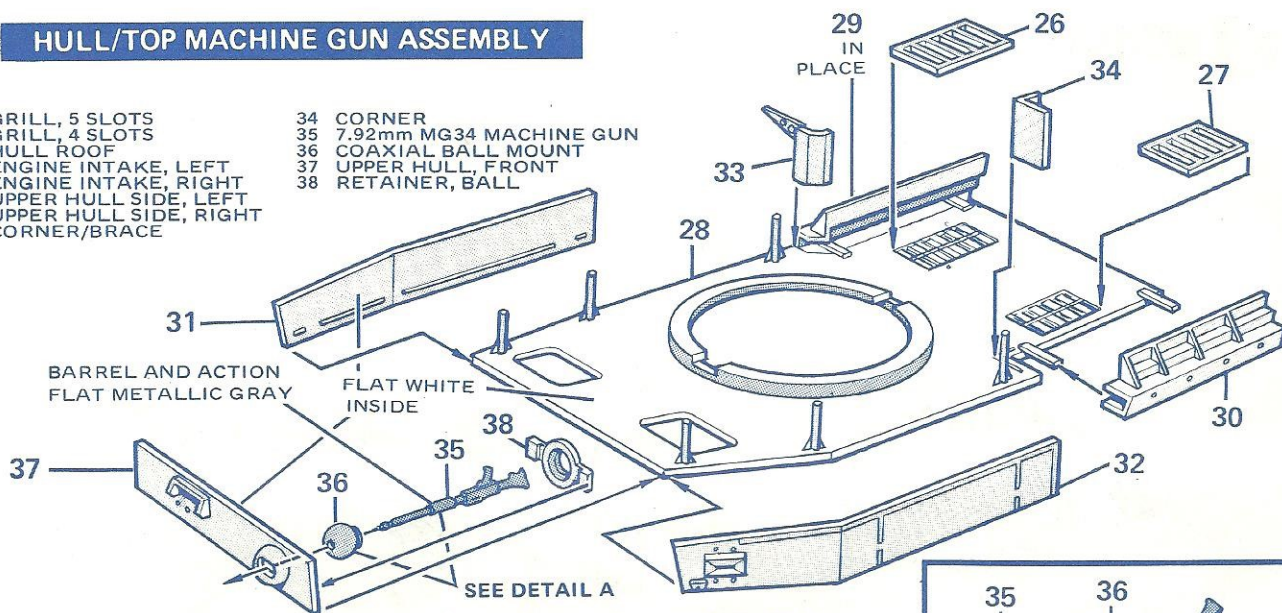
- Cement two parts (1) on each side of both rear BOGIE MOUNTS on part (2).
- Cement one part (1) at each of the six remaining BOGIE MOUNTS on part (2).
- Slide one part (3) onto each BOGIE MOUNT AXLE on the left side of part (2). Hold each BOGIE in place by very carefully cementing one part (4) to each BOGIE MOUNT AXLE. BOGIE should be free to move.
- Repeat procedure 3 above on the right side using four parts each of (4) and (5).
- Cement eight parts (6) to (2).
- Cement (7) to (8). Slide (8) into (6) and hold in place by placing one part (9) on small tip of (8) and carefully applying a small drop of cement to hold in place. ASSEMBLY should be free to rotate.
- Repeat procedure 6 above using seven parts each of (7), (8), and (9).
- Cement a part (10) to each side of (2).
- Cement (11) to (12). Slide small tip of (12) through (10) and hold in place by placing one part (9) on small tip of (12) and applying a small drop of cement to hold in place. ASSEMBLY should be free to rotate.
- Repeat procedure 9 above using a part (9) and remaining parts (11) and (12).
- Slide a part (13) onto a BOGIE AXLE and hold in place by placing one part (9) on tip of AXLE and carefully applying a small drop of cement to hold in place. WHEEL should be free to rotate. Cement part (13) to (14).
- Repeat procedure 11 above using fifteen parts each of (9), (13), and (14).
- Cement (15) and (16) to (17); then cement (17) to (2).
- Cement (18) to (2).
- Slide a part (19) onto each REAR AXLE and hold in place by placing one part (9) on tip of each AXLE and carefully applying a small drop of cement to hold in place. WHEELS should be free to rotate. Cement a part (20) to each part (19).
- Hook two parts (21) into (22) and cement both parts (21) to (17).
- Cement (23) to (24); then cement (24) to (17).
- Cement (25) to (17).

2

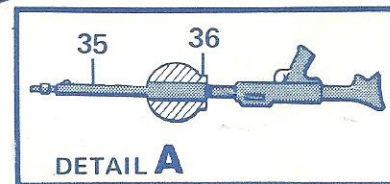
HULL/TOP MACHINE GUN ASSEMBLY

- 26 GRILL, 5 SLOTS
- 27 GRILL, 4 SLOTS
- 28 HULL ROOF
- 29 ENGINE INTAKE, LEFT
- 30 ENGINE INTAKE, RIGHT
- 31 UPPER HULL SIDE, LEFT
- 32 UPPER HULL SIDE, RIGHT
- 33 CORNER/BRACE

- 34 CORNER
- 35 7.92mm MG34 MACHINE GUN
- 36 COAXIAL BALL MOUNT
- 37 UPPER HULL, FRONT
- 38 RETAINER, BALL



1. Cement (26) and (27) to (28).
2. Cement (29) and (30) to (28).
3. Cement (31) and (32) to (28).
4. Cement (33) to (28), (29), and (31).
5. Cement (34) to (28), (30), and (32).
6. Insert (35) into (36) and slide BARREL through (37). Slip (38) over STOCK and cement (38) to (37). GUN should be free to tilt and swing.
7. Cement (37) to (28), (31), and (32).



