

TECHNICAL MANUAL

**PAINTING, MARKING, AND LIGHTING
REQUIREMENTS
FOR USAF VEHICLES**

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SECTION I

GENERAL

1-1. PURPOSE.

The purpose of this technical order is to provide minimum lighting requirements and instructions and procedures for painting and marking of USAF vehicles.

b. The provisions of TO 35-1-3 apply to equipment of a vehicular configuration designated USAF Ground Support Equipment (GSE).

1-2. GENERAL.

a. The provisions herein apply to all vehicles assigned to the USAF and are identified in Federal Supply Groups 23, 24, 38, 39, 58 and Federal Supply Classes 1740 and 4210.

c. The term "vehicle" includes wheeled, tracklaying, and combined wheeled and tracklaying vehicles and chassis powered by a self-contained power unit, trailers, and semitrailers.

SECTION II

PAINTING OF VEHICLES

2-1. REQUIREMENT FOR PAINTING.

a. Repainting of vehicular equipment is authorized when adequate protection must be afforded against corrosion and the cost of repainting is less costly than spot painting. Repainting of surfaces which have been repaired following an accident is also authorized. However, equipment will not be repainted merely to change the color, gloss characteristics or to improve the appearance, except as indicated in step b. below. Frequent washing and appropriate maintenance of paint by operators will maintain the desired vehicle appearance. Normal deterioration of painted surfaces, such as chips, scratches, and minor corrosion, is to be expected and shall not be cause for complete repainting of a vehicle. Equipment programmed for replacement and removal from the inventory will not be repainted.

b. The Commanding Officer MAJCOM concerned may authorize refinishing of vehicles in colors specified in paragraph 2-2, when security factors are involved.

c. Spot painting, in lieu of complete refinishing, will be accomplished to the greatest extent when considered practical. Paint in aerosol cans may be used to refinish small areas IAW TO 42A-1-1.

d. Bare surfaces of sections of bodies and sheet metal, which have become exposed by deterioration of paint or by accident, will immediately be spot painted to prevent deterioration of the sheet metal.

2-2. AUTHORIZED COLORS. (See Section V.)

2-3. For camouflage purposes, theater commanders in overseas areas are authorized to deviate from the colors prescribed herein.

a. This authorization can also be applied to vehicle marking procedures, such as the use of lusterless black enamel for marking a vehicle painted olive drab (OD). An example reflecting overseas command exercise of this authority is project Tone Down as authorized by USAFER 400-16. It is not necessary that overseas command deviations to color/markings procedures provided in paragraph 2-3 be published in this Technical Order; nor will prior approval by WR-ALC on an individual basis be required.

b. Within CONUS, prior approval for deviation from the prescribed color and marking procedures must be obtained from WR-ALC/LVRD.

2-4. Air Force general administrative use vehicles including sedans, station wagons, school

buses, truck tractors, etc., shall be painted strata blue, color number 15045 of Federal Standard 595.

NOTE

When painting late model vehicles that have been painted with manufacturers acrylic type paint and primer, paint matches may be accomplished by the wet sample method. The paint for these vehicles may be procured through established local purchase procedures/COPARS as required to match color and type of paint to meet manufacturers specifications.

2-5. Crash, fire, and rescue, structural and ramp fire fighting, Fire Chief and Assistant Fire Chief vehicles shall be painted full gloss lime yellow iron polyurethane paint, NSN 8010-01-036-3493. Interior of fire fighting vehicles shall be painted semi-gloss green, color number 24300. All other administrative use motor vehicles used to support fire fighting vehicles will remain the color specified in purchase requests. They may be equipped with distinctive identification markings, sirens, and rotating beacons as required for emergency use, provided that these items are affixed to a removable roof mounted rack. The rack may be marked to identify a particular fire fighting function.

2-6. Refuse collection vehicles shall be painted semi-gloss dark green, color number 24052 of Federal Standard 595.

2-7. Aircraft refueling vehicles shall be painted full-gloss dark green, color number 14052 of Federal Standard 595.

2-8. Fuel/oil servicing units, purging fluid, and waste fuel vehicles shall be painted semi-gloss dark green, color number 24052 of Federal Standard 595.

2-9. Liquid oxygen/nitrogen transporting equipment compressed gas semi-trailers and propellant semi-trailers shall be painted as specified below:

a. Liquid oxygen/nitrogen transporting equipment shall be painted strata blue, color number 15045 of Federal Standard 595, except the top three-fourths of the tank which shall be painted full gloss white, color number 17875. Interior of compartments shall be painted semi-gloss green, color number 24533 of Federal Standard 595.

NOTE

When storage compartments and trim prohibit painting the top three-fourths of the tank white, i.e., A/M32R-6, the tank will be painted white down to the top of the storage compartments.

b. Compressed gas cylinder semi-trailers shall be painted semi-gloss green, Color Number 24052, except the cylinders. All cylinders shall be painted full gloss white, color number 17875.

c. A/M32R16 and A/M32R-17 propellant semi-trailers will be painted dark green semi gloss, color number 24052, except the top three-fourths of the tank shall be painted full gloss white, color number 17875 of Federal Standard 595. Interior of compartments shall be painted strato blue, color number 15045.

2-10. Compact law enforcement sedans NSN 2310-01-018-6668 shall be painted full gloss white, color number 17875.

2-11. Base maintenance/construction vehicles shall be painted semi-gloss dark green, color number 24052 of Federal Standard 595 with paint conforming with MIL-83286.

2-12. Standard material handling equipment, i.e., tugs, forklifts, trailers, and tractors used in general administrative handling of material, shall be painted semi-gloss dark green, color number 24052 of Federal Standard 595 with paint conforming with MIL-C-83286.

2-13. 463L material handling equipment, vehicular ground support equipment (GSE), i.e., industrial tow tractors, aircraft tow tractors, tactical military design (M series) vehicles, mobile tactical communication systems equipment/vehicle, mobility coded vehicles and those vehicles requiring tone down paint, shall be painted semi-gloss dark green, color number 24052 of Federal Standard 595 with paint conforming to MIL-C-83286.

2-14. Ambulances shall be painted as specified below:

a. Metropolitan/van type and modular emergency ambulances shall be painted full gloss white, color number 17875 of Federal Standard 595. A 6 inch wide continuous stripe of full gloss orange, color number 12473 shall be painted immediately below the windows the entire length of both sides and rear of the vehicle.

b. Military tactical design and commercial field ambulances shall be painted semi-gloss dark green, color number 24052 of Federal Standard 595.

NOTE

Field type ambulances currently painted strato blue will not be repainted until the paint has deteriorated or been damaged to a point where repainting is deemed necessary.

c. Bus ambulance conversions shall be painted strato blue, color number 15045 of Federal Standard 595.

2-15. Painting of the Office of Security Investigation (OSI) and intelligence operation vehicles. Vehicles used by the Office of Security Investigation (OSI), and vehicles used by Air Force Special Activities Center (AFSAC) for intelligence operations purposes may be painted a color other than specified herein.

2-16. Air Force Science Technology Report (AFSTAR) exhibit vehicles used in advertising and publicity are exempt from the painting requirements of this technical order. The colors and painting schemes/designs for these exhibit vehicles will be as directed by the AFSTAR Commander. The identification markings required by Section III of this Technical Order are mandatory.

2-17. Recruiting service van used in advertising and publicity are exempt from the painting requirements of this technical order. The colors, painting schemes/designs for these vans will be as directed by the Commander, USAF Recruiting Service. The identification markings required by Section III of this Technical Order are mandatory.

2-18. Painting of vehicle tops white.

a. Major Commands have the option to approve the painting of tops white on sedans. No approvals will be granted for use below the wing or Base Commander level.

b. The tops of ambulances and convertible buses may be painted white in areas where extreme heat is prevalent and vehicles must remain stationary for extended periods of time with patients remaining on board.

c. Vans and semi-trailer vans used for communications, photographic, repair shops, etc., in which assigned personnel perform duties and are located in areas where extreme heat is prevalent may have the tops painted white.

d. Special purpose, construction and base maintenance vehicles used in areas where extreme heat is prevalent which remain in a stationary position with personnel remaining in the cabs for operation of the equipment may have the tops painted white.

e. When authorized by the Major Command, the Commander/Chief of Transportation has the option to approve the painting of Tops White on buses, providing the paint used is polyurethane (clear coat/white); and the painted portion is extended to, but not lower than, the side windows.

2-19. Painting of vehicles to eliminate excessive glare may be accomplished as specified below:

a. In areas where snow or sand-covered terrain is prevalent, the top surfaces of the hoods of yellow vehicles may be temporarily covered or painted lusterless black, color number 37038.

b. Instrument panel tops may be repainted with a lusterless paint to eliminate excessive glare. Relocation of data plates and decals is also permitted to eliminate glare.

2-20. Interiors, assemblies, subassemblies, and accessories shall be painted as specified below:

a. Closed type vehicles such as panel trucks, vans, instrument shops, etc. (personnel carriers not included) will be painted semi-gloss green, color number 24533. When necessary to refinish the interior cab surfaces of sedans, station wagons, trucks, and truck tractors, the original color will be utilized, except that white, yellow, or aluminum color will not be used. If this is impractical, use full gloss strato blue, color number 15045.

b. The interior of fire protection vehicles shall be painted semi-gloss green, color number 24300.

c. The original color of the interior of buses shall be retained. If this is impractical, use the same color as the exterior of the bus.

d. Exterior of radiator cores will be painted with one thin coat of black lacquer.

e. Engines, engine accessories and components requiring repainting, will be painted with full gloss gray, color number 16081 or they may be painted with a heat resistant paint of the same color as the vehicle when engines such as agri-tractors, etc., are exposed.

f. Assemblies, subassemblies and accessories, other than engines and engine accessories requiring repainting after overhaul or repair, will be painted the color previously painted or the same color as the exterior of the vehicle.

2-21. CAMOUFLAGE PATTERN PAINTING. Camouflage pattern painting will be accomplished in accordance with instructions contained in T.O.'s 36-1-161 and 36-1-171.

2-22. REPAIR OF DAMAGED SHEET METAL. To obtain a high quality, smooth finish on vehicles, the sheet metal section of the vehicle must be prepared as follows:

a. All bumps and dents causing any change in the original contour of the sheet metal will first be roughed out using hydraulic jacks and heat if necessary. The damaged area will then be returned to its original contour using body repair tools.

b. A body file or an air/electric grinder may be used for removing paint and rust from metal surfaces. A grinder with a 16 grit open coat disc is appropriate for removing rust and metal, and a 60 grit close coat disc may be used to remove file marks or scratches left on the repaired surface.

c. Body solder or other fillers, such as plastic may be used when it has been determined to be more practical and expedient.

d. Remove all excess solder acid, oil or grease with a solution of one part phosphoric acid to two parts water.

WARNING

Phosphoric Acid is highly toxic to eyes, skin, and respiratory tract. Avoid all contact. Skin and eye protection is required. Use only with adequate ventilation. Assure this operation has been reviewed by local bioenvironmental engineer.

CAUTION

When mixing acid and water, always pour the acid slowly into the water and stir. Appropriate protective clothing/equipment shall be worn to prevent acid contact with eyes or skin.

e. Bare metal surfaces shall be cleaned and treated immediately with a solution of pretreatment coating, in accordance with specification MIL-C-15328.

2-23. SAFETY PRECAUTIONS. The safety precautions contained in T.O. 42A-1-1 which are applicable to the operation of vehicle paint shops and spraypainting of vehicles, shall be adhered to during cleaning and repainting of vehicles and ground servicing and powered ground equipment. The following specific safety precautions will be taken to insure the safety of personnel and to prevent accidental damage to equipment.

a. Paint spray, respirator, meeting National Institute of Occupational Safety and Health (NIOSH) requirement will be worn by painters during spray operations.

b. All indoor spraypainting shall be accomplished in a vehicular paint spray room equipped with spray booths having a minimum face air velocity of 125 fpm.

c. Smoking is prohibited in the paint shop. The mist that comes from a spray gun is highly flammable, and a spark or flame of any type will cause it to flash or explode.

d. To eliminate fire hazards, it is essential to keep the paint shop clean. Walls and floors of paint spray booths should be covered with a non-combustible product that can be removed when dirty.

e. Dirty rags and paper refuse shall be kept in separate metal containers with self-closing lids and appropriate markings. The contents shall be removed and disposed of at the end of each operating shift.

f. All electrical installations and equipment utilized in painting areas shall comply with the requirements of NFPA STANDARD NO. 33, Spray Application Using Flammable Materials and National Electric Code Number 70.

g. All supplies of paints, thinner, etc., authorized within the paint rooms, shall be kept in a metal cabinet ventilated by vent holes to prevent accumulation of vapors. Thinners, solvents, and other highly volatile, flammable agents shall be kept in approved safety cans.

h. All paint-spraying equipment shall be kept thoroughly clean and shall be inspected frequently to insure that it is in serviceable condition.

i. Frequent inspections shall be made of electrical equipment by qualified electricians to insure proper operation and to eliminate fire hazards due to short circuits, defective electric switches, or improper maintenance.

j. The paint-spray room or paint-spray booths shall be protected by an adequate amount of the proper type fire extinguishers.

k. All personnel engaged in acid or caustic cleaning operations shall wear rubber gloves, aprons, boots, goggles, and respiratory protection equipment approved by Base Medical Services and Ground Safety.

l. No acid or other oxidizing agents shall be permitted in the paint room or stored where they may come in contact with painting materials at any time.

2-24. CLEANING AND PREPARATION OF SURFACES.

a. Completely clean the vehicle undercarriage by applying a pressurized solution of hot water and vapor cleaning compound. Remove deposits of road tar, oil, and grease from recessed parts of springs, axles, and steering mechanisms.

b. Wash entire battery and carrier with a solution of sodium bicarbonate.

c. Clean dirt from inside of cab, upholstery, and the body.

d. Wash the exterior of the vehicle with a pressure type power washer. Thoroughly wash all glass, headlamp lenses, and safety reflectors. Remove all deposits of cleaning compounds by using compressed air.

e. When the surface to be refinished is checked, cracked, or rusted, remove the paint down to the bare metal. All bare metal surfaces to be painted must be dry and free from all rust and loose scale. This can be accomplished by wire-brushing, applying pretreatment coating, or flame descaling. This work will not be performed in the spray painting area or where spray painting is in progress. Spray, brush, or swab pretreatment coating on bare metal surfaces in accordance with Specification MIL-C-15328. The

pretreatment coating shall be covered with primer as soon as practicable (preferably within 24 hours) as it loses its effectiveness after a short period of exposure to adverse weather conditions.

f. Old paint that is in good condition makes an excellent base for repainting and need not be removed. The edges of areas with good paint remaining should be feathered down so that cracks will not develop and breakoffs will not be visible.

CAUTION

Exercise extreme caution to insure that the paint being used for touch-up and spot painting is the same type as the present vehicle finish. The prime coat should be compatible with the paint being used, i.e., lacquer paint and lacquer primer.

g. When paint cannot be sanded to a smooth finish for spraying without spending excessive man-hours, residual paint may be stripped by use of paint and varnish remover.

h. Fuel oil servicing trucks and trailer tanks shall be drained of all fuel and oil prior to painting, and the tanks will be completely filled with water or the vapors will be removed with steam, in accordance with T.O. 36Y31-1-1.

NOTE

The steam hose shall be of conductive rubber and shall be grounded to the truck/trailer; the truck/trailer shall also be grounded before beginning steaming operations.

WARNING

Mixture of trichloroethane 1-1-1 and kerosene is toxic to skin, eyes, and respiratory tract. Avoid eye and skin contact. Good general ventilation is normally adequate.

i. Rust preventive compound that has been applied to parts and sections of sheet metal and bodies shall be removed by a spray application

of a mixture of one part grease cleaning compound, Ordinance Stock Number 51-C-1581-555, one part trichloroethane, Federal Specification O-T-620, and three parts kerosene, NSN 6810-00-261-7453. Allow the mixture to penetrate for approximately five minutes, then respray. Before the solvent dries, remove the softened material with a steam cleaner. If removal of softened material is not completed before the solvent dries, respraying may be necessary. Water accumulated from steam cleaning must be allowed to dry completely before respraying with solvent. This work will be performed only in exhaust ventilated booths with a minimum face velocity of 200 feet per minute (FPM). Normally, only one operator will work in the booth at one time, except when operational necessity dictates differently. All operators will wear organic vapor cartridge respirators, protective gloves, coveralls, and boots. All protective equipment must be NIOSH certified.

j. In instances where the chrome finish is deteriorated on body hardware, exterior trim moldings or bumper bars and replating is considered economically feasible, restoration to original finish may be made. When facilities and/or funds are unavailable for replating, these parts may be painted with applicable color coat when they are rusted or damaged excessively.

k. Preparation of surfaces for application of polyurethane paint MIL-C-83286.

WARNING

- Methyl ethyl ketone (MEK), polysulfide primer, and epoxy primer (MIL-P-23377) are flammable and toxic. Good general ventilation is normally adequate. Skin and eye protection is required. Avoid all sources of ignition.
- Chromic Acid (MIL-C-3171) is highly toxic to the skin, eyes, and respiratory tract. Avoid all contact. Skin and eye protection and vapor control are required. Assure this operation has been reviewed by local bioenvironmental engineer.
- Chromate (MIL-C-8176) is toxic to skin, eyes, and respiratory tract. Avoid skin and eye contact. Good general ventilation is normally adequate.
- Airless spray guns use very high pressure. To prevent injury hands will not be used to check the output.

1. Surfaces for all vehicular equipment except C and E vans/shelters shall be prepared in accordance with T.O. 1-1-8, MIL-STD-808 Air Force change drawing number 98752-7737593.

2. The surfaces of communications and electronic vans/shelters may be prepared with either MIL-P-87112 polysulfide primer, or MIL-P-23377 epoxy primer. The major command owning the vehicle may specify the primer to be used. Refer to T.O. 1-1-8 for instructions for mixing and application of epoxy primer MIL-P-23377. Refer to MIL-P-87112 for instructions for mixing and application of polysulfide primer. Pretreatment of aluminum with MIL-C-5541 or MIL-C-8176 chromate conversion coating, and magnesium with MIL-C-3171 chromic acid brush-on solution is required prior to application of polysulfide primer. For treatment of galvanized steel, degrease with methyl ethyl ketone followed by pickling with MIL-C-10578, type II corrosion removing compound. Apply two coats of polysulfide primer, preferably with airless spray gun. Each coat should provide a dry film thickness of 1.0 to 1.5 MILs (.025 to .035 mm). Allow 45 minutes drying time between each coating.

2-25. MASKING.

a. Prior to spray gun operations, it is necessary to cover or mask all parts, such as windows, rubber, and chrome moldings, gages, lubrication fittings, data plates, instruction plates, and similar components which are not required to be painted. Unpainted radiator cores will also be masked to prevent the application of paint which may contribute to overheating of the cooling system. Radiator cores originally painted by the contractor will be repainted only to the extent necessary to prevent corrosion.

b. Small areas or irregularly shaped parts will be covered with crepe-backed masking tape. Large areas will require a sheet of wrapping or other paper slightly smaller than the part to be masked. This will be held in place by a strip of masking tape. Overlap the edge of the paper with tape applied to the surfaces being masked. Masking provides a convenient method of applying spray paint to irregular outlines.

c. Apply paste-like materials to areas where paint is not desired. When the paint is dry, wipe these areas clean.

d. When spraying engines, the use of bandages and socks, instead of masking tape to protect rubber hoses, ignition wires, and flexible tubing saves much time and material. The bandages will be fabricated from pieces of cloth cut to fit the part to be covered, allowing the bandage to overlap about one-half the circumference. Drawstrings at each end and a string around the center of the bandage will prevent overspray from contacting the protected part. The sock is a bag which fits over the ignition wires and has a drawstring which is drawn and tied below the distributor cap.

e. Cardboard shields may be locally purchased or fabricated to protect vehicle tires while spraying wheels.

f. When applying the markings prescribed in Section III, consideration should be given to the local purchase of strips of reflectorized tape and to the use of precut paper masks in lieu of stencils.

2-26. PRIME COATS.

a. The first coat of primer will be applied within 24 hours after completion or treatment of bare metal surfaces. Allow it to dry thoroughly, then sand lightly.

b. Apply one or two coats, as required, of sealer surface, MIL-S-13518 to wood surfaces of vehicle bodies, allowing a minimum of one hour drying time between coats.

c. Apply a medium coat of bituminous paint, MIL-C-450 to undersurfaces of wood floor decking.

d. When it becomes necessary to replace wooden floors of trucks and trailers, use hardwood material and treat in accordance with MIL-STD-1223 or obtain a suitable pretreated hardwood material from local commercial market. The pretreated hardwood material obtained commercially shall be material that is normally used in commercial industry for flooring trailers, trucks, and all other vehicular equipment.

e. Prime coats for polyurethane paint MIL-C-83286 will be applied in accordance with T.O. 1-1-8. Primer conforming to MIL-P-26915, Type I, shall be utilized on all steel surfaces except stainless steel, mill-galvanized, mill-electro-zinc coated and mill-aluminized stock surfaces.

WARNING

All spray painting will be accomplished in an exhaust ventilated booth meeting requirements of OSHA 1910.107.

Respiratory protective devices will be used when required by local safety office and medical services Bioenvironmental Engineer.

2-27. FINISH COATS.**WARNING**

Enamel, lacquer, and polyurethane paints are flammable and toxic. Good general ventilation is normally adequate. Skin and eye protection is required. Avoid all sources of ignition.

a. **ENAMEL.** Apply one light coat of enamel of the appropriate color, as specified in paragraph 2-2, and mixed according to the manufacturer's specifications. This coat should be very light to facilitate quick drying and to provide a tacky surface for the application of the final coat. The second or final coat should be applied to provide complete coverage and produce a smooth, even surface free from runs, sags, and over-spray.

b. **LACQUER.** Acrylic lacquer paint may be used for all spot painting and the painting of new finishes which must blend with the old finish. Lacquer may be applied either hot or cold. Use lacquer in accordance with Federal Specification TT-L-32, and thin with blush retardant thinner Specification MIL-T-6095 or as recommended by the paint manufacturer.

NOTE

When lacquer is to be applied over fresh enamel, a sealer, fast drying thinner or low penetrating thinner as recommended by the manufacturer must be used.

c. Simonizing, waxing, or polishing of USAF vehicles by commercial contract is authorized only when in-house cost exceeds cost of obtaining like service through commercial resources. The waxing and polishing of USAF vehicles in accordance with good commercial practice will be left to the discretion of the Base Commander. This work will be closely monitored to insure that proper material and/or procedures are utilized.

d. Repainted vehicles shall bear a temporary notice, affixed to the dash panel, reflecting "DO NOT WASH, POLISH, OR WASH WITH DETERGENTS BEFORE (enter date). WASH AS OFTEN AS REQUIRED WITH WATER ONLY." (The time element will coincide with the paint manufacturer's recommendation.)

e. The painted finish of garnish moldings and instrument panels of the interiors of sedans will not be painted if the finish is serviceable and if restoration to original condition can be accomplished by cleaning and applying wax compound.

f. Polyurethane paint MIL-C-83286 finish coats shall be applied in accordance with TO 1-1-8 and MIL-STD-808, Air Force change Drawings SA-ALC98750-7545352 and WR-ALC 98752-7737593.

g. Air Force policy is:

(1) For all tactical M-series vehicles procured in the future to be equipped with Chemical Agent Resisting Coating (CARC).

(2) Obtain CARC, when possible, on new vehicles (other than tactical) when identified by major commands that a requirement exists.

(3) All tactical vehicles presently in the Air Force system will be painted with CARC when complete repainting is required. When these vehicles are repainted with CARC the letters "CARC" will be stenciled in close proximity of the vehicle data plate. CARC will be applied IAW TO 36-1-161 and TO 36-1-171.

2-28. NON-SLIP MATERIALS. Non-slip fabric or walkway compound may be applied to stepping, standing, and walking surfaces of vehicles to eliminate potential safety hazards.

2-29. SPRAY GUN PROCEDURES.

a. To obtain the best results when spraypainting, the gun should be held perpendicular to the work at all times and approximately 6 to 10 inches from the surface. The proper stroke is made with a free arm motion, keeping the face of the air cap parallel with the surface at all points on the stroke. The ends of the

string are feathered out by beginning the stroke before pulling the trigger of the gun and releasing the trigger just before ending the stroke. Avoid arcing the gun during the stroke to prevent uneven application and excessive overspray at the end of the stroke.

b. Adjust gun to operate at maximum speed consistent with material, rate of flow, surface, and individual skill.

