WELCOME TO THE AMERICAN MILITARY MUSEUM AND RESTORATION CENTER

The American Society of Military History was incorporated in California in 1962 as a California Non-Profit Educational Organization.

The purpose of the Society is to perpetuate our great American Military Heritage and to restore and preserve its equipment.

The exhibits you are about to see are either restored or waiting to be restored. These exhibits were used by the Army, Navy, Marines and Air Force.

We have no governmental financial assistance. All restoration is done by our membership and volunteers.

If you have the skills and the time, join us and volunteer.

Thank you for supporting our Society and Museum through your donations.

Don Michelson
Executive Director

1 **M274 A2 "MULE" 1/2 TON 4X4 PLATFORM UTILITY TRUCK** - Developed in the early 1950's for the transportation of ammunition and the 106-millimeter recoilless rifle. The Mule's engine, model A042, is air-cooled, 4 cycle, 2 cylinder horizontally opposed type 14 horsepower gasoline engine. It is a low profile, cross-country vehicle in which every unnecessary item has been stripped away to leave the most basic load carrier. It is no more than a platform with four wheels. It was used in Vietnam. *STATS* - government cost in 1968 was $3,527.00, Top speed, 25 miles per hour, Weight, (unloaded, less operator) 900 lbs.

2 **1/4 TON 4X4 TRUCK "JEEP"** - The Jeep was to be found in every theater of World War II and was used by every allied army. It also served in the Korean Conflict and during the Vietnam War by the French. A total of 650,000 were produced from 1940 to 1945. It remained in service, relatively unchanged until the middle 1950's, after which it was replaced by improved models. *STATS* - Wheelbase: 80 inches, Weight: 2,453 lbs., Mileage: 20 mpg, Manufacturers: Willys and Ford.

2A **1/4 TON 4X4 TRUCK "JEEP"** - This 1942 Ford was a donation of "Ecology Auto Wrecking" (Charles Ionian)

3 **M38 1/4 TON UTILITY TRUCK** - Used in the Korean War, 1951 -1953. It is the militarized version of the CJ-3 jeep with a 24-volt waterproof electrical system. The Willys-Overland Company sold the M38 to numerous armies throughout the world and also concluded licensing agreements whereby the vehicle was built in several other countries.

4 **M38A1 UTILITY TRUCK** - Used from 1951 to 1966 in the Vietnam War. It has an overhead valve gasoline engine and 24 volt waterproof electrical system. The cost for this vehicle in 1953, new was $2,774.00. *STATS* - Weight: 2,665 pounds, Top Speed: 55 mph, Range: 280 miles

5 **M170 4X4 "JEEP" AMBULANCE, 1959** - Same as M38A (see # 4) but 16 inches longer and 200 pounds heavier. The front line ambulance is a lightweight, open-body, canvas-covered, four-wheel drive vehicle designed to transport ill or wounded personnel, it accommodates six. The tailgate can be lowered to facilitate the loading of litters. This model was used in Vietnam. Cost in 1959 was $3,109.00.

6 **P11 PLYMOUTH STAFF CAR, 1941** - This vehicle was used as a staff car during World War II. Its purpose was to transport officers and other personnel. Manufacturer: Chrysler.

7 **SK-7A9 TORPEDO CRANE** - Used to transport torpedoes from ammo storage to submarines.

8 **M3A1 WHITE SCOUT CAR 4X4** - Manufactured in 1941 and used in World War II. Weight: 12,400 pounds, Power: Hercules JXD, six-cylinder gasoline motor. One 50-caliber and one 30-caliber machine gun could be mounted while tripods carried in the vehicle allowed the guns to be dismounted for ground action. The windshield is bulletproof glass and could be further protected by a hinged steel plate with vision slots. A detachable canvas was also provided for non-combat use.

9 **GTB 1 "BURMA JEEP" 1/2 TON 4X4, 1943 -** This model truck was used by the Navy during World War II. The Ford GTB was used as a general utility pick-up truck and bomb transport. *STATS* – Weight: 6,900 pounds, Engine: 6-cylinder, 226 cubic inch, 90 horsepower gasoline motor. Max vehicle speed: 45 mph.

10 **WC51 3/4-TON WEAPON'S CARRIER, 1941 -** General utility pick-up truck. Used in World War II and Korea. Comes with a winter top. The purpose of this vehicle is to transport weapons, tools, equipment, and personnel. Crew consisted of two and room for eight passengers in the rear. *STATS* - Manufacturer: Dodge, Model T-214, Engine: 6-cylinder gasoline powered, producing 76 horsepower at 3,200 RPM, Top speed: 54 mph.

11 **M37 - 1953 3/4-TON PICK-UP TRUCK 4X4, 1953 -** This truck was used as a general utility truck. In World War II ¾ ton trucks were extremely popular with the military forces and their use continued after World War II. This extreme popularity was so much that it went back into production from 1950 to 1955 to meet the demands of the Korean War as an M37 upgrade. This truck was also used in Vietnam. *STATS* - 24-volt waterproof electrical system. Engine: 6 cylinder, 78 hp, gasoline powered, Top speed: 55 mph, Range: 255 miles, Manufacturer: Dodge.

12 **M43 3/4 TON AMBULANCE, 1955 -** Similar to the M37 (see # 11). It was used to carry the sick and wounded military personnel. Used in Korean and Vietnam.
STATS - Manufacturer: Dodge, 1955, Weight: 8,550 pounds

13 **M715, 1 1/4 TON CARGO TRUCK -** Used in Vietnam as a utility truck. It was an inferior replacement truck for the M37. Realizing that this was a poor design, it was phased out rather quickly. Engine: 6-cylinder in-line overhead camshaft, gasoline motor. Commonly nick named a FIVE QUARTER. Built by AMC Jeep. Date built: 1967

14 **M725 AMBULANCE, 1965 -** Ambulance version of the M715 (see #13). Used in Vietnam. It has a cross-country payload of 1 1/4 tons. *STATS* -Engine: 6-cylinder, 230 cubic inch overhead cam with 132.5 horsepower, gasoline motor. Full floating axles, Manufacturer: AMC, Maximum speed: 60 mph Wheelbase: 124 inches, Weight: 6,400 lbs.

15 **1948 FIRE TRUCK, 1948 -** V8 flat-head 100 horsepower gasoline engine, a 500-gallon per minute water pump with a 500 gallon tank. It was used in the late 1940's and early 1950's. Manufacturer: Ford ***(CURRENTLY NOT ON EXHIBIT)***

16 **7.5 C.M -** Gebirgsgschutz (Geb) 36 fired a 12.7 pound projectile 10,000 yards. Gun weight: 1,650 pounds. This gun was captured in Greece. It was used by the Germans during World War II. Designed by Rheinmetal-Borsig and was replaced by the 7.5 C.M Geb K 15, a more up to date design with a muzzle brake. It could fire a 5.5-kilogram shell up to 10,000 yards, but such performance allied to the weight of 1,650 pounds meant that this gun was not very stable at low elevations and tended to jump into the air when fired. Such a defect annoyed the army and they requested a fresh design in 1940. This gun was donated by the Greek Army Museum in 1967. Fully restored by Mike Wolstenholme in 1981.

¶Ç♦ 17 **KUBLEWAGEN, 1942 -** Built in 1942, this vehicle was used like a jeep and had only two-wheel drive. Manufacturer: Volkswagen, Engine: 60 cubic inch, air cooled, opposed 4 cylinder, gasoline powered engine. Speed: 49.7 mph., Range: 280 miles at 30 miles per gallon. ***(CURRENTLY NOT ON EXHIBIT)***

18 **SCHWIMMWAGEN TYPE 166, 1943 -** Built in 1943. Amphibious Volkswagen developed for river crossing in Russia. With a 25 horsepower engine, air-cooled, opposed 4 cylinder, gasoline powered engine, it had a speed of 46 mph on land and 6 mph on water. The body was constructed of metal pressing welded together to form a watertight hull. The transmission was altered to give optional four-wheel drive and an auxiliary low gear, which came into operation whenever four-wheel drive was selected. ***(CURRENTLY NOT ON EXHIBIT)***

19 **FLAK 30 -** German light anti-aircraft gun. Rate of fire: 120 rounds per minute. Maximum range (horizontal) 5,246 yards. Like most 20 millimeter weapons, this was little more than an overgrown machine gun, feeding from a box magazine on the side. It was mounted on a two-wheeled trailer. High-explosive incendiary and armor piercing ammunition were provided and the gun could double a light anti-tank weapon if necessary. This gun was donated by the Greek Army Museum in 1967. Restored by Mike Wolstenholme in 1979.