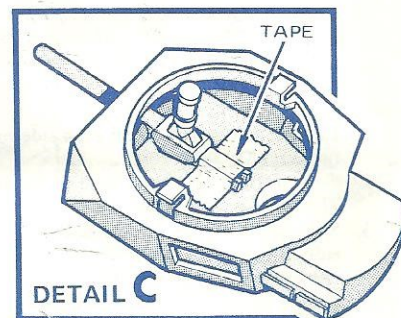
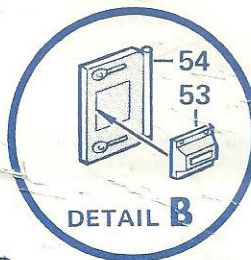
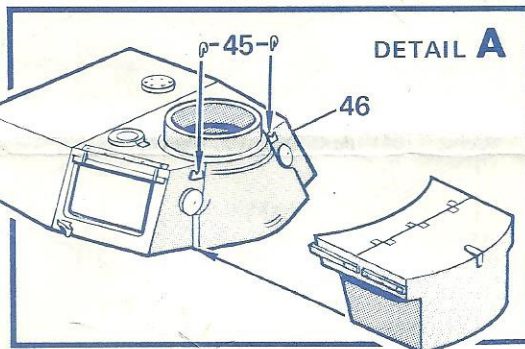
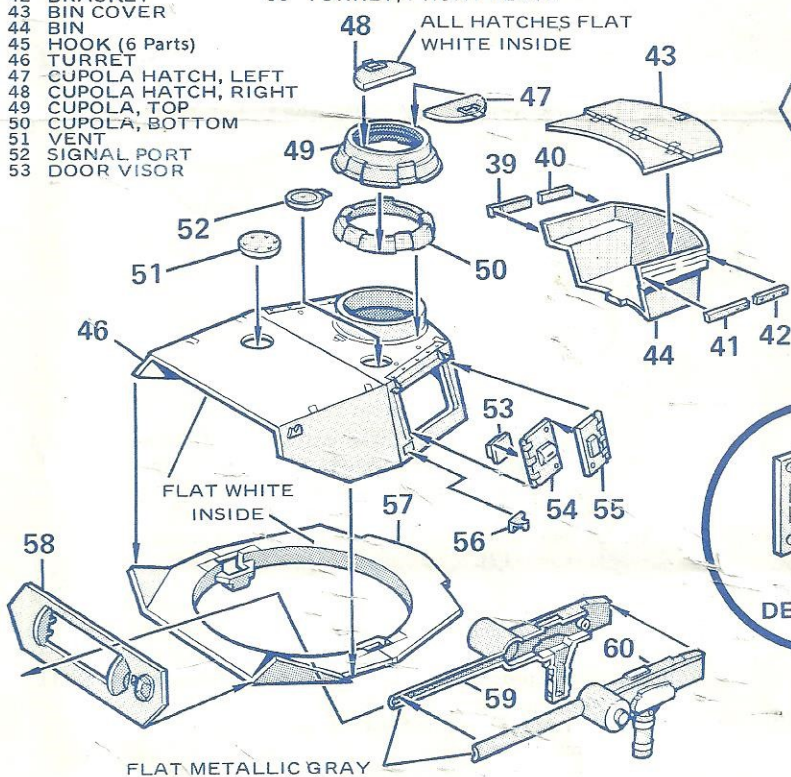
3

TURRET ASSEMBLY

- 39 BRACKET
- 40 BRACKET
- 41 BRACKET
- 42 BRACKET
- 43 BIN COVER
- 44 BIN
- 45 HOOK (6 Parts)
- 46 TURRET
- 47 CUPOLA HATCH, LEFT
- 48 CUPOLA HATCH, RIGHT
- 49 CUPOLA, TOP
- 50 CUPOLA, BOTTOM
- 51 VENT
- 52 SIGNAL PORT
- 53 DOOR VISOR

- 54 DOOR, TURRET LEFT SIDE, FORWARD
- 55 DOOR, TURRET LEFT SIDE, AFT
- 56 DOOR CATCH
- 57 TURRET, BASE AND RING
- 58 TURRET, FRONT PLATE

