

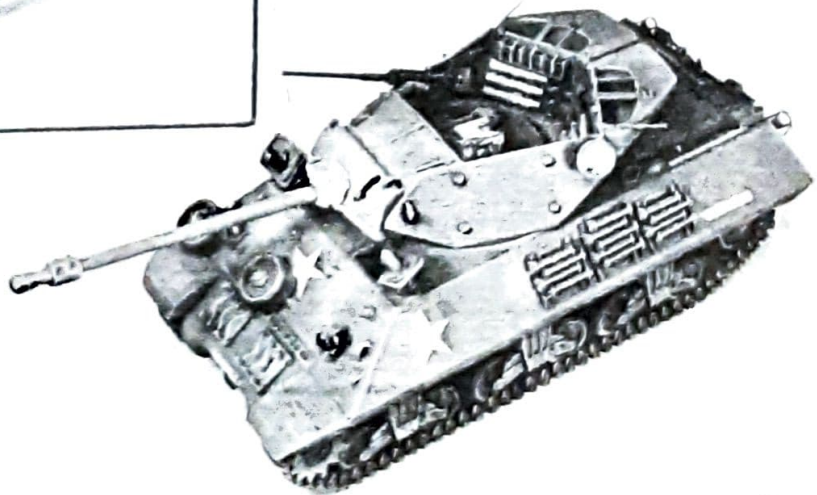
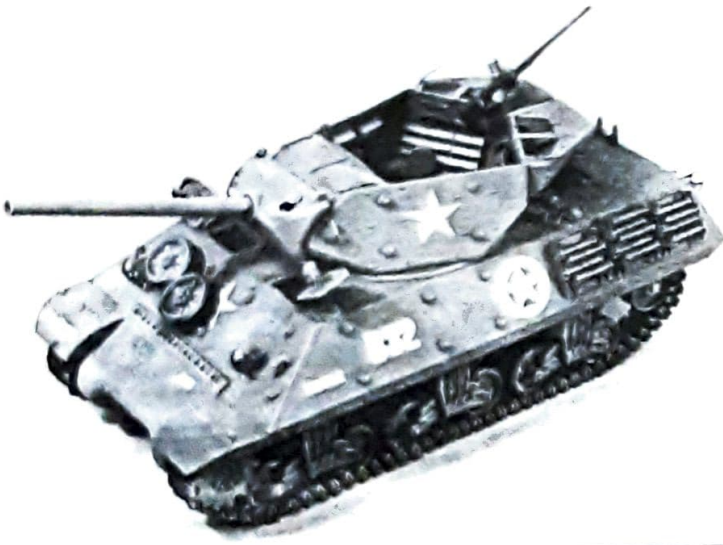


**ccurate  
rmour**

1:35th SCALE MODEL

**K25, K26, K26B, K27**

**M10 & ACHILLES**



**EASY TO CONSTRUCT MODEL  
EXTENSIVE INTERIOR DETAIL  
2 OPENING HATCHES  
ETCHED BRASS DETAIL FRET  
DECAL SET  
FULL SUSPENSION + STOWAGE  
0.50 Cal MACHINE GUN**

# GENERAL INSTRUCTIONS

## SAFETY

As with any plastic model kit, do not expose the completed model or the component parts to extreme heat or naked flames.

When sanding or cutting parts, ensure to minimise the generation of dust particles by wetting the surface, if this is not possible use a good quality face mask.

**AFTER A SANDING OPERATION WASH YOUR HANDS**

For bonding parts use cyano-acrylate "Super-glue" after the parts have been tested for fit. Follow the safety instructions on the tube, and use only in a well ventilated room.

This product contains small sharp parts, keep all parts, tools and materials out of the reach of children and pets.

## TOOLS

Essential tools are sharp scalpels, razor saw, needle files, 'wet-or-dry' paper, grades 100, 300, 500, tweezers and flat nosed pliers.

For locating some small parts, and for drilling out lifting lugs etc., a selection of twist drills from 0.5 mm to 5 mm is recommended

## GENERAL PROCEDURE

1. Check the parts against the parts listing and assembly diagrams, study the drawings and read the suggested assembly procedure. Multi-media kits build differently from injection moulded kits, however the technique is straightforward once practised.

2. The best way to remove parts from the casting spru is by using a razor saw, or for very large parts use a small fret saw or junior hacksaw. Excess plastic should be carved away using a very sharp scalpel or craft knife. Very large sprus can be removed by scribing and 'snapping' them away from the parts, (this saves a lot of sawing).

3. Parts should be 'dry-fitted' first, if however you want to try different positions the parts can be lightly bonded with 'tube' polystyrene cement to see how they look. To bond with super glue, place the parts together THEN apply a *TINY* quantity of glue (using a wire or old blade) to the side of the gap between the parts, the glue will be drawn into the gap.

4. If any parts are bent or warped, they can easily be modified by gentle bending in *VERY HOT* water, or under *GENTLE* heating from a hair dryer. Once at the correct shape cool the part quickly to set the shape.

5. Due to the hand casting process bubbles may be present in some resin parts, if present they should be filled with a good quality epoxy filler, such as 'Milliput'. Carefully sand as described previously. Very small bubbles which sometimes appear at the tips of cast detail can be filled by applying a tiny amount of super-glue from a length of wire, the glue will be drawn into the hole which will fill up.

6. Resin parts should be washed in warm soapy water prior to painting to remove mould release agents, metal parts may be polished or primed before painting.

## ASSEMBLY SEQUENCE

1. These instructions cover 4 kits, all kits build in the same way and differ only in equipment stowage and gun mountings, instructions for the decal sets are provided on a separate sheet. First decide which production batch the vehicle is to come from -

**Early:** Bolt studs on all the castings (build as supplied)

**Mid:** Remove all the side hull bolt studs, sand away until smooth.

**Late:** As for the Mid vehicles but also remove all 8 turret studs.

*Never remove the hull front studs, they were fitted to all vehicles.*

2. Make sure that the upper and lower hull parts fit, and that the turret ring base fits the upper hull.

The model should be built as 4 sub-assemblies as follows:-

### 2a. Gun mounting. (paint when finished)

Assemble as per the diagrams, on 17pdr models the breech can be fitted open or closed.

### 2b. Turret

Handle the turret with care as it is fragile, first bond the internal stowage items to the turret walls. Ensure that you know which version you are building, there are 3 main types of stowage, the two odd ones (as usual!) are British, the stowage for K25 & K26 are the same.

When complete fit the turret ring and fill and sand any gaps add the turret ring seats (raised or down). Now fit the gun mantlet and gun at the desired angle. Add the internal gun mounting and match the angle of this to the angle of the gun before bonding. Now add all external fittings to the turret.

### 2c Lower hull (part paint when finished)

Fit the driver & co-drivers seats at the desired heights, followed by the transmission, shaft end unit, and hull floor. All drivers controls and internal stowage can now be added, along with radio and ammunition. Check the fit of the upper hull again with the ammo racks in place. In US vehicles the 5 canteens (A3) are stowed on the lower left hull wall...the pads on the model are a little small! In K27 the spare 0.50 Cal barrel (67) is stowed behind the co-drivers seat.

Assemble all the suspension units into 6 sets with wheels in place and top skids fitted, firmly bond these to the lower hull, add the sprockets and idler, check that the idler is in line with the road wheels.

Join the track into two lengths of 3 sections and form over the top of the suspension units and around the sprocket, bond each bend as you proceed, heating the track if required. Cut sections for the final fit and join underneath the road wheels. Add the exhaust cowl.

### 2d Upper hull (part paint when finished)

The upper hull only requires the engine detail to be fitted before bonding to the lower hull. After bonding fill around the front cast housing and sand when the filler is dry. All detail can now be added to the hull, the stowage details are different for US Army and British Army vehicles. For British vehicles 2 sets of 3 track links need to be cut out and fitted to the spare track carriers (B11) on the hull front casting.