19A **TRAILER, TOWED** – Used to tow the FLAK 30 -German light anti-aircraft gun. (See #19)

20 **3.7 cm PAK ANTI-TANK GUN -** It was developed by the Rheinmetal Company in 1933, first issued in 1936 and given its first testing under fire in the Spanish Civil War. Its penetrative performance was disappointing, but its mobility and handiness in action compensated for its deficiencies. This gun was donated by the Greek Army Museum in 1967. *STATS* - Rate of fire: 8 - 10 rounds per minute, Muzzle velocity: 2,625 feet per second (armor piercing shell), Range: 600 yards, Shield: 3/16" armor plate.

21 **V-17A/MTQ TRUCK, MAINT. & TELEPHONE, CONSTRUCTION -** This vehicle was used to put up telephone poles and lines. It was in service from 1953 to 1975. *STATS* - Weight 16,480 lbs., Top Speed: 60 MPH, Winch load capacity: front 10,000 lbs., back 20,000 lbs., Engine: 331, 6-cylinder gasoline powered, Manufacturer: R.E.O.

22 **LVT-4 FMC LANDING VEHICLE, TRACKED, 1944 -** In service from 1944 to 1955. Developed by the FMC (Food Machinery Corporation). The LTV-4 design was preferred over the earlier models (LTV-1 to –3) due to it being easier and quicker to load & unload by the new addition of a rear ramp. Over 8,300 were built, and were first used in Saipan in June of 1944. *STATS* - Weight: 27,400 lbs., Power: Continental W670-9A, 7-cylinder radial engine, Land speed: 20 mph, Water speed: 7 1/2 mph., Range: 150 miles on land, 75 miles in water.

23 **CCKW 2½ TON 6X6** – Known as the "Jimmy" or "Deuce and a half". It served in World War II and in Korea by U. S. Forces and also used by the French army until the 1980's. Approximately 562,750 were manufactured from 1940 to 1945. Withdrawn from the US Army inventory in 1956. It was the workhorse of World War II. *STATS* - Manufacturer: GMC (General Motors Corporation), Power: 270 cubic inch, 6-cylinder gasoline engine.

24 **M48 TANK TURRET** – This display provides you with an eye-level view of the turret armor. (See # 77, M48 tank)

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25 **M54 A2 TRUCK, CARGO, 5 TON 6X6** - Used to transport cargo or personnel. Equipped with a diesel/multi fuel engine with double reduction full-floating axles. Used during the Vietnam War and had the power to haul 10,000 pounds cross-country

26 **LARC 5** - Developed in the late 50's as a replacement for the DUKW. It is far more seaworthy than the DUKW and can carry more cargo or alternatively, 20 fully equipped soldiers. *STATS* - Manufacturer's: Le Tourneau, Westinghouse and Consolidated Diesel Corp., Length: 35 feet, Width: 10 feet, 4 inches, Weight: 20,400 pounds, Payload: 10,000 pounds, Speed: 30 miles per hour on land, 10 miles per hour on water.

27 **DUKW - 2 1/2, 6X6 AMBHIBIOUS TRUCK**- Standardized in October of 1942. It was based on a CCKW 2 1/2-ton truck with a watertight hull. For water operations, it was propeller driven. The DUKW could carry 25 troops or up to 2 1/2 tons of cargo. Hatches in the deck gave access to storage compartments, the engine and the rear-mounted winch. Large numbers of these vehicles performed an invaluable service in amphibious landings and river crossing operations during World War II and the Korean Conflict. A surprising number of these vehicles are still in use today. *STATS* - 6-cyliner 104-horsepower gasoline engine, Weight: 15,080 lbs. These trucks were prime movers in the D-Day invasion 6 June 1944.

28 **CANNON 40 MILLIMETER** – Two of these dual automatic guns (Twin 40's or Pom Pom) are on display. These guns were used on ships as anti-aircraft protection during World War II, the Korean Conflict and the Vietnam War. Loading this weapon required the operators to manually load 4 round clips at a time. They were eventually phased out of service because they could no longer track modern high-speed aircraft. *STATS* - Rate of Fire: 240 rounds per minute, Range: 5,200 yards, Muzzle velocity: 2,870 feet per second, Weight: 13,000 lbs.

29 **20 MILLIMETER GUN STAND** - Dual mount for an Oerlikon 20 mm anti-aircraft gun.

30 **20 MILLIMETER GUN STAND** - mount for an Oerlikon 20-mm anti-aircraft gun.

31 **MARK 22, 3 INCH** - 3-inch gun used on USN ships. *STATS* - Manufacturer: Fischer Body Manufacturer date: 11/16/43, Rate of Fire: 45 rounds per minute, Muzzle velocity: 2,700 feet per second, Range: 14,600 yards, Max. altitude: 30,400 feet

32 **MARK 21, 5 INCH - 38** - Manufactured in 1933 and used during World War II. This is an open mount design for either merchant marine or naval combat vessels. It is a semi-automatic rapid-fire piece with electric-hydraulic power rammer mounted on the slide. To operate this mount 11 men were required. *STATS* - Elevation: 85 degrees, Horizontal range: 18,200, Ceiling range: 12,400 yards, Projectile weight: 54 lbs., Power charge weight: 14.75 lbs.

33 **MARK 17, 5 INCH SLIDE- 38, BREECH LOADING** - Manufactured in 1922 *STATS* - Projectile: 54 lbs., Initial velocity: 2,600 feet per second, Maximum surface range: 18,200 yards, Powder charge weight: 14.75 lbs.

34 **M1 GUN, ANTI-AIRCRAFT ARTILLERY (Towed, 90 millimeter) - This** WW II gun was developed to provide longer range, greater muzzle velocity and a larger effective shell burst area than the old 3 inch gun. It can be used for anti-tank as well as anti-aircraft. It was extensively used for defense plant air defense. *STATS* – Manufactured in 1943, Maximum vertical range: 11,273 yards, horizontal range: 18,980 yards, Rate of Fire: 22 rounds per minute, Life of the gun tube: 1,500 rounds, Gross weight: 19,000 lbs.

35 **GENERAL ELECTRIC 60 INCH SEARCHLIGHT -** Used during World War II for anti-aircraft spotting. During the Korean Conflict and the Vietnam War it was utilized for lighting ground targets. It has an 800,000 candlelight power beam powered by a 162-amp gasoline powered generator using carbon arc lighting.

36 **ARMY 40 MILLIMETER ANI-AIRCRAFT GUN-** Single, wheel mounted, used by the US and the German Armies. Developed in Sweden in the 1930's. This particular one was manufactured by Goodyear Tire & Rubber in 1943. This gun is ideally suited to engage WW II low-flying, high-speed enemy aircraft such as dive-bombers and attack aircraft. In case of overheating, the barrel can be replaced in approximately 2 minutes. *STATS* - Maximum range: 7,500 yards, Rate of Fire: 120 rounds per minute. Two of these are on display.

37 **SOVIET RADAR SIMULATOR -** Used by the U. S. Air Force to simulate Soviet Radar for training purposes. It was used in the movie "GI Jane". Nomenclature – unknown.

38 **M51 GUN, ANTI-AIRCRAFT ARTILLERY (Towed, 75 millimeter) -** The "Skysweeper" weapon system used a radar guided anti-aircraft targeting system. It also boasted twin Drum Magazines. *STATS* - Muzzle velocity: 2,800 feet per second, Range: 14,415 yards, Rate of Fire: 45 rounds per minute. Two Skysweepers are on display.

39 **SIGANAW BOMB TRAILER -** Built in 1942 and used by the United States Army Air Corps. for transporting bombs short distances. It can also be towed in trains (linked together) at speeds up to 45 miles per hour on paved airfields. It was designed to be towed by a 1 1/2 or larger ton truck. Weight: 3,200 lbs.

40 **DODGE 1/2 TON TRUCK -** Used during World War II. General purpose truck, powered by a 6 cylinder in-line gasoline engine producing 85 horsepower. Top speed: 50 miles per hour.

41 **M-16 WHITE 1/2 TRACK (HALF-TRACK) -** Half-tracks were designed as armored personnel carriers or prime movers. Half-tracks were also adapted as a self-propelled 75-millimeter field gun. Another design for a light, fast fighting anti-aircraft gun was the Quad 50 anti-aircraft weapon system traveling with and protecting moving columns of vehicles. *STATS* - Rate of fire: 2,800 rounds per minute, Top speed: 45 miles per hour, Manufacturer: White, Engine: White160 AX, 6-cylinder, gasoline powered, 178 horsepower. Several variants are on display.

42 **VIETMAN RIVER BOAT -** Used for laying mines in the rivers and deltas in South East Asia. It was high-speed riverboat with a 250 horsepower Chevy LT-1, 350 cubic inch V8 gasoline engine. This boat was capable of being operated by remote control. It was also used for dragging the river bottoms for control wires of Vietnam River mines.

