

THE INDIVIDUAL PARTS OF THIS KIT ARE NOT ONLY DESIGNED TO INCOR-PORATE THE ULTIMATE IN AUTHENTIC DETAIL, BUT ARE ALSO PAINSTAKINGLY ENGINEERED TO INCLUDE SPECIAL CEMENTING SURFACES SUCH AS TABS, RIBS, SHOULDERS, ETC. USING THESE FEATURES IN COMBINATION WITH OUR UNIQUE ASSEMBLY DRAWINGS AND PROCEDURE, WE FEEL THAT YOUR EFFORTS AND OURS WILL BE AMPLY REWARDED BY A CLEAN, DURABLE, QUALITY SCALE MODEL OF SUPERIOR CRAFTSMANSHIP.

INTERESTING FACTS about your

THE U. S. ARMY WALKER BULLDOG TANK was the first armor. The Walker M-41 Light Tank has truly completely new tank built by the Army since World War II. The existence of production models was publicly announced in March 1951. The Army provided a plant in Cleveland for the contractor, the Cadillac Division of General Motors, and assisted that company in tooling up for production.

This Light Tank is designed to be fast and highly maneuverable. It is used for probing, reconnaissance and patrol duty, and for knocking out any intervening light enemy opposition. Its primary mission is to This vehicle is powered by a Continental 500 h.p. six detect points of enemy strength and weakness and to cylinder, horizontally opposed, air cooled gasoline report such observations back to the Army Commander. The M-41 also has the ability to destroy small enemy units which might impede progress of our main forces. It also meets the modern demand of air transportability.

When this speedy little fighter arrived to support U.N. Forces on the Korean Battlefront, the enemy began to encounter much difficulty with this destructive and elusive "Bulldog." By the time enemy batteries managed to bring fire upon its last known position, most of their ammunition was expended upon empty target areas. When an enemy gunner was fortunate enough to get the "Bulldog" in his sights, he found it an almost impossible target, due deflecting surfaces designed into its hull and turret back to form the front of the vehicle. The rear sec-

proven itself to be the "Bulldog" of Democracy.

GENERAL ORDNANCE DATA - The 76mm Gun Tank is an armored, full track, low silhouette, light combat vehicle, mounting a 76mm Gun. A cal. 50 machine gun is mounted on turret roof. The contours of hull and turret were designed for maximum projectile deflection. This vehicle carries a crew of four. Combat weight is 26 tons.

engine, with overhead valves and a single camshaft for each bank of three cylinders. The engine is supercharged; two conventional float-type carburetors are used, one for each bank of three cylinders. Cooling is provided by one axial flow fan mounted over the engine. Power is transmitted to the final drives and track sprockets through a cross drive transmission. Maximum speed of the vehicle is in excess of 40 mph with a cruising range of approximately 120 miles. Fuel capacity is 140 gallons. Cost to produce this vehicle is \$135,000.00.

The hull is a welded unit made up of armor steel castings, plates, and sections welded together. The "V" shaped front section is welded to the hull floor to its extremely low silhouette and large number of and side plates. The top of the "V" extends up and

tion is welded to the floor and side plates. The crew compartment is separated from the engine compartment by a bulkhead.

The removable engine compartment grilles (directly over the engine cooling fan) are attached to a frame work which is bolted to the hull. Hinged doors and grilles provide protection and accessibility to all other parts of the engine compartment.

The turret mounts the 76mm Gun which can be traversed 360 degrees in either direction both manually and hydraulically. The 76mm Gun can be elevated 1934 degrees and depressed 934 degrees both manually and hydraulically.

Each road wheel is attached to the vehicle by a forged steel support arm which is independently sprung by a torsion bar extending across the hull immediately above the floor. The vehicle's fordability is 48 inches and can climb obstacles 28 inches in height plus ability to span a ditch 6 feet wide.

When the gun is in traveling position the length of the vehicle is 275 inches long, 1281/2 inches wide and 108 inches high.