- 59 75mm CANNON BREECH, RIGHT
- 60 75mm CANNON BREECH, LEFT

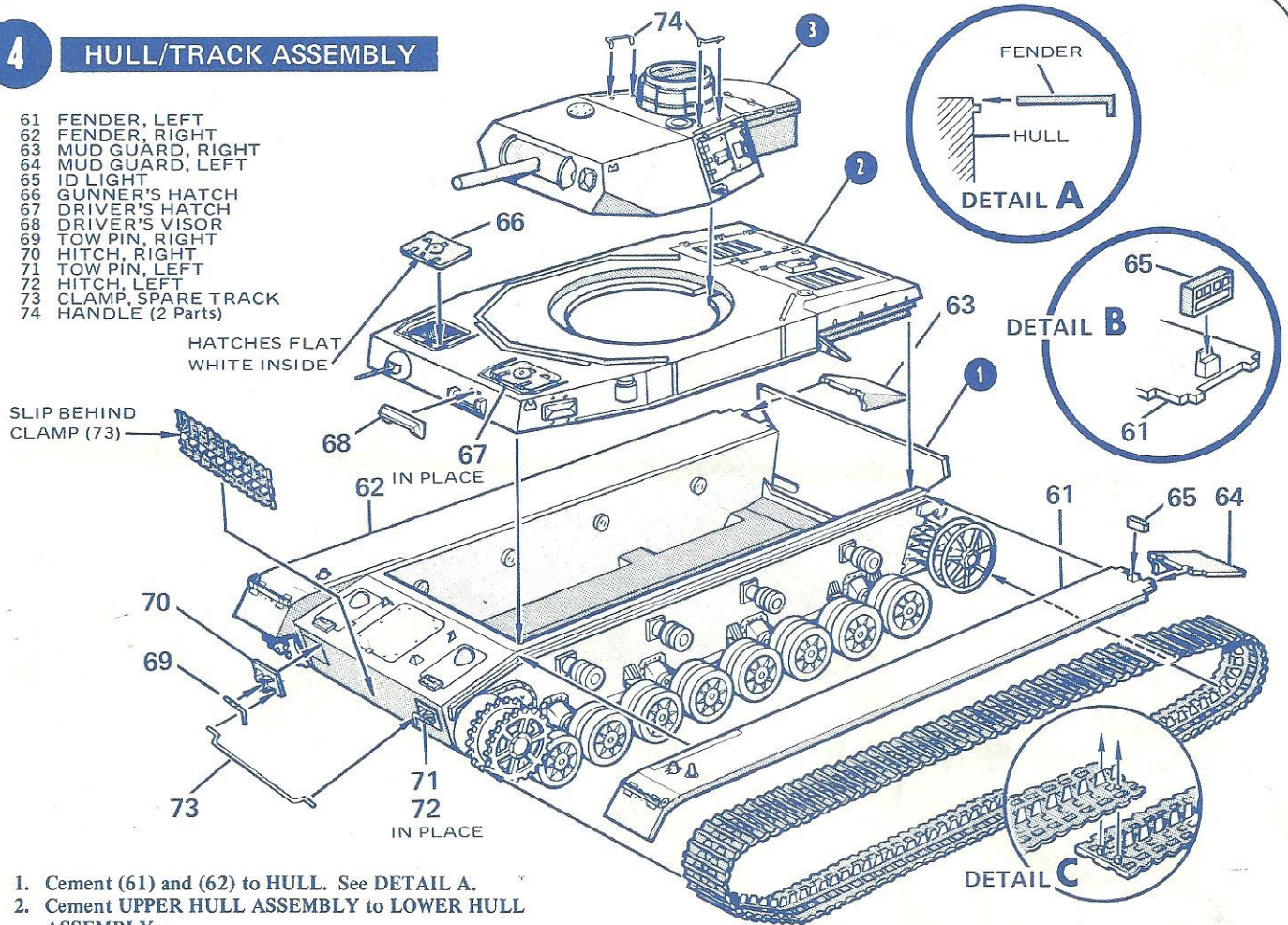


1. Cement (39), (40), (41), (42), and (43) to (44); then cement ASSEMBLY and two parts (45) to (46) as shown in DETAIL A.
2. Cement (47) and (48) to (49) in an OPEN or CLOSED POSITION.
3. Cement (49) to (50); then cement ASSEMBLY to (46).
4. Cement (51) and (52) to (46).
5. Cement (53) to (54) as shown in DETAIL B and then cement (54) and (55) to (46) in OPEN or CLOSED POSITION. Cement (56) to (46).
6. Cement (57) and (58) to (46).
7. Cement (59) to (60) and insert into TURRET. Hold in place with tape as shown in DETAIL C.

4

HULL/TRACK ASSEMBLY

- 61 FENDER, LEFT
- 62 FENDER, RIGHT
- 63 MUD GUARD, RIGHT
- 64 MUD GUARD, LEFT
- 65 ID LIGHT
- 66 GUNNER'S HATCH
- 67 DRIVER'S HATCH
- 68 DRIVER'S VISOR
- 69 TOW PIN, RIGHT
- 70 HITCH, RIGHT
- 71 TOW PIN, LEFT
- 72 HITCH, LEFT
- 73 CLAMP, SPARE TRACK
- 74 HANDLE (2 Parts)