NOTE

When painting late model vehicles that have been painted with manufacturers acrylic type paint and primer, paint matches may be accomplished by the wet sample method. The paint for these vehicles may be procured through established local purchase procedures/COPARS as required to match color and type of paint to meet manufacturers specifications.

SECTION III

MARKING OF VEHICLES

3-1. GENERAL.

3-2. The policy governing authorization of identification markings or exemption therefrom are contained in AFR 77-310, Vol I.

a. Vehicles procured for the Air Force after January 1992 will be received from the manufacturer without official markings (US Air Force, Registration Number and FOR OFFICIAL USE ONLY). These vehicles will be marked using standardized Air Force license plates placed on the rear of each vehicle. These plates are available through local purchase in three colors and will contain all necessary information, embossed on the plate, with the exception of the vehicle registration number. Vehicle registration numbers will be applied to the plate by vehicle maintenance upon receipt of vehicle at the installation. Vehicle registration numbers will be applied as specified in this technical order.

b. Major Commands have the option for the use of license plates on vehicles with "D" registration numbers (graders, front-end loaders, etc.) and "E" registration numbers (K-loaders, forklifts, etc.). Commands not choosing to use license plates must mark these vehicles using die-cut letters/numbers or by stenciling using specification and placement requirements contained in this technical order. Standardized license plates will be used on all other classes of Air Force vehicles.

c. The only approved license plate for use on AF vehicles is produced at the Department of Correction, Industries Division, Lorton, VA 22079. The following are the three official license plates for use on AF Vehicles:

(1) Part number AF-1, a white plate with strata blue numbers/letters, for use on all strata blue vehicles, law enforcement sedans, van/modular type ambulances (painted white) and commercial colored vehicles.

(2) Part number AF-2, an olive drab plate with black numbers/letters, for use on all olive drab, camouflage, yellow, green and lime yellow colored vehicles.

(3) Part number AF-3, a desert sand plate with black numbers/letters, for use on all desert sand colored vehicles. Specific ordering information is contained in AFR 77-310, Vol I.

d. The vehicle registration number will be applied and centered on the license plate between the legends, US AIR FORCE and "OFFICIAL USE ONLY", using one and one-half inch colored numbers/letters as specified above and as listed in this technical order. A single license plate will be placed on the rear of the vehicle.

e. Commands may develop and purchase "transparent" logos or emblems that may be applied to the license plate. These logos or emblems, when applied to the plate, must not interfere with the display of the official information.

f. Air Force vehicles in the inventory prior to January 1992, with markings displayed on the side and rear of the vehicles, will retain those markings as specified in this technical order until the vehicle is removed from the Air Force inventory. Vehicles that require complete repainting or returned from depot will be marked with license plates. All other applicable markings will be applied as specified in this technical order. For vehicles without appropriate mounting brackets, brackets must be manufactured or procured locally.

3-3. The markings prescribed in this Technical Order provide a uniform method of identifying vehicles as property of the USAF and serve to associate such property with the organization to which it is assigned. **MARKINGS WILL NOT BE PLACED ON VEHICLES, EXCEPT AS AUTHORIZED BY THIS TECHNICAL ORDER.** Activity markings may be utilized on flight line vehicles when such markings are deemed mission essential by local commanders. These markings should be simple to apply and easy to remove without imposing damage to the vehicle exterior surfaces. All activity identification markings for all other vehicles may be applied by use of a locally fabricated blue plate, approximately 6 x 12 inches, to be attached to the front license plate holder. All activity markings or insignias

will be designed, furnished, and installed by the using organization and must be readily removable to facilitate rotation of vehicles between using activities. Changing to new markings will be performed when replacement is required due to damage or deterioration.

3-4. Vehicles may be required to bear all markings described in this Technical Order or only a portion of those described, depending upon the type of vehicle, its mission, and the safety factors involved.

3-5. Additions at or deviations from the markings prescribed herein may be made at the discretion of the major command or theater commander concerned where such additions or deviations are required by civil law. The extent of such additions or deviations will be held to an absolute minimum and will be consistent with safe practice.

3-6. Markings will be clearly maintained on all vehicles at all times except as follows:

a. Deleted.

b. Upon transfer within the USAF, all organizational markings shall be removed.

c. Upon permanent transfer to redistribution and marketing activities, all Air Force markings including USAF registration numbers shall be obliterated or removed. Data plates showing chassis and engine service numbers shall not be removed.

d. Upon transfer to Military Assistance Program (MAP), all Air Force markings shall be removed.

3-7. When the requirements for camouflage or concealment outweigh the requirement for identification, the markings prescribed herein may, by direction of the major command concerned, be obliterated with some readily removable substance.

3-8. Markings for all vehicles except those in paragraph 3-10, will be accomplished by applying reverse or direct silk screened reflectorized tape and die cut prespaced letters and numbers conforming to Federal Specification LS-300, Type 1, Class 3, Reflectivity 1, using the following colors:

a. Reflective red background with reflective silver letters on red, yellow, white, or grey surfaces conforming to Federal Specification LS-300, Type 1, Class 3, Reflectivity 1, color J.

b. Die cut prespaced reflective yellow letters and numbers on blue surfaces shall conform to Federal Specification LS-300, Type 1, Class 3, Reflectivity 1, color J.

c. Die cut prespaced reflective silver letters and numbers on blue surfaces shall conform to Federal Specification LS-300, Type 1, Class 3, Reflectivity 1, color G.

d. Die cut prespaced reflective black letters and numbers on white surfaces for metropolitan van and modular type emergency ambulances only shall conform to Federal Specification LS-300, Type 1, Class 1, color black with Reflectivity 10 candle power (CP) or less.

NOTE

All die cut prespaced letters and numbers will comply with Gothic style, Bureau of Public Roads Standards, Series C.

3-9. Vehicles painted olive drab (OD), dark green color number 24052 will be stenciled using paint, black lusterless, color number 37038. Danger markings may be applied using paint, red lusterless, color number 31136.

NOTE

Stencil markings may be applied by using stencil brush, stencil roller, or spray equipment. Letters and numerals used for marking vehicles shall be as illustrated in MIL-STD-1223.

3-10. MARKING REQUIREMENTS FOR VEHICLES USED ON LANDING AREAS.

a. Vehicles which operate primarily on the apron and taxiways painted dark green or olive drab; i.e., fire trucks, fuel servicing trucks, A/S32A-2 water truck, 463L and ground support equipment (GSE) will be marked with silver reflectorized tape in accordance with AFOSH STD-127-66. This vehicular equipment will be highlighted to indicate length, width, and height using silver reflective tape conforming to LS-300,

Type II, Class 3, Reflectivity 1, color G. The tape will be applied in 2-inch wide strips, 8 to 12 inches long as illustrated in figures 4-40, 4-41, 4-42, and 4-43.

NOTE

The highlighting markings illustrated in figures 4-40, 4-41, 4-42, and 4-43 are to be used as a guide for marking all vehicles where highlighting is required.

b. All other vehicles operating primarily on the apron and taxiways excluding general purpose shall be outlined in accordance with paragraph 3-11.a. above if not provided with any of the following:

(1) Reflective tape markings.

(2) Clearance lights.

(3) Hazard warning lights (four-way flashers) as required by the Department of Transportation.

(4) Nonrevolving pulsating type light of aviation yellow as specified in MIL-C-25050.

(5) Revolving flasher type light of aviation red or blue as specified in MIL-C-25050.

NOTE

Lighting requirements are prescribed in section VI of this technical order. General purpose vehicles (i.e., sedans, station wagons, multistop panels, pickup trucks, buses, etc) will not be outlined in reflectorized tape.

3-11. TYPES OF MARKINGS.

3-12. IDENTIFICATION MARKINGS. The term identification includes the following:

a. Agency Identification. US AIR FORCE. All Air National Guard vehicles will be marked as US AIR FORCE. The state name will be placed immediately above the Air National Guard decal. This decal may be placed on the front bumper on vehicles procured after January 1, 1992.

b. Registration Number - established and assigned to vehicles in accordance with Air Force Regulation 77-310, Volume 1.

c. Legend - "FOR OFFICIAL USE ONLY."

3-13. NATIONAL SYMBOL AND INTERNATIONAL MARKINGS.

a. NATIONAL SYMBOL. The national symbol may be applied to all vehicles operated by the USAF in overseas theaters, by direction of the Theater Commander concerned. Size and location are prescribed in paragraph 3-27.

b. **INTERNATIONAL MARKINGS.** Where required by NATO, SEATO, CENTO, etc., agreements Air Force vehicles will contain the markings prescribed in those standards that have been ratified by the US Commands having jurisdiction over military activities in the NATO, SEATO, CENTO, etc. Areas will insure compliance with the provisions of the international agreements unless otherwise instructed by Headquarters USAF.

3-14. **INSTALLATION MARKINGS.** Markings will be applied at the discretion of major commands. If markings are to be used, they will be carried on the vehicle at all times and will conform to the requirements established in paragraph 3-20.

NOTE

Installation markings will be applied at the discretion of MAJCOMs.

3-15. **TACTICAL MARKINGS.** Tactical markings are authorized only on vehicles assigned to tactical units and shall be removed when vehicles are transferred from jurisdiction of the commander prescribing their use. Tactical vehicle markings are prescribed in Military Standard 642.

3-16. **CONCEALED MARKINGS.** All US Air Force and US Government identification markings shall be concealed in unmarked OSI vehicles. The vehicle nomenclature/data plate may be mounted inside glove boxes that can be locked or inside the trunk compartment. If the vehicle registration number and serial number are not reflected on the data plate they will be stenciled inside the trunk lid.

3-17. **DECALCOMANIAS.** Decalcomanias, used to reflect conversion of miles per hour to kilometers per hour, tower signals for control of airdrome traffic, nonreflectorized red cross decals, and all other nonreflectorized markings will be manufactured from material conforming to MIL-M-43719, Type II, Class I.

3-18. **SPECIAL MARKINGS.** Special markings, i.e., no smoking signs, fluid identification, will be applied as specified in paragraph 3-34.

3-19. **SIZE OF MARKINGS.** The sizes of the letters and numerals to be used in accomplishing vehicle markings are as follows:

- a. "U S AIR FORCE" 1 1/2-inch
- b. Registration Number 1 1/2-inch
- c. "FOR OFFICIAL USE ONLY" 3/4-inch
- d. The size of all other markings is included in the paragraph pertaining to the specific marking involved.

NOTE

Present stocks of reflective marking material will be used prior to ordering new sizes.

3-20. **LOCATION OF VEHICLE IDENTIFICATION MARKINGS.**

3-21. USAF vehicles will be identified on each side and in the rear, in accordance with paragraphs 3-22 through 3-25.

3-22. Identification on the sides of vehicles will consist of:

- a. Agency identification. The top line will consist of the words "U.S. AIR FORCE."

- b. Registration Number. The middle line will consist of the USAF registration number assigned to the vehicle. When applying registration numbers on the vehicle, a double space will be left between the letter and the sequence number, in accordance with Air Force Pamphlet 77-6.

EXAMPLE: 85B 1234

- c. Legend. The bottom line will consist of the legend "FOR OFFICIAL USE ONLY." Special purpose vehicles and materials handling and construction equipment do not require the legend.

3-23. Identification on the rear of the vehicle will consist of:

- a. The agency identification.
- b. The USAF registration number.

c. The legend is not required to be displayed on the rear of the vehicle.

3-24. Location of identification, sides, and rear:

a. On passenger cars, station wagons, ambulances, carryalls, suburbans, fire trucks, trucks, and truck tractors identification will be centered on each front door or in a comparable position in relation to the driver's seat on vehicles without doors.

b. On trailers, semitrailers, and buses, identification will be centered vertically on each side of the front quarter of the vehicle.

c. The location of identification on the rear of the vehicle is not prescribed due to the various types of design characteristics involved. The location and arrangement of identification, however, will be such that it will not be exposed to excessive abrasive action under normal operation and so that the vehicle may be easily identified from the rear. If space does not permit, the agency identification will be omitted. Markings will be uniform on like type vehicles.

d. Due to the various types of materials handling equipment, the exact location for identification is not specified. These markings will be applied, using figures 4-13 and 4-14.

e. Identification markings on tractors, other than truck-tractors or towing tractor will be applied as follows:

(1) On industrial - tractors, place "U S AIR FORCE" and the registration number on both sides of the hood.

(2) On crawler tractors place "U S AIR FORCE" and the registration number omit on two lines, sides, and rear of seat, one inch between lines. If space does not permit markings on the seat sides, place "USAF" and the registration number "omit" on one line on both sides of the hood.

f. On side cars of motorcycles, identification will be centered vertically on the door or outside panel of the vehicle. On solo motorcycles, the location of the identification should be such that it will permit easy identification of the vehicle.

3-25. Location of all other markings is included in the paragraph pertaining to the specific marking involved.

3-26. NATIONAL SYMBOL.

a. A white, five pointed star is prescribed as national symbol. This symbol will be applied on vehicles assigned to units in overseas operations when directed by the Theater Commander.

b. The size of the national symbol will vary considerably, depending on the type vehicle concerned. It should be large enough to take full advantage of the surface on which it appears and should utilize the largest clearly visible space.

c. When used, the national symbol will be applied to the hood and on both sides of a vehicles utilizing lusterless white paint, Color number 37875, or nonreflective decals. On horizontal surfaces, the star will be placed so that one of the five points is directed toward the rear of the vehicle. On vertical or nearly vertical surfaces, one point will be squarely up.

d. The national symbol will not be used on vehicles operated in the continental United States.

3-27. INSTALLATION MARKINGS. Markings for vehicles assigned for use by depots, bases, and airfields will consist of two groups.

a. The first group will indicate the Major Command to which the vehicle is assigned. This group will consist of letter abbreviations for the Command concerned as follows:

ABBREVIATION COMMAND

AAC	Alaskan Air Command
AFCC	Air Force Communications Command
AFE	Air Force in Europe
AFLC	Air Force Logistics Command
AFRES	Air Force Reserve
AFSC	Air Force Systems Command
ATC	Air Training Command
AU	Air University
BMC	Brazile Military Commission
CG	Chief of Staff, USAF
ESC	Electronic Security Command
MAC	Military Airlift Command
PACAF	Pacific Air Force
SAC	Strategic Air Command
TAC	Tactical Air Command
USAFA	Air Force Academy
USAFSO	USAF Southern Command
AFSPC	Air Force Space Command

b. The second group will be the abbreviated designation of the assigned installation. Vehicles stationed at bases, airfields, aircraft control and warning sites, or other installations which do not have a definite Air Force designation, will use the abbreviated designation of the organization to which the vehicles are assigned.

EXAMPLE:

W-P AFB Wright-Patterson Air Force Base
TAFB Tinker Air Force Base
KAFB Kelly Air Force Base
RAFB Robins Air Force Base
94ABS 94TH Air Base Squadron
149ACWS 149TH Aircraft Control and
Warning Station

c. On general purposes vehicles the Major Command and Base Designation will be displayed on a locally fabricated plate of appropriate color, approximately 6 X 12 inches to be attached to the rear license plate holder on locally fabricated holder when required, and will normally be bolted to bumper or bumperettes. Insure that adequate space is maintained between the last letter of the command designator and the first letter of the base designator. The command and installation marking as indicated in preceding steps a and b will be stenciled on base maintenance equipment, material handling equipment, trailers, and semitrailers using appropriate colored paint. On fire trucks and all other special purpose vehicles where license plate holders are not provided, the command and base designation may be stenciled on bumpers or bumperettes as illustrated in figure 4-17, using appropriate colored paint.

3-28. AIR NATIONAL GUARD VEHICLES. Markings for vehicles (except those noted in paragraph 3-33.) assigned to the Air National Guard consist of three groups (1) Initials "ANG", (2) Abbreviation of the state in which the ANG is located, and (3) abbreviation of the city used in the base mailing address. EXAMPLE: ANG-NY-SYC, AIR NATIONAL GUARD, NEW YORK, SYRACUSE.

3-29. RESERVE OFFICERS' TRAINING CORPS VEHICLES. Markings for vehicles assigned to the Air Force ROTC consist of two groups: (1) initials "ROTC", and (2) abbreviation of the institution to which the vehicle is assigned. EXAMPLE: ROTC-USC-USAF, Reserve Officers' Training Corps, University of Southern California.

3-30. The markings prescribed in paragraphs 3-29 through 3-31 will be attached on the rear of the vehicles except metropolitan ambulances. No exterior markings will be used when marking metropolitan ambulances, except as specified in paragraphs 3-20, 3-35, and 3-37. The markings will be applied utilizing 1 1/2-inch letters and numbers of the appropriate color specified in paragraphs 3-8 through 3-20.

3-31. DECALCOMANIAS.

a. DECAL AIR NATIONAL GUARD. A five inch ANG decal will be displayed on all general purpose vehicles that are used on/off ANG bases. The decal will be centered immediately above the agency identification "US Air Force" on each side of the vehicle. If there is not enough space, center ANG decal between the front door edge and agency identification "US Air Force". The state name will be centered immediately above the ANG decal.

b. DECAL-KPH to MPH. A decal for converting kilometers per hour to miles per hour will be used on military vehicles operating out of the United States when this conversion is not shown on the speedometer. Place the decal on the instrument panel, in easy view of the operator.

SAMPLE:

KPH	MPH	KPH	MPH
20	12	70	44
30	19	80	50
40	25	90	56
50	31	100	62
60	37	110	68

c. DECAL. Tower signals for control of airdrome traffic. A decal, sample copy below, shall be applied to the dash panel or header above the windshield in easy view of the operator.

SAMPLE:

TOWER SIGNALS FOR CONTROL OF AIRDROME TRAFFIC

STEADY GREEN	CLEARED TO CROSS
STEADY RED	STOP
FLASHING RED	CLEAR ACTIVE RUNWAY
FLASHING WHITE	RETURN TO STARTING POINT
RED AND GREEN	GENERAL WARNING, EXERCISE EXTREME CAUTION

d. **ADDITIONAL DECALS.** Any additional informational or instructional type decals deemed necessary, i.e., booster battery cable hook-up, **DIESEL FUEL, UNLEADED FUEL** identification may be applied at the discretion of transportation vehicle managers.

NOTE

Decals installed inside vehicles may be removed if written approval is obtained from the base Level Safety Office, Wing Commander, and Resource Manager. Written approval for decal removal will be maintained in vehicle operations for reference purposes.

3-32. SPECIAL MARKINGS. Special markings prescribed herein are in addition to vehicle markings described in the preceding paragraphs unless otherwise specified.

NOTE

The sizes of the letters and numbers will comply with the specifications given in the remaining paragraphs of this Technical Order.

3-33. VEHICLES USED IN TRANSPORTING SICK AND INJURED. Vehicles used in transporting sick and injured will be marked according to paragraphs 3-34 through 3-40 and as illustrated in figures 4-9 through 4-12. All red and orange cross emblems will be premasked with a low tack translucent carrier tape.

3-34. AUTOMOBILE, AMBULANCE (METROPOLITAN).

a. A premasked reflectorized decal with a 3-inch Omaha orange cross on a 4-inch square white field shall be applied 1 inch above the left and right corners of the windshield.

b. A premasked reflectorized decal with a 6-inch Omaha orange cross on an 8-inch square white field shall be applied on the center of the rear door panel directly below the 6-inch orange stripe. The legend "AMBULANCE" in 3-inch black reflective letters shall be applied immediately below the cross. If space is not adequate, two reflective decals with 3-inch Omaha orange crosses on a 4-inch square white field may be applied on each side of the door above the window. The legend "AMBULANCE" in 3-inch black reflective letters shall be centered between the two crosses.

c. A premasked reflectorized decal with a 6-inch Omaha orange cross will be applied on the rear side window on each side of the vehicle. The word "AMBULANCE" in 3-inch black reflective letters shall be applied directly below the cross.

d. A premasked reflectorized decal with an 18-inch Omaha orange cross on a 24-inch square white field shall be applied on the roof in a central location.

e. The legend "AMBULANCE" in mirror image shall be centered approximately 1 inch windshield utilizing 1 1/2-inch reflective letters.

3-35. AMBULANCE (VAN/MODULAR TYPE COMMERCIAL, 4 x 2 AND 4 x 4 PAINTED WHITE).

a. The legend "AMBULANCE" in block blue letters not less than 4 inches high, shall be mirror image, centered above the grill on the orange or white background.

b. Block type blue "STAR OF LIFE" not less than 3 inches on a 4 inch white field located both to the right and left of the legend "AMBULANCE" (mirror image) above the grill.

c. The legend "AMBULANCE" in block blue letters on a white field not less than 6 inches in height shall be centered between "STAR OF LIFE" and Red Cross on each side of vehicle.

d. A block type blue "STAR OF LIFE" not less than 16 inches shall be on the right and left side panels. A block type blue "STAR OF LIFE" not less than 12 inches shall be centered between upper and lower windows of each rear door.

e. A premasked red cross on a white field not less than 16 inches shall be on the right and left side panels. A premasked 6 inch red cross on an 8 inch white field shall be on the lower portion of each rear door. The legend "AMBULANCE" in block type blue letters on a white field not less than 4 inches in height shall be centered between the red crosses on the rear doors.

f. The roof marking shall consist of a premasked 36 x 36 inch red cross on a 42 x 42 inch white field centrally located on the roof panel.

NOTE

Decals will not be replaced solely to comply with this TO. Compliance with this TO will be accomplished as decals require replacement.

3-36. AMBULANCE (VAN/MODULAR) 4 x 2
AND 4 x 4 PAINTED SEMI-GLOSS GREEN.

a. The legend "AMBULANCE" in mirror image in 3-inch reflectorized black letters shall be applied on the front center of the hood.

b. Two reflectorized decals with a 3-inch red cross on a 4-inch square white field will be placed one on each side of the word "AMBULANCE" approximately 6 inches from the first and last letters.

c. The side markings shall consist of the word "AMBULANCE" in 3-inch black reflectorized letters centered on the side of the body underneath the centered reflectorized decal with an 18-inch red cross on a 24-inch square white field.

d. The rear markings shall consist of a reflectorized decal with an 18-inch red cross on a 24-inch square white field centered on the rear doors and the word "AMBULANCE" in 3-inch reflectorized letters centered under the red cross.

e. The roof markings shall consist of a reflectorized decal with an 18-inch red cross on a 24-inch square white field centrally located on the roof panel.

NOTE

The red crosses specified in paragraph 3-38 shall be gloss red matching chip number 11136 of FED STD 595.

3-37. AMBULANCE COMMERCIAL FIELD 4 x 2 AND 4 x 4.

a. A premasked reflectorized decal with a 6-inch red cross on an 8-inch square white field shall be applied 1 inch above the left and right corners of the windshield.

b. A premasked reflectorized decal with a 6-inch red cross on an 8-inch square white field will be centered below the window, applied on the lower portion of each rear door.

c. A premasked reflectorized decal with a 36-inch red cross on a 48-inch square white field shall be applied on the right and left side panels in a central position.

d. A premasked non-reflectorized decal with a 36-inch red cross on a 48-inch square white field will be applied on the roof in a central location.

e. When authorized by the Major Command, large identification numbers or letters may be placed on all ambulances for vehicle control in crash, disaster, or other emergency situations. Numbers or letters will be on placards of sufficient size to ensure ready identification of the vehicle by control officers. Placards will be of a design which allows ready installation and removal.

3-38. BUS, 44 PASSENGER, CONVERTIBLE (MULTI-LITER).

a. The marking "AMBULANCE", 3-inch high direct prespaced, silver reflective letters will be centered in the routing view box above the windshield.

c. A premasked reflectorized decal with a 36-inch red cross on a 48-inch square white field will be applied on each side of the vehicle below the windows in a central location.

d. A premasked reflectorized decal with an 18-inch red cross on a 24-inch square white field will be applied on the rear of the bus in a central location.

3-39. AUTOMOBILE, STATION WAGON. Station wagons which have been converted for use in lieu of metropolitan ambulances by installation of wheel litter attachments will be marked as follows:

a. A premasked reflectorized decal with an 8-inch red cross on a 10-3/4-inch square white field will be applied to the center of each rear side door.

b. A premasked reflectorized decal with a 6-inch red cross on an 8-inch square white field will be applied on the center of the tailgate. If space is inadequate for the single large decal, two reflectorized decals with a 3-inch red cross on a 4-inch square field will be applied to the upper corners of the tailgate immediately below the rear window of the vehicle.