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43 **M21 4.5 IN. ROCKET LAUNCHER -** This 25 tube rocket launcher was electrically operated, ground mounted and was used to saturate an area. The ground type launcher may be either of the single or multiple tube class and was developed for mounting on fixed carriages, combat vehicles and aircraft.

44 **M1A1 HOWITZER, PACK 75 MM -** Light field artillery weapon for direct or indirect fire. It is arranged for quick disassembly into 9 loads for parachute air drop deliveries or transport by pack animals over difficult terrain. *STATS* - Rate of Fire: 6 rounds per min., Range: 9,620 yards.

45 **M-56 ANTI-TANK SELF-PROPELLED 90 MILLIMETER -** Known as the **Scorpion** it was designed to be used in airborne operations. The M-56 was operated by the United States Army 82ND and 101st airborne units. The gun was pivoted on the top of the hull and a small shield gave minimal protection to the driver and gun layer. The rest of the gun crew stood on the ground serving the gun. When on the move, the crew hung on as best they could. It was used from 1958 to 1969. This one served in Vietnam. *STATS* - Weight: combat ready-15,500 lbs., Ground pressure: 4.5 lbs. per square inch, Power: 6-cylinder air-cooled opposed gasoline engine.

46 **M48 TRAINING TANK TURRET** – Outfitted with a 90 millimeter gun, this mock-up was used to train gunners and loaders on their duties in operating a tank turret.

47 **M75 ARMORED PERSONNEL CARRIER** – Made by the FMC in 1952. The design is a steel armored box built onto a running gear of a M41 light tank. The driver sat in the front with the engine and the transmission on his right side in a compartment package that could be removed through the front hull. Two hatches were also provided over the passenger compartment for small firearms. It was built from tank components and assembled in small numbers, so it was extremely expensive. It was the last steel armored personnel carrier produced and was equipped with a 50-caliber machine gun on top for fire support. *STATS* – Top speed: 44.5 miles per hour, Crew: 2 operators + 10 passengers, Weight: 41,510 lbs., Power: 6-cyl. 875 cubic inch gasoline engine, Armor: 9-25 mm thick

48 **MC-3000-BTL FORKLIFT -** USMC 6,000lb lifting capacity, 24 inch load center. Built in 1981, gross weight: 25,000 lbs. Used for moving supplies and general-purpose use. Can operate on base and in the field and has been designed for fording hard bottom river crossings up to 3 feet.

49 **M8 (GRAYHOUND) ARMORED CAR** – Made by Ford in 1942. It came equipped with a 37 millimeter main gun. The driver and bow gunner sat in the front of the hull while the turret was occupied by the assistant driver and the vehicle commander. The engine and the transmission were at the back end of the hull. It has a Hercules 6-cylinder gasoline engine and a gross weight of 16,500 lbs. Top speed: 56 mph., Cruising range: 400 miles, Total built 12,564.

50 **M20** -The same as the M8 (#49) but with a gun ring for a 50-caliber machine gun replacing the turret. This was used as an armored command vehicle and personnel carrier. *STATS* - Total built 3,791, Gross weight 15,650 lbs., Top speed: 56 mph

51 **M7 HOWITZER 105MM MOTOR CARRIAGE**- Made in 1941 by the Baldwin Locomotive Company. The hull of an M3 medium tank was used as a base. The addition of an armor-protected anti-aircraft machine gun mounted at the right front of the hull, a structure, which, resembling a pulpit, led to the vehicle, being nicknamed **"Priest"** by the British Army. This vehicle is powered by a Continental 9-cylinder, 400 horsepower gasoline radial engine. This unit carried 69 rounds of ammunition.

52 **M7B1**- built in 1944. Modified for the Korean War this variant of the M7 was designed with a raised gun mount, allowing a 65-degree elevation for firing on targets located on steep mountainous terrain. The M7B1 used the M4A3 medium tank chassis as its basis. Like the later M7's, the M7B1 had the lower hull made of soft steel instead of armor plate as an economy measure. After being removed from the U.S. Service, several of these were employed by the Austrian Army. See #51 above.

53 **M4A3E8 "SHERMAN"**- It came with a 105-millimeter Howitzer main gun with a Ford V-8. 1,100 cubic inch gasoline engine. It became known as the "General Sherman" during World War II and was produced in greater numbers than any other American tank before or since. It gradually fell behind the standards imposed by German improvements, notably in its gun power. In spite of its defects, it was in general, a highly successful tank and, above all, was reliable and available in quantity. A total of 3,039 were built including variants and modifications from April, 1944 to May, 1945. *STATS* - Ammunition: 66 rounds of 105 MM, Weight: 69,600 pounds, Range: 100 miles.

54 **M48AC TRAINING TANK WITH 90-MILLIMETER GUN** – The same as the M48 but made of mild steel instead of armor in order to provide a cheap and effective training tank.

55 **M43 SELF-PROPELLED GUN** - Only 24 were made. This one was manufactured in April of 1945. The museum brought this vehicle in from New York State. This gun could fire a 212 pound shell up to 12 1/2 miles. The gun shared its carriage with the 155 millimeter Howitzer, and the different guns could be interchanged on the same carriage comparatively easily. The M43 has a Wright 9-cylinder radial air-cooled gasoline engine, 350 hp. Weight 40 tons. Only two are in existence today, one at the Fort Sill Artillery Museum and one located here.

56 **M4A3E8 SUPER SHERMAN** - Ford built, welded Hull and Ford V8. 1,100 cubic inch, 500 horsepower gasoline engine. This carried a 76 millimeter main gun (we are still seeking an authentic 76 millimeter gun), two 30 caliber machine guns and two 50 caliber machine guns. A total of 7,542 were manufactured. Weight: 36 tons, Ammunition: 71 rounds of 76 mm, 600 rounds of .50 cal, 900 rounds of .45 cal, 6250 rounds of .30 cal, 18 rounds of 2 inch smoke grenades and 12 hand grenades. Armor plate hull thickness front 2.5 inches, sides 1.5 inches, top .75 inch, floor 1 inch. Top speed: 26 mph, cruising range on roads: approx. 100 miles.

57 **T-72 SOVIET TANK MOCK-UP** – Built and used by Hughes Electronics for testing anti-tank heat-seeking missile guidance systems. Heating blankets were installed for simulating normal tank heat distribution and is mounted on a modified 1981 Chevy ½ -ton van.

58 **SHOWER UNIT, 2 WHEEL, TOWED** – This shower unit provided hot water showers for the GI's in the field. It comes equipped with complete plumbing and is hooked up to a 'Water Buffalo' (a 400 gallon water trailer).

59 **WALKIE-TALKIE, PRC 6 –** Most commonly known as the 'Banana Radio'. Manufactured in the early 1950's this unit provided communications up to ½ mile away.

60 **M893 TRUCK, MULTI-STOP, 1 1/4 TON 4X2 -** This Dodge manufactured truck was basically used as a light delivery van.

61 **M35A2C TRUCK, CARGO 2 1/2 TON, 6X6** – These were converted form the gasoline engines to diesel power. See exhibit # 104.

62 **MILITARY TOW TARGET** – Used by the United States military forces. Towed by aircraft for training troops in simulating fire of hand held anti-aircraft weapons (Redeye).

63 **M29 & M1, 81 MM MORTARS -** The 81-mm mortar is a smooth bore, muzzle loading, high angle-of-fire Weapon capable of a high degree of accuracy. It can deliver 18 rounds per minute at ranges up to 3,885 yards. The mortar consists of three (3) main units – the barrel, the bipod, and the base plate. Note the M29 has a threaded outside and the M1 is smooth on the outside.

64 **M-H CTL-3 COMBAT CAR-** One of five Marmon-Herrington CLT-3 vehicles delivered to the USMC in 1937 and eventually disposed of in 1942. Since then this vehicle underwent several modifications and was used in a 1940 Bob Hope movie. In 1993 it was used in the television series "Brisco County Jr." Power: V-12 Lincoln Zepher.

65 **EQUIPMENT SHELTER TOWED** – These maintenance equipment shelters are used in the field and can be configured for many uses. These (4) on exhibit are for TOW Weapons Maintenance and Electrical Equipment Maintenance. They are capable of being connected.