3. The Grouser frames should be assembled on the bench, both sides are identical, on early vehicles they are fitted to the extra armour studs on the hull sides, on later vehicles they are welded directly to the hull. To fit to the studs carefully cut the top disc from the 3 pairs of rearmost studs and keep the discs (extra complete studs are provided in case of accidents!), bond the frame to the cut down studs, and replace the discs. The holes in the frame should line up with the pattern of studs. The grousers should be added last in a staggered pattern of 13 per frame.

## WORKING WITH ETCHED BRASS

Etched brass parts are included in our kits to enhance the overall appearance of the model, for those not familiar with this material the following guidelines will help. We only use etched brass where resin/metal castings would not work out, and for mesh grilles, exhaust covers etc. **there is nothing better.**

**In general etched fittings should be added to the model last so as to avoid damage.**

1. Identify the individual brass parts on the fret using the assembly diagrams and the description on the parts list.

All etched brass parts are prefixed by 'E', for some small parts spares are provided.

2. Place the brass fret on a HARD cutting surface such as a cutting mat or a sheet of styrene/plastikard, cut the half-etched tabs around the part with a very sharp knife.

(Half etching is the area indented into the sheet, and should always face you when cutting).

The tabs should be cut flush with the part, leaving the rest of the tab on the fret.

3. Lightly sand the cut line, and the edge of the part with very fine emery paper or wet-or-dry.

Using the assembly diagrams, and the completed kit as guides, visualise what the folded part must look like before starting....this is important !

4. All right-angled folds are made using half-etched fold lines as guides, folds are made so that the etched line is INSIDE the fold and thus hidden from view.

5. Long fold lines should be made using a straight-edge i.e.:- two pieces of metal in a vice or the edge of a metal ruler, try not to bend the part more than once or twice since each flexing weakens the part a little.

6. Very small parts can be folded using tweezers, for bends which are not right-angles just take time. For curved parts there is no easy answer, just roll the part over a parallel rod until the correct curvature is reached.

7. Etched brass parts may need priming before the final coat of paint is added.

### EXTRA NOTES FOR K25-K27 M10/ACHILLES KITS

E1	Grouser frame	2	E8	Sight vane (UK)	1
E2	Grouser rail (large)	4	E9	Sight vane bar (UK)	1
E3	Grouser rail (small)	8	E10	Cover support (large)	6
E4	Headlight guard	2	E11	Cover support (small)	4
E5	Tail light guard	2	E12	0.50 cal handle	1
E6	Deck hatch latch	3	E13	Stowage strap	6
E7	Front step	1	E14	Periscope guard	3

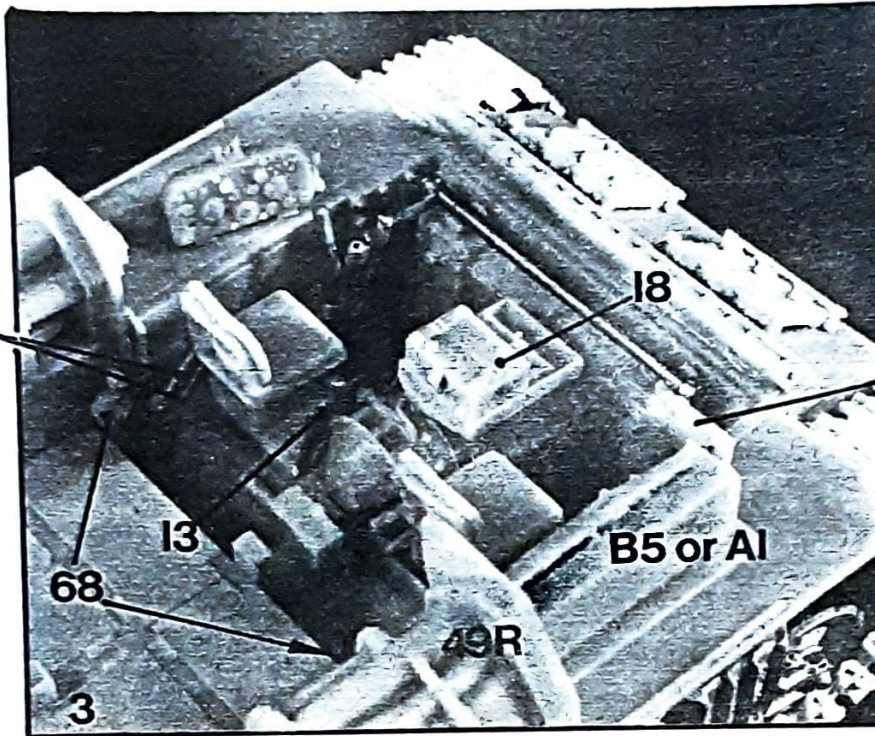
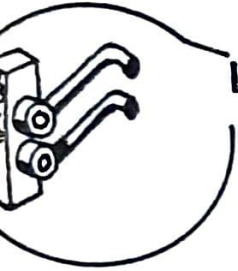
Some spares are provided for small parts or parts which may be lost easily after the model is complete.....pets, children & inquisitive visitors all take their toll!

a/ Form the light guards over a 4-5mm rod, bond the lower pair of 'legs' to the hull first, and when set move the side stays into position and bond to the hull.

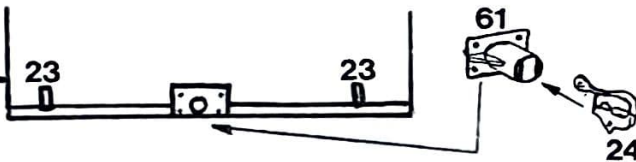
b/ The periscope guards (E14) are often missing from service vehicles.

# LOWER HULL & DRIVERS AREA

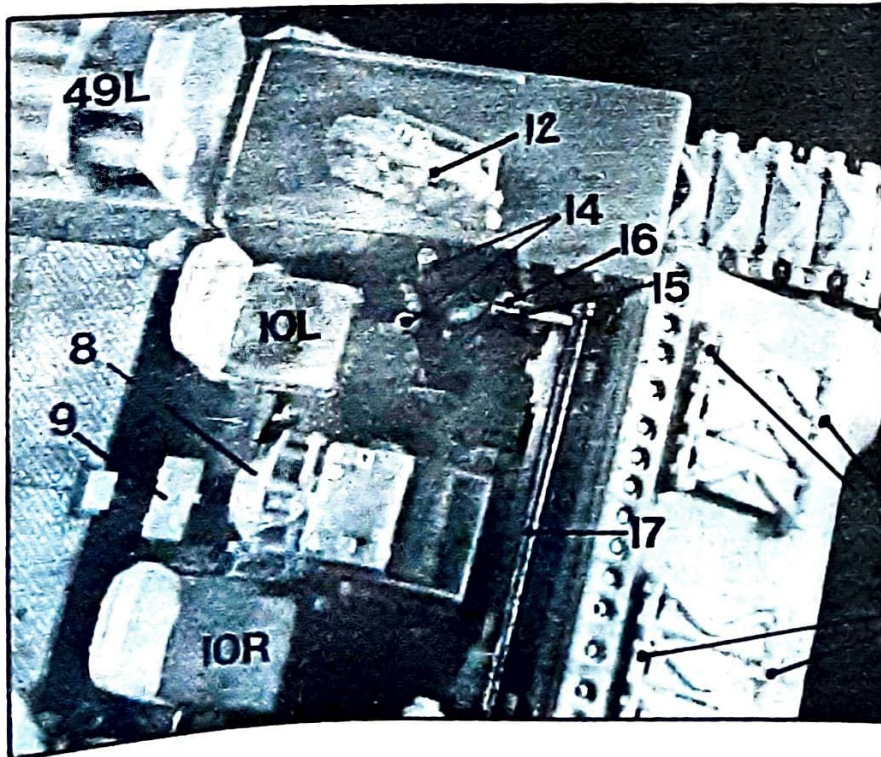
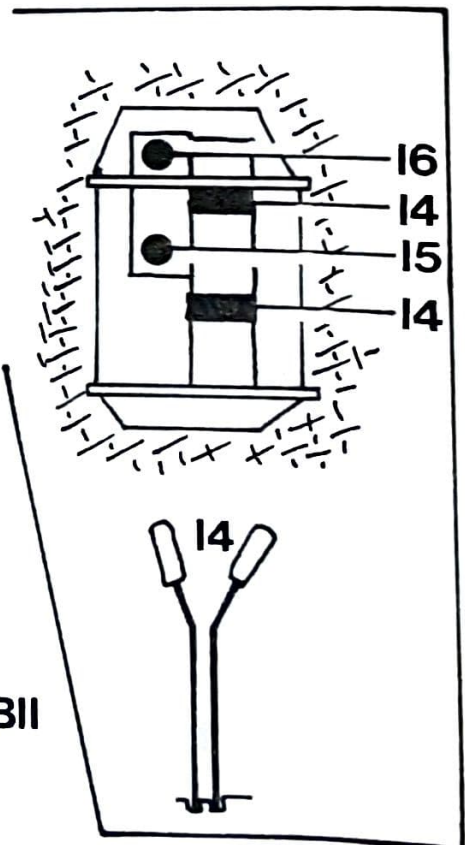
SEAT  
SUPPORTS