3-40. MOBILE MEDICAL VANS. Special purpose semi-trailers used as mobile dispensaries, dental clinics, and other primary medical functions, will be marked as follows:

a. A premasked reflectorized decal with a 36-inch red cross on a 48-inch square white field will be applied on the right and left, front and rear external panels in a central position.

b. A premasked non-reflectorized decal with a 36-inch red cross on a 48-inch square white field will be applied to the roof in a central location.

3-41. RECRUITING VEHICLES. Markings for Air Force vehicles assigned to recruiting service are as follows:

a. Emblem will be reflectorized decalcomania, 12 inches in diameter, with colors as specified in paragraph 3.F. of Air Force Regulation 11-10.

b. The emblem will be centered horizontally 6 inches below the top of the front door panel. Emblems that cannot be placed as described above due to varying body styles, will be applied to vehicles as determined by instructions issued by the Commander of the USAF, Recruiting Service.

c. Registration Number - Block type 1-1/2 inches high reflective silver numerals and letters located approximately 1 inch below recruiting service emblem.

d. The legend "FOR OFFICIAL USE ONLY" - 3/4-inch high, block type, silver reflective letters on 1-1/2 inch wide blue background, centered below registration with approximately 1-inch between silver letter lines.

e. Rear markings - "US AIR FORCE" and registration number - 1-1/2-inch high block type, silver reflective letters and numerals with "US AIR FORCE" and registration on two lines with approximately 1 inch between silver letter lines.

f. Rear markings for pickup trucks will be applied as illustrated in figure 4-6, using 1-1/2-inch reflective silver letters and numerals.

g. Recruiting decalcomanias will be centrally procured by Headquarters, USAF Recruiting Service, Randolph Air Force Base, Texas.

3-42. COMMUNICATIONS AND GROUND CONTROL APPROACH VEHICLES. Bodies of van type vehicles and those vehicular types which are components of AGE sets/systems containing communications and ground control approach equipment and located or operated on landing areas, runways, taxiways, will be painted with the conventional "checkerboard" markings on alternate blocks of Aviation orange and white as illustrated in figure 4-34 (Sheet 1 and 2). The size of the checkerboard blocks will be such that there will be not less than four, nor more than six longitudinal rows. This pattern of marking will be applied to the antenna housing, roof, sides, rear and frontal area which is unobstructed by the vehicular cab. Chassis and cabs will be painted yellow, color number 13538. All van type radar and flight control sets having rotating search antennas mounted on the hood will have a circular 3-inch wide strip of red

reflectorized tape, conforming to specification LS-300, applied just outside the area covered by the antenna during rotation. The following statement will be stenciled, using a contrasting color enamel, just outside this area in such a position that it can be read by personnel approaching the area from the mounted ladder.

WARNING

Search reflector scan area. Insure that safety switch S-134045 is in safe position before entering this area.

3-43. TRACTORS AND FORKLIFTS.

a. Tractors, other than truck-tractors and aircraft towing tractors, will be marked using figure 4-13 as a guide.

b. Forklifts will be marked using figure 4-14 as a guide.

3-44. TIRE INFLATION PRESSURES.

a. The manufacturer's recommended operating tire pressure will be stenciled on the left front pillar post between the upper and lower hinges of vehicles so equipped. This instruction will not be applied to those vehicles equipped with a label on which the manufacturer's recommended operating pressure is embossed.

b. On other type vehicles, the operating tire pressure will be stenciled on the shield, panel, or frame immediately adjacent to the left front tire. If rear tires have a different manufacturer's recommended operating tire pressure, this will be stenciled adjacent to left rear tire.

c. Size of letters and numbers will be 1/2-inch high and they will be of the applicable colors as indicated in paragraphs 3-8, 3-9, and 3-10.

NOTE

The tire pressure embossed on a label or stenciled on the vehicle represents normal usage pressures for which the vehicle was primarily designed. If vehicle is to be utilized for loads other than the normal, the correct operating tire pressure must be established utilizing guidelines contained in T.O. 00-25-246, Section IV. Abbreviate the words "Tire Pressure," Example, T.P. 70.

3-45. SCHOOL BUS SAFETY MARKINGS. The variation in state law requirements for special markings for special types of vehicles prohibits the establishment of uniform instructions for this class of markings in detailed form. Safety markings for school buses will be applied to conform to local state regulations. Distinctive colors may be applied to the complete vehicle when required by state regulation. When state laws do not prescribe school bus safety markings, the provisions of this section will be considered minimum requirements.

3-46. D.O.T. MOTOR CARRIER SAFETY REGULATION MARKINGS.

a. Vehicles transporting explosives or other dangerous material off base will be marked in accordance with D.O.T. Regulations. The variation in safety and/or special marking requirements of foreign nations prohibits the establishment of uniform instructions in detail form. Therefore, safety markings as required and conforming with local laws of the host country and the provisions of any international agreement will apply. The requirement for bilingual stenciling of safety markings will be at the discretion of the major command.

3-47. FUEL DISPENSING AND AIRCRAFT SERVICING VEHICLES. Special markings are required on fuel and oil servicing trucks and trailers to minimize the possibility of replenishing aircraft fuel or oil systems with an improper grade of fuel or oil. Precautionary markings are also required to provide sufficient warnings on these vehicles to indicate the safe handling of flammable liquids.

Markings for fuel and oil dispensing vehicles procured in the future will be applied in a manner as near as possible to those illustrated herein. However, for vehicles painted tone down, product markings and warnings will be applied using lusterless red paint.

3-48. NO SMOKING WITHIN FIFTY FEET.

a. A strip of red reflectorized tape, 10 inches wide with "NO SMOKING WITHIN 50 FT" in 4-inch silver letters shall be applied on the sides of semi-trailers. Refer to figure 4-18.

b. On fuel or oil servicing trucks, apply a strip of red reflectorized tape, 5 inches wide with "NO SMOKING WITHIN 50 FT" in 4-inch silver letters. Refer to figure 4-21.

c. Two-wheel trailers will be marked on each side of the tank with "NO SMOKING WITHIN 50 FT" in 3-inch silver letters on a red reflective background.

3-49. PRODUCT IDENTIFICATION.

a. Place the word "AVGAS," "JET FUEL," "OIL ACFT ENG," "DIESEL FUEL," "KEROSENE," "MOGAS," whichever is applicable, on the rear and both sides of tank. Markings will be of reflectorized tape. "AVGAS 115/145 F22" will be applied in silver reflective letters with a purple background. "JET FUEL JP4" and all other markings will be applied in silver reflective letters with a red background. Use 6-inch letters on all semi-trailers and trucks with a capacity of 1,500 gallons or more, 4-inch letters on trucks with less than 1,500 gallons capacity and 3-inch letters on two-wheel trailers.

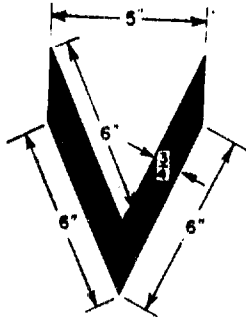
b. Numerals identifying the grade of gasoline or type of oil will be added immediately after the word AVGAS or OIL in sizes prescribed for letters in the preceding paragraph. Example: AVGAS115/145, Oil-Type II, MIL-L-22851, or JET FUEL - JP4.

c. When converting a unit from one type product to a different type product, all markings will be changed to correspond with the product to be dispensed.

d. The appropriate NATO symbol, as outlined in T.O. 42B1-1-15, will be applied to each side of aviation fuel and oil servicing vehicles immediately below the product identification. The appropriate NATO symbol shall also be applied to the rear of aviation fuel and oil servicing vehicles where space permits. Symbols will be same size and color as product identification markings.

e. Water - Alcohol servicing vehicles. The words "WATER - ALCOHOL" in 6-inch silver letters on a 7-inch red reflective background will be centered vertically and horizontally on the left and right sides of the tank and rear of the

vehicle. The type mixture (reference T.O. 2-1-14) will be added immediately below the words "WATER - ALCOHOL" at all three locations using the same size and color letters and numbers. A black chevron, color number 17038 of the size indicated in the following example. The appropriate water - alcohol NATO symbol as outlined in T.O. 42B1-1-15, will be applied to a conspicuous location on the rear and both sides of the vehicle in 1/2-inch letters and numbers. EXAMPLE:



WATER - ALCOHOL NATO SYMBOL S-738

Water - Alcohol servicing vehicles will have the following taped on each manhole cover or adjacent to the cover:

WARNING

Transfer from line or container identified by name of alcohol required. Refer to T.O. 2-1-14 and T.O. 36A9-3-12-1 for water - alcohol mixing and testing data.

On those vehicles where space is restrictive on the rear of the tank (i.e., ML-1, 600 Gal.) the size of the rear WATER - ALCOHOL decal may be reduced. The marking will then be applied utilizing the individual letters listed in Section V of this technical order.

f. Demineralized Water Trucks. The words "DEMINERALIZED WATER" in 6-inch black letters will be centered vertically and horizontally on the left and right sides of the tank and on the rear centered approximately 8 inches from the top of the tank. The words "CAUTION-WATER NOT FIT FOR DRINKING" in 4-inch block type letters will be stencilled, using black paint, color number 1703B, directly below the words "DEMINERALIZED WATER" at all three locations.

g. POTABLE WATER TRUCKS: The words "POTABLE WATER," in 3-inch silver reflective letters on a red background, will be centered vertically and horizontally on each side and rear of the tank.

h. F/FB-111 ENVIRONMENTAL SYSTEM TRUCKS. The words "F/FB-111 ENVIRONMENTAL FLUID" in 3-inch silver letters on a red background will be centered vertically and horizontally on the left and right sides of the tank and on the rear, centered approximately 12 inches from the top of the tank. The words "CAUTION-WATER NOT FIT FOR DRINKING" in 1-inch block type letters will be stencilled, using black paint, color number 17038, directly below the words "F/FB-111 ENVIRONMENTAL FLUID" at all three locations.

3-50. PUMPING DURING COLD TEMPERATURES.

a. The marking "OPEN MANHOLE COVER WHEN PUMPING FUEL OIL OR WATER AT TEMPERATURES BELOW 25 DEGREES F" will be placed on all fuel, oil, and water dispensing units except refuelers with power operated vents and an interlock system that prevents fuel from being pumped out of the pumping system tank unless the vent is open, such as the R-5 Refueler. Marking will be placed in an area as near as possible to the pump compartment. Marking will be 2-inch silver letters on a reflective red background.

b. On two-wheel trailers, the marking as indicated in the preceding paragraph will be centered on the lower half of tank.

3-51. MANHOLE COVER AND NOZZLE MARKINGS. Application and size of manhole cover and nozzle markings. These markings shall be applied to all manhole covers and nozzles on aviation and rocket fuel and oil dispensing units. Oil dispensing units may be marked by stencilling with black paint, color number 17038 or using reflectorized markings listed in Section V, paragraph 5.1.b. (Reference figures 3-1 and 3-2.) Jet fuel and AVGAS dispensing units will be marked as follows:

a. JET FUEL DISPENSING UNITS. Manhole cover and nozzle markings on jet fuel dispensing units shall be applied utilizing a red background with silver letters and numbers as illustrated in figures 3-1 and 3-2.

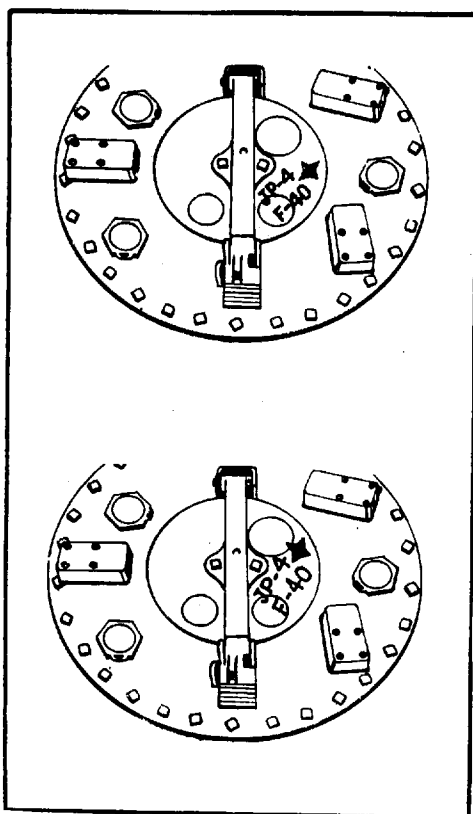


Figure 3-1. Manhole Cover Markings

b. **AVGAS DISPENSING UNITS.** Manhole cover and nozzle markings on AVGAS dispensing units shall be applied utilizing a purple background with silver letters and numbers as illustrated in figures 3-1 and 3-2.

(1) **TYPE PRODUCT**-JP-4, JP-5, AVGAS 115/145, etc.

(2) **PRODUCT SYMBOLS:**

◆ A filled, four pointed, silver star on a red background represents Jet Fuel.

◆ A filled, four pointed, silver star on a purple background represents AVGAS.

◆ A filled, four pointed, black star and a filled black crescent represents rocket fuel.

■ A filled black square represents lubricating oil.

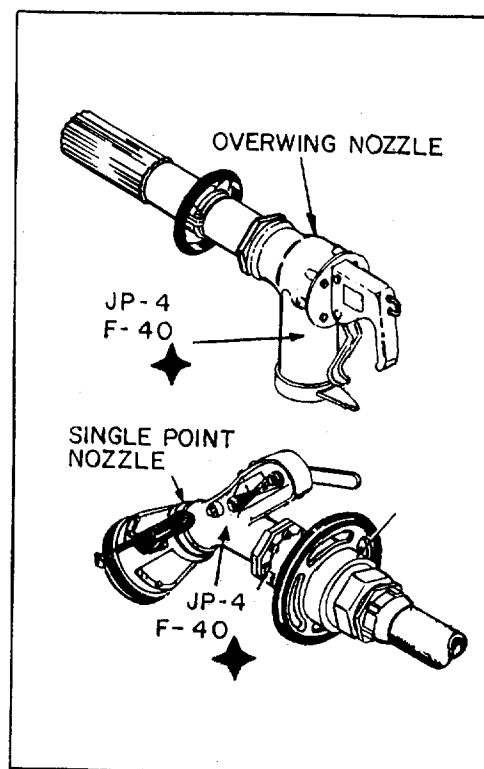


Figure 3-2. Nozzle Markings

c. **NATO symbol:** Refer to T.O. 42B1-1-15 for these symbols. Examples JP-4 fuel is F-40, and AVGAS 100-130 is F-18.

3-52. HYDRANT FUELING TRUCKS.

a. The following markings shall be displayed on both sides of all Hydrant Fueling Trucks:

"FLAMMABLE," 3-inch silver letters on a red background.

"NO SMOKING WITHIN 50 FT," 3-inch silver letters on a red background.

"JET FUEL JP4 F40," 4-inch silver letters on red background.

"CARGO FIRE AVOID WATER," 2-inch red letters on a silver background.

b. The above markings will be applied on a panel locally fabricated from noncorrosive

material, 62 inches by 24 inches. The panel will be centered on the rear of the vehicle between the fuel tank and the front hose reels. Refer to figure 4-38.

NOTE

Markings presently applied to the Hydrant Fueling Trucks will not be changed until they are damaged or deteriorated to the point that replacement is necessary.

3-53. PURGING FLUID VEHICLES. Vehicles utilized for handling purging fluid shall be marked as follows:

a. The product marking PURGING FLUID shall be stencilled on both sides and rear of the tank in 6-inch black letters, color number 17048, as illustrated in figure 4-44.

b. The product marking PURGING FLUID shall be stencilled adjacent to the manhole covers in 1-inch black letters, color number 17038.

c. The following statement shall be stencilled in 1-inch black letters, color number 17038, on both sides of the tank immediately below the product marking.

CAUTION

Do not use for any purpose other than purging fuel tanks.

d. All other safety markings required by this technical order shall be applied as illustrated in figure 4-44.

3-54. WASTE FUEL VEHICLES. All vehicles utilized for handling waste fuel shall be marked as follows:

a. The product marking WASTE FUEL shall be stencilled in 6-inch black letters, color number 17038, on both sides and rear of the tank as illustrated in figure 4-45.

b. The product marking WASTE FUEL shall be stencilled in 1-inch black letters, color number 17038, adjacent to the manhole covers.

c. A red X in 2-inch wide stripes shall be applied on hose reel compartment doors utilizing red paint, color number 11105, as illustrated in figure 4-45.

3-55. RECLAIMED FUEL VEHICLES. All vehicles utilized for handling recoverable or reclaimed fuel shall be marked as follows:

a. The product marking RECLAIMED FUEL shall be stencilled in 6-inch red letters (lusterless), color number 31136.

b. The product marking RECLAIMED FUEL shall be stencilled in 1-inch red letters (lusterless), color number 31136, adjacent to the manhole covers.

3-56. GASEOUS SERVICING TRAILERS. The following special markings will be applied to all gaseous oxygen or nitrogen trailers classified as vehicles in FSC 2330. (Not applicable to MH-1, MH-2, and AF/M32A17 tube bank semitrailers.)

a. Material Identification: For the purpose of this instruction, gaseous servicing trailers are divided into two categories. One employs an enclosure around the compressed gas cylinders such as the type E-3 and the MB-2. The other has no enclosure and all cylinders are exposed to plain view of the servicing personnel. On those trailers which employ an enclosure, the word OXYGEN or NITROGEN, as applicable, will be applied in 3-inch high letters on the control panel, immediately below or adjacent to the pressure regulator assembly. In addition, the word OXYGEN or NITROGEN, as applicable, will be applied in 3-inch letters on the control panel, immediately below or adjacent to the pressure regulator assembly. In addition, the word OXYGEN or NITROGEN, as applicable, will be applied in 3-inch high letters on each side and near the top of the cylinder enclosure. On trailers which have no enclosure, all cylinders will be painted according to T.O. 42B5-1-2 for the material contained within the cylinders. Cylinders will be identified as indicated in T.O. 42B5-1-2 so that each cylinder will have the name of the gas contained within stencilled parallel to the longitudinal axis and on diametrically opposite sides in letters 1-3/4 to 2 inches high. White enamel will be used on both oxygen and nitrogen cylinders. Due to space limitations, no attempt will be made to mark control panel on this type trailer.

b. Service Point Markings: Service point markings as prescribed by MIL Standard 33739 for oxygen and nitrogen will be applied by stencil to all delivery line nozzles using full gloss black paint, color number 17038, or by use of decals. Two horizontally filled rectangles represent

oxygen. A filled square with a quarter arc removed from each corner represents nitrogen. NATO CODES have not been assigned for oxygen or nitrogen and therefore are not applicable to these trailers. In addition to the filling point symbols, the word OXYGEN or NITROGEN, as applicable, will be stencilled with white enamel or applied with reflectorized tape on the hose immediately upstream of the servicing nozzle. Letters and symbols will be the largest size that the hose and nozzle will accommodate.

c. No Smoking: The words "NO SMOKING WITHIN 50 FT" in silver reflective letters on red reflective background, will be applied in 2-inch letters on each side of oxygen trailers having an enclosure around cylinders. Markings to oxygen trailers that do not have an enclosure will be at the discretion of the using command utilizing a locally fabricated plate marked as described above. Nitrogen trailers do not require "NO SMOKING" marking since nitrogen is an inert material.

3-57. Propellant Semitrailers: Semitrailer tankers, A/M32R-16 and A/M32R-17, will be marked as follows:

a. The type of material being transported N2O4 CLASS A POISON or UDMH HYDRAZINE CORROSIVE LIQUID will be applied to each side of the trailer. Marking shall consist of 6 inch high blue letters on a white background (Refer to figures 4-27 and 4-28.)

b. NO SMOKING WITHIN 100 FEET in 6-inch silver reflective letters on a 14-inch wide red reflective background will be applied to each side of the tank as shown in figures 4-27 and 4-28.

c. N2O4 transporters shall display the marking OXIDIZERS in 4-inch yellow letters on a black background on the front and rear of the trailer and directly below the marking specified in paragraph 3-57.a.

d. N2O4 transporters shall also have DOT SP3121 applied to the right side of the tank near the front in 2-inch high letters and numbers on a contrasting background.

e. Unsymmetrical Dimethylhydrazine (UDMH) transporters shall display the markings UDMH on the front and rear and CORROSIVES on the front as shown in figure 4-27.

f. The marking "FLAMMABLE" in 4-inch red letters on a silver background will be applied directly above the marking specified in paragraph 3-57.e. and on the front and rear as shown in figure 4-27.

g. UDMH transporters shall also have the marking "DOT-SP-2828" applied to the right side of the tank near the front in 2-inch high letters and numbers on a contrasting background.

h. N2O4 transporters shall be marked "INHALATION HAZARD" in 3-1/2-inch letters on a contrasting background on all four sides near the flammable placard.

3-58. CRASH FIRE VEHICLES. The following special markings will be applied to crash-fire and rescue vehicles in order to identify the vehicles properly and to promote familiarity with the different types:

a. All crash-fire and rescue vehicles designated by an Air Force type will be so identified on the right and left forward sides of the vehicle utilizing silver reflective letters and numbers on a red background. The markings will be applied in accordance with figure 4-17, using 1-1/2-inch letters for "US AIR FORCE," 1 1/2-inch letters and numbers for registration number, and 1-1/2-inch letters and numbers for the vehicle type. The markings will be centered below window on left and right front cab-compartment doors. US AIR FORCE on first line and registration number on second line with approximately 2 inches between the lines.

b. Crash-fire vehicles which have controls and/or equipment concealed in closed compartments will have the appropriate title marked in a centrally located place on the outside of the compartment doors as shown in figure 4-17, using legible black letters.

c. All fire fighting trucks equipped with radios will have radio call numbers marked on each side, on the top, and on the rear of the vehicles. These numbers will be 2 feet high on crash vehicles. On rescue and ramp fire fighting vehicles size of markings may be reduced in proportion with the space available for applying the marking. In all instances the largest size marking possible shall be utilized. These numbers will be applied using red reflectorized tape on vehicles painted lime yellow.

d. Fire chief and assistant fire chief vehicles will be marked chief 1 and chief 2 respectively using reflectorized tape.

3-58.1 STRUCTURAL FIRE TRUCKS. Highlighting markings may be applied to structural pumpers when deemed mission essential by local commanders.

a. A 4 in. (100 mm) minimum width reflective stripe shall be affixed to the perimeter of the vehicle. It shall be placed 60 in. (1525 mm) above the ground level and shall conform to Federal Specification for Reflectivity. LS-300, Type 1, Class 1 or 3, Reflectivity 2. At least 60 percent of the perimeter length of each side and width of the rear and at least 40 percent of the perimeter width of the front of the vehicle shall have the reflective strip. A graphic design meeting the reflectivity requirements of this paragraph may replace all or part of the required striping if the design or combination thereof covers a minimum of the same perimeter length as required above. The amount of reflective material shall be not less than that required for a single stripe (i.e., 4 in. (100 mm) x 60 percent of length).

b. Highlighting markings illustrated in Figures 4-49 and 4-50 are to be used as a guide for marking structural fire trucks where highlighting is required.