66 **M3 37 MILLIMETER ANTI-TANK GUN (Towed)** - When used by the US Army, it was generally pulled by a 1/4 ton Jeep. This gun was also mounted in the M3 and M5 light tanks and the M8 armored car. The towed version was used in the early part of World War II, and quickly became obsolete because it could engage only very light armor. An anti-Personnel canister round was also used. The M1 57-millimeter gun eventually replaced it.
(We are missing one trail leg)

67 **MK II UNIVERSAL CARRIER** - Commonly called a Bren Carrier. An Australian railroad company made this one in 1943. It could mount a Vickers or Bren machine gun, so as to fire on the move, and also carry a complete four-man gun squad and tripod so that the gun could be dismantled for action independently of the carrier. It was used like a Jeep by the British and Australian Armies. *STATS* – Power Ford V-8, Top speed: 30 mph.

68 **UH/1M 1323 BELL HELICOPTER GUN SHIP (HUEY)** – After it crashed in Vietnam in April 1969 it was repaired by Bell in Amarillo Texas. It was then reassigned in April of 1971 to the California National Guard. In 1993 it was transferred to our museum.

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STATS - manufactured in 1965, Cruising speed: 140 knots, Fire Power: Rocket launchers - seven 2.75" rockets on each side, a 7.62 high rate of fire machine gun which fired 2,000 to 4,000 rounds per minute, and a 40 mm grenade launcher on the nose with a rate of fire at 100 rounds per minute, Azimuth travel: 60° left or right, Elevation: + 15°, - 35°.

69 **M101 HOWITZER 105 MILLIMETER** – This is a general, light weight field artillery piece used for direct and indirect fire at 100 rounds per hour. It was used during WW II, the Korean Conflict, the Vietnam War and Desert Storm. *STATS* - Maximum range: 12,102 yards, Gross weight: 6,425 lbs. (Standard).

70 **M151A2 "JEEP"** – Used during 1973 to1990. This A2 upgrade included improved suspension to fix a roll over problem with the basic M151. These vehicles replaced the original Jeep manufactured by Willys Overland Motor Co. Manufacturer: Ford Motor Co., Cost: $3,700.00.

71 **M718 "JEEP" AMBULANCE** – Similar to the M151 (see # 70 & 72). It was used to transport the sick and wounded. Cost (new): $4,156.00.

72 **M151A1 "JEEP" WITH WINTER TOP** – This version with the winter top made it possible to be used at temperatures of –65 degrees. Cost: $2,880.00.

73 **M151A2 "JEEP" WITH TOW MOUNT** - The TOW is a Tube-launched, optically tracked, wire guided missile designed to destroy enemy armament.

74 **M151A2 WITH TOW AMMUNITION CARRIER** – Cost in 1969: $3,700.00 this vehicle is located right behind #73.

75 **M422A1 TRUCK UTILITY, LIGHTWEIGHT, ¼ TON 4X4** – This truck was nicknamed "Mighty Might". It was an air-cooled, 4 cylinder, V-4 engine with an all aluminum body designed for helicopter transport. American Motors built 3,933 Mighty Might's for the U.S. Marines between January 1960 and January 1969. Some of these vehicles were used during the early years of the Vietnam War. *STATS* – Weight 1,700 lbs., Maximum speed: 55 mph.

76 **M4A3 TANK** – 75-mm Main Gun. It was made be Ford Motor Company. 1,690 were made from June 1942 to September 1943. *STATS* - Weight: 66,906 pounds, Crew: 5 men, Armament: 104 rounds of 75 mm, 600 rounds of .50 cal., 900 rounds of .45 cal, 6,250 rounds of .30 cal 18 rounds of 2 inch smoke grenades, Max speed: 26 mph, cruising range on roads: approx. 100 miles.

77 **M48A1 MEDIUM TANK** - It was widely exported and has been used in action by Pakistan, the U.S. army in Vietnam, and by the Israeli Army in the 1967 Six-Day War. This model has a 90-mm gun and weighs 104,000 pounds. The engine is an air-cooled, V-12 with 750 horsepower, Top Speed: 30 miles per hour.

78 **K-38 TRAILER 1/4 TON PAYLOAD, TELEPHONE SPLICER** - Used during World War II by signal Corps to store and transport cable splicers, tools, and equipment. Manufacturer: York Hoover Body Corporation. Weight: 410 pounds.

79 **TRAILER, DUMP TOWED TYPE 1/2 TON** - Used by the US Corps of Engineers to carry cargo and to haul and dump earth or similar loads. Manufacturer: Converto Manufacturing Company. Net Weight: 630 pounds. *(IN RESTORATION – CURRENTLY NOT ON EXHIBIT)*

80 **M123 AIC 10-TON CARGO TRUCK** - Used to haul tanks on flat bed trailers. It has a 60,000-pound winch for loading disabled tanks. The Truck has a 300 horsepower Cummins Diesel engine. Weight: 30,000 lbs., Range: 330 miles, Top Speed: 43 miles per hour.

81 **M818 TRUCK, TRACTOR 5-TON 6x6** - Used for towing semi-trailers. This model was used from 1971 and at the present time is still in service. Engine Model: Cummins NHC 250 Diesel, Weight: 19,260 pounds, Maximum Speed: 59 miles per hour. Attached is a **M131AC** 5,000-gallon tanker trailer.

82 **26-FOOT MOTOR WHALE BOAT** - This boat was used to transport personnel and functioned as a lifeboat during World War II, the Korean Conflict, and the Vietnam War. It had a capacity for 22 men including the crew. *STATS* - Range: 100 Nautical miles at full power, Speed: 7 Knots, Fuel Capacity: 28 Gallons. Later versions were made of fiberglass.

83 **36 FOOT WOOD LANDING CRAFT** - Used during World War II and Korea to land and retrieve personnel or equipment during amphibious operations. These "Higgens boats" were considered invaluable to the D-Day landings on 6 June 1944. Its capacity was for 39 troops and a crew of 3. Engine: 6-cylinder diesel 225 horsepower Gray Marine (GMC). *STATS* – Speed: 9 Knots, Weight: 18,500 pounds, Fuel: 180 gallons, Range 110 Nautical Miles

84 **36 FOOT FIBERGLASS LANDING CRAFT** - Used during Vietnam to land and retrieve personnel or equipment during amphibious operations. It has a capacity of 39 troops and a crew of 3. The engine is a 6-cylinder diesel, 225 horsepower Gray Marine(GMC). *STATS* - Speed: 9 Knots, Fuel: 180 gallons, Range 110 Nautical Miles, Weight: 19,050 pounds.

84A **DJ-3A, Navy Jeep** – Senator Dick Mountjoy donated this vehicle in 2005. Restoration, bodywork and painting was done by WIA program youths. Named the "Dispatcher" this two-wheel-drive jeep was used for base operations only. Manufactured in 1961 by Willys Motors Inc.

85 **LARC 15** - An amphibious transport vehicle used to carry cargo from offshore supply vessels to the beach or to inland transport areas. It is powered by two 300 horsepower diesel engines. This exhibit displays a Gama Goat on board. (See # 91) *STATS* - Land Speed: 30 miles per hour, Maximum Load: 30,000 pounds, Shipping Dimensions: Length - 45 feet, Width - 4 feet, 8 inches, Height - 15 feet, 4 inches, Weight: 45,200 pounds.

86 **EX-74/EMERLEC-30 GUN MOUNT** - Carries two 30-millimeter HSS-83IL guns. This was developed for the US high-speed coastal patrol boat called the CPIC (Coastal Patrol and Interdiction Craft). It was never used, but a developed version was later exported to other countries. *STATS* - Rate of fire: 1,100 rounds per min., Muzzle velocity: 3,543 feet per sec., Maximum range: 3,500 yards.

87 **40 MILLIMETER AUTOMATIC GUN QUAD** - From the USS Missouri (BB-63) It is a Bofors anti-aircraft weapon (POM-POM) which fires fixed ammunition in four round clips. It is water-cooled and capable automatic or semi-automatic fire. This piece was acquired in 1988 when the USS Missouri was undergoing retrofit. *STATS* - Range: 9,475 yards, Ammunition weight: 4.75 pounds, Projectile weight: 2.06 pounds, Gun weight: 24,900 less protective gun tub, Rate of fire: 160 rounds per minute per gun.

87A **40 MM QUAD GUN TUB -** This is the gun shield for # 87. This exhibit is the Quad Mount Turret #2 off the USS Missouri.

88 **AN/TRA-39A TRANSPORTABLE ANTENNA**- This antenna was manufactured in 1968 and was used through 1992. It takes six men to perform the conversion from trailer to operational state in four hours. It is used in a microwave tropospheric scatter communication system. *STATS* - Range: 300-8,000 megahertz; Weight: 9,000 pounds; Height: 38 feet from top of reflection; Power Rating: 10 continuous kilowatts ***(CURRENTLY NOT ON EXHIBIT)***

89 **M60 TRAINING TANK TURRET** - With 105 millimeter gun. This mock-up was used to train gunners and loaders in their duties operating a tank turret. This piece came from Fort Knox, KN.