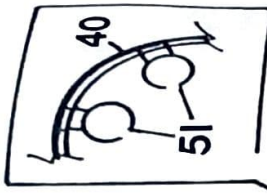
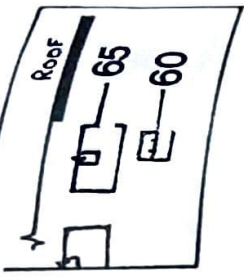
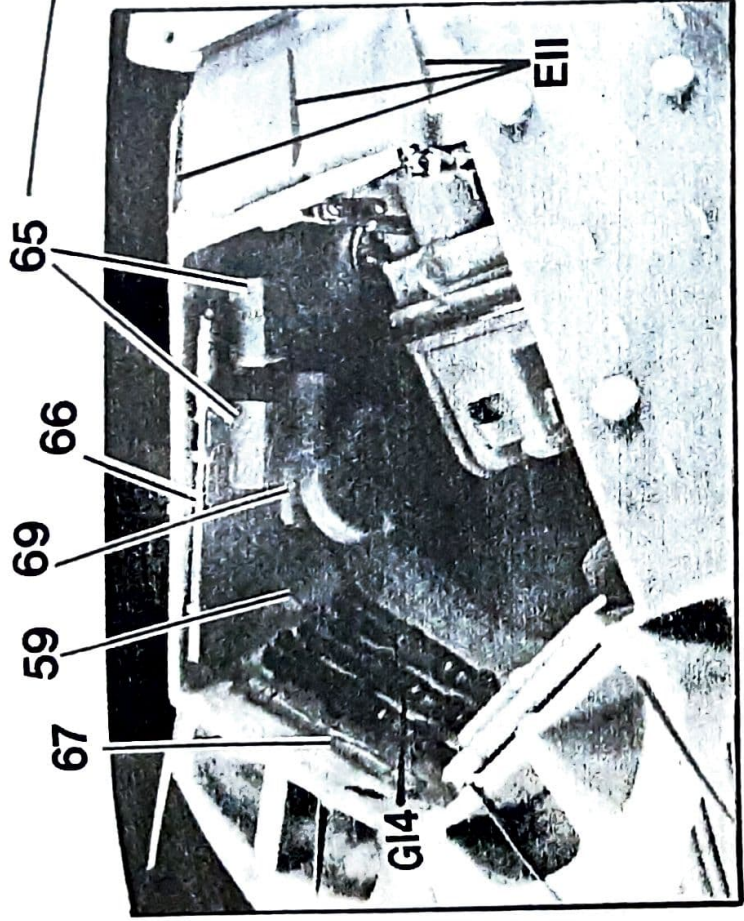


HULL LOWER  
REAR

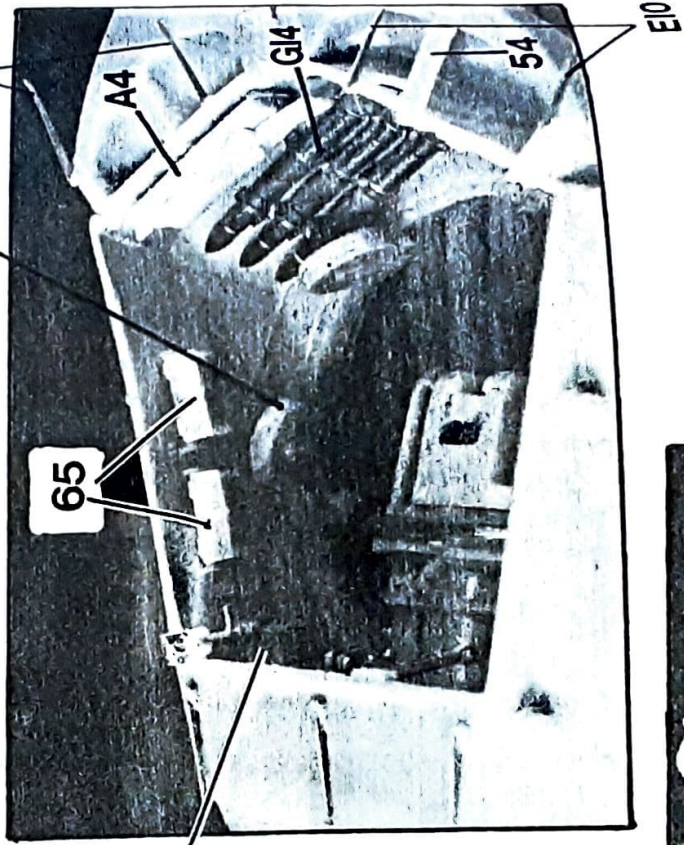


DRIVERS CONTROLS

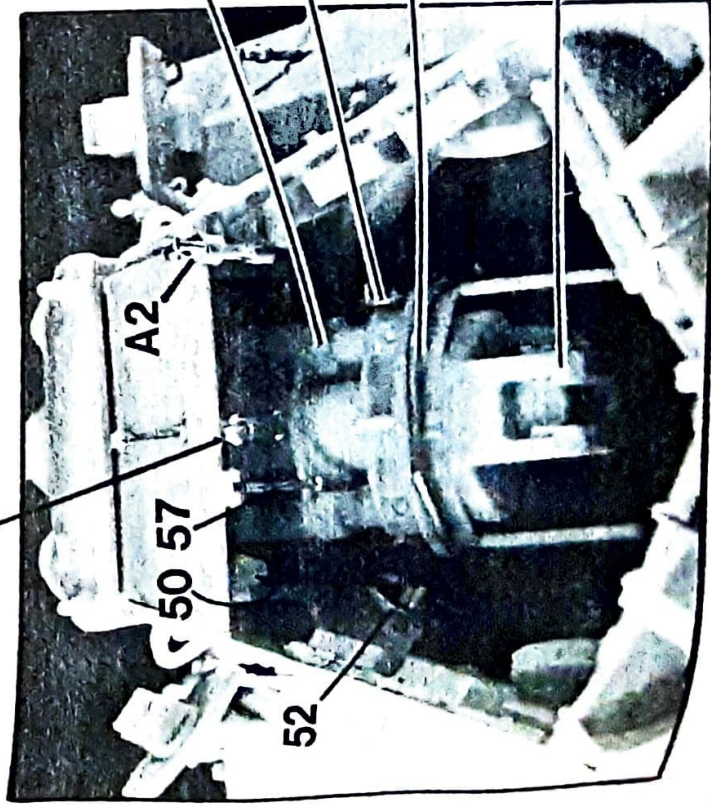
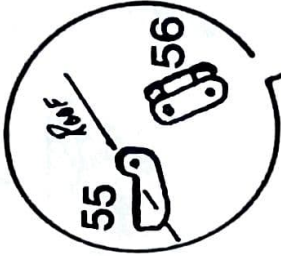