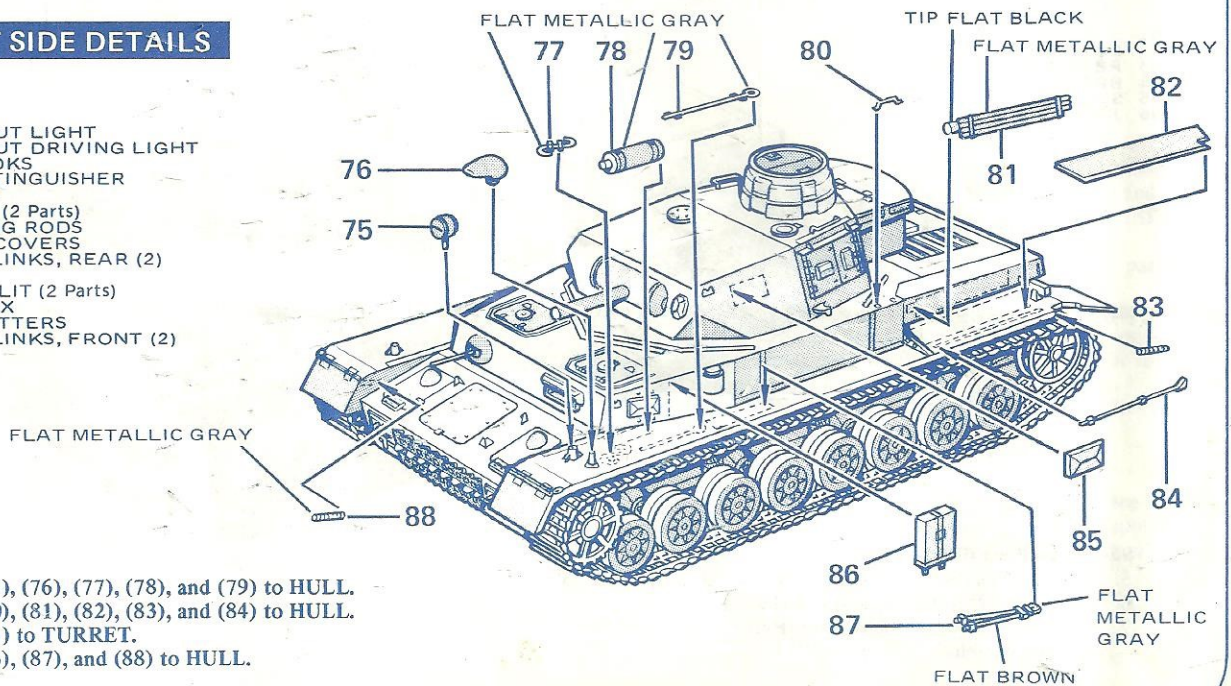


1. Cement (61) and (62) to HULL. See DETAIL A.
2. Cement UPPER HULL ASSEMBLY to LOWER HULL ASSEMBLY.
3. Cement (64) and (65) to (61) and cement (63) to (62). See DETAIL B.
4. Cement (66) and (67) to HULL in OPEN or CLOSED POSITION; then cement (68) to HULL.
5. Cement (69) to (70) and then cement (70) to HULL.
6. Cement (71) to (72) and then cement (72) to HULL.
7. Cement (73) to (70) and (72).
8. Cement two parts (74) to TURRET.
9. Loop a long TRACK STRIP around LEFT/BOGIES/IDLERS. Engage ends of TRACK STRIP and use TWEEZERS to seat parts. See DETAIL C.
10. Repeat on RIGHT SIDE with remaining long TRACK STRIP.
11. Insert and lock TURRET to HULL and slip a section of TRACK into front SPARE TRACK CLAMP.

5

LEFT SIDE DETAILS

- 75 BLACKOUT LIGHT
- 76 BLACKOUT DRIVING LIGHT
- 77 TOW HOOKS
- 78 FIRE EXTINGUISHER
- 79 WRENCH
- 80 HANDLE (2 Parts)
- 81 CLEANING RODS
- 82 INTAKE COVERS
- 83 SPRING LINKS, REAR (2)
- 84 BAR
- 85 VISION SLIT (2 Parts)
- 86 TOOL BOX
- 87 BOLT CUTTERS
- 88 SPRING LINKS, FRONT (2)