3-59. OPERATING INSTRUCTIONS.

a. To aid in the operation and to prevent potential damage to equipment and injury to personnel, vehicles without adequate operational instructions or "plates" in the driver's or operator's compartment may have the name of, or duty performed by the lever, switch, valve, or pedal, etc., marked on or near each, and the use or direction of movement if deemed necessary. These markings will be of the smallest readable size. Understandable abbreviations may be used. On equipment where it is determined that marking instructions will not obtain the desired results because of appearance, inadequate space, or other reasons, an operating instruction plate will be fabricated and fastened securely to the equipment within easy and full vision of the operator or driver.

b. Cranes, high reach maintenance and telephone line maintenance/construction vehicles that are not insulated and not designed for working in close proximity of electrical power lines shall be equipped with a metal sign, approximately 8 by 10 inches. The sign shall be affixed to the upper center of the cab panel directly in front of the operators knees. On other applicable vehicles, sign shall be affixed to the operators ground control panel and basket control panel. This sign shall have a white background with DANGER in 2 inch red letters; DO NOT OPERATE BOOM OR DERRICK WITHIN 10 FEET OF ELECTRIC LINES in 1/2-inch black letters. In addition, a metal plate 3 x 4 inches affixed to the right hand side of the above referenced DANGER sign having a red background with DO NOT OPERATE BOOM ABOVE 80 DEGREES FROM THE HORIZONTAL PLANE in 5/16-inch white letters.

c. All forklifts shall have "NO RIDERS" in 2-inch black letters, stencilled vertically on both uprights of the fork frame, facing the operator.

d. Aircraft towing tractors and tugs used for towing aircraft shall be equipped with a metal sign, approximately 3 by 4 inches, red background with "MAXIMUM SPEED 10 MPH" "AIRCRAFT TOWING SPEED 5 MPH" in 5/16-inch silver letters. This sign shall be attached to a panel directly in front of the operator.

e. All special purpose and engineer equipment having speedometers and/or tachometers shall have the maximum safe operating speed and or revolutions per minute indicated by a red line painted on the glass covering the dial.

f. Mobile cranes and street sweepers shall have an instructional metal placard, of the largest practical size, affixed to read, white background with red letters: "SOUND HORN, WAIT FOR SIGNAL FROM OPERATOR BEFORE PASSING."

g. Rollerized vehicle beds (K Loaders and flatbed trailers) will have the legend "WATCH STEP" applied on the walkway at each end of the rollerized beds. The legend will be stencilled in 3-inch letters at one foot intervals beginning at each end of the rollerized bed and extending inward for 4 feet. The legend will be applied utilizing yellow paint on black and green surfaces and black paint on yellow surfaces.

3-60. CONTINENTAL OR LYCOMING AIR-COOLED ENGINES. All vehicles equipped with Continental or Lycoming air-cooled engines will have the auxiliary engine oil, which is specified in the applicable technical order, either stencilled or taped on a body panel near the engine, or on the access door to the engine, using 1/2-inch letters. When applying this information by stencilling, use white paint on red surfaces and black paint on yellow surfaces. When using tape, apply red tape with silver numbers.

EXAMPLE:

Auxiliary
Engine
Oil
Specifications
Grade

3-61. MARKING SECURITY POLICE VEHICLES. "SECURITY POLICE" markings will not be affixed to a vehicle. These markings will be applied to a metal backing plate 4 by 24 inches and affixed to the front and rear of the mounting bar, FSN 2540-409-8878, as illustrated in figure 4-35. Identification markings will be located as illustrated in figure 4-30. Soft top equipped vehicles (jeeps) will be placarded as near as possible to that illustrated in figure 4-31.

3-62. ALERT, REFLEX, DCO, DCM, BASE OPS, and BASE CIVIL ENGINEER (FIRE MARSHAL). Marking of these and other vehicles requiring specific identification will be accomplished by use of the same type detachable device as illustrated in figure 4-33. The mounting bar NSN 2540-00-409-8878 may be utilized when approved by the Major Command concerned.

3-63. "FOLLOW ME" vehicles. The "FOLLOW ME" sign assembly will be painted white, reflective, FSN 8010-965-2500.

3-64. LOW VISIBILITY MARKING. SNOW REMOVAL EQUIPMENT. All snow removal equipment will be outlined to indicate height, length, and width utilizing silver reflective tape conforming to LS300A, Type II, Class 3, Reflectivity 1, color G.

3-65. MARKING EXPLOSIVE ORDNANCE DISPOSAL VEHICLES. These vehicles may be equipped with rotating warning lights, as well as sirens. When warning lights and sirens are used, they will be installed on a removable mounting bar NSN 2540-00-409-8878. The abbreviated legend E.O.D. will be applied to a metal backing plate in 4-inch silver reflective letters on a red background and affixed to the front and rear of the mounting bar. The type of lights and color of lenses will be in accordance with local or state laws regarding operation of emergency vehicles or in cases of overseas operation, in compliance with status of forces or host nation agreements.

3-66. MARKING VEHICLES EQUIPPED WITH MS51335 SERIES PINTLE HOOKS. All vehicles (except toned down) equipped with a manual release pintle hook, MS51335 series, will be marked as illustrated in figure 4-36 utilizing 1/2-inch silver reflective letters on a red background. Toned down vehicles will be marked utilizing a non-reflective decal with 1/2-inch black letters, color number 37038, on green background, color number 24052.

3-67. SLOW MOVING VEHICLE EMBLEM. The slow moving vehicle emblem illustrated in figure 4-37 will be applied on the rear of all slow moving vehicles in a readily visible location.

NOTE

Due to the various makes, models, and vehicle designs involved, no specific mounting instructions will be specified. It

will be the responsibility of local operating officials to determine which vehicles will require the slow moving vehicle emblem based on local operational requirements.

3-68. STRIKE HAZARD MARKINGS. Strike hazard markings shall be applied, on crane and derrick cabs or portions that extend outward over the chassis when being shewed, in 4 to 6 inch alternating bands of black and yellow as illustrated in figure 4-39.

3-69. CENTER OF BALANCE MARKINGS. The center of balance (CB) and basic weight marking may be applied to those vehicles that are susceptible to air deployment as follows:

a. The center of balance (CB) marking will be applied on each side of the vehicle in a 1-inch wide stripe not less than 3-inches long. The stripe will be located at the lowest visible point of the vehicle. The letters "CB" will be applied directly above the stripe. The basic weight of the vehicle will be applied adjacent to the stripe to indicate basic weight of the vehicle. EXAMPLE:

CB

2430 LBS.

b. The above marking may be applied utilizing reflective paint of a contrasting color or the reflective tape listed in Section V of this technical order.

3-70. NOISE HAZARD MARKING: Noise hazard marking shall be displayed in the vehicle cab in a readily visible location or adjacent to the access door on all vehicles determined to exceed noise level requirements. The size of marking shall be approximately 3 3/4" x 2 1/2" and shall be applied by stencilling in a contrasting color as follows:

CAUTION

Hazardous noise area ear protection required.

3-71. MARKING CAMOUFLAGE PATTERN PAINTED VEHICLES. Camouflage pattern painted vehicles shall be marked as follows:

a. Unit identification shall be applied in black lusterless paint.

b. When National Symbol (STAR) is used it shall be applied in accordance with paragraph 3-27 utilizing lusterless black paint camouflage.

c. U.S. Air Force and Registration Number shall be applied to both front doors and to the rear of vehicle with lusterless black paint. When applying registration numbers on the vehicles, a double space will be left between the letter and the sequence number. The sizes of the letters and numerals to be used will be 1-1/2 inch.

d. Safety and Instructional markings such as tire pressure, fuel type and fill level may be retained in black lusterless letters no larger than 1-inch. Markings directly related to personnel safety must be evaluated by responsible safety personnel.

3-72. MARKING LAW ENFORCEMENT SEDANS: Law enforcement Sedans shall be marked as follows:

a. POLICE in 7-inch reflective strata blue letters, color number 15045, shall be centered on a rearward facing vertical portion of the trunk lid as illustrated in Figure 4-47.

b. POLICE in 4-inch reflective strata blue letter, color number 15045, shall be applied to the top vertical side of both front fenders as illustrated in Figure 4-47.

c. A security police badge shall be centered on both front doors as illustrated in Figure 4-47.

d. Vehicle registration number in 1-1/2 inch reflective strata blue letters will be applied and centered on the license plate between the legend US AIR FORCE and OFFICIAL USE ONLY. A single license plate will be placed on the rear of vehicle as illustrated in Figure 4-47.

e. When authorized by major command, dual 4-inch strata blue stripes 2-inches apart may be applied to each side of the vehicle as illustrated in Figure 4-47. Stripes may be applied with reflectorized tape 3m part number 690-75 or may be painted using the following procedure: Apply a comparable blue metallic acrylic enamel, Dupont Bonzai blue formula number B9134 (or equivalent). Paint

over cover coat with blue pearl. Paint and tape shall be locally procured.

f. The base chief of security police may authorize the use of the following optional markings:

(1) Emergency dial 911 - Use white letters and locate on the rear portion of the uppermost blue stripe on each side of the vehicle as illustrated in Figure 4-47. (Vehicle without strip use 1 1/2-inch strata blue letters in approximately the same area.)

(2) Crime stop dial XXXXXXXX - as described in 3-72f(1) above.

(3) Such items as crime stop programs bumper stickers, dare program stickers, etc, may be applied to the bumpers, light bars or located on the rear windows such that the sticker does not effect rearward vision, nor should it cover the center mounted stop light.

3-73. MARKING 41-PASSENGER INTER-CITY BUSES USED FOR SUPPORT OF BANDS.

a. The bands number followed by "AIR FORCE BAND" may be centered on the blue background below the windows on each side of the bus when approved by the Major Command: EXAMPLE:

"701 AIR FORCE BAND".

b. The marking shall be applied in 12-inch high letters and numbers utilizing white paint to match the color of the bus top.

c. All other markings shall be standardized in accordance with Section III of this Technical Order.

NOTE

When authorized by the MAJCOM (CONUS only), buses may display the slogan: "Air Force: A Great Way of Life". The slogan will be on a pressure-sensitive decal applied to both sides of the bus directly below the windows, between the fender well and front door (driver's window on left side) as illustrated in figure 4-48.

d. Buses previously marked with band names shall not be remarked until routine repainting is required.

3-74. MARKING OF CONTRACTOR OPERATED VEHICLES.

a. Vehicles owned and furnished by the Government to a contractor shall be marked "CONTRACTOR OPERATED". The marking will be applied on both front doors immediately below official Air Force markings in 1 1/2-inch letters. Color of marking shall be as specified in paragraphs 3-8 through 3-10. Contractor operated vehicles that are utilized strictly on government property are exempt from this requirement.

3-75. INSTALLATION OF REFLECTORIZED TAPE.

a. Clean surface of vehicle prior to applying marking.

b. Remove liner film down.

c. Position emblem on clean surface. Tack in position with thumb pressure.

d. Start in center using hard overlapping strokes of low friction plastic squeeze.

e. Re-squeeze the edges using very firm strokes.

f. Apply clean sealer to the edges of the tape.

g. Repairs to damaged areas can be made without stripping original tape. Clean damaged area and apply new tape over affected area.

3-76. REMOVAL OF REFLECTORIZED TAPE.

WARNING

Lacquer thinner, kyllol, and isopropyl alcohol are flammable and toxic. Good general ventilation is normally adequate. Skin and eye protection is required. Avoid all sources of ignition.

a. Pressure sensitive tape may be removed by softening with heat (heat lamp, heat gun, steam, etc.) adhesive residue can be softened with rags soaked with lacquer thinner, kyllol or isopropyl alcohol and scraped away with plastic scraper or putty knife.

b. When tape has been applied for several years it may be most easier removed by masking off the area around the tape and then brushing a methylene chloride base paint remover over the tape. Several applications of remover may be required at shortly spaced intervals; tape residue should be removed with plastic scraper or bevel edge putty knife between applications. The paint remover may damage the paint beneath the tape, requiring cleaning and touchup painting in that area.

NOTE

The above solvents are flammable and toxic, and methylene chloride base paint removers can be toxic; therefore, all safety precautions shall be taken.

3-77. REQUISITIONING OF MARKINGS. All markings listed in Section V, paragraph 5-1.b., source coded WR/ALC, will be requisitioned in accordance with AFR 6-1. Requisitions will be submitted on AF Form 764A to 2853 ABG/IMPT, Robins AFB GA 31098.

NOTE

If decals are not available upon immediate requisition and equipment involved hampers mission capability or presents a safety hazard in an unmarked condition, appropriate markings may be stencilled on vehicles or equipment prior to receipt of decals.

SECTION IV

ILLUSTRATED GUIDE TO VEHICLE MARKINGS

4-1. FIGURES.

The following figures are representative of the various types of bumpers, cabs, and bodies upon which the vehicle markings specified in this technical order are to be placed. The markings illustrated are furnished as a guide to indicate the location of the mark-

ings in respect to the space available. Markings of vehicles not illustrated herein will be applied in a manner as nearly as possible to that illustrated for comparable vehicles.