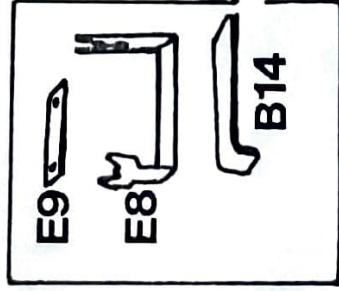
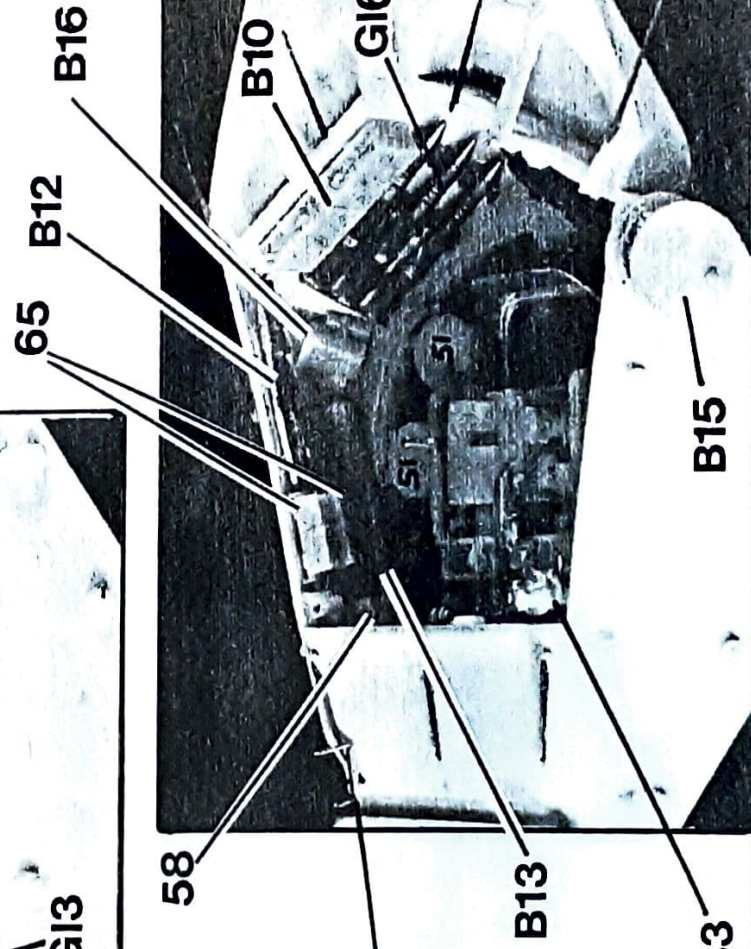
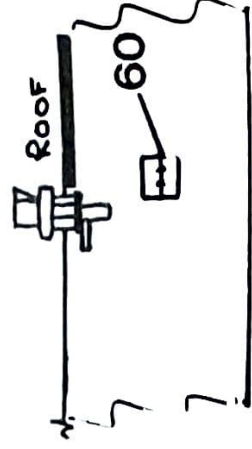
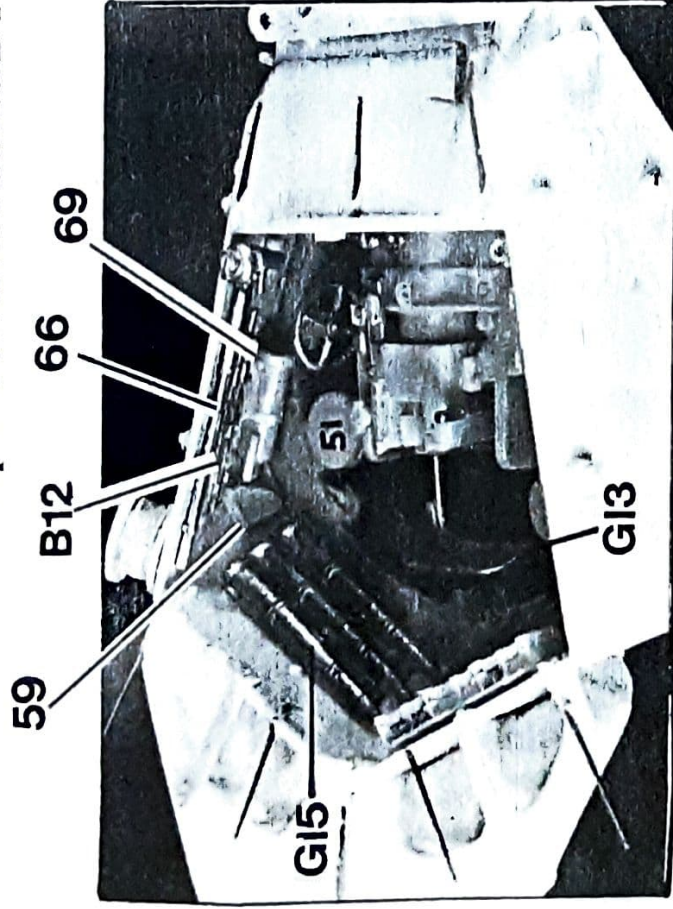
U.S. ARMY LAYOUT  
K25 & K26



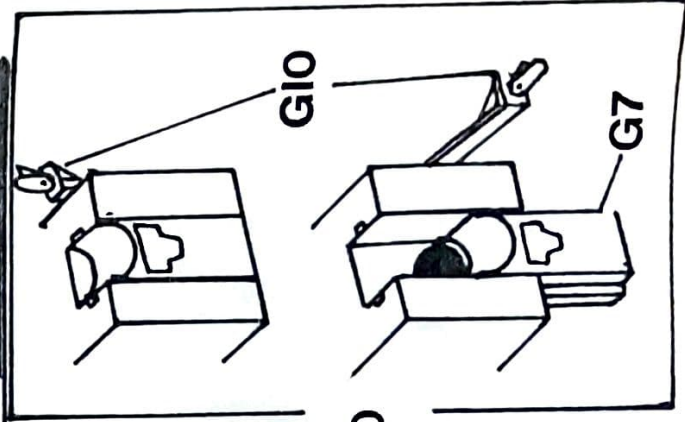
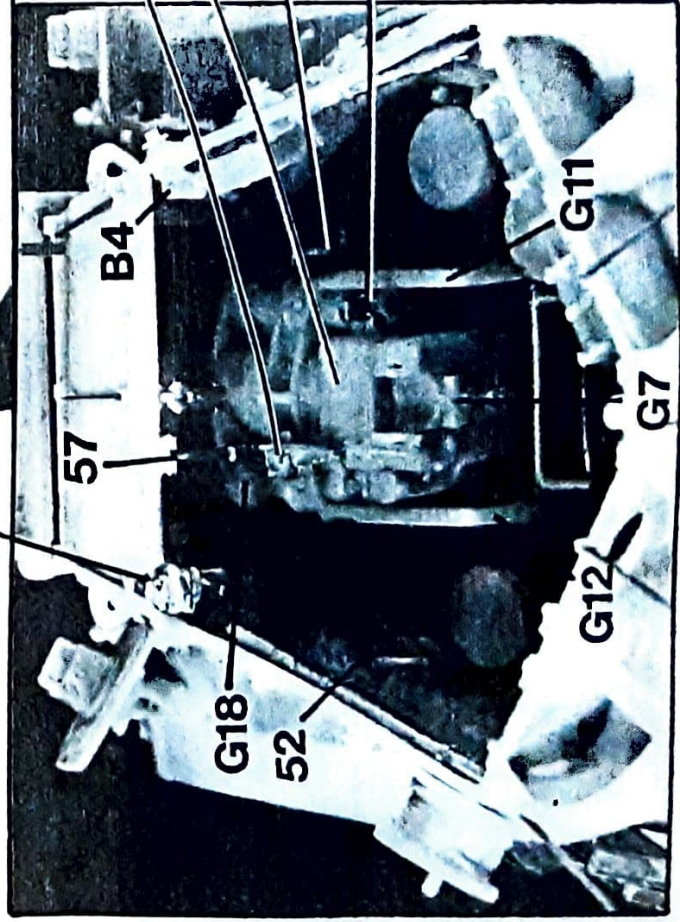
All kits