Numerous types of 76mm ammunition, such as Armor Piercing, High Explosive, Tracer Smoke, etc., can be fired from the 76mm Gun. Shells vary in length from 31 to 34 inches and projectiles weigh

MADE OF TOUGH, DURABLE HIGH-IMPACT POLYSTYRENE

FROG

INTERNATIONAL MODEL AIRCRAFT LTD. LONDON S.W.19





U.S. ARMY 76mm M-41 LIGHT TANK

assembly instructions



YOUR FROG DE-LUXE MODEL

The U.S. Army M-41 Walker Bulldog Light Tank Weapon is another in a series of models built in strict accordance with specifications contained in official U.S. Army blueprints. We wish to take this opportunity to express our sincere gratitude to the U.S. Army Ordnance Corps, and the Office of the Chief of Information and Education, for generously furnishing complete and accurate data. Without this cooperation, the development of a completely authentic model would not have been possible. This model incorporates virtually all of the movable features of the actual weapon from traveling position through firing position, plus a unique suspension system wherein all Road Wheels are individually Spring Operated, similar to the real vehicle.

IN TRAVELING POSITION

The caterpillar action, necessary for fordibility over uneven terrain, can best be demonstrated by pushing model over irregular object and surfaces while applying slight downward pressure. Note that authentic suspension permits realistic side to side and front to rear rocking. This feature alone should intrigue admirers of your completed model.

IN FIRING POSITION

The 76mm gun can be elevated 19.75 degrees, de- B. Examine pieces and remove any other excess plaspressed 9.75 degrees and rotated 360 degrees by traversing turret. The crew members are easily sions have been removed. X-Acto knife sets are very adapted to combat positions. All of the hatches and handy for trimming and may be purchased at all doors operate, and the machine gun swivels, elevates hobby counters. and can be positioned for firing in either of two mounts on turret

Your model is one of our SERIES "M", which are scaled % in. = 1 ft. thus making possible a collection wherein all models are in true scale to each other.

PAINTING YOUR MODEL

Essentially, your model has been molded in authentic colors of Olive Drab for hull and turret, and black for the flexible track. However, it is recommended that certain small parts be painted to provide additional realism. Therefore, if you intend to paint your model we recommend that you fully examine all the steps in the instruction sheet for pieces requiring decoration. Complete the painting of all of these pieces prior to assembly, making certain to avoid getting paint on cementing areas. Use only enamel paints and allow sufficient drying time. Recommended tools for painting are a small (#1) artist's brush, and the end of a toothpick or opened paper clip for minute detailing, such as nuts, rivet heads, etc.

GENERAL INSTRUCTIONS

A. Notice that all parts are identified with a part number which is either stamped on the back of the piece or on a small detachable disc. Remove this disc once you properly identify it with the assembly you are working on.

tic with a sharp knife blade, making sure all protru-

C. Purchase Frog cement for polystyrene plastic at your local store. Have a small cloth handy to wipe any cement you may accidentally get on your fingers.

D. See back of decals for instructions on how to apply.

NO-SHOW" CEMENT TECHNIQUE

NO-SHOW CEMENTING is designed into your kit. The parts have been specifically engineered to enable you to complete a model which is free of burns and smears. The instructions and drawings have also been designed to carry out the "NO-SHOW" cementing feature. through the use of blue tones to indicate cementing areas. These design features will enable you to obtain favorable results and reward you with a model you will be proud to display.

1. First, locate and fit pieces together, prior to cementing.

NOTE: Most parts have been designed so that cement can be applied to underside or inside surfaces, to eliminate visible cement smears.

2. Apply cement wherever possible to underside or inside surfaces. Elsewhere, APPLY CEMENT SPARINGLY ONLY TO THE CEMENT AREAS INDICATED IN BLUE ON THE INSTRUCTION DRAWINGS. Hold or clamp parts until a permanent bond is assured.