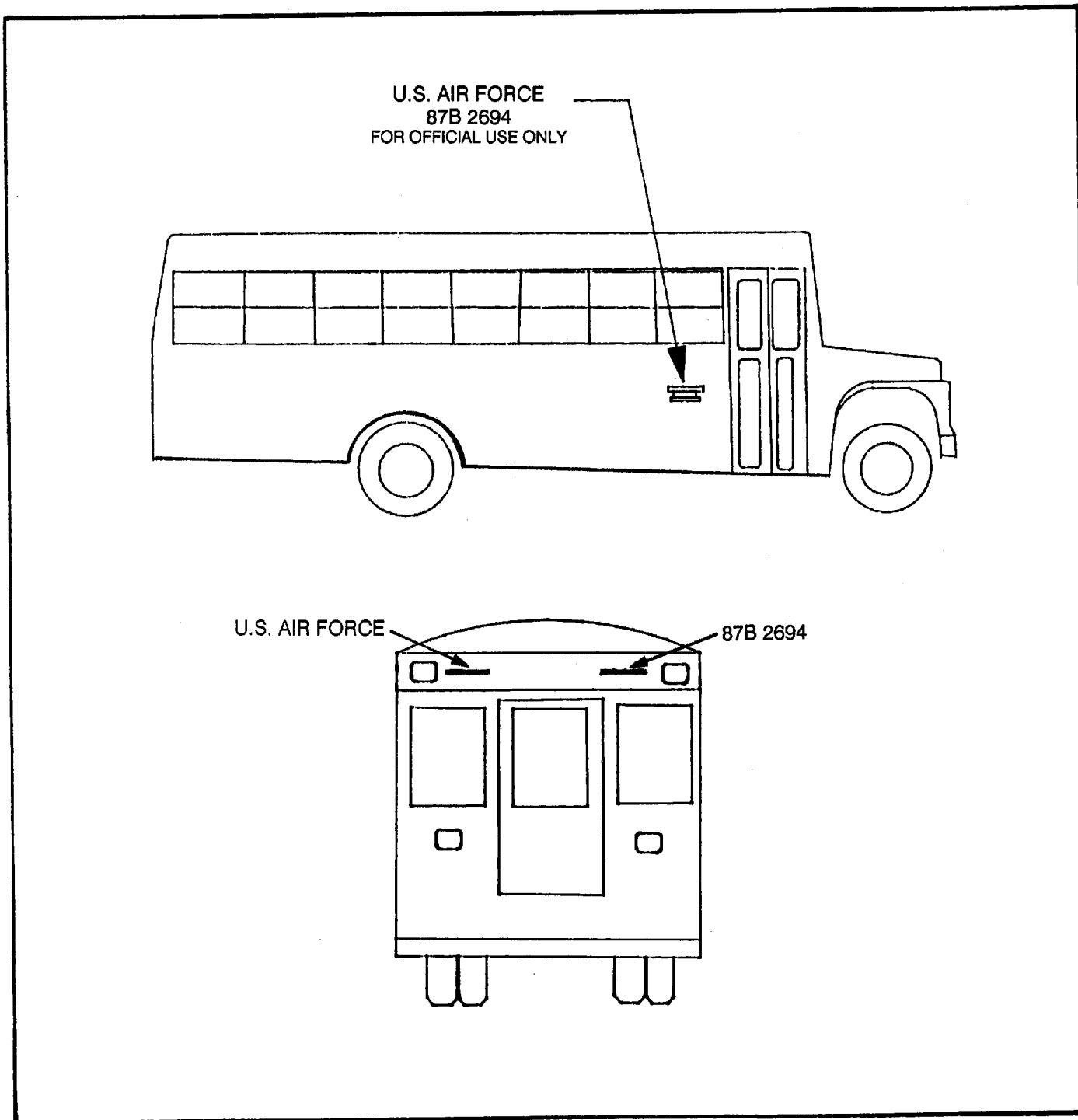


Figure 4-1. Bus

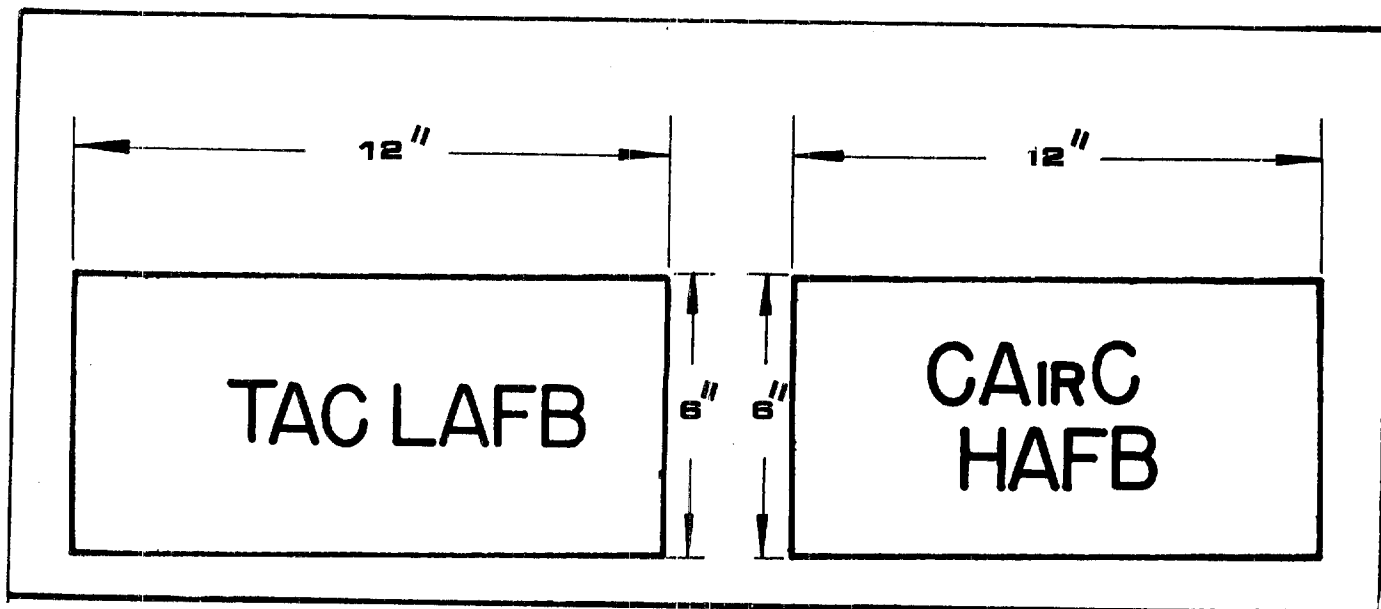


Figure 4-2. Marking Plates

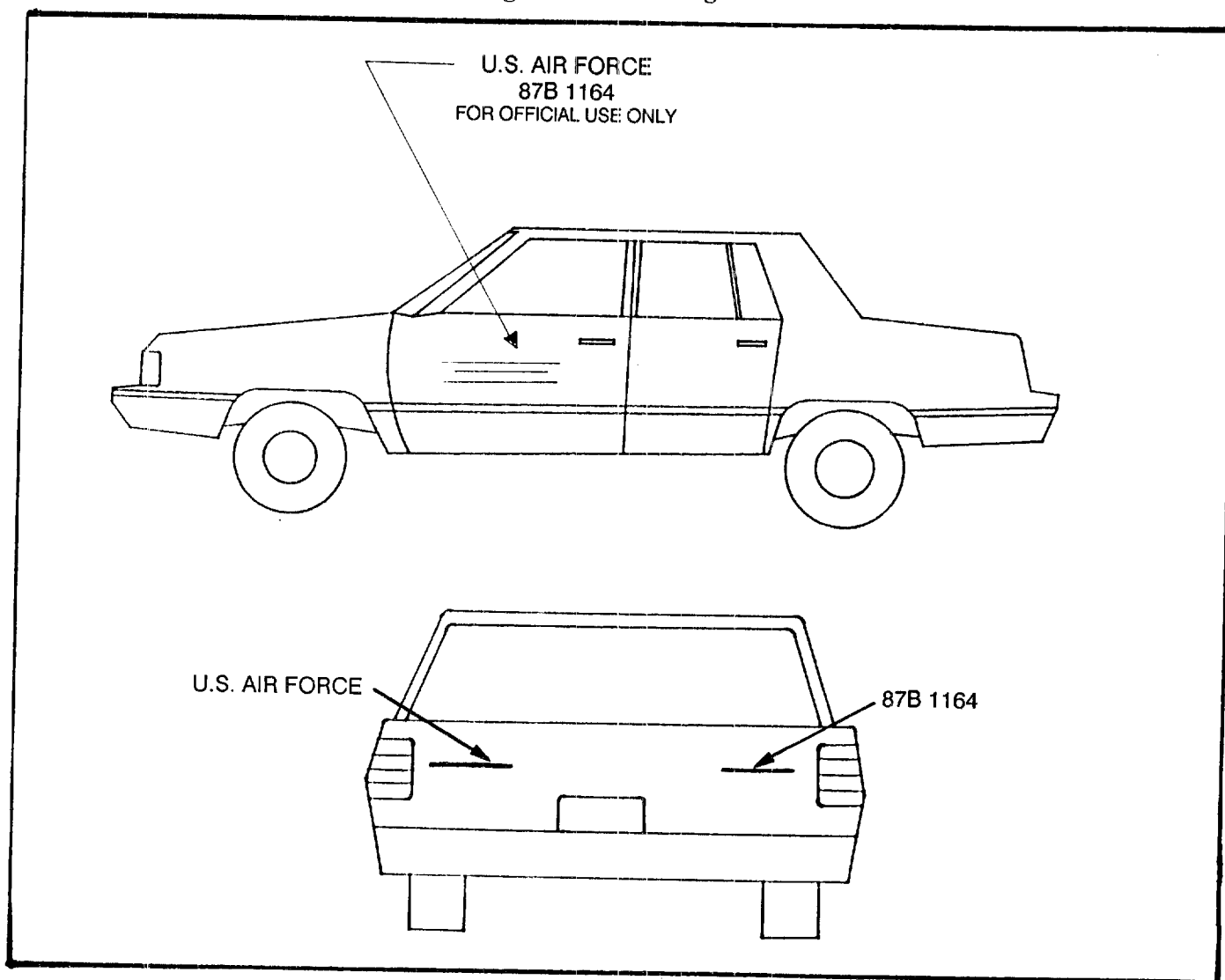


Figure 4-3. Sedan

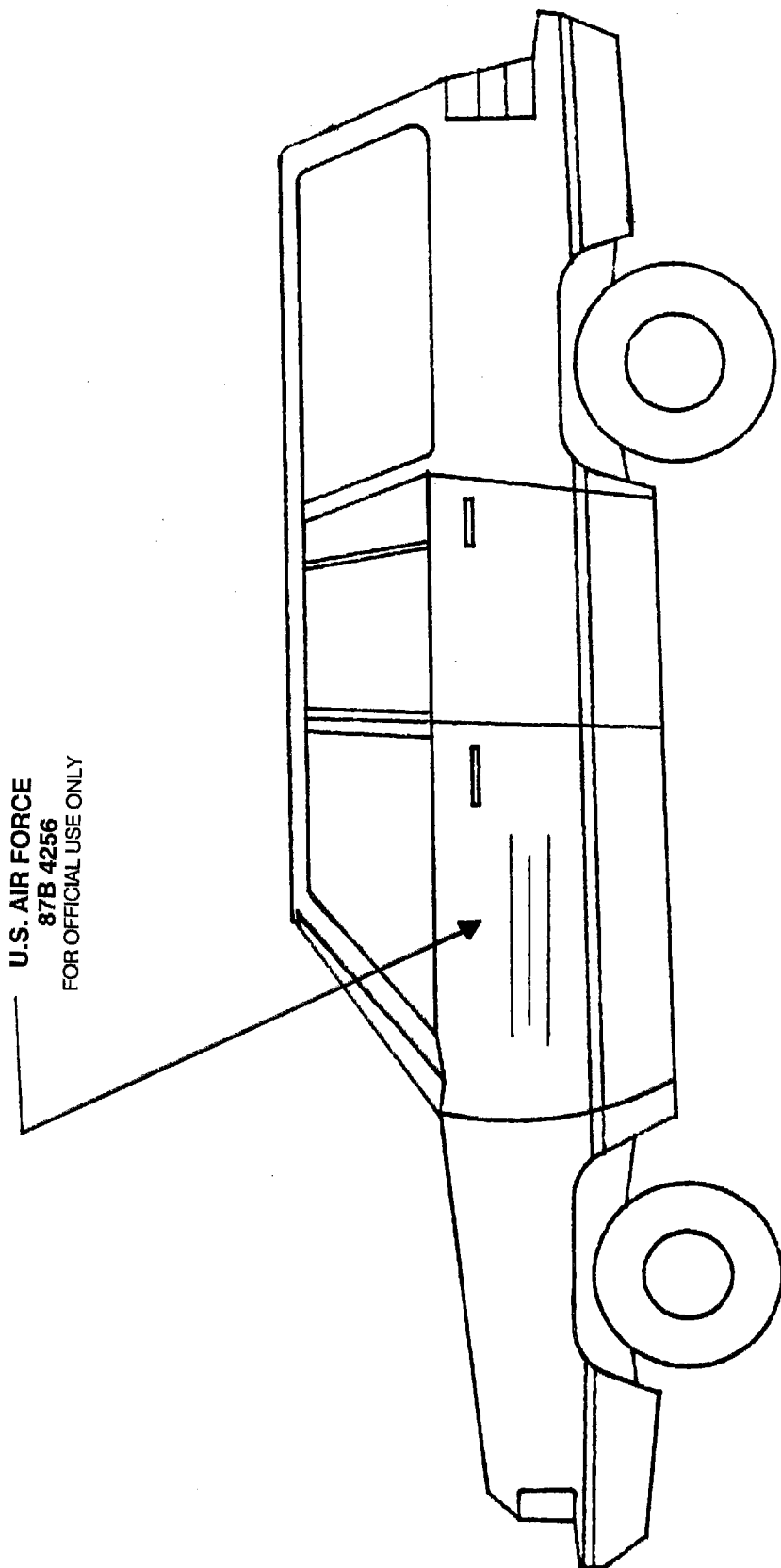


Figure 4-4. Station Wagon

Figure 4-4. Station Wagon

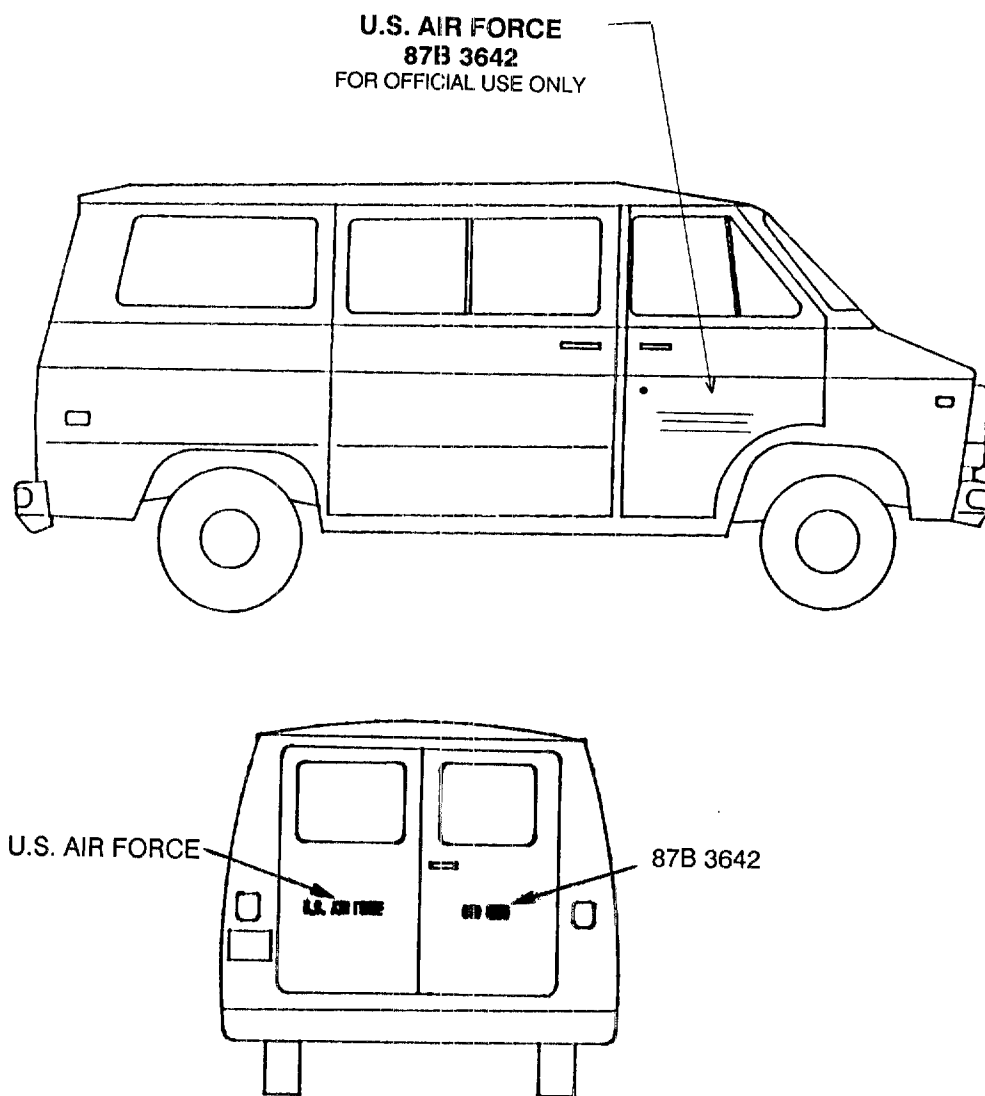


Figure 4-5. Carryall

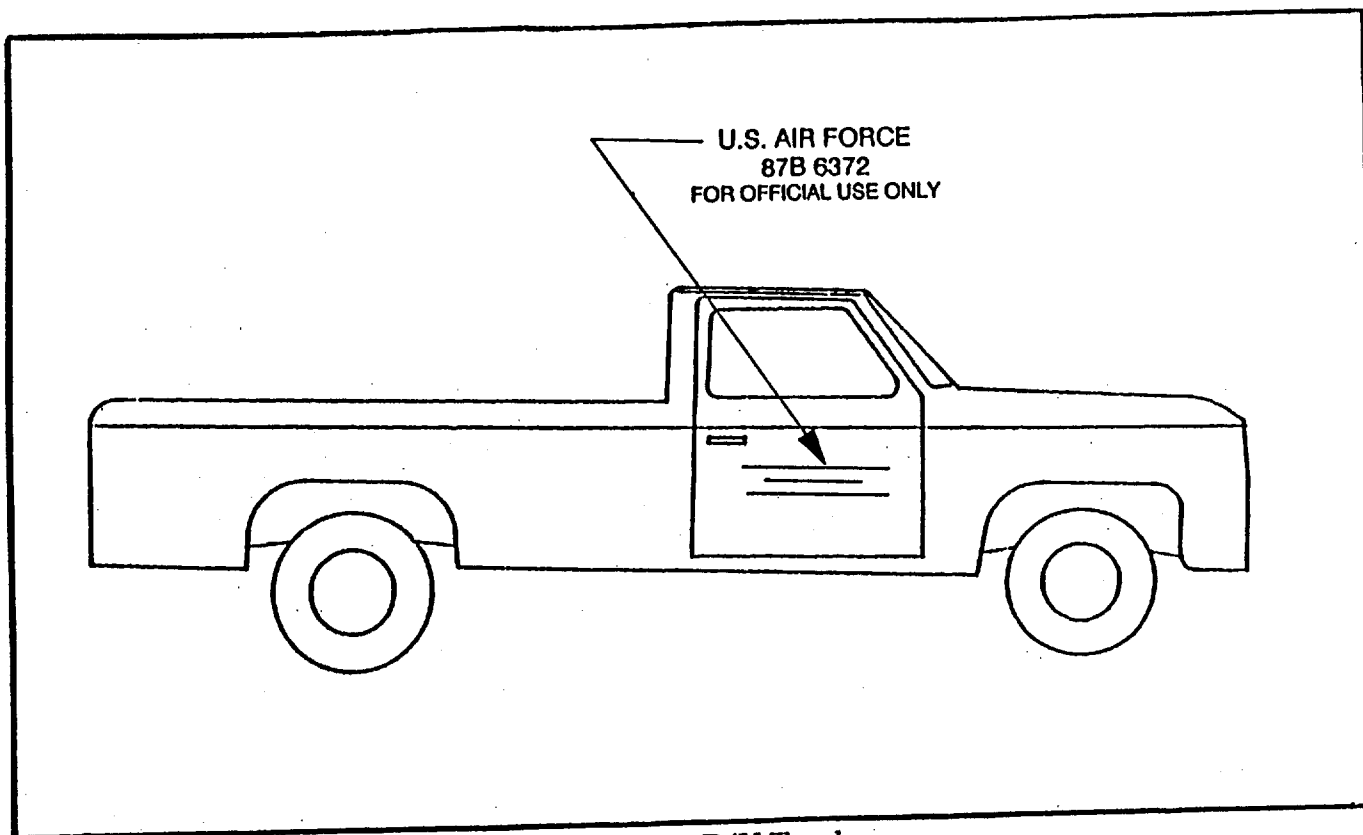


Figure 4-6. P/U Truck

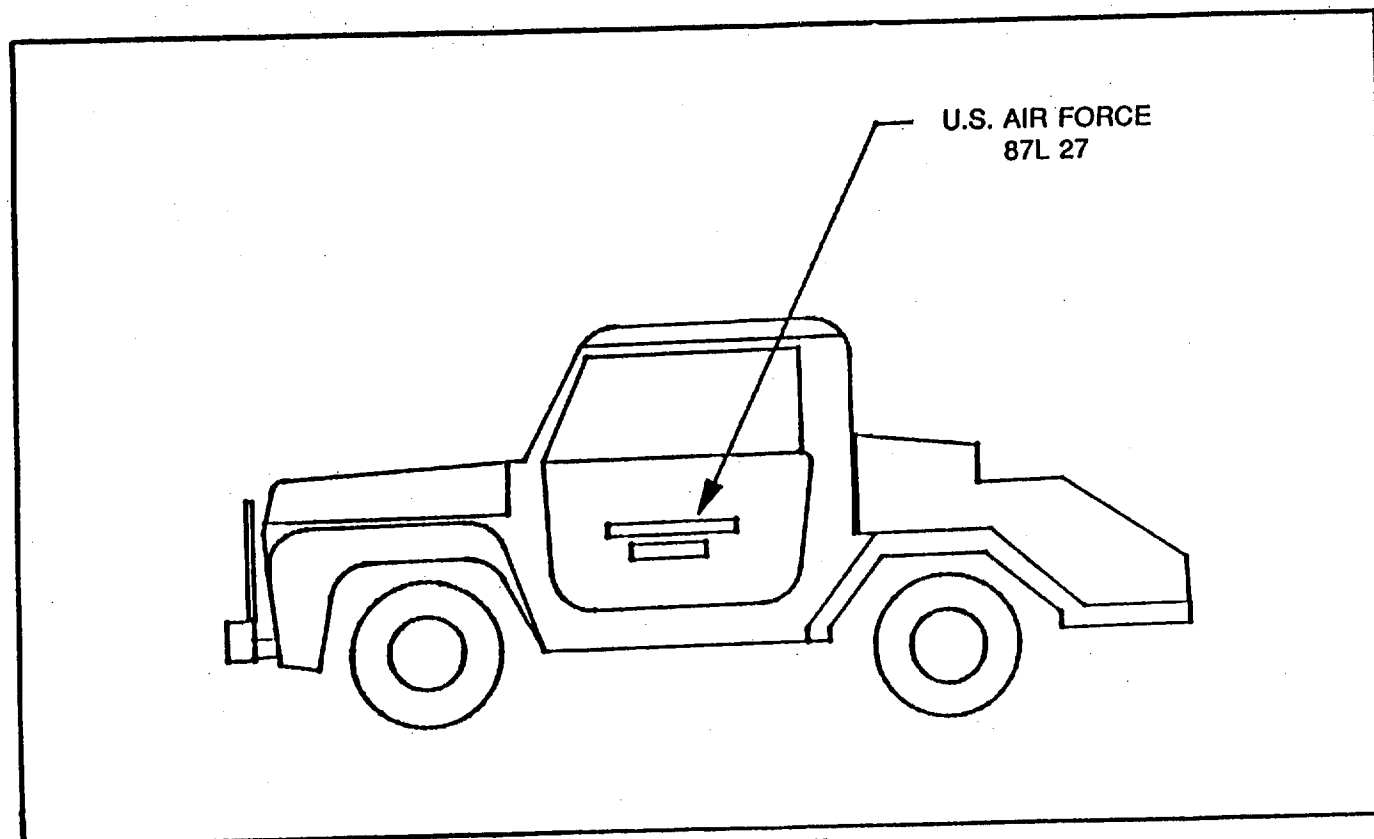


Figure 4-7. Bobtail

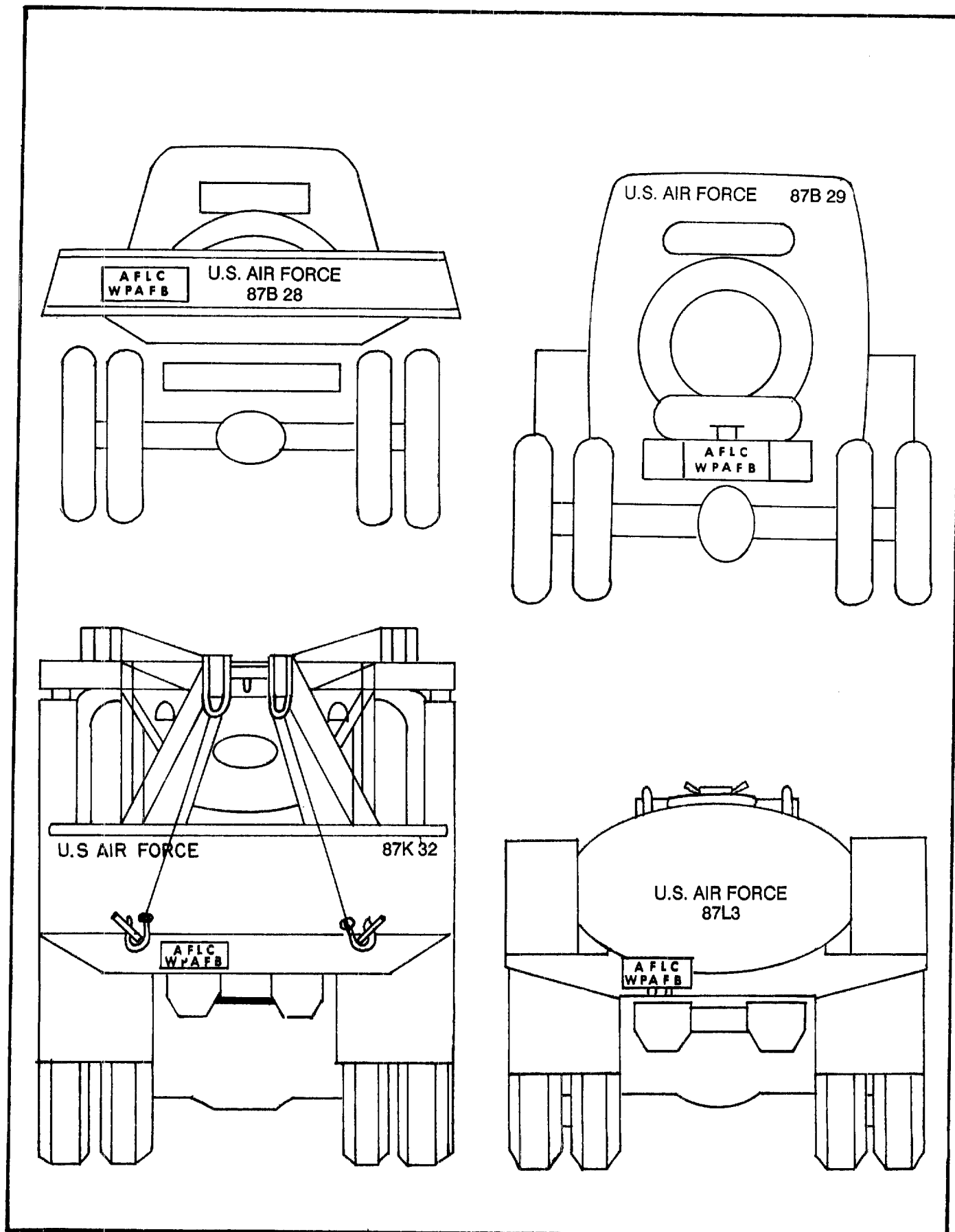


Figure 4-8. Truck - Rear Views

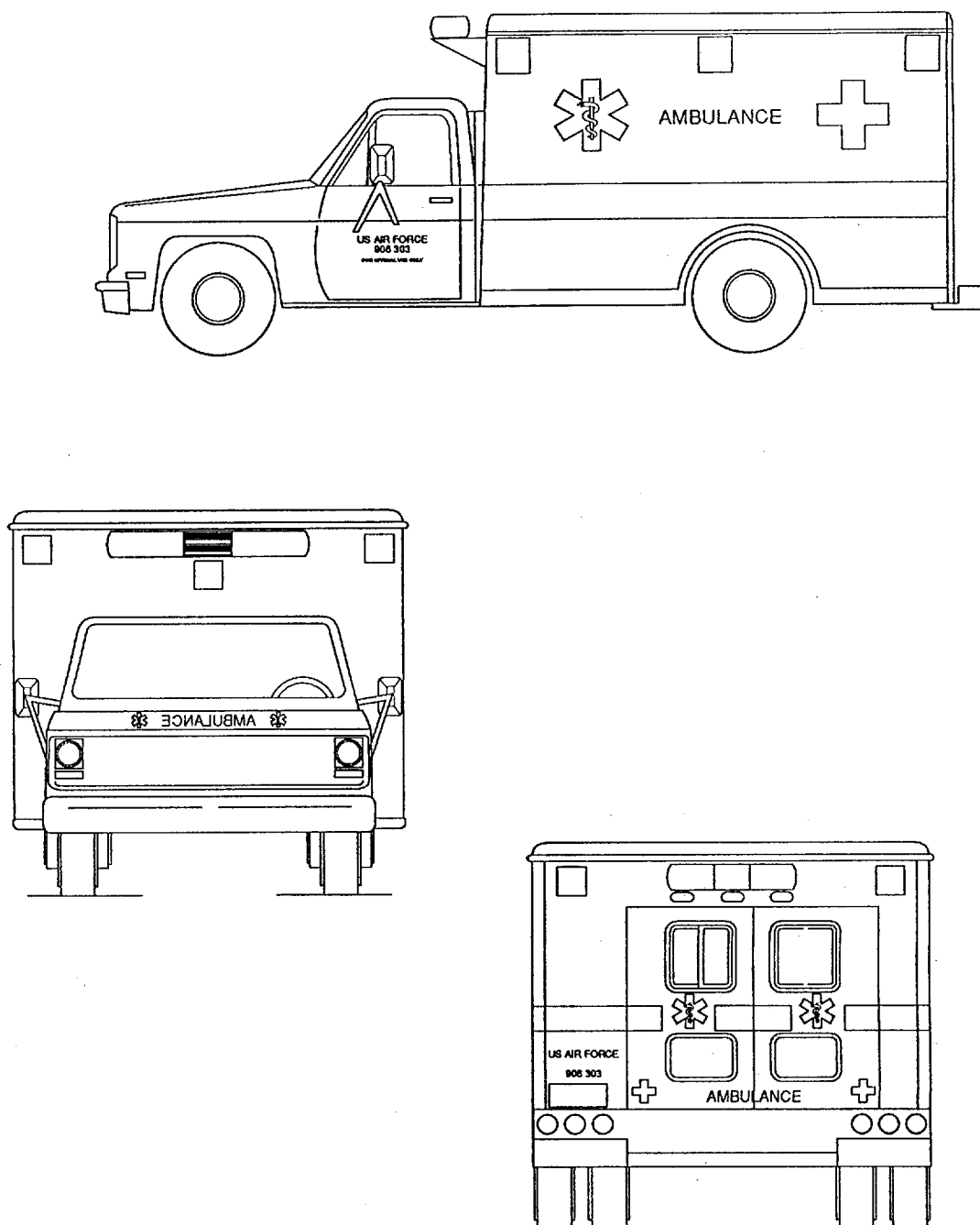


Figure 4-9. Modular Ambulance

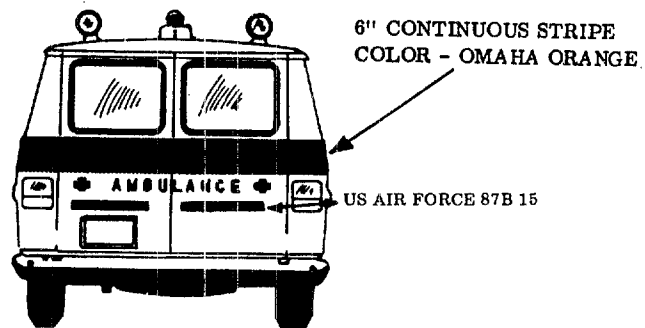
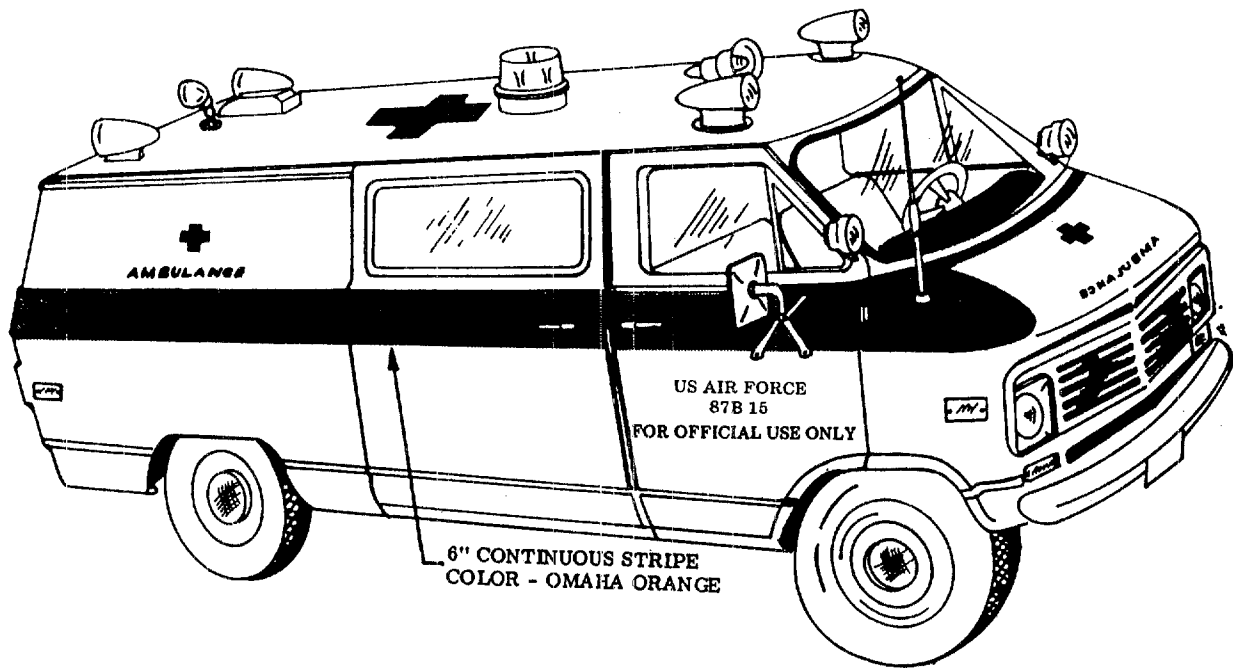