# K27 17pdr GUN IN DUCKBILL TURRET



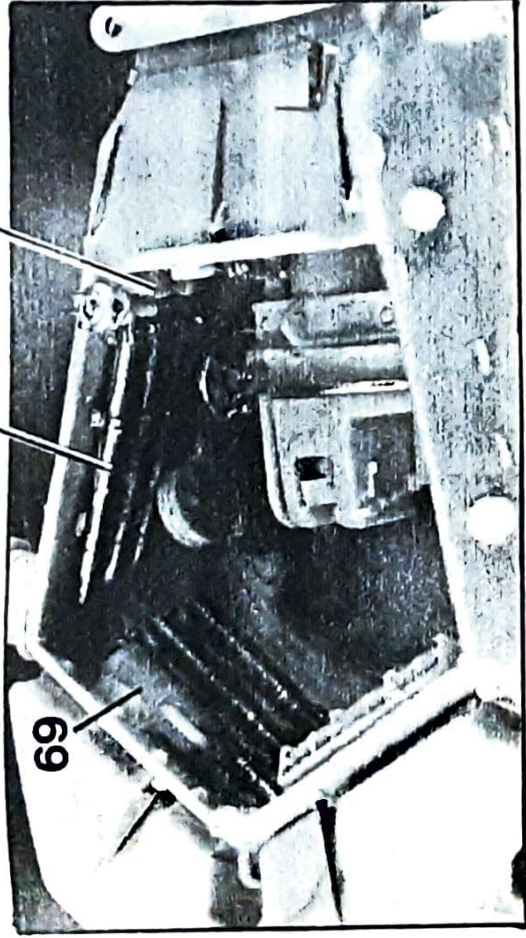
GUN SIGHT



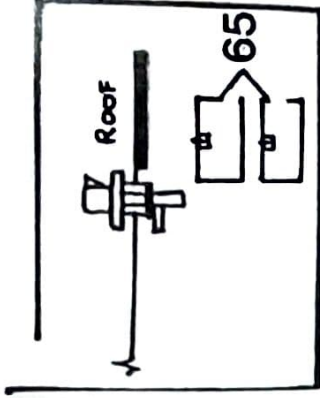
K26B 3" GUN IN 'V' TURRET (BRITISH)

2x65 (UNDER ROOF)