90 **M-792 1 ½ TON, 6X6 GAMA GOAT AMBULANCE** - This vehicle gets its name from Mr. R.L. Gamunt, the inventor, and its goat-like ability to negotiate rough country. This six-wheel drive vehicle consists of two light aluminum bodies joined by a roll-articulated joint, which allows the two units to pitch and roll independently of each other. It is also fully amphibious, propelled in water by the paddle-action of its wheels. This ambulance version (M-792) consists of a personnel heater, with warm air ducting, exhaust ducting, and a heater control box for heating the rear of the ambulance. *STATS* - Length: 18 feet 11 inches, Width: 7 feet, Weight: 7,000 pounds, Speed: 55 MPH

91 **M-561 GAMA GOAT 1 1/2 TON TRUCK** - This vehicle gets its name from Mr. R.L. Gamunt, the inventor, and its goat-like ability to negotiate rough country. The vehicle is fully amphibious, propelled in water by the paddle-action of its wheels. It was used in Vietnam. The vehicle also is articulated and it is a six-wheel drive. *STATS* - Length: 18 feet 11 inches, Width: 7 feet, Weight: 7,000 pounds, Speed: 55 MPH. (Similar to exhibit # 90)

92 **M-50 ONTOS** - A small tracked vehicle mounting six 106 millimeter recoilless rifles on a limited traverse turret. Two of the guns could be dismounted and fitted on the tripods for ground use if required. The principal drawbacks were the blast, which gave away its position and the need to reload in the open. These vehicles were withdrawn and scrapped in 1970. *STATS* - Length: 12 feet, 6 3/4 inches, Width: 9 feet, 6 1/4 inches, Weight: 19,050 pounds, Crew: 3 men, Power: Chrysler V8, gas, 340 cubic in. , 180 horse power, at 3,450 RPM, Armament: six M40AIC 106 millimeter recoilless rifles plus 18 rounds, Armor: 13 millimeter, Speed: 30 miles per hour, Range: 150 miles, Maker: Allis-Chalmers Manufacturing Company, Milwaukee Wisconsin. Total built: 297. (We need the 106-mm recoilless rifles to complete the vehicle. See exhibit # 118.)

93 **M53 155 MILLIMETER SELF-PROPELLED FIELD ARTILLERY GUN** - Made in 1952-1956. The US Marine Corps retained a number of M53's and gave them up in the early 1970's. This vehicle carried twenty 155 millimeter rounds. *STATS* - Maximum range: 16,355 yards, Weight: 96,000 pounds, Power: Continental V-12 gas, 704 horse power engine, Range: 160 miles, Manufacturer: Pacific Car and Foundry.

94 **M37 CARRIAGE, MOTOR 105 MILLIMETER HOWITZER** - A light weight 105 millimeter developed on an M24 tank chassis. *STATS* - Length: 18 feet, Width: 9' 10", Height: 7' 11", Weight: 46,000 lbs., Manufacturer: General Motors, Power twin Cadillac, gasoline engines. We need parts to complete this exhibit.

95 **M114 COMMAND AND RECONNAISSANCE CARRIER** - Developed in the late 1950's. The first issues took place in 1961 with a total of 3,710 being built overall. This vehicle was used in Vietnam but it was found to have poor cross-country performance. It was finally removed from service in the early 1980's. The commander was provided with a 50 caliber machine gun. The additional crewmen had 7.62 M60 machine guns. *STATS* - Weight: 14,749 pounds, Speed: 36 miles per hour, Manufacturer: Cadillac General Motors, Power: GMC 283 cubic inch V-8

96 **M114A1 COMMAND AND RECONNAISSANCE CARRIER** - Same as M114, # 95. This A1 upgrade comes equipped with a remote-controlled 20-millimeter Hispano-Suiza SV12A Cannon. *STATS* - Weight: 16,945 pounds, Speed: 36 miles per hour, Manufacturer: Cadillac General Motors, Power: GMC 283 cubic inch V-8 gasoline engine.

97 **M47 "PATTON" TANK** - This tank is equipped with a 90 millimeter gun with fume extractor, optical range finder and ballistic computer. This was an interim measure for the M48 tank. The M47 was exported in large numbers and this particular M47 tank was a NATO loan to Italy. *STATS* - Weight: 92,880 pounds, Crew: five, Armament: one 90 millimeter M36 gun, two 30 caliber machine guns, and one 50 caliber machine gun, Top speed: 37 miles per hour, Range: 100 miles on 270 gallons of gasoline, Ammunition: 71 rounds of 90 mm, 3,440 rounds of 50 cal., 180 rounds of 45 cal., 4,125 rounds of 30 cal., 90 rounds of 30 cal. carbine, 8 smoke grenades, and 12 ground signals, Engine: Continental model AV-1790-5b, 12-cyl. gasoline, 810 horsepower.

98 **7.5 CM GEBIRGSKANONE 15** - The 7.5 centimeter Geb K 15 was the first mountain gun to be provided to the German Army in World War I. This was a Skoda design adopted simply as a stopgap until better German designed weapons could be produced. Firing a 5.1-kilogram shell, it could reach a maximum range of 7,245 yards and could elevate from 9 to 50 degrees. It could be stripped into seven pack loads, the heaviest, which weighed 344 pounds. This gun was donated by the Greek Army Museum in 1967. It was fully restored by Mike Wolstenholme in 1985.

99 **M211 2 1/2 TON TRUCK 6X6**- Used in Vietnam. Engine: gasoline, GMC 302 cubic inch, straight 6-cylinder, Automatic transmission, Top Speed: 55 miles per hour, Range: 300 miles.

100 **1 1/2-TON TRUCK** - Manufactured by Chevrolet. Used in World War II as a general purpose pick-up. Al Asher & Sons donated this truck. *STATS* - Weight: 8,215 pounds, 6-volt electrical system, 217 cubic inch gasoline engine, Top Speed: 48 miles per hour.

101 **M62 TRUCK WRECKER, 5 TON, 6X6 –** This multi-service wrecker/crane was designed and built in the mid 1950's for light field and base operations. These Wreckers were phased out of service in the late 1990's because they were to light to handle the heavier vehicles used today. *STATS* - Power: Gas engine, Vehicle weight: 33,675 lbs., Crane lift capacity: 10,000 lbs., Winch, front: 20.000 lbs., Winch, rear: 45,000 lbs.

102 **M563 3 1/2 TON, 2 WHEEL USMC TRAILER LAUNDRY UNIT –** Trailer mounted with a capacity of 60 pounds of laundry per hour. Manufacturer: Troy Laundry Machinery, Weight: 9,300 pounds.

103 **MB-5A GENERATOR 10KW DIESEL TYPE** - Made February of 1966.
(CURRENTLY NOT ON EXHIBIT)

104 **M35 TRUCK CARGO 2 1/2 TON 6X6** - Used to haul troops or supplies. *STATS* - Engine: R.E.O. OA331 6-cylinder gas engine, Weight: 12,460 pounds, Range: 350 miles.

105 **FRENCH 25 MM ANTI-TANK GUN**- Made in 1934 by Hotckiss. It fired a shell weighing 0.7 pounds with an affective range of 1,970 yards. This meant that the crews could only engage very light armor. The British in World War II used a number of these guns. This gun was disassembled, sandblasted, and repainted with polyurethane. Still waiting for tires.

106 **MB-2 TRACTOR**- Aircraft towing class 2 made by Grove in 1985. Weight: 54,180 pounds, Four wheel steer, Powered by the Cummins B-series engine. This tractor is the museum operations workhorse and could be found almost anywhere on the museum grounds.

107 **M-59 APC** – This armored personnel carrier was introduced to replace the M75 with a cheaper and amphibious armored personnel carrier, but it turned out to be under powered and lacked amphibious capability. Power 2 GMC, 6-cylinder gas engines, Crew of 2 and ten passengers, Top speed: 32 miles per hour, Weight: 42,600 pounds. Made in 1953 and used until the 1960's.

108 **M578 – ARMORED RECOVERY VEHICLE, FULLY TRACKED** - The M578 is a low, all-welded steel hull, fully tracked vehicle with an armored, independently operated cab and crane mounted on the hull near the rear of the vehicle. The hull, power plant and running gear are similar to those of the M110 self-propelled 8-inch howitzer. The M578 is used to recover light tanks, or trucks, which have bogged down, turned over, or become disabled. The vehicle can also be used as a wrecker to tow disabled vehicles or as a crane at a repair base.
STATS - Crew of 3, Weight: 54,000lb, Hoist capacity: 30,000 lb., Tow winch: 60,000lb, Fuel capacity: 320gal. Top speed: 37 mph, Range: 450 miles.