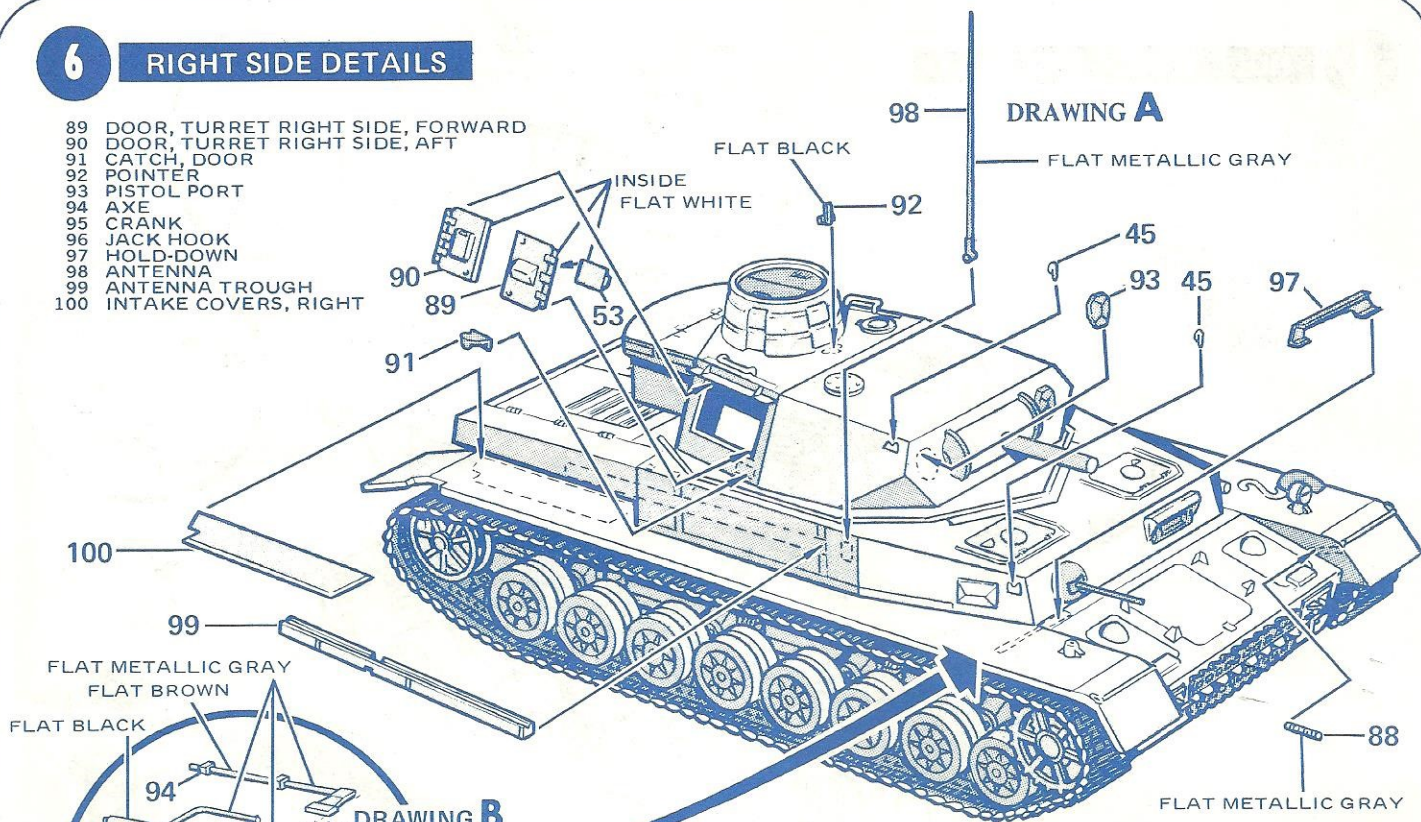


1. Cement (75), (76), (77), (78), and (79) to HULL.
2. Cement (80), (81), (82), (83), and (84) to HULL.
3. Cement (85) to TURRET.
4. Cement (86), (87), and (88) to HULL.

6

RIGHT SIDE DETAILS

- 89 DOOR, TURRET RIGHT SIDE, FORWARD
 90 DOOR, TURRET RIGHT SIDE, AFT
 91 CATCH, DOOR
 92 POINTER
 93 PISTOL PORT
 94 AXE
 95 CRANK
 96 JACK HOOK
 97 HOLD-DOWN
 98 ANTENNA
 99 ANTENNA TROUGH
 100 INTAKE COVERS, RIGHT



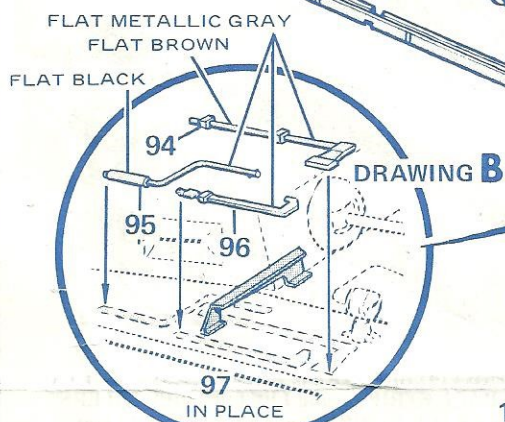
DRAWING A

SEE DRAWING A

1. Cement (53) to (89); then cement (89) and (90) to TURRET in OPEN or CLOSED POSITION.
2. Cement (45), (91), (92), and (93) to TURRET.
3. Cement (45), (98), (99), and (100) to HULL.

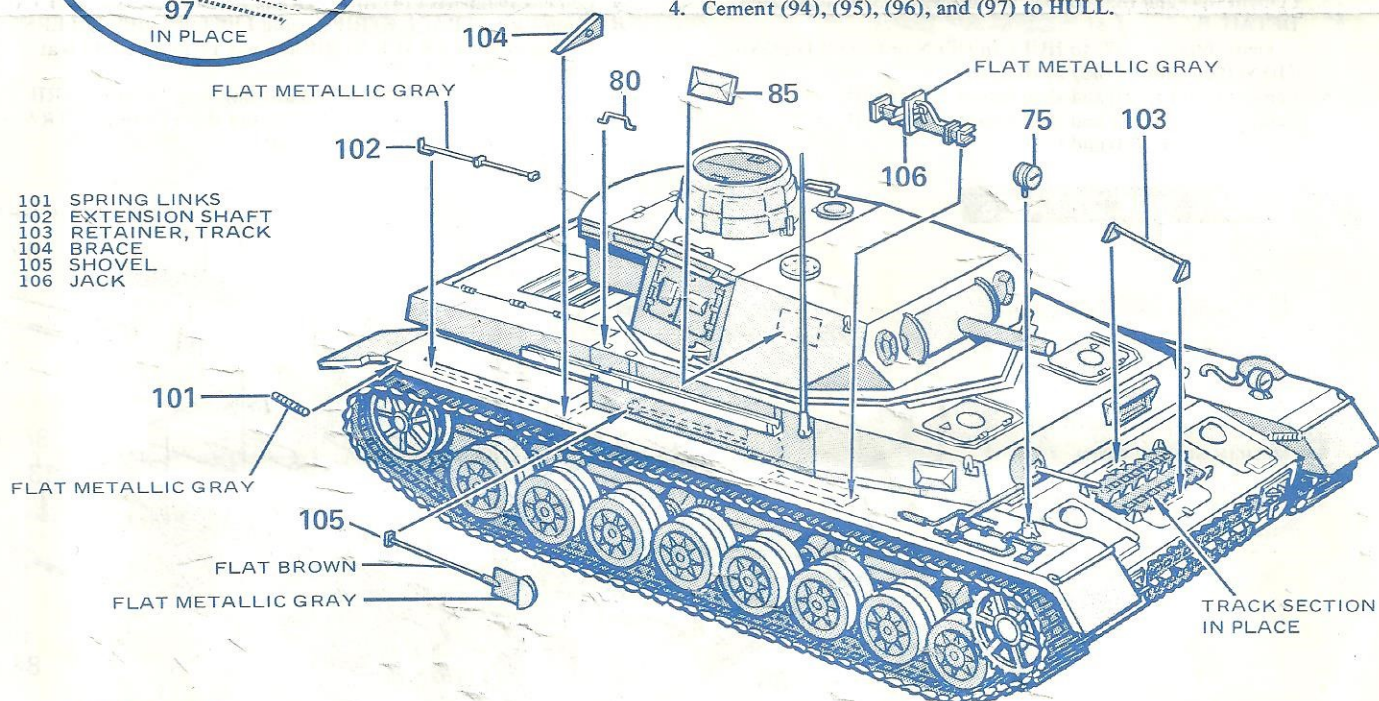
SEE DRAWING B

4. Cement (94), (95), (96), and (97) to HULL.



DRAWING B

- 101 SPRING LINKS
 102 EXTENSION SHAFT
 103 RETAINER, TRACK
 104 BRACE
 105 SHOVEL
 106 JACK



DRAWING C

SEE DRAWING C

5. Cement (75), (80), and (101) to HULL and (85) to TURRET.
6. Cement (102), (104), (105), and (106) to HULL.
7. Lay a short piece of TRACK on front of HULL and hold in place by cementing (103) to HULL.