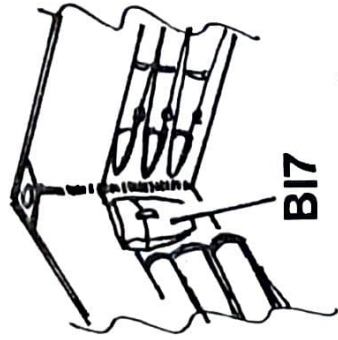
B2



69

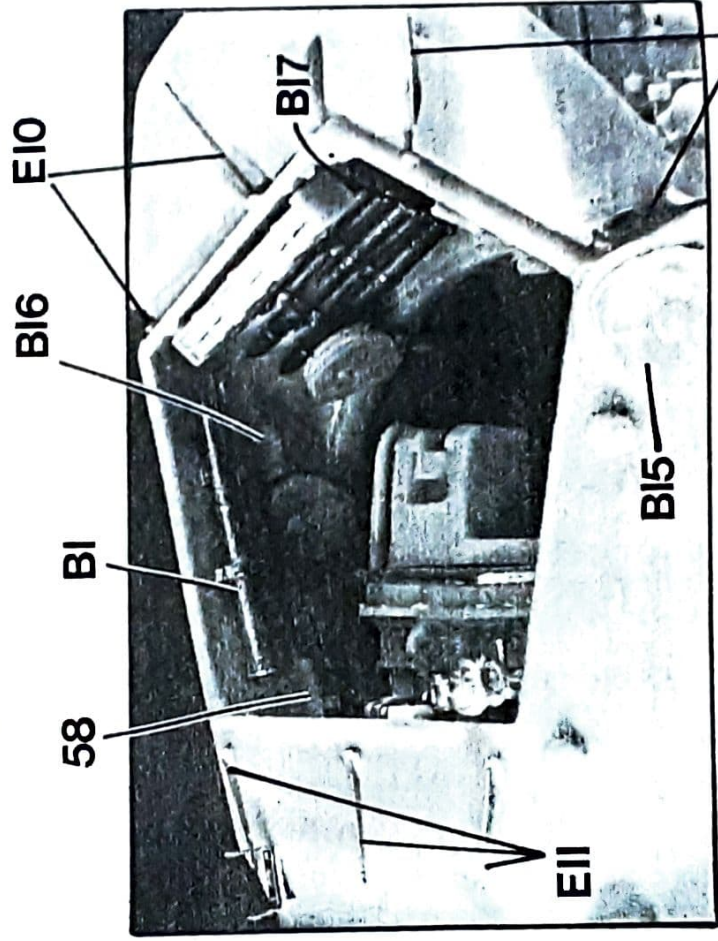


65



B17

K26B only



58

B1

B16

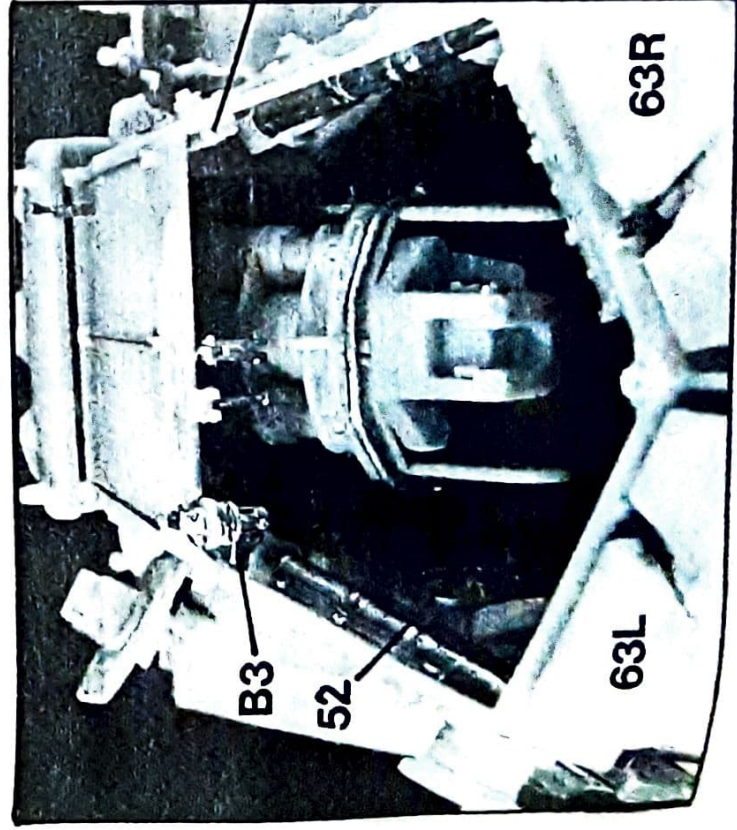
E10

B17

B15

E11

E10

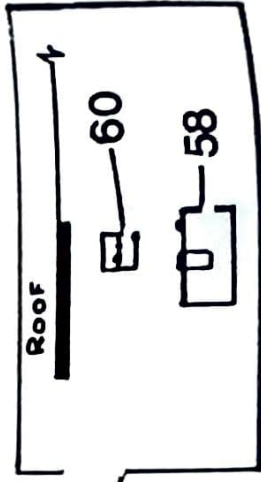


B3

52

63L

63R



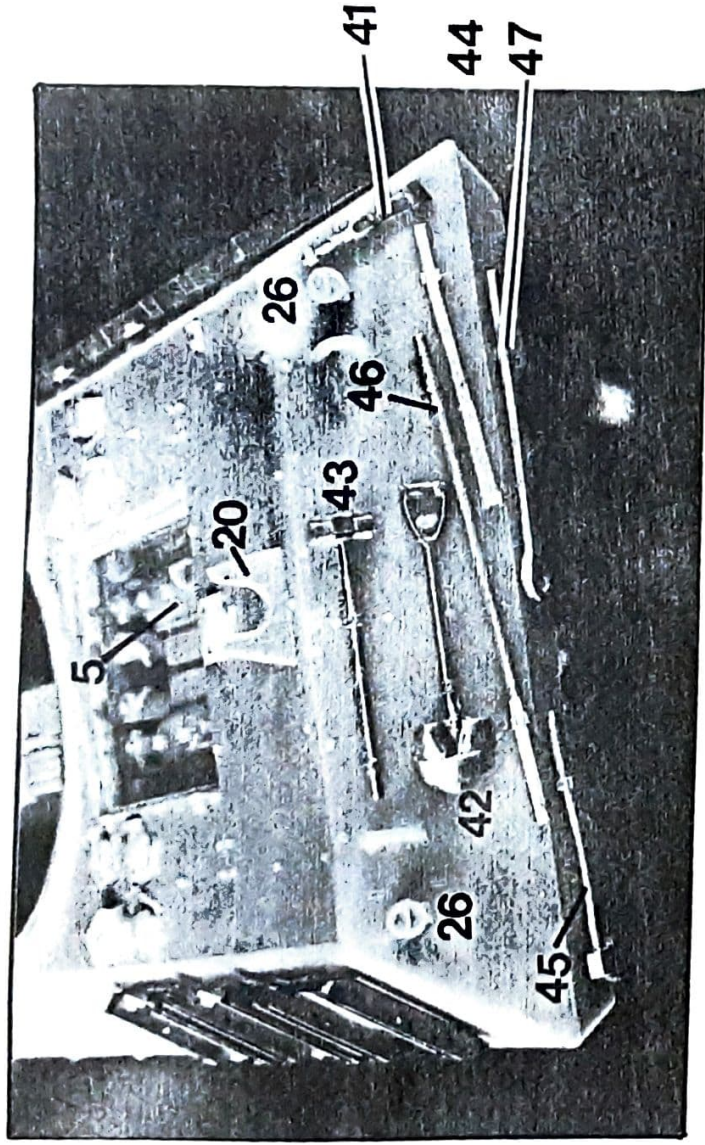
Roof

60

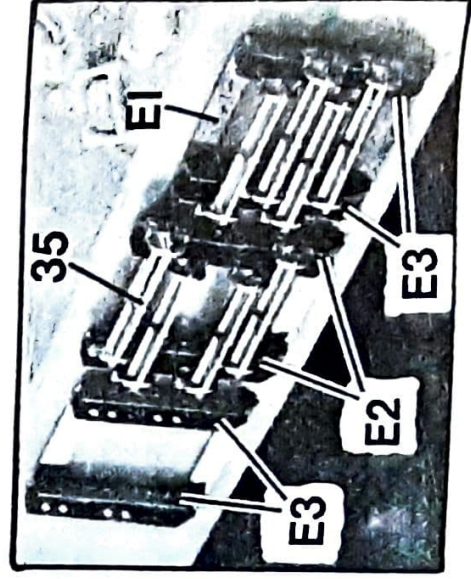
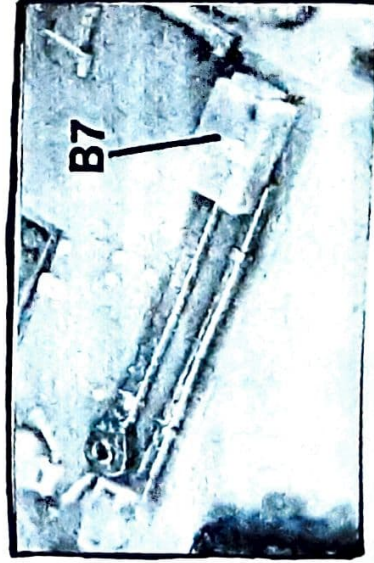
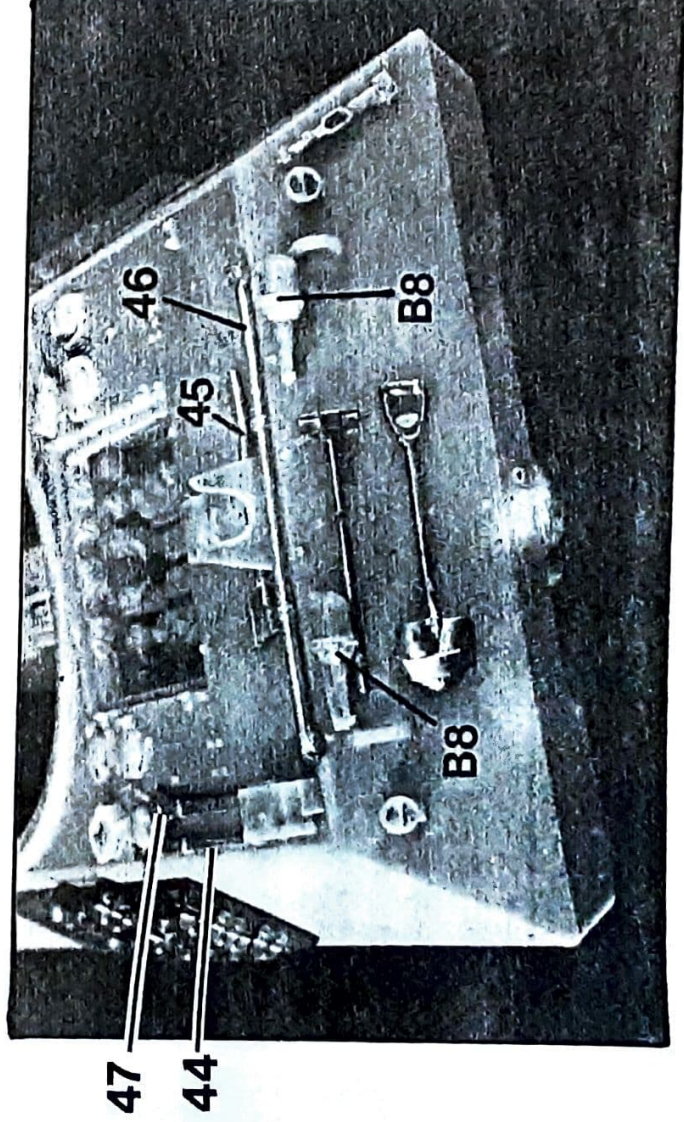
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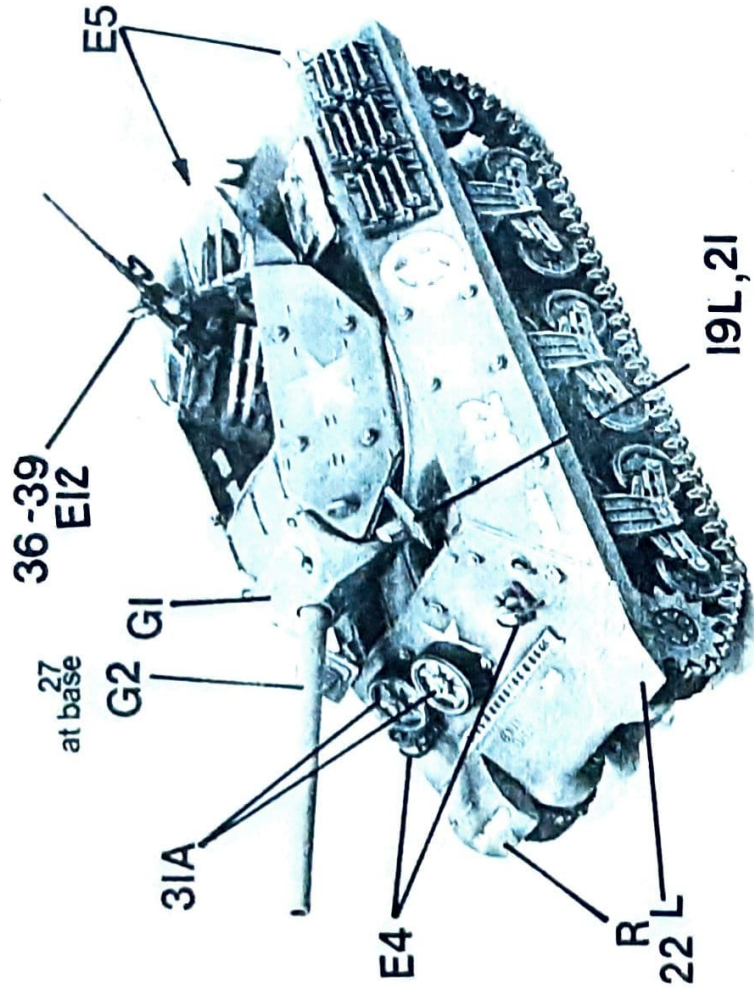