109 **M106A1** - Built on an M113A1 carriage this vehicle was designed to transport and support the 4.2 inch M30 mortar. The mortar is fired from inside the rear of the carrier through a hatch in the roof. The mortar can also be removed from the carrier and used from the ground. The carrier is air transportable and can be parachute dropped. Combat weight: 23,700 lbs., Fuel capacity 95 gal., Mileage: 3.2 mpg.

110 **M901 APC WITH TOW** - It consists basically of an M113A1 armored personnel carrier that has been modified to carry an armored cupola or weapon station. A large pod, containing two tows, a day sight, AN/tas-4 night sight and target acquisition sight, is attached to the base of the cupola by lifting arms. TOW is an acronym for tube-launched, optically- tracked, wire- guided, and describes a heavy assault ground-to-ground (or air to ground) anti-tank guided weapon system. Powered by a GMC V6 diesel engine. Built by FMC, San Jose, CA.

111 **M42 DUSTER** - Self-propelled 40 MM Anti-aircraft Gun System. In 1951 production started on the M-42. Production stopped in Dec. 1953 after the Cadillac motors car division of General Motors made 3,700. Many components are also used in the M41 light tank and the M37 self-propelled 105 mm gun. A 6 man crew was needed to fire and load the two 40mm guns. Although they never really saw much action as anti-aircraft weapons, the M42's two 40mm guns were highly effective in the ground support role in Vietnam. 480 40mm rounds were carried. The engine is a continental AOS-895-3 6-cylinder, air-cooled supercharged gasoline engine, 500 hp. Two Dusters are on display exhibiting the front and back.

112 **M60A1 TANK** - The last of the Patton series of tanks. This was the first American tank to use a multi-fuel engine, which burns either gasoline or diesel. The M60 has a 105-mm gun with a xenon and infrared light in the box above the gun. This helps the gunners to see and aim the gun at night. The collar around the gun tube is a bore evacuator, which helps keep gases (from burned gunpowder) out of the crew compartment. *STATS* - Height: 126 inches, Width: 143 inches, Length: 320 inches with the gun in travel position, Weight: 47.5 tons, Max. speed: 30 mph. Last used in1997 by the USMC. The M60 has been replaced by the M1 Abrams MBT.

113 **M551 SHERIDAN AIRBORNE TANK** – The lightweight welded aluminum hull mad it possible to transport this tank by air and drop by parachute. The short-barreled 152-mm gun can fire a Shillelagh guided anti-tank missile whose direction can be controlled after it leaves the muzzle as well as conventional ammunition. A total of 1,700 M551 tanks were produced starting in June 1966. Although it was never really very successful it has yet to be replaced by a more modern design. This tank was assigned to the National Training Center at Fort Irwin where it was used to simulate Soviet T72s and BMPs as the "aggressor force". Its' engine is a V 6-53T Detroit Diesel, Weight 28,535 pounds.

114 **M548 CARRIER CARGO FULL TRACKED** – This 6-ton amphibious, tracked cargo carrier is capable of operating in lakes & streams, extended cross-country operation, over rough terrain, and high-speed operation on improved roads. Used to move ammunition to the artillery gun in the field. The low weight of the carrier enables it to be transported by cargo aircraft to the using forces. Part of the M113 family if armored personnel carriers. Powered by a GMC V6 diesel engine. Built by FMC Corp, San Jose, CA.

115 **QUINTUPLE (5) TORPEDO TUBES** - Used on board light cruisers from 1930 to 1946. This unit fired 21-in MK14 series torpedoes. Dimensions: 21 inch diameter by 246 inches long, Torpedo Weight: 3,209 lbs. Range: 4,500 yards on steam turbine power.

116 **K-GUNS** - Used to launch depth charges in anti-submarine warfare.

117 **MK 6 MINE** - This antenna mine was developed during World War I for the North Sea Anti-submarine barrage and subsequently became the main US surface-laid contact weapon. The MK 6 was also used during World War II and was probably distributed to U.S. allies' post-war. It was a 34-inch sphere containing 300 lbs. of TNT. (1400 lbs. total, including sinker) and could be moored in up to 3,000 feet of water.

118 **M40A1 106 MM RECOILLESS RIFLE** - The 106-mm rifle is a lightweight recoilless weapon intended for use in both anti-tank and anti-personnel roles. The ammunition cartridge case is perforated to permit the expanding gases of ignited propellant power to escape evenly into the enlarged reaction chamber. Six of these rifles are used on the M-50 ONTOS (# 92) Total weight: 483 pounds. Maximum range: 8,400 yards.

119 **M988 HUMMVW (aka) HUMVEE/HUMMER)** - The hummer is the replacement for the jeep, 1 1/2 and 2 1/2 ton trucks. Hummers can be configured with 2 door or 4 doors. There are also light-armored variants as well as ambulance, communication and tow missile carriers. The museum used 5 wrecked hummers to build this complete vehicle. Weight: 5,280 pounds, Width: 96 inches less mirror.

120 **M 1916, 7.7 CM M96NA GERMAN FIELD GUN** - First World War artillery piece. It had a range of 8,530 yards, and a muzzle velocity of 1,571 feet per second. Weight in action: 2,040 lbs., shell weight 15.1 lbs. This gun was a gift of the French government in recognition of Lueien Brunswig's help in the war. The Brunswig Drug Company gave this gun to the city of Los Angeles for Exposition Park in the 1920's.

121 **16 INCH ROUND, fired** – This is a 2,700 lb. AP (armor piercing) shell. The battleship guns that fired it have a maximum range of 40,185 yards (23 miles). The AP round will penetrate 30 feet of concrete. In Vietnam, single rounds were used to clear 200-yard diameter landing Zones in triple-canopy jungle. The rounds made craters 50 feet wide and over 20 feet deep.

122 **BRIDGE BOAT -Two Pieces** - Used by Army engineers to maneuver and connect sections of floating bridges. This unit has two (2) Detroit 3-53 Diesel engines.

123 **KL250-D7 KAWASAKI Motorcycle, GED, Two-wheel, rough terrain** - Made in 1991 and used by the USMC for reconnaissance, messenger service, and police operations. Used until 1995.

124 **M74 ARV (Armored Recovery Vehicle)** - (1953 to 1960) The M74 is basically an M4A3-E8 hull and chassis (see #53) with horizontal springs and wide tracks. The turret is replaced by a fixed structure, which carries a winch in front. A second winch inside the hull has a hydraulically erected jib crane. A bulldozer-type blade is used as a stabilizer when wincing or lifting. *STATS* - Length: 26' 1", Width: 10' 2", Weight: 93,750 lbs., Crew: 4, Power: Ford GAA V-8, 500 hp, Top Speed: 21 mph, Range: 100 miles. Makers: Bowen MacLaughlin York, and Rock Island Arsenal.

125 **SKODA 37 MM CANNON P.U.V. Vs37.L** - The Skoda Model m37 was an updated version of the earlier model M.34 anti-tank gun. It was a modern, efficient and a hard-hitting design that used a spring carriage with either pneumatic tires or solid wood spoke wheels. It was not only used by the Czech forces, but also by the Germans. When the German army took over in 1938, they also took over the Czech. guns. *STATS* - 3.7 (t), Traverse: 50^0, Elevation: -8^0 to $+26^0$, Weight: 815.85 lbs., Muzzle velocity: 2,640 feet per second.

126 **M51 HEAVY RECOVERY VEHICLE** - Based on the M48 medium chassis (see #77). It is a front mounted cab and a center mounted crane. It weighs 60 tons and can tow an M60 tank, which weighs 47.5 tons, up a 50% grade. (See #112)

127 **57-MM ANTI-AIRCRAFT GUN M 1950 (s 60)** - This weapon was manufactured in the Soviet Union in 1952. Sometime in the 1950's or 1960's it was sold to Iraq, where it remained until February 1991. In January-February along the road to Basra, Iraq, this weapon was captured by the lead elements of the United States 3rd. ACR (Armored Calvary Regiment).

128 **MC-2500 30 TON CRANE**- Produced by Drott Manufacturing, a division of Case. Made in 1978 for the USMC. *STATS* - Weight: 72,200 lbs.(36.1 tons), Height: 155 inches, Width: 118 inches, Length: 540 inches.