LEGEND

- -Cementing area.
- Special "No-Show" Cementing Points, Apply cement here after the parts are in assembled position.
- -Hidden cementing areas.

Follow numbered steps carefully for ease of assembly

NOTE: Circled numbers are ONLY for parts identification, and have no bearing on the assembly sequence.



NOTE: LIGHT GREY TONE INDICATES INDIVIDUAL PARTS. DARKER GREY TONE INDICATES PARTS THAT HAVE BEEN ASSEMBLED

DOX tarpaulins den. 76nn assembly, turret

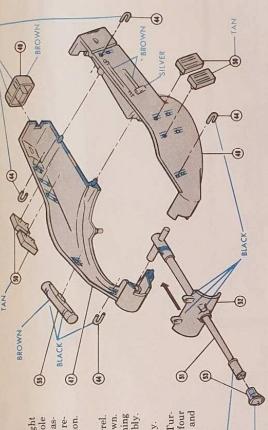
CHECK FIT OF PIECES AND TRIM IF NECESSARY

Apply cement to area indicated on Turret Side-Right (47) and insert large pin on Gun Barrel (51) into hole in Turret Carefully join Turret Side-Left (48) to assembly. Gun Barrel should pivot in Turret holes yet remain in any desired position provided by slight friction. Allow cement to dry.

Apply cement to surface near small locating pin on Barrel. Position hole in Gun Shield (52) over Barrel as shown. Slide Shield along Barrel and join to Barrel by aligning small pin with slot in Shield and properly seating assembly.

Now join Flame Arrestor (53) to Gun Barrel assembly.

Insert locating tab on Tarpaulin Roll (55) into slot in Turret and apply cement from inside of Turret. Join four Small Tarpaulin Packs (50), four Lifting Hooks (44) and Tarpaulin Pack (49) to Turret in the same manner.



SILVER Cans auxiliary hooks, top turret

CHECK FIT OF PIECES AND TRIM IF NECESSARY

(E)

FROM UNDERSIDE OF TURRET TOP.

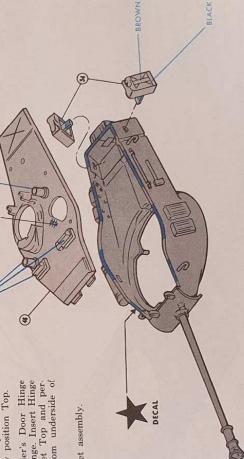
(3)

(3)

Apply cement to area indicated on Turret and join Turret Top (46) by inserting tabs on Turret Top under front ledge on assembled Turret and properly position Top.

Assemble Loader's Door (56) to Loader's Door Hinge (57) by inserting pins on Door into Hinge. Insert Hinge and Door assembly into slot in Turret Top and permanently join by applying cement from underside of Turret Top. Door should pivot freely.

Cement two Water Cans (54) to Turret assembly.



assembly turret complete

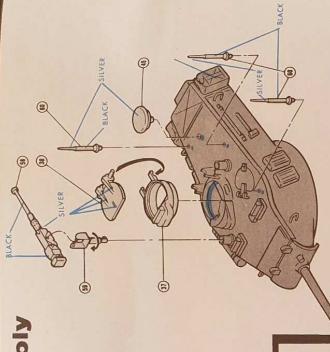
CHECK FIT OF PIECES AND TRIM IF NECESSARY

Cement Ventilator (45) to Turret assembly.

Assemble Commander's Hatch (37) to Commander's Hatch Door (38) by inserting pins on Door into cutouts in Hatch and close Door against Hatch. Apply cement to hole in Turret and join Hatch assembly.

Cement three Radio Masts (60) to Turret assembly.

Now carefully position and snap 50 cal. Machine Gun (58) into Gun Mount (59). Insert key on Mount into either of two sleeves on Turret making sure key enters cutout at bottom of sleeve and is free to pivot.



hull top, grilles, hatch, door, tool box

CHECK FIT OF PIECES AND TRIM IF NECESSARY

Position as shown and cement Tool Tray (31) to Hull Top (30).