U.S. ARMY TOOL STOWAGE

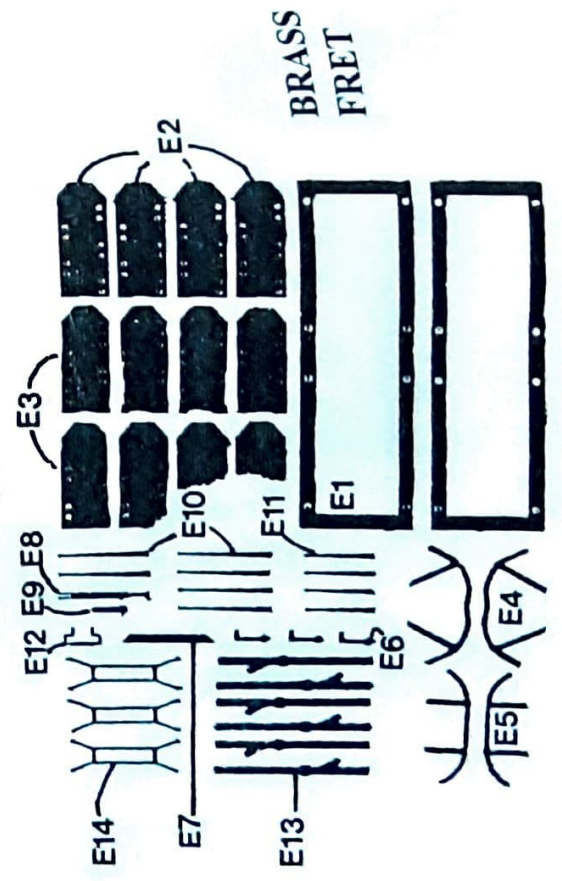
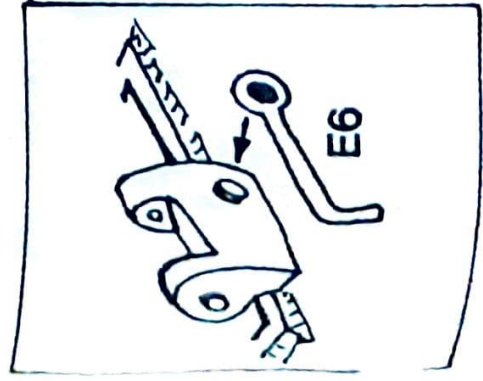
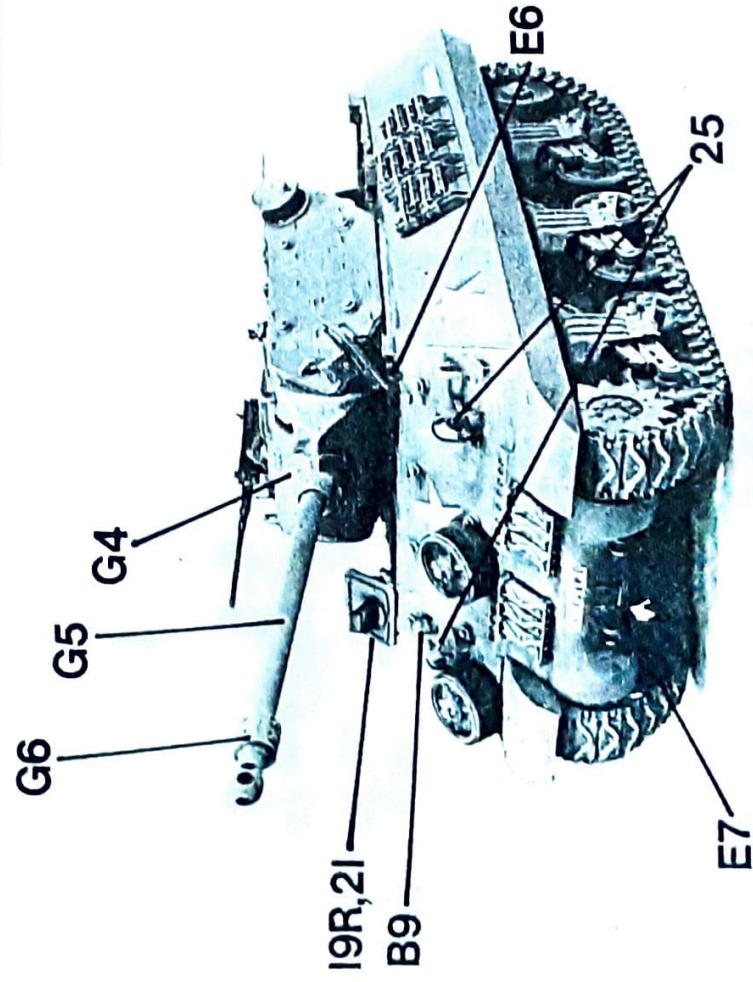


BRITISH ARMY TOOL STOWAGE





GENERAL LAYOUT



## M10 EXTRA NOTES

### THE MODEL

This product is not one model, but a series of models which allow 4 principle M10 types to be made (2 with 'v' turrets, and 2 with 'duckbill' turrets) We have chosen to make both American types, and two out of 4 possible British types. Each type can be made as early middle or late production (with some limitations).