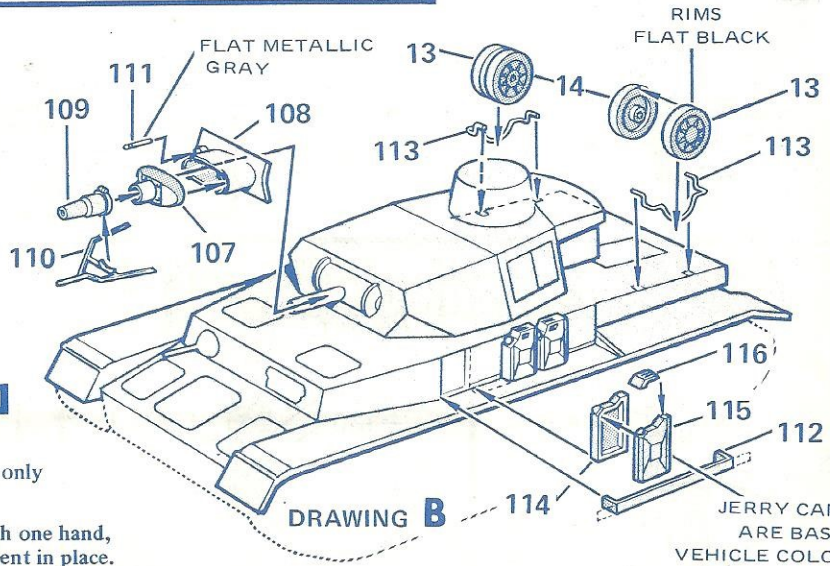
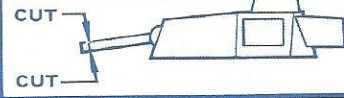
7

FINAL ASSEMBLY

DECIDE ON WHICH VERSION YOU WISH TO BUILD AND FOLLOW THE APPROPRIATE INSTRUCTIONS.

- 107 BARREL SOCKET
- 108 MANTLET
- 109 BARREL
- 110 ANTENNA DEFLECTOR
- 111 7.92mm MG34 MACHINE GUN
- 112 RACK, JERRY CANS
- 113 RACK, WHEEL
- 114 JERRY CAN, LEFT HALF (4 Parts)
- 115 JERRY CAN, RIGHT HALF (4 Parts)
- 116 HANDLE (4 Parts)

DRAWING A



F-1 VERSION

SEE DRAWING A

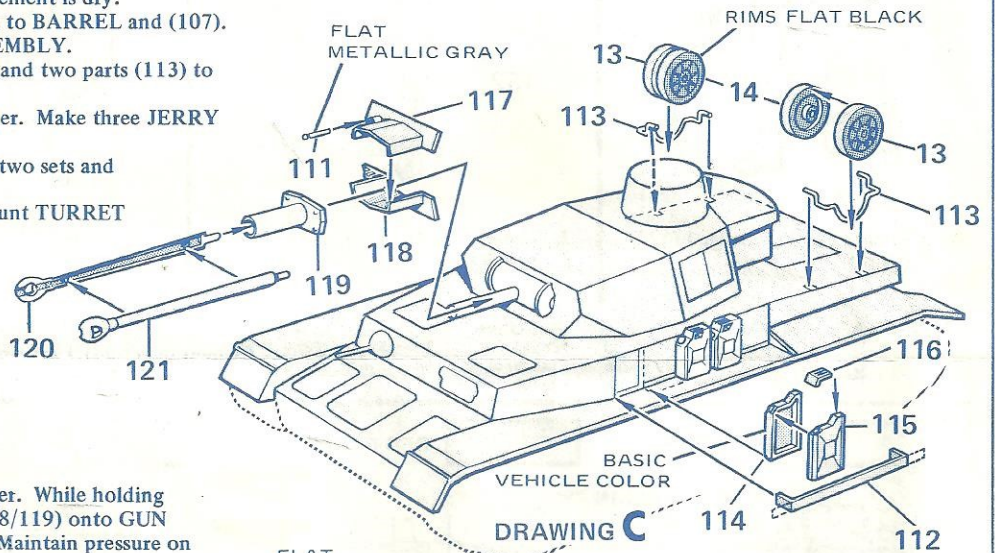
1. Remove TURRET from HULL.
2. Cut off BARREL at point indicated for F-1 version only

SEE DRAWING B

3. Cement (107) to (108). While holding BREECH with one hand, slide (107/108) onto GUN BARREL STUB and cement in place. Maintain pressure on both parts until cement is dry.
4. Slide (109) onto BARREL and cement to BARREL and (107).
5. Cement (110) and (111) to GUN ASSEMBLY.
6. After bending as shown; cement (112) and two parts (113) to HULL.
7. Cement (114), (115), and (116) together. Make three JERRY CANS and cement them to HULL.
8. Cement (13) and (14) together. Make two sets and cement them to HULL.
9. Remove TAPE from BREECH and mount TURRET to HULL.