129 **CJ-5 1976 "JEEP"** - Repainted by SYPT (Summer Youth Employment and Training Program) during the summer of 1996. ***(CURRENTLY NOT ON EXHIBIT)***

130 **S-559/TYC-5AV SHELTER, ELECTRICAL EQUIPMENT** - It houses equipment used for various utilities such as: communications; radar operations; and electronic data gathering & processing. Outfitted as an **AN/TYC-5A (V)** USMC tactical communications terminal, it interfaces with other equipment as a support system, processing encrypted information on the battlefield. The DOLLY SET, LIFT, 5-1/4 TON TRANSPORTABLE SHELTER is used for transportation and is composed of two components: front – **M-832 DOLLY TRAILER, FRONT** & rear- **M-834 DOLLY TRAILER, REAR.** ***(CURRENTLY NOT ON EXHIBIT)***

131 **NF-2 FLOODLIGHT SET PORTABLE** – Used by the U. S. Air Force, Navy and Marine Air Corp. where they were deployed in forward air bases where no electricity was available. Its purpose is to provide lighting for ground crews during nighttime operations for aircraft maintenance, refueling and reloading of bombs or missiles. Lamps are mounted on a scissors platform and can extend more than 10 feet high. Used during the Vietnam War and is still in use today. *STATS* – Weight: 1,200 LBS., Power: gasoline operated generator, 120 volts, 60 HZ, 2 KW, Manufactured: November 1970. ***(CURRENTLY NOT ON EXHIBIT)***

132 **PROPELLER** – This is the port side propeller removed from a U.S.N. Mine Sweeper. This exhibit weighs 14,300 pounds, 12 feet in diameter and is a magnesium bronze alloy material.

133 **MJ-1A TRUCK, LIFT-TYPE, BOMB LOADER** – This exhibit is one of several bomb loaders used by the U. S. Air force for loading bombs (ordnance) on aircraft. Capacity: 3,000 lbs., Manufactured in 1976 by the Standard Manufacturing Co. Inc. Included with this display is a RMK33/A 37U-33 tow target.

134 **CUSHMAN SCOOTER 'TRUCKSTER"** – Manufactured in the 1950's and used by the U. S. Armed Forces for lightweight transportation of parts, equipment and material.

135 **BOMB TRUCKS, various** – Displayed are 3 examples of various towed bomb and torpedo carts used for handling & transporting large bombs or torpedoes from storage to aircraft or navy vessels.

136 **AIRPLANE JACK** – Used for lifting (jacking) up the center-bodies of aircraft up off the ground in order to perform work on landing gears, landing gear hydraulic lines and changing tires. Most often this type of work required the landing gears related equipment to be completely off the ground.

137 **TORPEDOES** – Displayed are an assortment of torpedoes.

1. **Mk 48** (large) and **Mk 32** (small) dummy torpedo heads. (currently on loan from the U. S. Navy.)
2. A complete dummy torpedo used to simulate various configurations of weight.
3. Two large fake torpedoes on a transport cart. These fake torpedoes were used as movie props in "12 O'clock High" and "Tora, Tora, Tora."

138 **M56B1, TRUCK CHASSIS, ¾ TON 4X4, WITH WINCH** – This exhibit is set up as a lightweight maintenance vehicle used by the U. S. Army Corp of Engineers. Commonly known as a Mobile Shop. Designed to travel on highways, and in rough terrain-mud, sand and snow. The chassis is a standard based on the M-37, which had multiple set-ups. This is just one of many configurations used for this standard cab & undercarriage (See exhibit 11).
STATS – Equipment: 360 amp. Hobart PTO (Power Take-off) Welder, Gross weight: 8,440lbs., Payload: 3,175 lbs., Engine: 6 cylinder, 78 hp gasoline powered, Electrical System: 24 volt waterproof electrical system, Manufactured: Dodge, 1963.

139 **M1009, CUCV TRUCK, UTILITY ¾ TON, 4X4** - Non-Tactical Chevy Blazer type, designed for highway and light duty off road use. Multiple –use- vehicle. *STATS* – Weight: 5,220 lbs., Engine: Diesel-V8, Liquid cooled, Fuel: 27 Gal., Electrical System: 12 and 24 volt electrical systems, Manufactured: 1983

140 **M1008, CUCV TRUCK, CARGO, 1¼-TON, 4X4** – Non-Tactical Chevy pick-up designed for highway and light duty-off road use. Commercial, single rear-wheel multiple use light duty truck. The USMC used this exhibit. *STATS* – Weight: 5,900 lbs., Engine: Desiel-V8, Liquid cooled,
Fuel: 20 Gal., Electrical System:12 and 24 volt electrical systems, Manufactured: 1983

141 **M1010, TRUCK, AMBULANCE, 1 ¼ TON, 4X4** – A non-tactical vehicle used for light duty transport of sick or injured troops. Air-conditioned for troop comfort. Designed for highway and light duty, off- road use. *STATS* – Weight: 7,360 lbs., Engine: Desiel-V8, Liquid cooled, Transmission: Automatic, Fuel: 20 Gal., Electrical System:12 and 24 volt electrical systems, Manufactured: 1985

142 **25MM BUSHMASTER "CHAIN GUN"** - Based on the M242, gun, automatic, 25-mm. This gun has a bicycle type chain-operated breach, hence the name "CHAIN GUN". Similar units are currently used on the Bradley and LAV fighting vehicles and the Apache helicopter. This exhibit is an experimental model used for target acquisition (track & lock on target). *STATS* – Weight: 224 pounds, Overall Length: 108.7 inches, Operation: Electric, Feed, Dual, Muzzle Velocity: Combat-4,462 Ft/Sec. Rate of Fire: Single Shot – 100, 200 400 SPM.

143 **AN/TVS-3 SEARCHLIGHT, Towed** - This exhibit was used by the U. S. Army Electronics Command. Designed to hook up to a generator. Used by the U. S. Army, USAF, USMC & USN. During the Vietnam War it was used for spotting ground targets to assist Artillery fire. Two parts make up this searchlight unit – MX-7999/TSV, Searchlight & V-416/TVS-3, Trailer. *STATS* – Gross weight 1,500 lbs.

144 **Air-Raid Signal** - Used in the 1950'/1960'. If you're over 40 you can remember the last Friday of the month at 10:00 a.m., they would test these. This one was donated to the museum by the city of Beverly Hills. Made by Federal Sign & signal Co.

145 **Soviet SA-6 SAM (Surface to Air) missile battery mock-up.** This was used in the Paramount movie "The Sum of all Fears". ***(CURRENTLY NOT ON EXHIBIT)***

146 **Type 95 Ha-go Japanese Light Tank** – Mock-up of a Japanese light tank made for the movie, MGM's, "Windtalkers". The tracks, roadwheels and transmission are from a U.S. M-5 hi-speed. artillery tractor.(on loan from MGM)

147 **MK118-2 ASROC – ASW (Anti-Submarine Warfare) Rocket-propelled torpedo.** Used from 1960/1993 for standoff Anti-Submarine warfare. This exhibit is fitted for an air-launched MK-26 Launcher. It is designed to fly to the target area where it continues the path into the water in search of the intended target. Some variants were fitted with nuclear warheads. Weight: 949 lbs., Range: max about 10,000 yards, 3,500 yards for the nuclear version

148 **XM 468 Dispenser bomb** - This bomb was made in 1961 for the Navy to be fitted to F-100 and F-105 aircraft ,weight 830 lbs.

149 **M5 A1 Stuart light Tank** - Made by General Motors in Southgate CA in 1943. This tank is on loan from MGM after filming the movie "Windtalkers" Oct. 2001. *STATS* – Weight: 33,484 lbs., Max speed:40 mph, Armament: one 37mm,two 30 cal machine-guns, power: two modern Chevy V-8's two automatic transmissions. R. Lee Ermey used this tank in the History channel program "Mail Call"

150 **MK6/MOD4** - Missile Transfer dolly with Terrier missile booster

151 **International 2-4** - 1 ton truck made in 1942 for the USMC. This truck is on loan from the MGM after the filming of" Windtalkers"

152 **AQM-37A Target Drone System, Expendable** - Used by the U S Army/US Navy for target practice. This is a non-recoverable, supersonic, air-launched missile target system designed to simulate invader aircraft and missile threats. Power plant: one Rocketdyne/AMF lr64 dual-chamber liquid-propellant rocket-engine, Operating speed :mach 0.4 to mach 3.0 Endurance: 8 minutes, Manufacturer: Beach Aircraft

153 **BDU 24/b Dispenser bomb/anti-personal** – This weapon is fused to detonate above the ground dispersing 650 explosive bomblets. Each bomblet fractures into 300 fragments of steel. This bomb system can cover an area the size of a football field. It can turn an apple orchard into applesauce or people into hamburger.

154 **MK 116, Mod 0, Bomb Chemical Agent GB, (Weteye) -** The Mk 116 Mod 0 Bomb is a high agent-to weight ratio bomb filled with chemical agent GB. The bomb body has a thin aluminum alloy wall. Weapons stability is achieved by 4 folded, spring-loaded fins, which are extended upon released from the aircraft. When the bomb is released from the delivery aircraft, fuse arming occurs. The fuse detonates burster charges, which splits the bomb body and disperses the chemical agent in the form of aerosol.