The two remaining types; a late British M10 'duckbill turret', and an Achilles 1C 'v' turret are available from us on special order. Codes are K25B, and K27V respectively. Similarly we will provide different tracks to those specified, if you wish, provided you choose before you order the model.

We believe that (contrary to most of the published references), all 3" gun tank destroyers supplied to the UK during WW-II were 3" G.M.C. M10 with twin diesel engines. They were designated Mk-1 ('v' turret) or Mk-II ('duckbill' turret). Later the vehicles were renamed Achilles I or II, and when fitted with the 17pdr gun these became Achilles Ic and IIc. However the vehicles continued to be known in service as M10 (or M10 17pdr). The Achilles Ic is a very rare machine, with only one preserved example in existence to our knowledge. The M10A1 was not used by the UK, and even the U.S.Army used very few, most were destined to become the 90mm G.M.C. M36. We can find no original reference to the name '*Wolverine*'.

If any of our customers can help to explain the names, designations etc, and how they were applied we would be pleased to hear from you.

### PARTS NOT USED IN CERTAIN KITS

K25	62,63, All 'B' parts, E8, E9	U.S.ARMY	GUN
K26	54, All 'B' parts, E8, E9	U.S.ARMY	3" GUN
K26B	65*2, 54, 66, B12*2, B13, All 'A' parts	BRITISH ARMY	3" GUN
K27	62,63,65*2, B1,B2,B17, All 'A' parts	BRITISH ARMY	17pdr MkV

Periscope guards (E14), and stowage straps (E13), are provided for use as required. Note that many vehicles had a different arrangement of stowage, seats etc. On many vehicles there is a rod step (brass rod included) between the bottom pair of hull front stud bolts (hidden by our spare wheels in picture!).

### PAINTING

U.S.ARMY vehicles are painted standard Olive Drab, British vehicles are painted Khaki Drab. 3" ammo is brass cased with Olive Drab shells, 17pdr ammo is brass cased with black shells, with white/red/white bands.

### RESEARCH & MASTER MODEL

These important models have been quite a major project for us and as usual we would like to thank a number of people and organisations for their help and assistance. In particular Bob Fleming of AF Budge Military, David Fletcher & the RAC Tank Museum, Bob Lockie, Peter Brown, Paul Middleton, Reid Gwillim, Jon Bottomley, Phil Hendry. The Patton Museum, and Guy Franz Arend of the Victory Memorial Museum.

The master models were produced by Derek Hansen, with additional work by Bob Lockie. Etched brass details are via PP Models.

**M10/ACHILLES**

**KITS K25,26,26B,27**

**PLASTIC/METAL PARTS**

**PLASTIC/METAL PARTS**

1	UPPER HULL	1	57	ELEVATING SCREW	1m
2	LOWER HULL	1	58	PERISCOPE HEAD BOX	1
3	HULL FLOOR	1	59	QUADRANT CASE	1
4	HULL EXHAUST	1	60	CLINOMETER CASE	1
5	ENGINE TOP DETAIL	1	61	REAR TOWING PINTLE MOUNT	1
6	ENGINE HATCH L & R	2	62	EARLY COUNTERWEIGHT	2
7	TURRET (EARLY OR LATE)	1	63	LATE COUNTERWEIGHT (L&R)	2
8	TRANSMISSION UNIT	1	64	SPARE HULL ARMOUR BOLT	10
9	DRIVE SHAFT END UNIT	1	65	GRENADE BOX US/UK	4/2
10	DRIVERS SEAT L & R	2	66	FLAGS	1m
11	SEAT SUPPORT ARM	4m	67	0.50 Cal SPARE BARREL	1m
12	DRIVERS CONTROL PANEL	1	68	SPARE HEADLAMP	2
13	GEAR SHIFT LEVER	1m	69	FIRE EXTINGUISHER	1
14	DRIVING LEVER	2m	<b>3" GUN ARMAMENT (K25,K26,K26B)</b>		
15	TOP LINK	1m	G1	3" GUN MANTLET	1
16	SIDE LINK	1m	G2	3" GUN BARREL	1
17	CROSS SHAFT	1m	G3	3" GUN MOUNT	1
18	STOWAGE TRAY	1	G14	TURRET AMMO	2m
19	HULL HATCH L & R	2	G17	3" GUN FIRING BAR	1m
20	HULL REAR GUN CRUTCH	1	G19	3" GUN BREECH	1
21	ROTATING PERISCOPE	2	<b>17pdr GUN ARMAMENT (K27 ONLY)</b>		
22	FRONT TRACKGUARD L & R	2	G4	17pdr MANTLET	1
23	REAR TOW POINT	2	G5	17pdr BARREL	1
24	REAR TOWING PINTLE	1	G6	17pdr MUZZLE BRAKE	1
25	HEADLAMP UNIT	2	G7	17pdr BREECH BLOCK	1
26	TAIL LIGHT UNIT	2	G8	17pdr FIRING MECHANISM	1
27	SIDE ARIEL MOUNTING	1m	G9	17pdr BREECH	1
28	BOGIE UNIT LEFT I & O	6m	G10	17pdr FIRING HANDLE	1m
29	BOGIE UNIT RIGHT I & O	6m	G11-12	17pdr RECOIL SIDE GUARD	2
30	BOGIE TOP SKID	6	G13	17pdr RECOIL END GUARD	1m
31	ROADWHEEL	12m	G15-16	TURRET AMMO (L & R)	2m
31A	SPARE ROADWHEEL	2m	G18	17pdr GUN MOUNT	1
32	IDLER MOUNT L & R	2m	<b>BRITISH MODIFICATIONS (K26B ONLY)</b>		
33	IDLER	2m	B1	3" AMMO TURRET RIGHT	1m
34	SPROCKET I & O	4m	B2	3" AMMO TURRET LEFT	1m
35	TRACK GROUSERS	30	B17	DIAL SIGHT CASE	1
36	0.50 Cal GRIPS	1	<b>BRITISH MODIFICATIONS (K27 ONLY)</b>		
37	0.50 Cal PINTLE	1m	B12	STEN GUNS (LEFT & RIGHT)	2m
38	0.50 Cal MACHINE GUN	1m	<b>BRITISH MODIFICATIONS (K26B, K27)</b>		
39	0.50 Cal AMMO BOX	1	B3	DIAL SIGHT	1m
40	TURRET RING (US OR UK)	1	B4	0.50 Cal FORWARD PINTLE	1
41	PICK HEAD	1m	B5	No-19 RADIO	1
42	SHOVEL	1m	B6	VARIAC FOR RADIO	1
43	SLEDGEHAMMER	1m	B7	EXTERNAL FIRST AID BOX	1
44	PICK HANDLE (US OR UK)	1m	B8	FIRE EXTINGUISHER	2
45	AXE (US OR UK)	1m	B9	FRONT ARIEL MOUNTING	1
46	CROWBAR (US / UK TYPE)	1m	B10	STEN GUN AMMO STOWAGE	1
47	TRACK TENSIONER (US / UK)	1m	B11	SPARE TRACK CARRIER	4
48	TRACK	8	B13	ARTILLERY RANGEFINDER	1
49	HULL AMMO L/R, 3" OR 17pdr	2	B14	SIGHT VANE MOUNT	1
50	GUN SIGHTING TELESCOPE	1	B15	CABLE DRUM	1
51	TURRET SEAT	3	B16	BINOCULAR/CANTEENS	1
52	TRAVERSE HANDWHEEL	1m	<b>US ARMY FITTINGS (K25, K26)</b>		
53	ELEVATION HANDWHEEL	2m	A1	SCR610 RADIO	1
54	SUPPORT (LATE TURRET)	1	A2	GUN SIGHT	1m
55	TRAVEL LOCK	1m	A3	CANTEEN	5
56	TRAVEL LOCK MOUNTING	1m	A4	MP AMMO & GUN	1