F-2 VERSION

- 117 MANTLET, UPPER HALF
- 118 MANTLET, LOWER HALF
- 119 BARREL SOCKET
- 120 BARREL, RIGHT HALF
- 121 BARREL, LEFT HALF

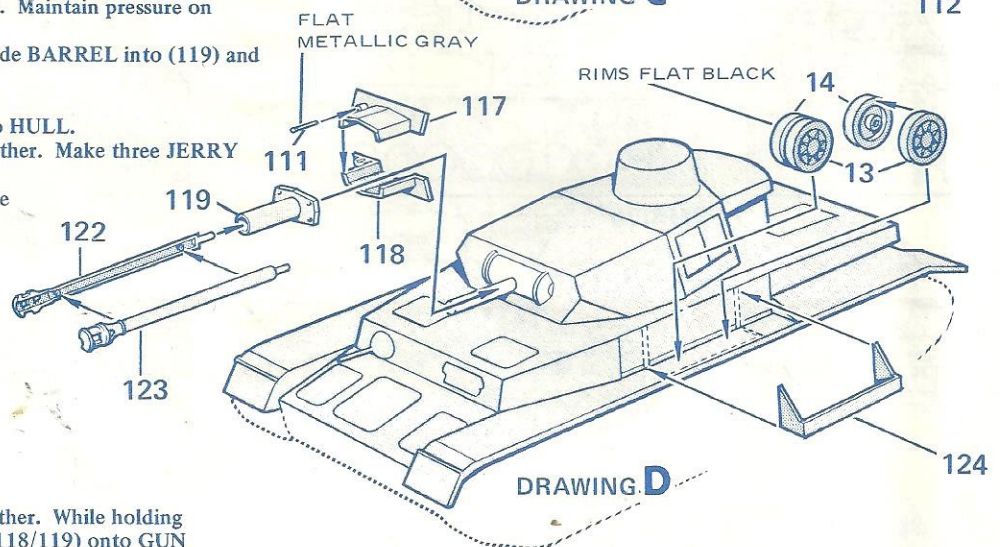


SEE DRAWING C

1. Remove TURRET from HULL.
2. Cement (117), (118), and (119) together. While holding BREECH with one hand, slide (117/118/119) onto GUN BARREL STUB and cement in place. Maintain pressure on both parts until cement is dry.
3. Cement (120) and (121) together; slide BARREL into (119) and cement in place.
4. Cement (111) to GUN ASSEMBLY.
5. Cement (112) and two parts (113) to HULL.
6. Cement (114), (115), and (116) together. Make three JERRY CANS and cement them to HULL.
7. Cement (13) and (14) together. Make two sets and cement them to HULL.
8. Remove TAPE from BREECH and mount TURRET to HULL.

G-VERSION

- 122 BARREL, RIGHT HALF
- 123 BARREL, LEFT HALF
- 124 RACK, WHEELS



SEE DRAWING D

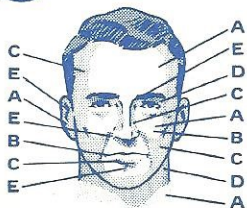
1. Remove TURRET from HULL.
2. Cement (117), (118), and (119) together. While holding BREECH with one hand, slide (117/118/119) onto GUN BARREL STUB and cement in place. Maintain pressure on both parts until cement is dry.
3. Cement (122) and (123) together; slide BARREL into (119) and cement in place.
4. Cement (111) to GUN ASSEMBLY and cement (124) to HULL.

5. Cement (13) and (14) together. Make two sets and cement them to HULL.
6. Remove TAPE from BREECH and mount TURRET to HULL.

8

FIGURES/EQUIPMENT/PAINTING/DECALS

REFER TO BOX COVER FOR AID IN PAINTING AND DECAL PLACEMENT.



FACE DETAIL PAINTING

- A - Flesh Tone
- B - Pinkish Flesh Tone
- C - Light Shadow
- D - Medium Shadow
- E - Dark Shadow

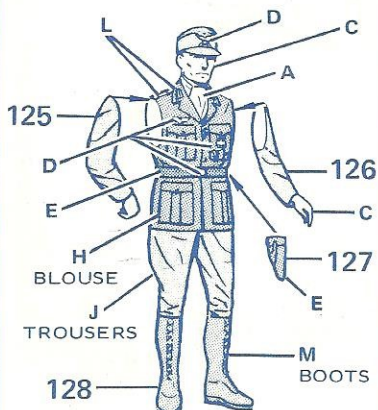
A FACE PAINTED PROPERLY COMES TO LIFE IN A MODEL. DIFFERENT FLESH TONES AND ARTIFICIAL SHADING CAN BE MIXED THROUGH EXPERIMENTATION AND ADD IMMEASURABLY TO THE REALISM OF THE FIGURES. THE DEEPER FOLDS OF CLOTHING CAN ALSO BE PAINTED IN A DARKENED VERSION OF THE CLOTHING COLOR TO GIVE DEPTH TO THE FIGURE. PAINT THE FIGURES FLESH PARTS FIRST, THEN CLOTHING, INSIGNIA, BOOTS, STRAPS, BUCKLES, ETC. PAINT BASIC FIGURE BEFORE ADDING EQUIPMENT.