Insert tabs on Lifting Shackles (43) into cutouts in Hull and apply cement from underside of Hull.

Cement Driver's Handle (33) to Driver's Door (32).

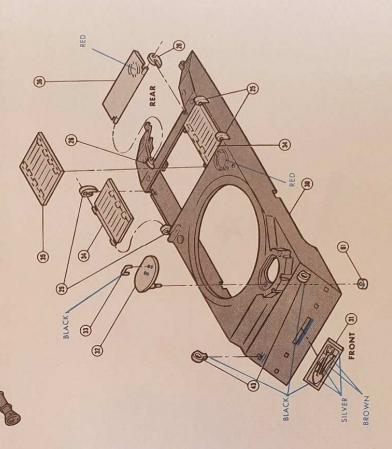
Now insert pin on Door into hole provided in Hull. Place small amount of cement in hole in Pivot Cap (61) and place Cap over pin on Door. Door should be free to lift up and pivot.

Carefully examine drawing and correctly position and assemble one Grille Door Hinge (25) to Hull Top by first placing a small amount of cement into Hinge cutout in Hull Top. Note: Grille Door Hinges are the smallest Hinges in this kit. Now insert and seat Hinge, making sure short leg is on the outside of Hull. Assemble another Grille Door Hinge to Grille Door (34) as shown. Carefully apply small amount of cement to other Hinge cutout in Hull Top. Now insert pin on Grille Door into hole in Hinge already attached to Hull and at the same time inserting and seating other Hinge. Grille Door should open and close freely.

Repeat above procedure for other Grille Door.

Repeat procedure again for proper assembly of Accessories Front Door (36) and Accessories Door Hinges (26). Note proper position for Hinges.

Center Grille (35) is shown in this step for simplicity and should be positioned over Motor opening (without cementing) when model is complete.



assemble turret to hull top CHECK FIT OF PIECES AND TRIM IF NECESSARY Cement Front Lights (27) to Hull Top. DECAL Now insert pins on assembled Turret into opening in Hull Now insert Plan Carefully cement four Turret Ring Caps (63) to pins. Turret should be free to rotate. Set assembly aside. NOTE: In order to maintain authenticity, the parts forming the Hatch and Grille hinges are of necessity small and fragile and great care should be exercised if you wish parts to operate. For display purposes, model can be cemented in any position without any loss in appearance. SILVER FRONT assemble power plant, rear door, hull top to hull

CHECK FIT OF PIECES AND TRIM IF NECESSARY

Apply cement to area indicated and join Motor (24) to Hull. Note: if desired, Motor should be painted and dry before assembly.

Assemble Accessories Rear Door (39) to Hull Top by inserting pins on Door into Hinges on Hull and closing Door. Keep Door from falling off Hull by placing scotch tape on both ends of Door temporarily.

Now carefully apply cement to rear end of Hull Top assembly as indicated by hidden "no show" cement on drawing. Avoid getting cement on Hinge pins. Also apply cement to front ledge and locating tab on Hull Bottom and join Hull Top assembly to Bottom.

TO APPLY DECALS—First see instructions on back of decals. Then cut decals apart INSIDE the dotted lines. See illustration for correct location, then apply one subject at a time. Slide decal partly off paper backing, hold decal in correct position on model, then slip backing from beneath decal. Adjust position if necessary, smooth out any wrinkles and blot with a soft cloth.

NOTE: Do not become alarmed if Decals appear milky against the olive drab background. This will disappear when Decals are thoroughly dry.