Figure 4-10. Van Ambulance

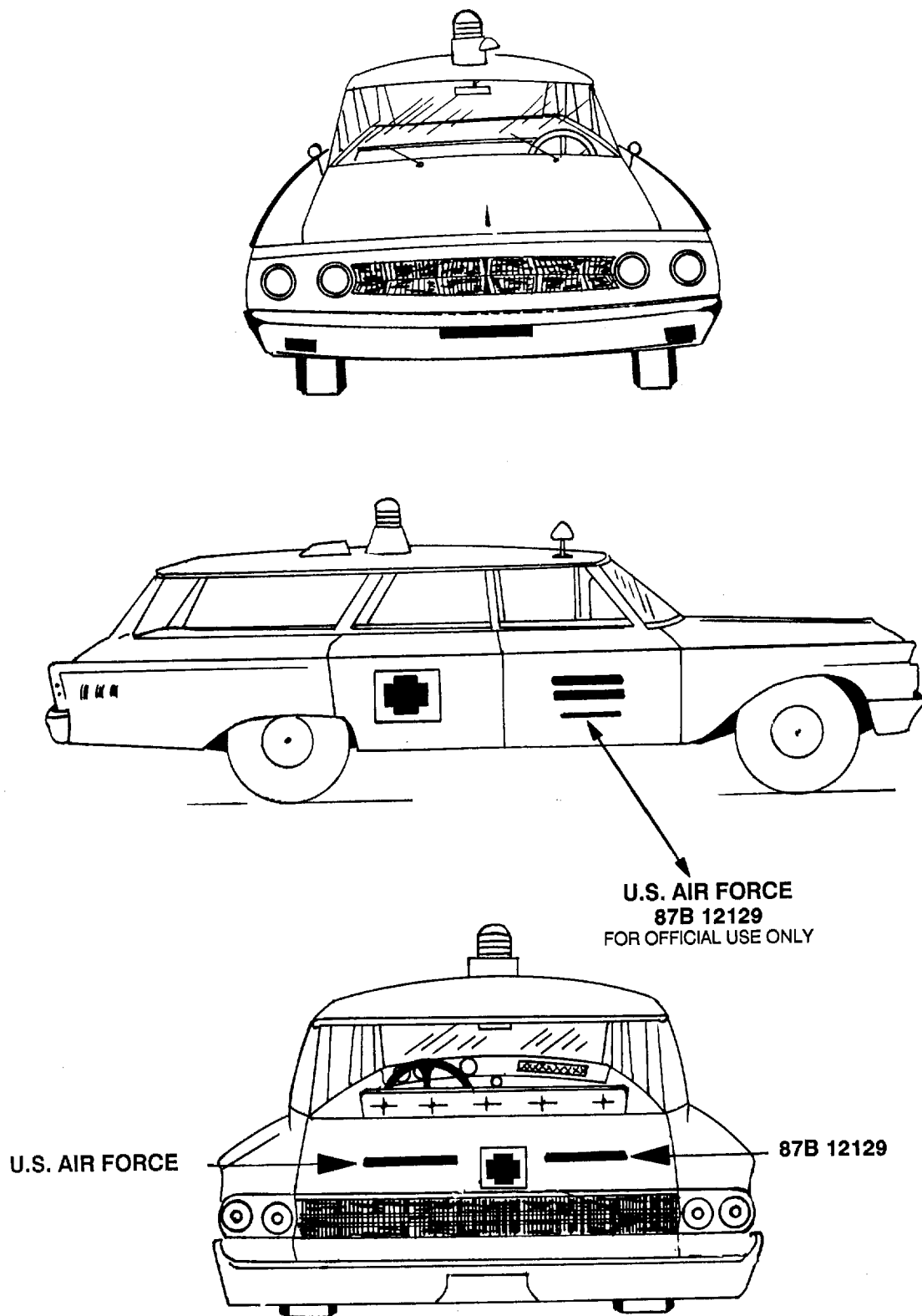


Figure 4-11. Station Wagon Ambulance

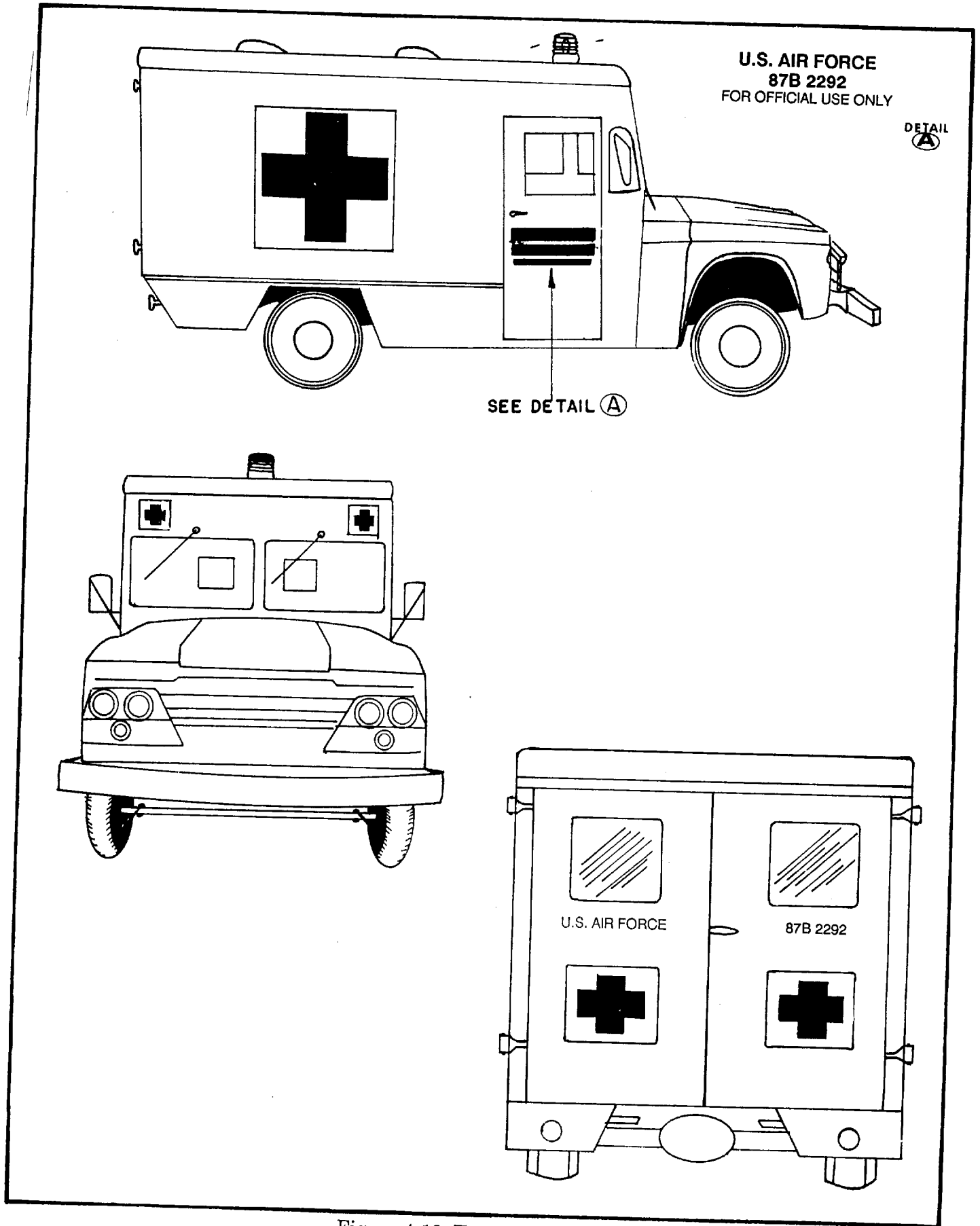


Figure 4-12. Truck Ambulance

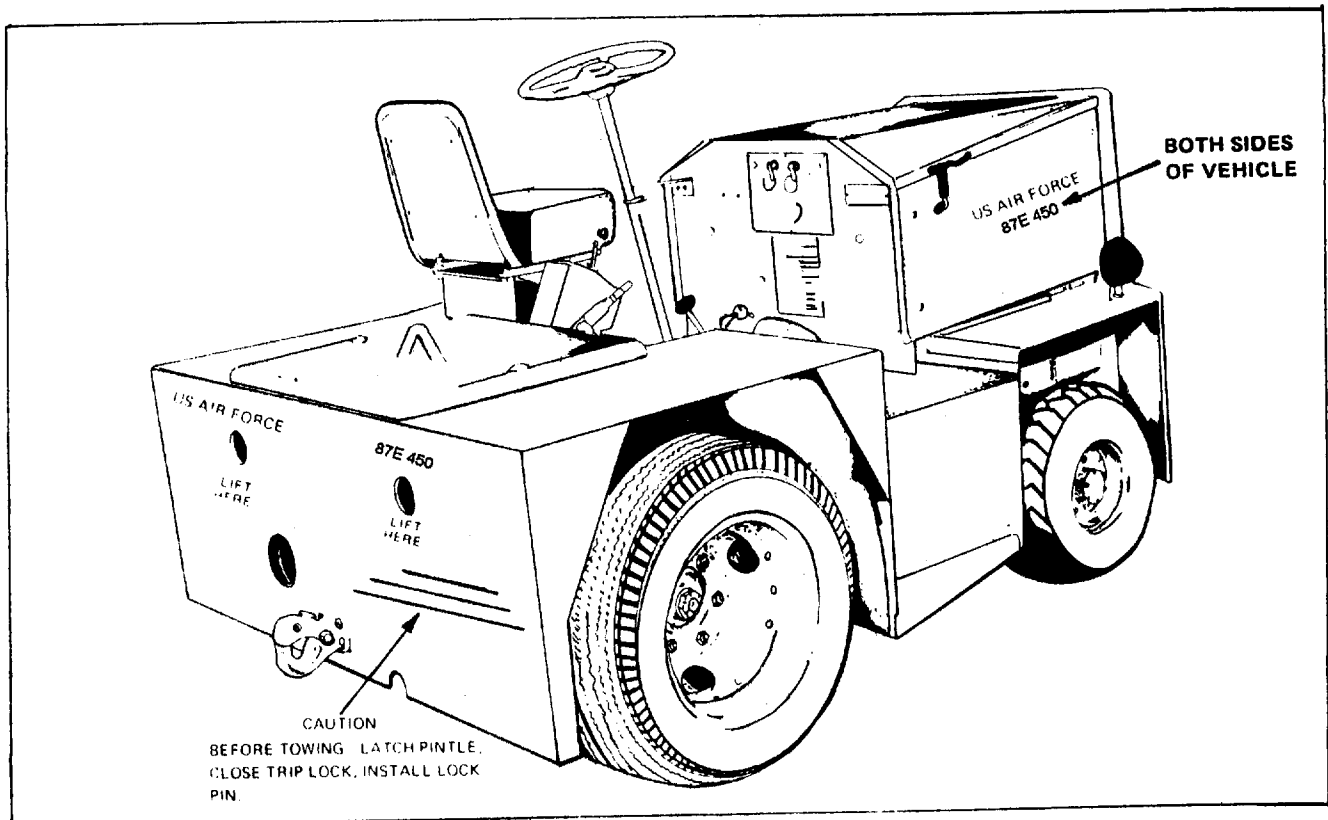


Figure 4-13. Warehouse Tractor

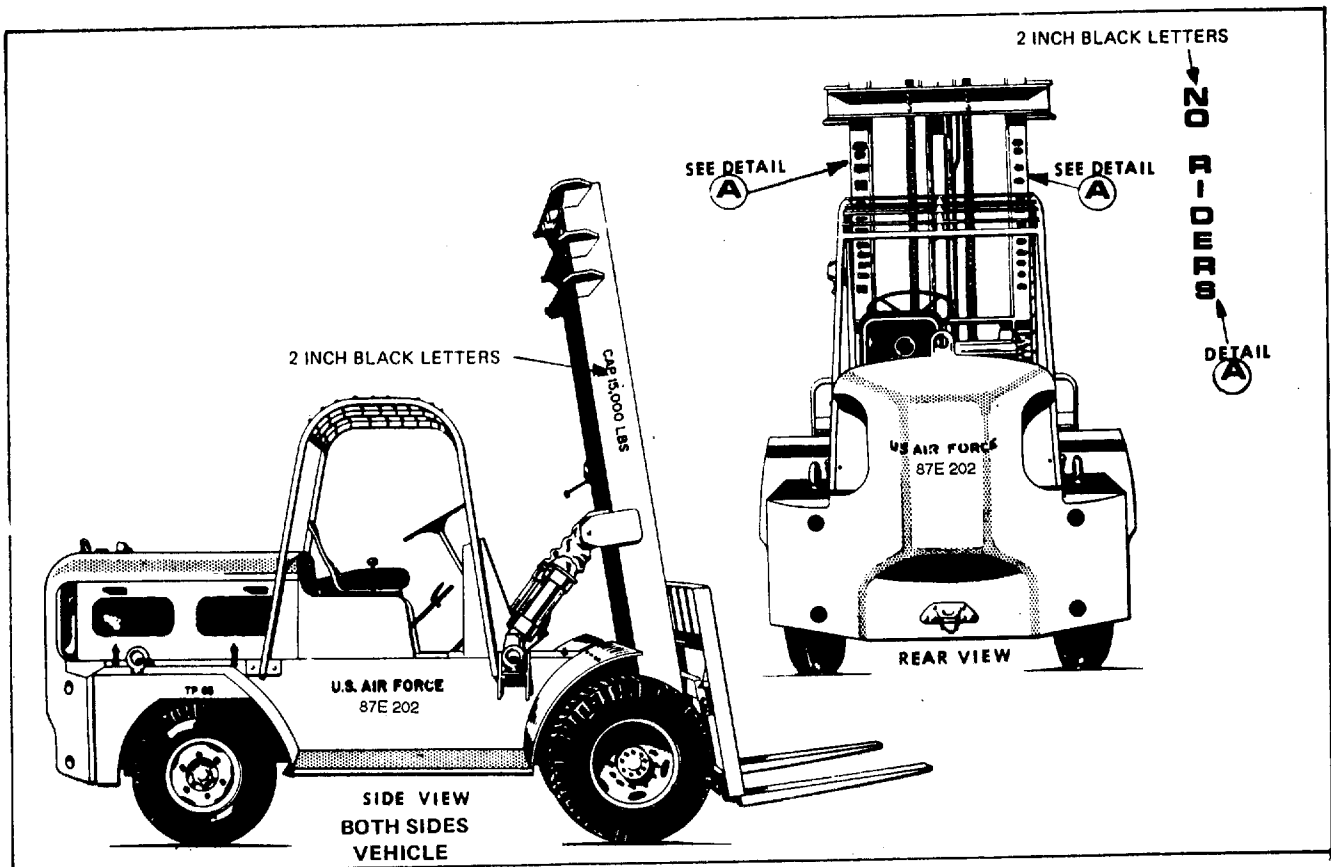


Figure 4-14. Forklift Truck

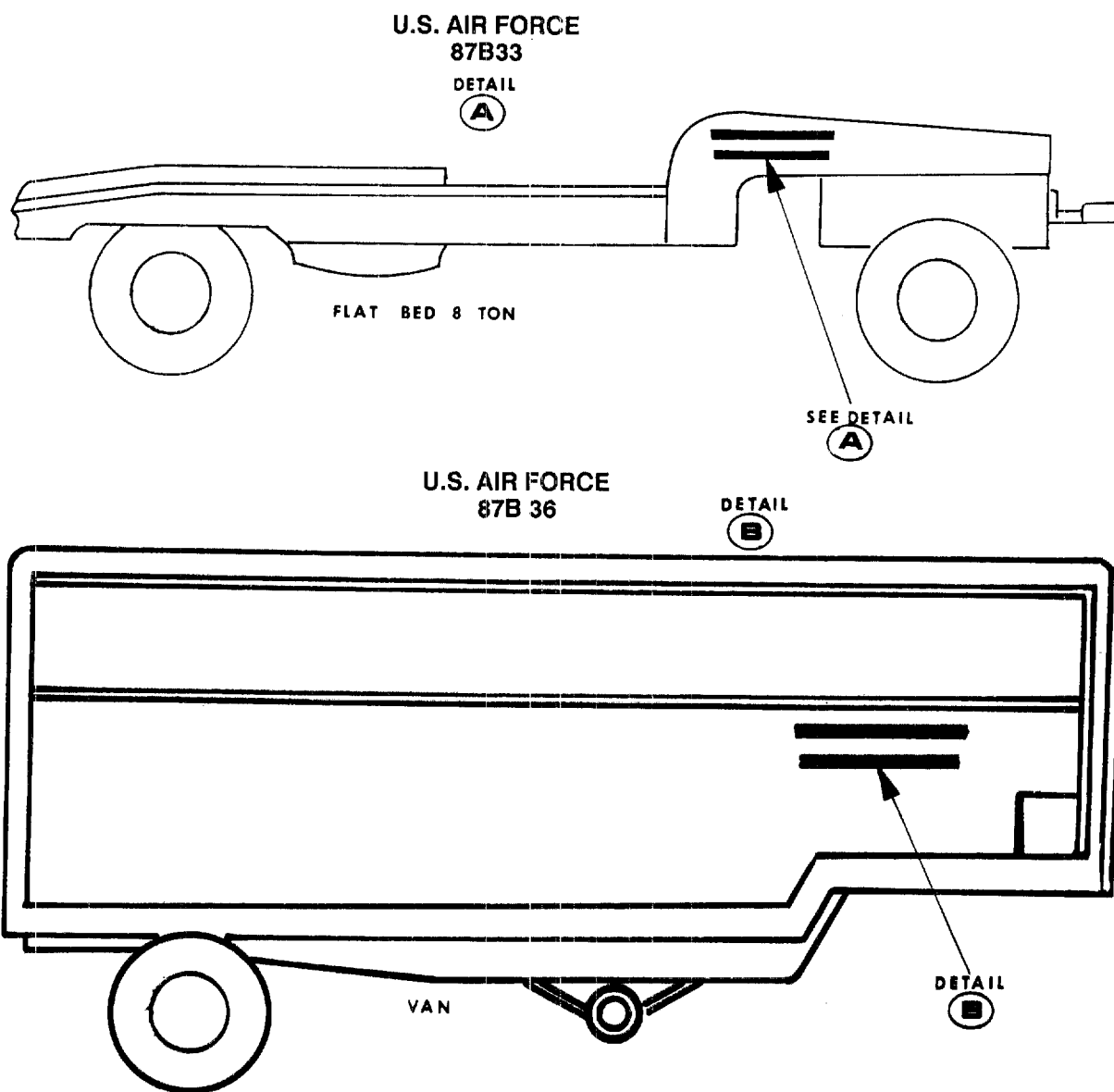


Figure 4-15. Trailers - Side Views

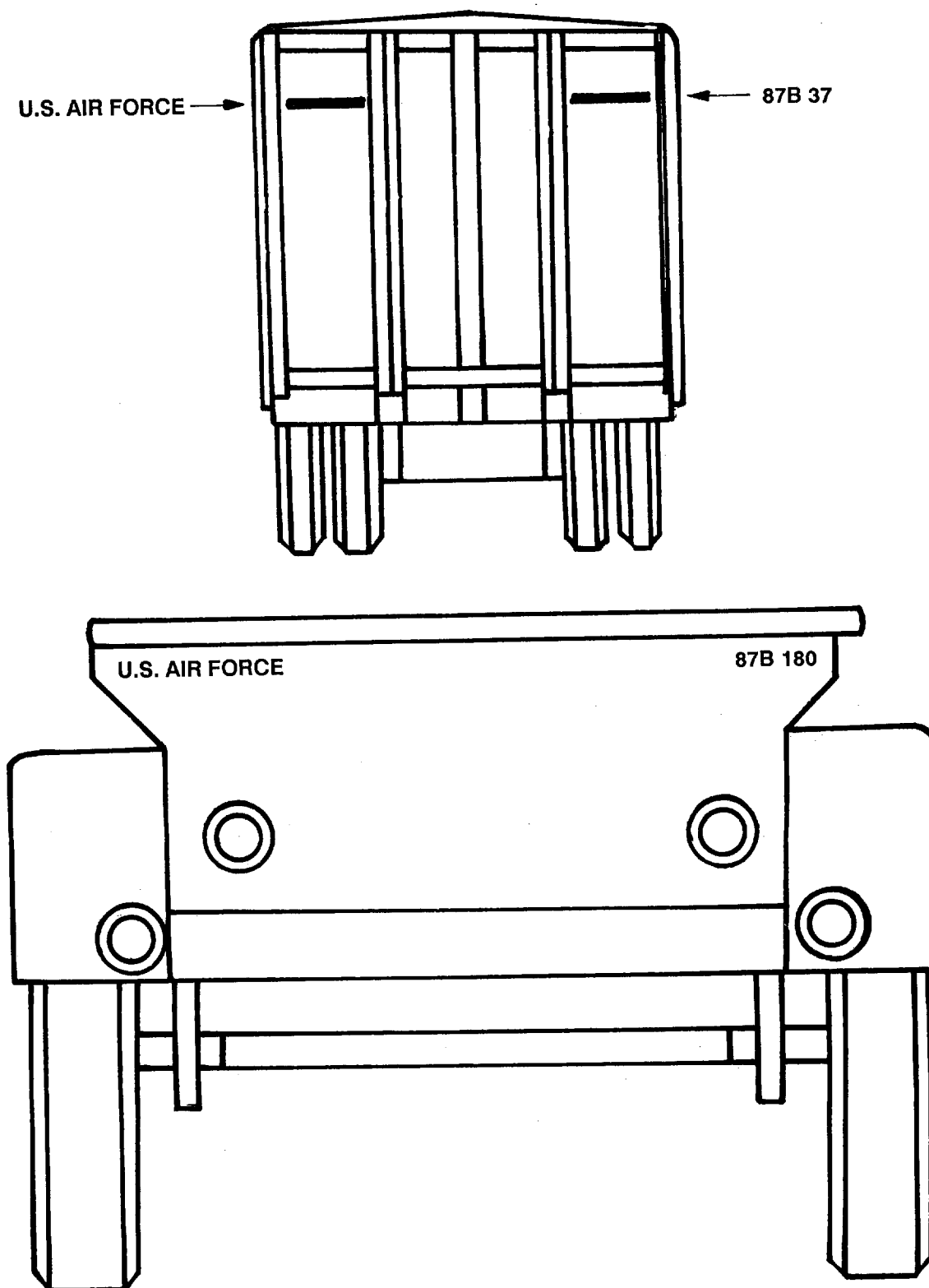


Figure 4-16. Trailers - Rear Views

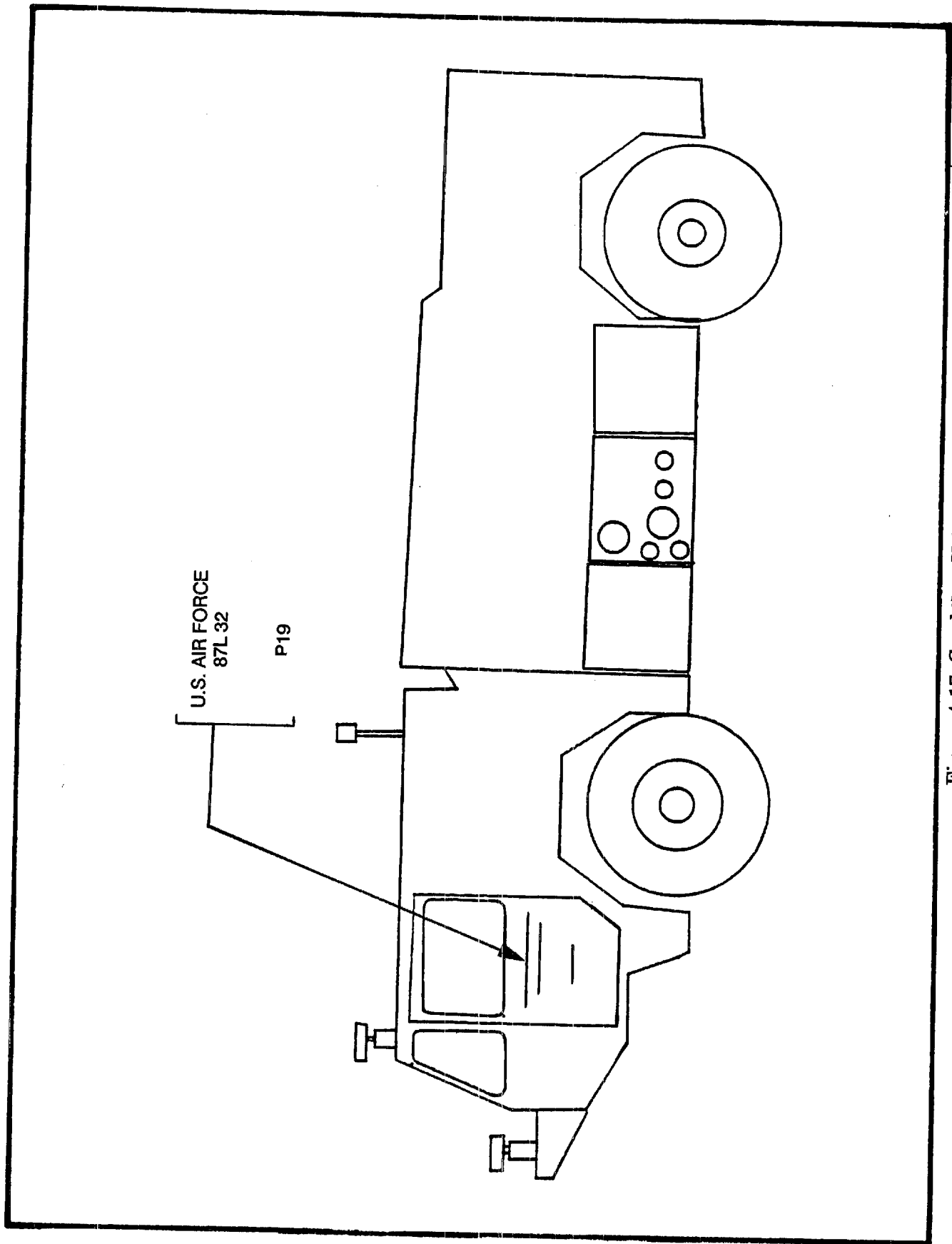


Figure 4-17. Crash Fire Vehicle Markings