- 125 ARM, RIGHT
- 126 ARM, LEFT
- 127 PISTOL HOLSTER
- 128 HEAD/TORSO/LEGS
- 129 ARM, RIGHT

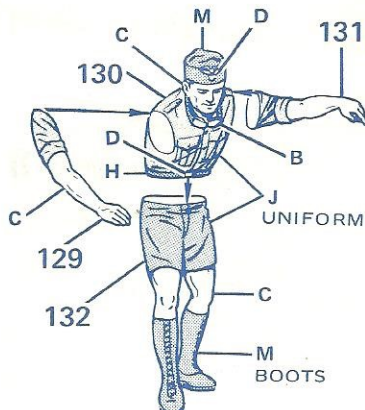
- 130 HEAD/TORSO
- 131 ARM, LEFT
- 132 LEGS
- 133 ARM, RIGHT
- 134 HELMET

- 135 ARM, LEFT
- 136 HEAD/TORSO/LEGS
- 137 SCHMEISSER MP-40
- 138 CANTEEN/CUP
- 139 GAS MASK CANNISTER

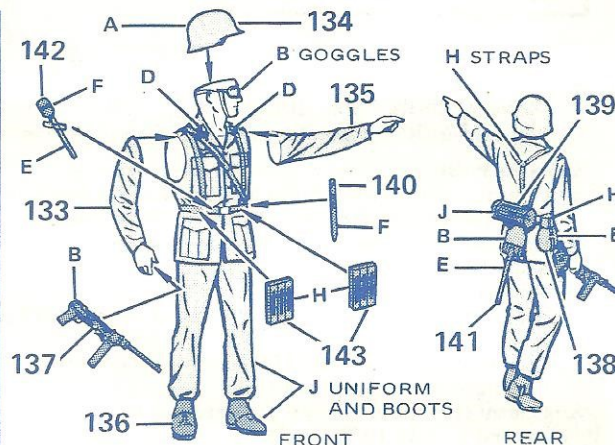
- 140 BAYONET/FROG
- 141 SHOVEL
- 142 STICK GRENADE
- 143 SCHMEISSER POUCH (2 Parts)



1. Cement (125), (126), and (127) to (128).



2. Cement (129), (130), and (131) to (132).



3. Cement (133), (134), and (135) to (136).
4. Cement (137), (138), (139), (140), (141), (142), and two parts (143) to FIGURE.

- COLORS**
- A - Flat White
 - B - Flat Metallic Gray
 - C - Flesh
 - D - Silver

- H - Flat Olive
- J - Khaki
- E - Flat Brown
- F - Flat Black
- K - Light Blue
- L - Silver (Pink Piping)
- M - Light Olive

Desert Troops (Afrika Korps) uniforms bleached out to a flat light khaki from their original olive green color. Uniform can also be dirty off-white, including helmet.



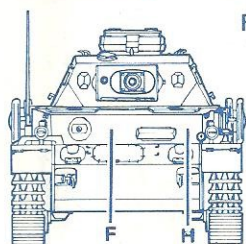
DARK GREEN



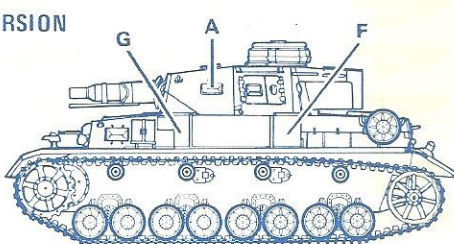
RED BROWN



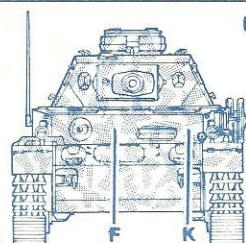
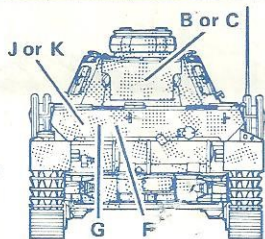
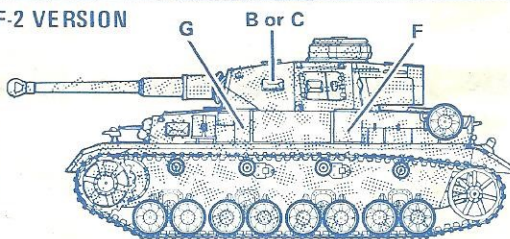
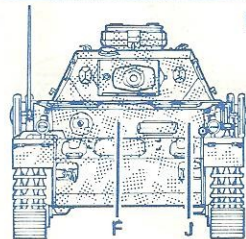
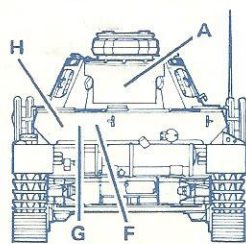
MOLDED COLOR



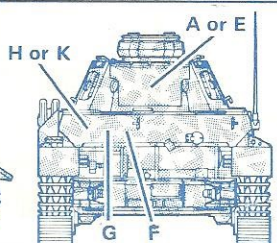
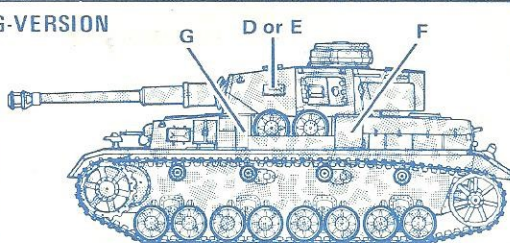
F-1 VERSION



F-2 VERSION



G-VERSION



A 413	B 7♠
C 444	D 408
E 823	F AFRIKA KORPS
G + NATIONAL INSIGNIA	
H ▲▲ PANZER DIVISION 15 NORTH AFRICA	
J Y... Y... PANZER DIVISION 10 NORTH AFRICA	
K D D PANZER DIVISION 21 NORTH AFRICA	