155 **Tarrier missile** - Developed in the early '50s and test fire and White Sands in 1952. The Tarrier missile was a navy supersonic surface to air two stage missile. The missile is 27 feet long with a 12-inch diameter, the complete weight of the Terrier system including booster his 3000 lbs. The Tarrier has a range of 15 miles and operating ceiling of 10 miles.

156 **Ford GAA Engine** – Aluminum, Dual Overhead Cam, V8, liquid cooled gasoline engine. *STATS* – Weight: 1560 lbs., Horsepower: 500 max. Used in Sherman tanks.

157 **W670 Continental Ordinance Engine** – 7 cylinder gasoline radial engine. These engines were used in the M3 Stuart Tanks and on tracked landing crafts during WW II.

158 **Type 97 Japanese 150mm Mortar** – These mortars were introduced in 1941 with a production run of only 110. *STATS* – Weight: 754 lbs, mortar shell weight: 52.5 lbs, Range: 4211 yards.

159 **MK-82 General Purpose Bomb (GPB)** – 500 pound dumb bomb with snakeye fins. This series of bombs started production in the 1950's. The snakeye fins allowed hi-speed aircraft to drop these bombs at low altitude without taking any concussion from the bomb blast.

160 **MK-84 General Purpose Bomb (GPB)** – 2,000 pound dumb bomb. These bombs have no guidance system and are free falling. 12,000 of these bombs were dropped during Desert Storm (1991) from USAF F-15E, F16 & F-111F jet aircraft.

161 **M71 Crane** – These wheel-mounted cranes were used by the US Marines to build bridges. *STATS* – Weight: 21,000 lbs, capacity: 6.000lbs., Manufacturer: Anthony & Co.

162 **Trailer, 6 Cylinder Oxygen Recharger** – Used by the Bureau of Aeronautics and the US Navy. Manufactured by Spen & Co.

163 **Propeller (AKA Screw)** – Made of brass and iron. Weighs approximately 29,000 lbs.

164 **US Navy Gun, 1.45 caliber** – Restored in 2002. Stamped, dated 1895 on the barrel.

165 **Mark 44 Torpedo** – Acoustic torpedo designed to home in on the sounds that submarines make. It uses a salt water activated battery. It weighs 432 lbs. with a range of about 1,000 yards using a spiral search pattern. Launched from ships, planes and helicopters.

166 **Various Projectiles**

167 **WC-27 Dodge ½ Ton Ambulance, 1941** – WWII ambulance used a two man crew and could carry 4 litters/patients. This vehicle was used on both the original M*A*S*H movie and the series. *STATS* – Weight: 5.640 lbs, Maximum speed: 55 MPH.

168 **US Navy Ordinance & Maintenance Crane** – 6,000 lb. Max lift. Manufacturer: Baker

169 **Ingersol-Rand Compressor**

170 **U.S. Navy Radar Dish**

171 **Anchor & Anchor Float** – Anchor floats are attached to chains that go down to heavy cement blocks under water. When a ship enters the harbor they can anchor to the attached chain, which is more secure than the ships anchor.

172 **M706/V100 Cadillac/Gage, Light Armored Car, 1965** – Amphibious armored car used as a personnel carrier for "recon" (reconnaissance), convoy escort, riot control and security. Provided protection by using angled surfaces with up to ¼ inch armor. This 4 wheel-drive vehicle is powered by a Chrysler V-8 gasoline engine. The American forces used it during the Vietnam War. This vehicle was on loan to the Los Angeles Police Department (LAPD) from 1983 to 2004 as a rescue vehicle.

173 **FV 603 Saracen** - Designed and built by Alvis in 1952 this 6 wheel drive APC (Armored Personnel Carrier) or Troop Carrier served with the British army until the 1990's, latterly in an urban role in Northern Ireland, and in service with many other countries. Most all the vehicles are retired from service. It has a speed of 45 mph, good cross-country performance and the ability to operate on 5 wheels to cope with the mine damage. Besides the driver and commander, it included room for a squad of 8 soldiers plus a troop commander. Most models carried a small turret on the roof, carrying a U.S. Browning .30 caliber machine gun. A .303 British Bren gun could also be mounted on an anti-aircraft ring-mount accessed through a roof hatch and there were ports on the sides through which troops can fire

174 **8" Howitzer** - This gun fires a 200-pound H.E. (High Explosive) round at ranges greater than 10 miles. It was used against heavy fortifications, lines of communication, gun emplacements and bridges well behind enemy lines. Used during WWII, Korean Conflict and Vietnam. The 8" Howitzer is similar to and slightly heaver than the 155-mm but can fire a round that weighs more than twice as much. An example of the 155-mm gun is mounted on the M53 Self-Propelled Field Artillery Gun (exhibit 93). S*tats* - Caliber: 8 inch, Length: 17.5 inches, Muzzle velocity: 1,950 FPS, Range (max): 18,510 yards, Firing mechanism: Percussion Hammer, Rate of fire: short burst, 1 round per minute, Sustained, 1 round per 2 minutes, Carriage, towed – M1, Weight – (tube & breech)....10,240 lbs.

175 **EXTERNAL FUEL TANK, 600 GALLON** – This exhibit is commonly known as a drop tank. This particular exhibit was designed for the F-111 medium-bomber jet aircraft. Manufactured and donated by Sargent Fletcher Inc. There are 3 separate fuel compartments designed for balance and was filled with JP-4 jet fuel. The purpose of the drop tank is to give the aircraft "LONG LEGS", that is, extended range to take off from rear or distant airfields, penetrate deep into enemy territory, complete the mission and return.

TERMS USED IN THS BOOKLET:

APC Armored Personnel Carrier. Used to transport troops in the battlefield.

CCKW – C (1st)= Design year 1941, **C** (2nd) = Type of vehicle, Standard Cab, **K** = Front wheel dive **W** = rear wheel drive

DUKW – D = Design year 1942, **U** = Amphibian, **K** = Front wheel dive, **W** = rear wheel drive

GI- Most commonly known as a United States Soldier (General Infantry) Another term for this is General Issue.

HMMWV - High mobility multi-purpose wheeled vehicle (pronounced *Humvee*) The modern descendant of the 'JEEP'.

NATO - North Atlantic Treaty Organization

STATS **-** General information and performance data/statistics

TOW - Tube-launched, optically tracked, wire guided missile. A heavyweight anti-tank missile used by the US and it's allies.

USMC – United States Marine Corp.

World War I "WWI"	1914 to 1919
World War II "WWII"	1939 to 1945
Korean Conflict	1950 to 1953
Vietnam War	1965 to 1973
Gulf War "Desert Storm"	Jan 16, 1991 to Mar 3, 1991

Nomenclatures:

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ABC-123(V)
^^^ ^ ^
|||  | +---- Version
|||  +------- Model
||+---------- Purpose
|+----------- Type of equipment
+------------ Installation
```

Installations:

A - Airborne	P - Pack, Portable
B - Underwater	S - Water, Surface Craft, Ship
C - Air Transportable	T - Ground, Transportable
D - Pilotless Carrier	U - General, Utility
F - Fixed	V - Ground, Vehicular
G - Ground, General	W - Water, Surface and Underwater
K - Amphibious	Z - Piloted and Pilotless Airborne Vehicle Combination
M - Ground, Mobile	

Type:

A - Invisible Light, Heat, Radiation	M - Meterological
B - Pigeon	N - Sound in Air
C - Carrier	P - Radar
D - **Radiac** (*Radiation Detection, Indication And Computation*)	Q - Sonar
E - Nupac	R - Radio
F - Photographic	S - Special Types
G - Telegraph or Teletypewriter	T - Telephone (Wire)
I - Interphone and PA	V - Visual and Visible Light
J - Electromechanical	W - Armament (not otherwise covered)
K - **Telemetering** - *Transmitting the readings of instruments to a remote location by means of wires, radio waves, or other means. Also known as remote metering; telemetry.*	X - Facsimile or Television
L - Countermeasures	Y - Data Processing

Purpose:

A - Auxillary Assemblies	N - Navigation Aids
B - Bombing	P - Reproducing
C - Communications	Q - Special or Combination of Purposes
D - Direction Finding	R - Receiving
E - Ejection Release	S - Detecting Range Bearing
G - Fire Control	T - Transmitting
H - Recording	W - Control
L - Searchlight Control	X - Identification and Recognition
M - Maintenance and Test Assemblies	Y - Surveillance (search, detect, and multiple target tracking) and control (both fire control and air control)

Model: One up number for each different model

Version: Letter(s) designating differing versions