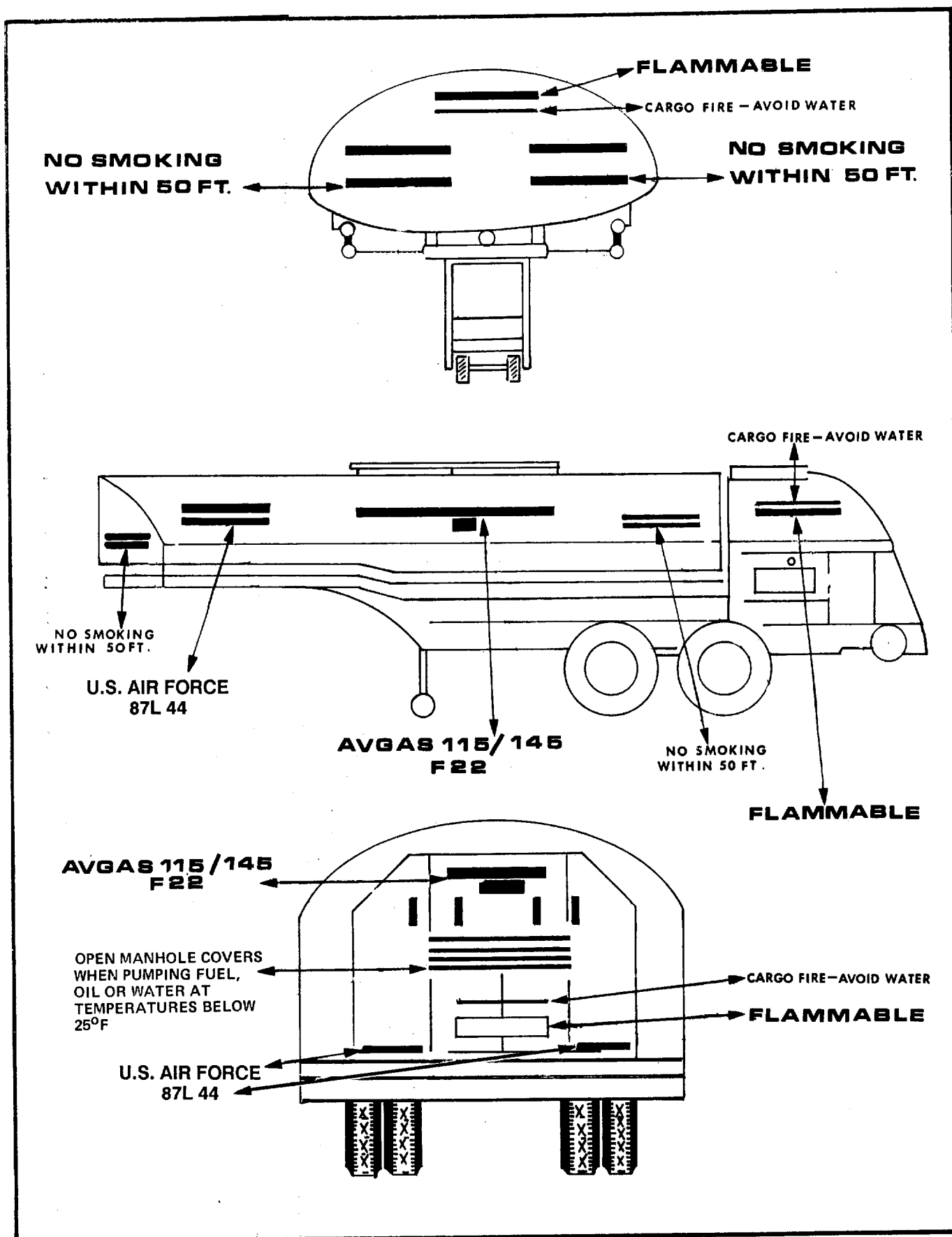


Figure 4-18. Fuel Servicing Semi-Trailer

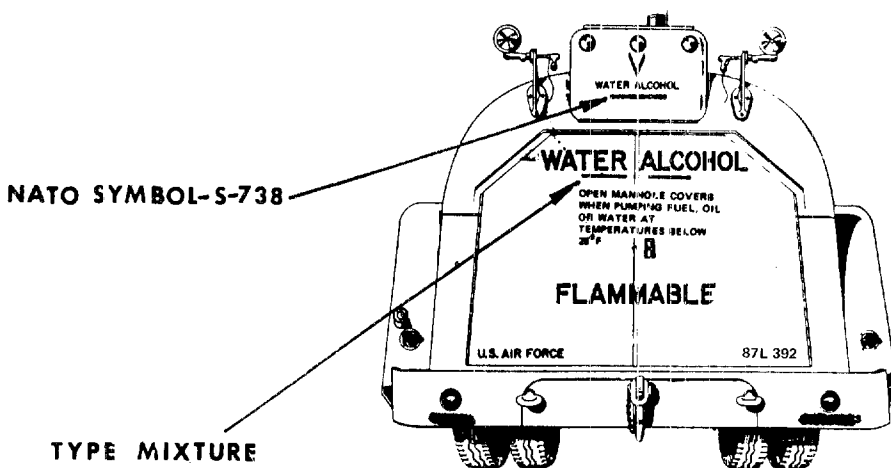
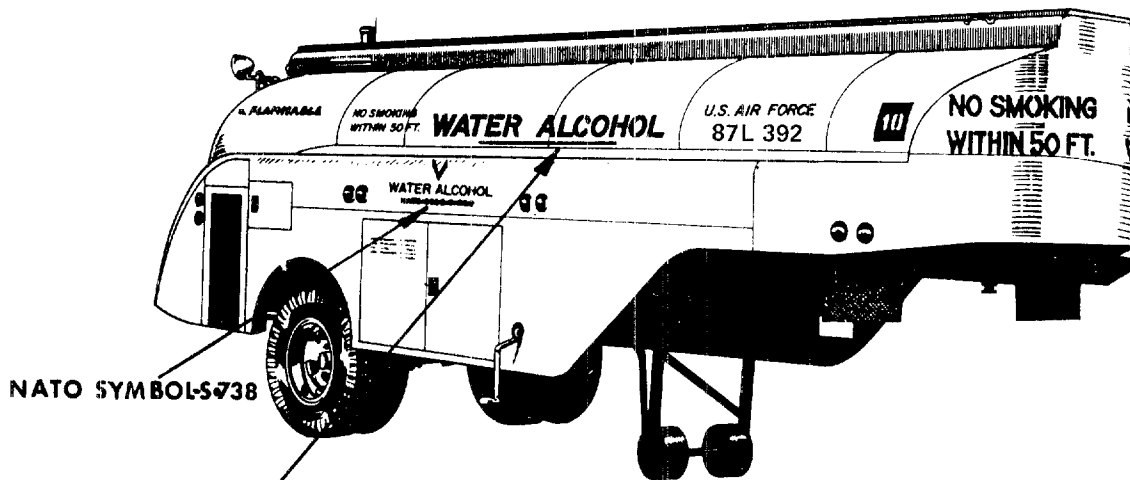


Figure 4-19. Water Alcohol Unit

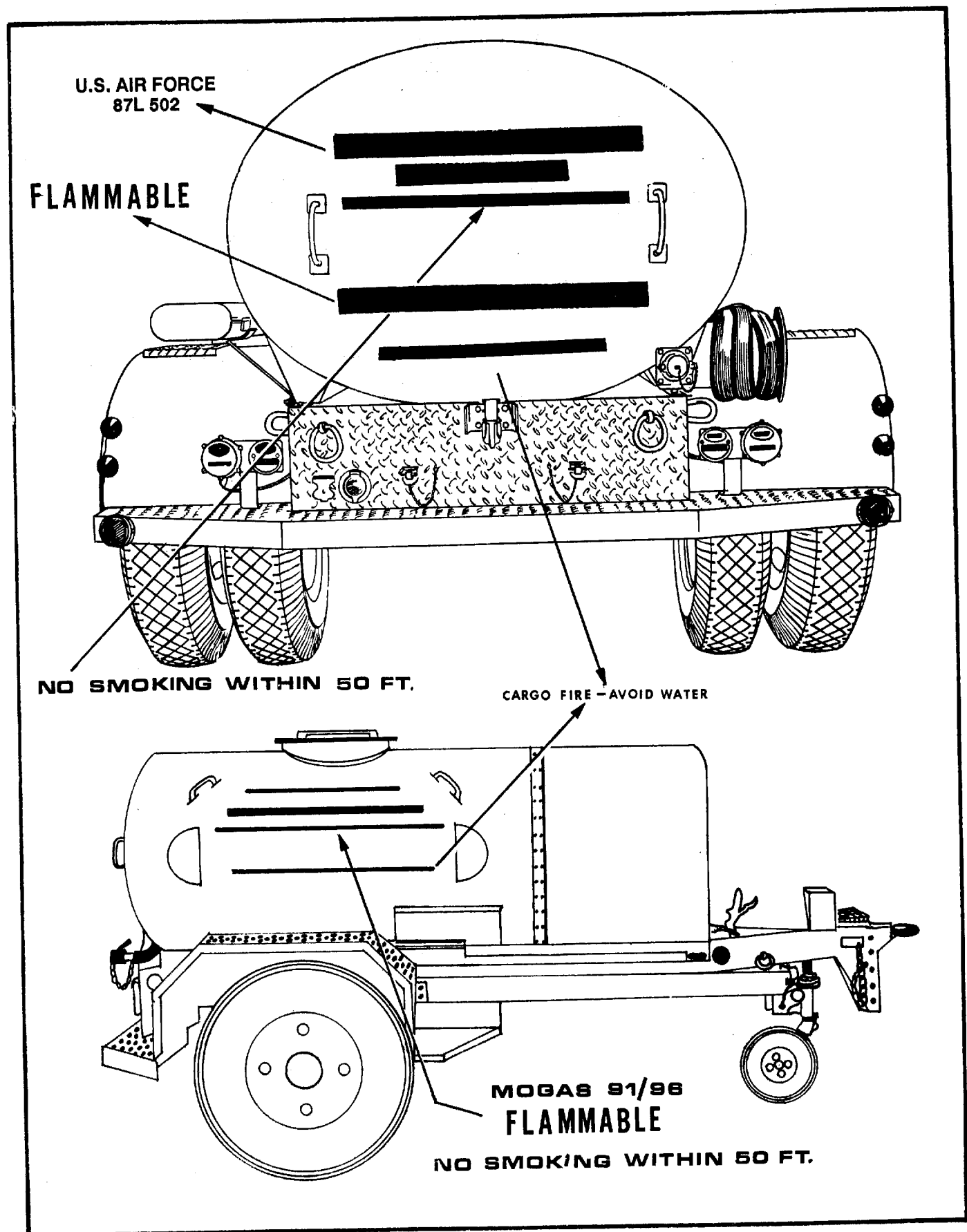


Figure 4-20. Fuel Trailer - Two Wheel

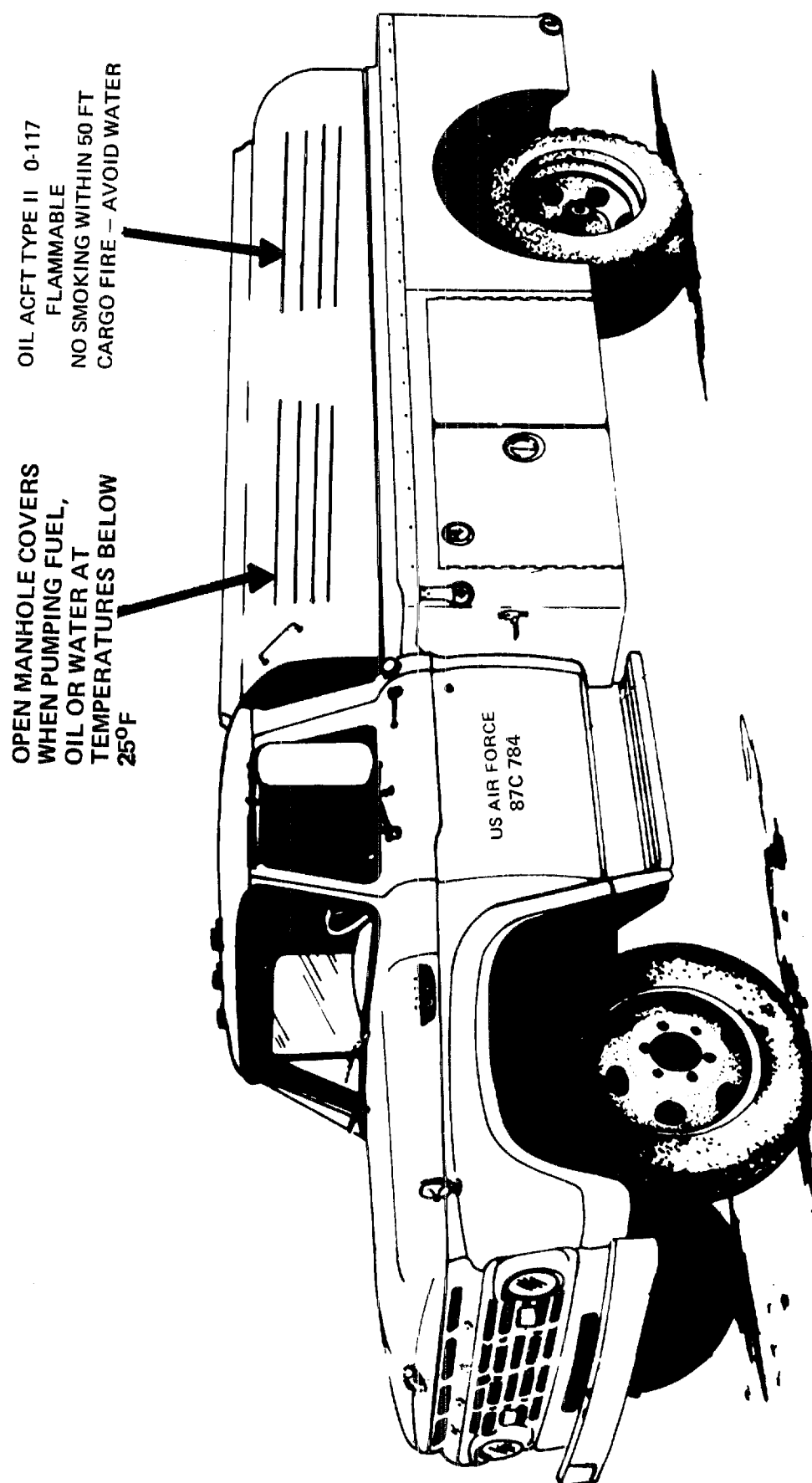


Figure 4-21. Fuel or Oil Servicing Trucks

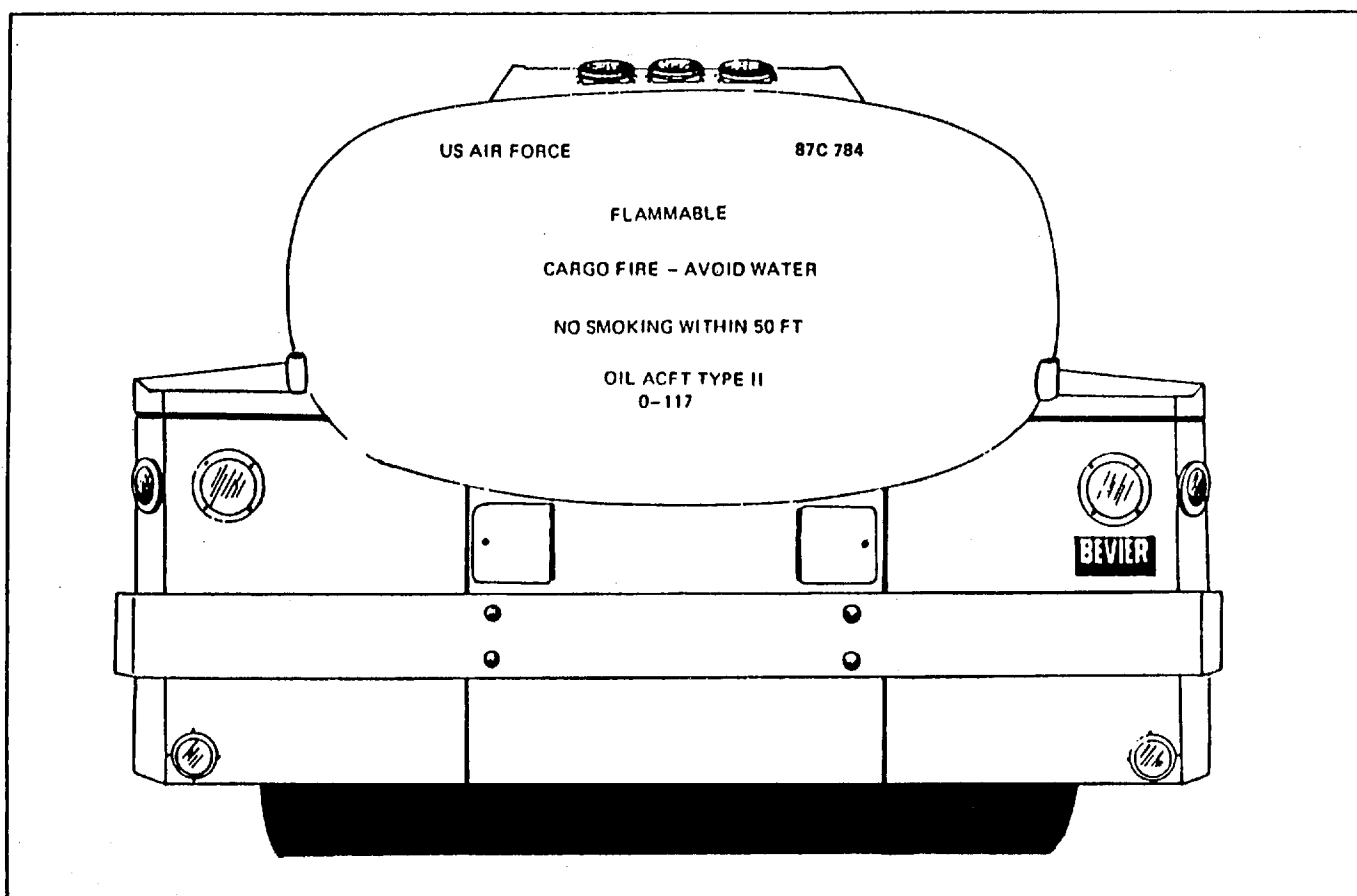


Figure 4-22. Fuel or Oil Servicing Trucks (Rear View)

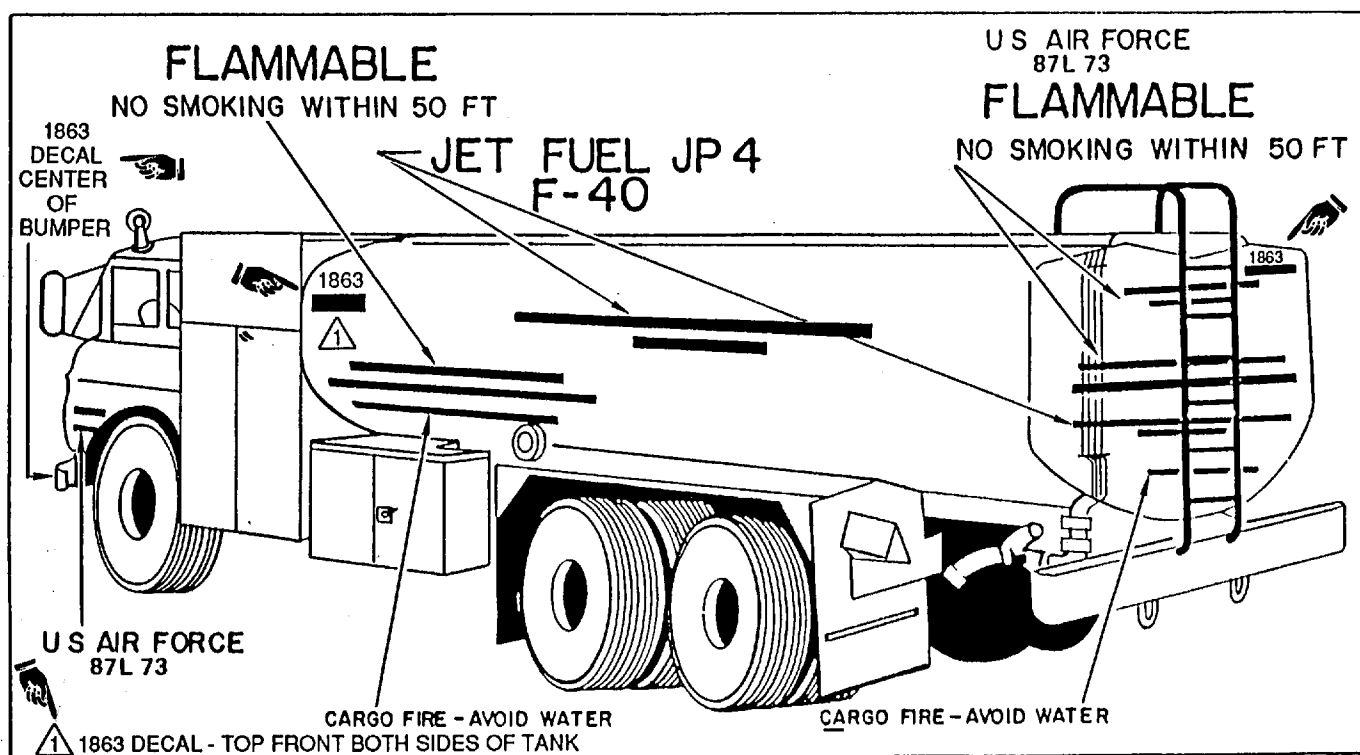


Figure 4-23. Refueling Truck (Sheet 1 of 2)