10 final assembly

CHECK FIT OF PIECES AND TRIM IF NECESSARY

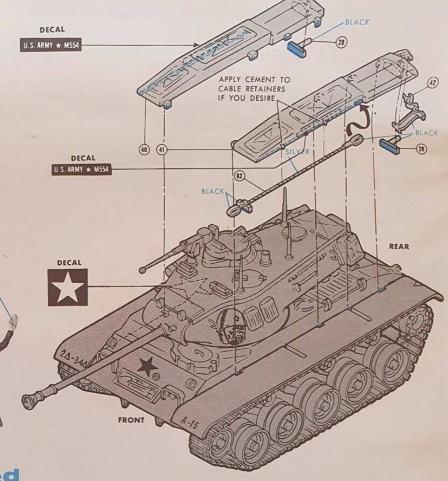
Cement Exhaust Pipe (28) to Fender Box-Right (40). Join Fender Box to Hull.

Cement remaining Exhaust Pipe to Fender Box—Left (41). Apply cement to tab on Fender Box—Left as shown and carefully position Towing Cable (62) as shown. Now insert loop on Cable over tab on Box and hook Cable into two "U" shaped retainers. Now insert Gun Traveling Lock (42) into "U" shaped hinge on Fender Box and join assembly to Hull.

Center Grille previously mentioned in step number 7 can be placed above Motor and your model is complete.

Crew members can be positioned in or out of the vehicle as desired.

BROWN



Another super-detailed military model for your SERIES M collection ... by FROG

PARTS LIST FOR YOUR SERIES M WALKER BULLDOG

Part No.	NAME	Part No.	NAME
1	RIGHT HULL PANEL	19	FINAL DRIVE SPROCKET (2)
2	LEFT HULL PANEL	20	REAR HOOK (2)
3	FRONT PLATE	21	TOWING SHACKLE (4)
4	REAR PLATE	22	PINTLE HOOK
5	OUTSIDE ROAD WHEEL (10)	23	TAIL LIGHTS (2)
4 5 6 7	INSIDE ROAD WHEEL (18)	24	MOTOR
7	ROAD WHEEL PIN (12)	21 22 23 24 25	GRILLE DOOR HINGE (4) (1 Extra)
8 9 10 11	ROAD WHEEL ARM (10)	26	ACCESSORIES DOOR HINGE (2) (1 Extra)
9	SPRING LEVER (10)	26 27	FRONT LIGHT (2)
10	IDLER WHEEL-OUTSIDE (6)	28	EXHAUST PIPE (2)
11	IDLER WHEEL-INSIDE (6)	29	HULL ACCESS PLATE
12	IDLER WHEEL CAP (6)	30	HULL TOP
13	FINAL DRIVE HOUSING-RIGHT	31	TOOL TRAY
14	FINAL DRIVE HOUSING-LEFT	30 31 32	DRIVER'S DOOR
15	COMPENSATING WHEEL-QUISIDE (2)	33	DRIVER'S DOOR HANDLE

COMPENSATING WHEEL-INSIDE (2) FINAL DRIVE PIN (2) 32 DRIVER'S DOOR
33 DRIVER'S DOOR HANDLE
34 GRILLE DOOR (2)
35 CENTER GRILLE
36 ACCESSORIES FRONT DOOR

Part No. NAME 37 COMMANDER'S HATCH 38 COMMANDER'S HATCH DOOR 39 ACCESSORIES REAR DOOR 40 FENDER BOX RIGHT 41 FENDER BOX LEFT 42 GUN TRAVELING LOCK 43 LIFTING HOOK (4) 45 VENTILATOR 46 TURRET SIDE—RIGHT 47 TURRET SIDE—LEFT 48 TURRET SIDE—LEFT 49 TARPAULIN PACK (4) 50 SMALL TARPAULIN PACK (4) 51 GUN BARREL 52 GUN SHIELD 54 WATER CAN (2)

M554

NAME	
RPAULIN ROLL	
ADER'S DOOR	
ADER'S DOOR HINGE	
CHINE GUN	
N MOUNT	_
DIO MAST (3)	
VOT CAP	
WING CABLE	
RRET RING CAP (4)	
MMANDER	
DIO MAN	
IMBING RIFLEMAN	
MMY GUNNER	
FANTRYMAN	100
EXIBLE TRACK (2)	-
RING (10)	
CALS	201