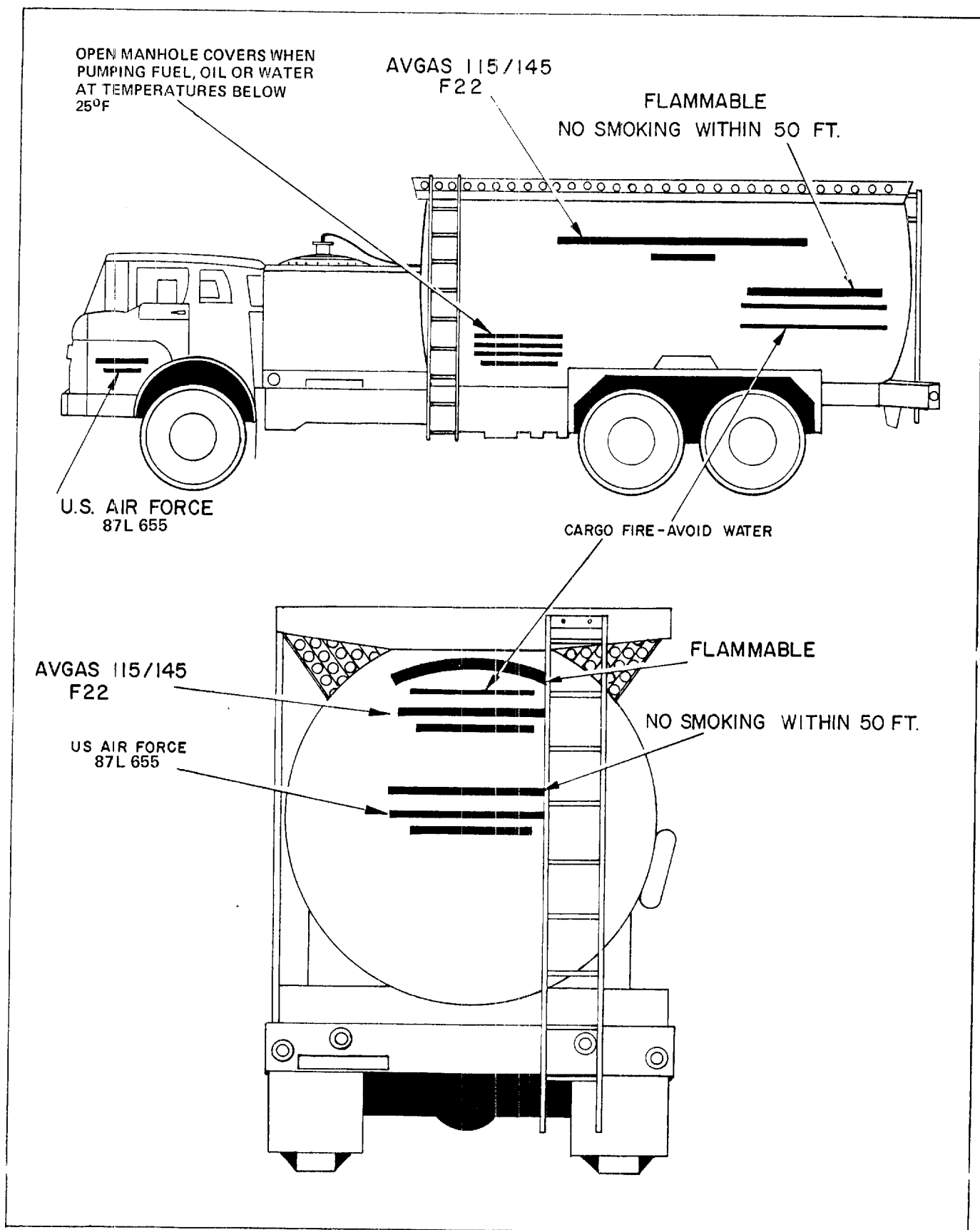


Figure 4-23. Refueling Truck (Sheet 2 of 2)

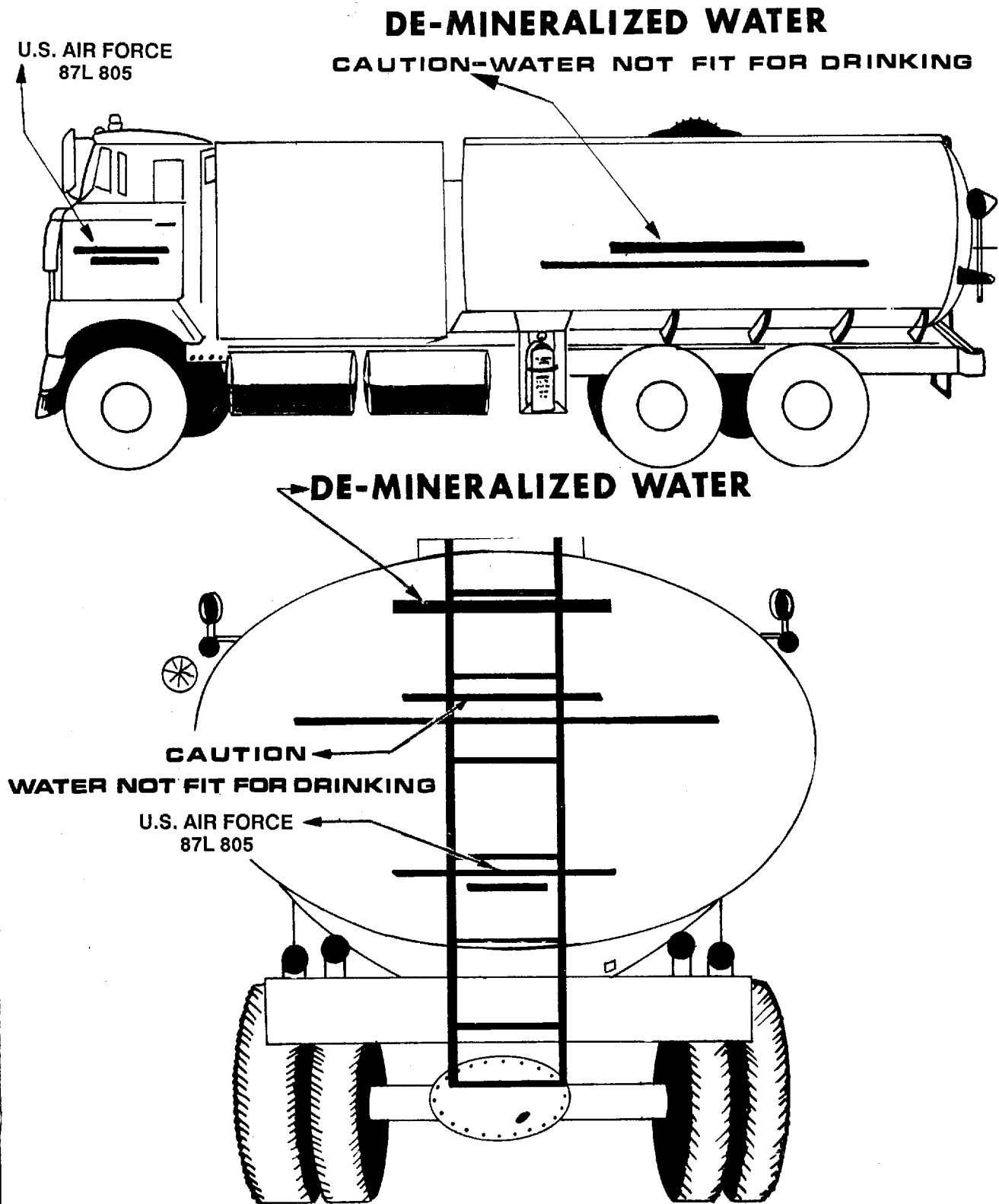


Figure 4-24. Demineralized Water Truck

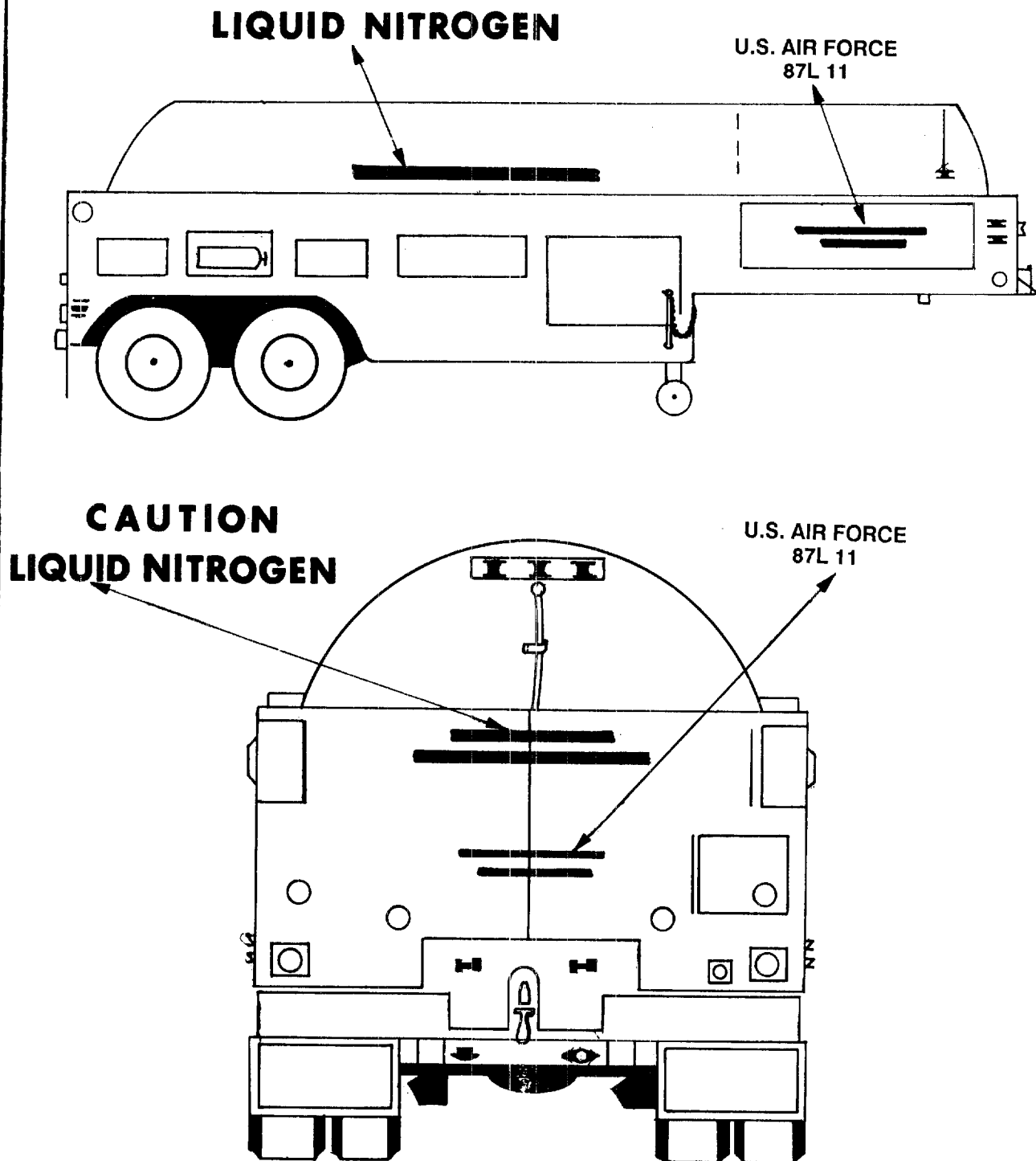


Figure 4-25. Liquid Nitrogen Unit

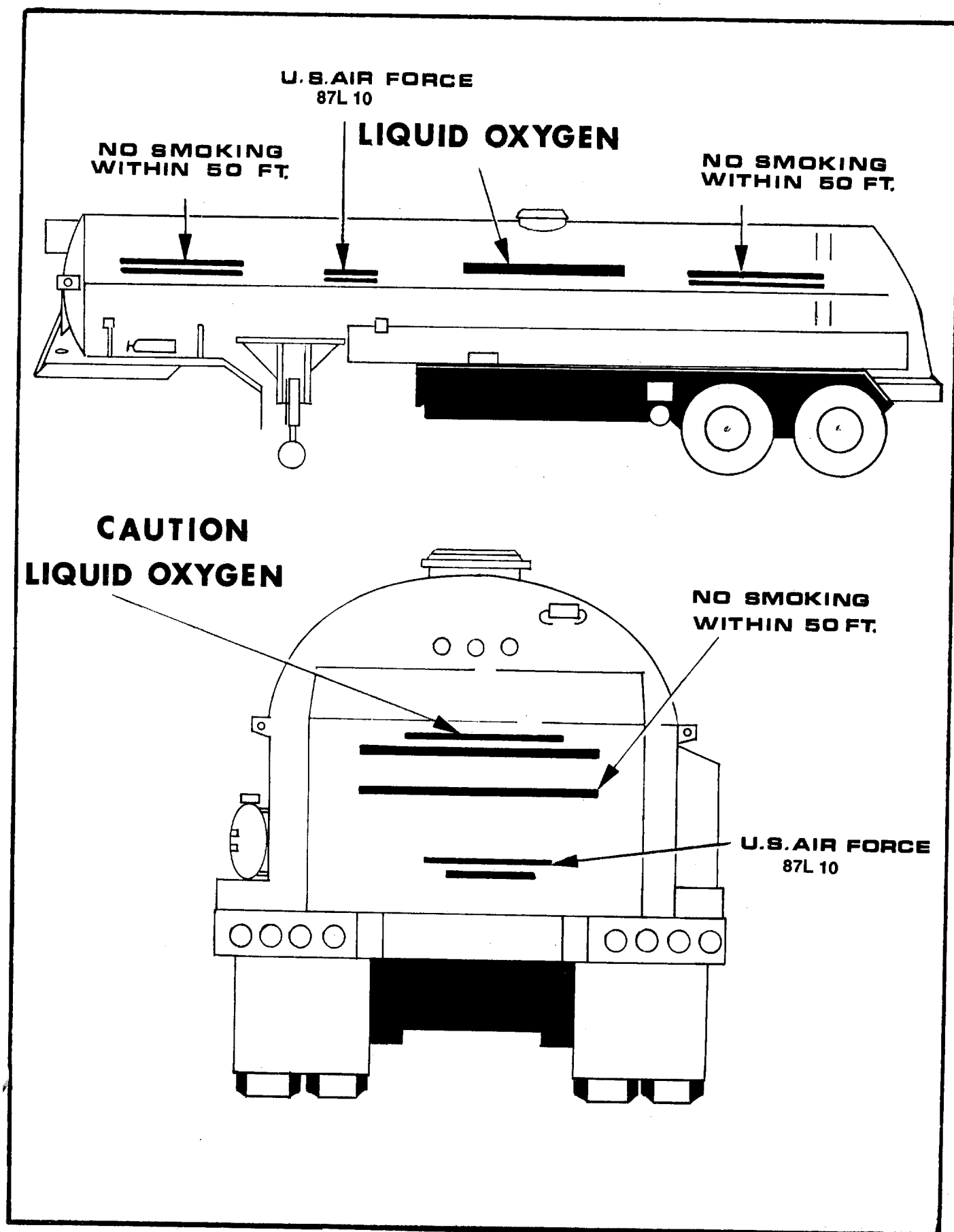


Figure 4-26. Liquid Oxygen Unit

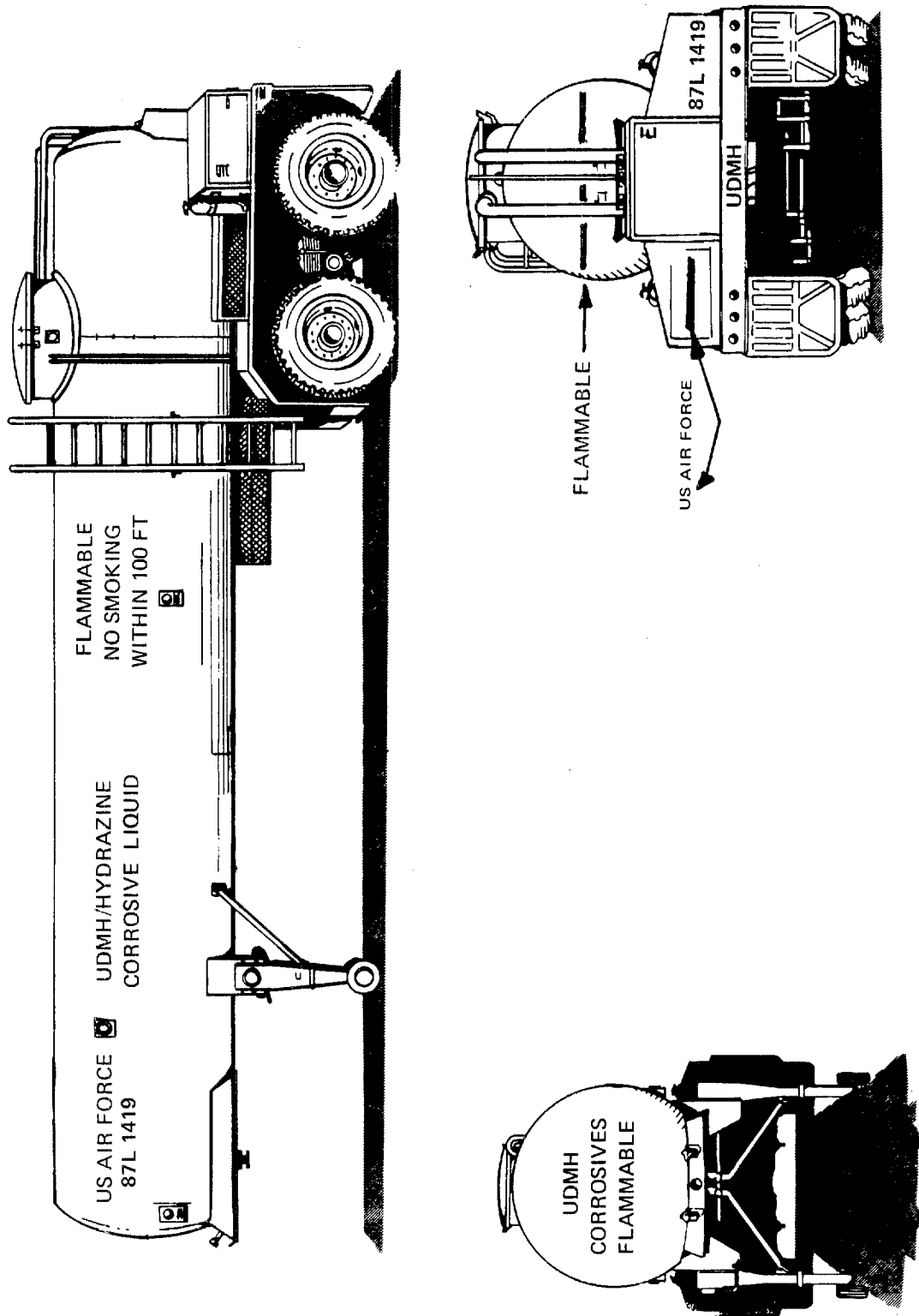
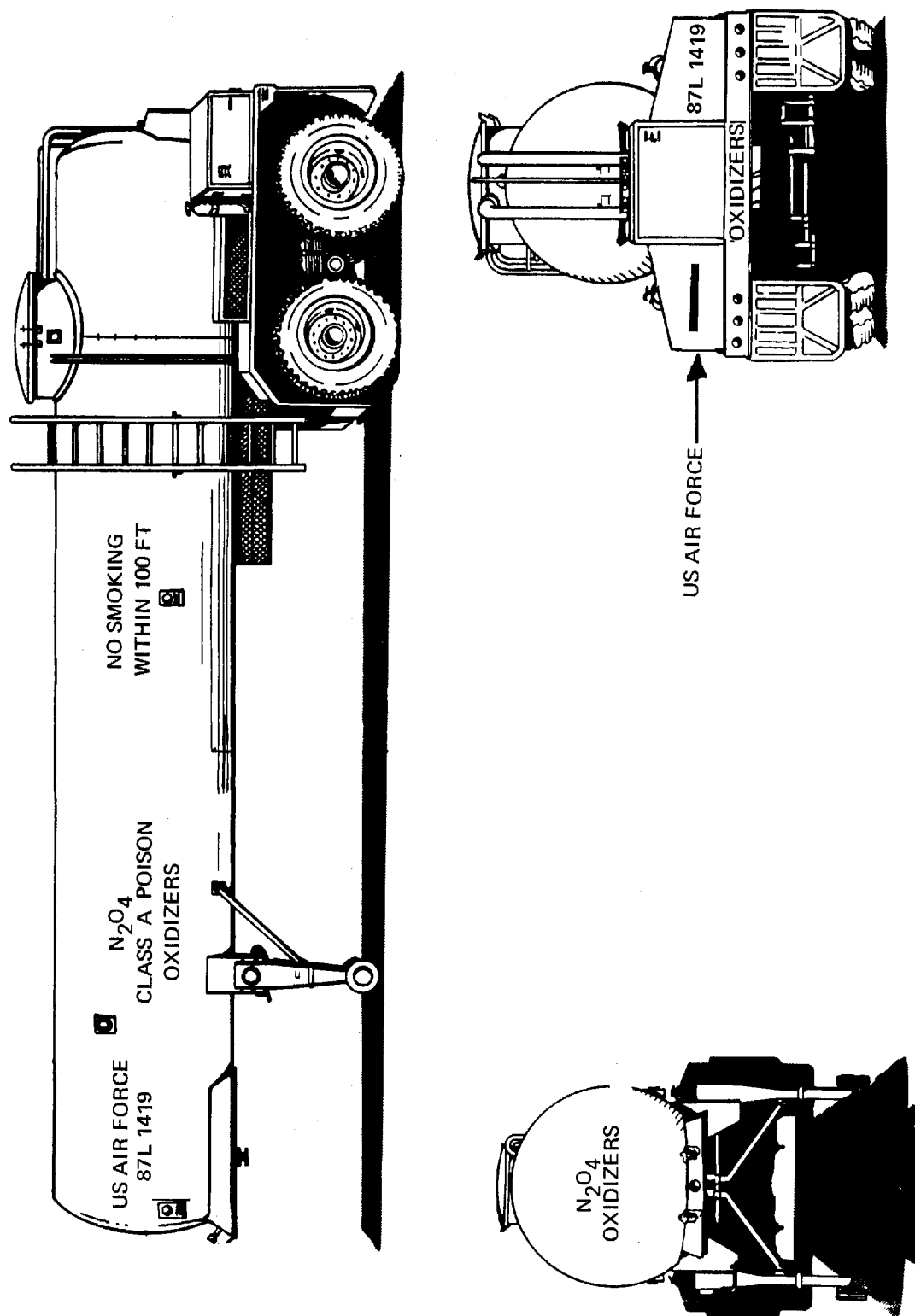


Figure 4-27. UDMH Hydrazine Semi-Trailer

Figure 4-28. N₂O₄ Semi-Trailer

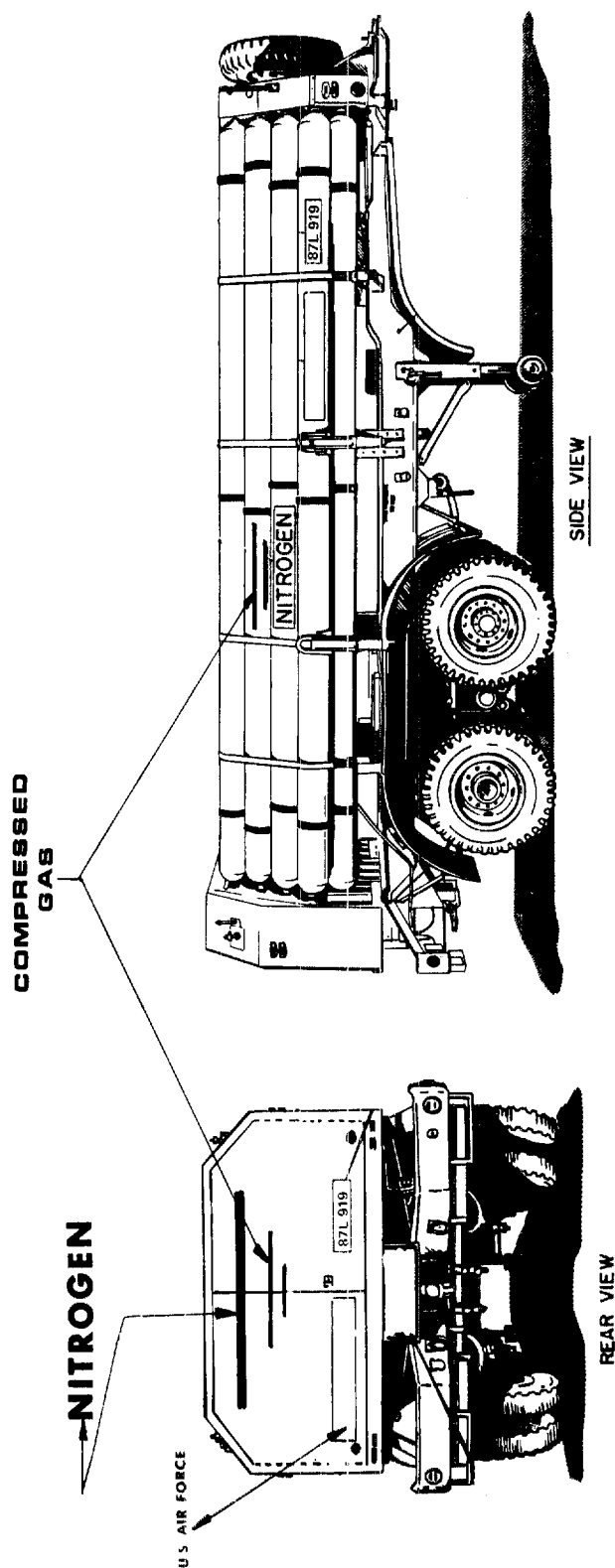


Figure 4-29. Nitrogen Semi-Trailer



Figure 4-28. Security Police Vehicles (Sheet 1 of 2)

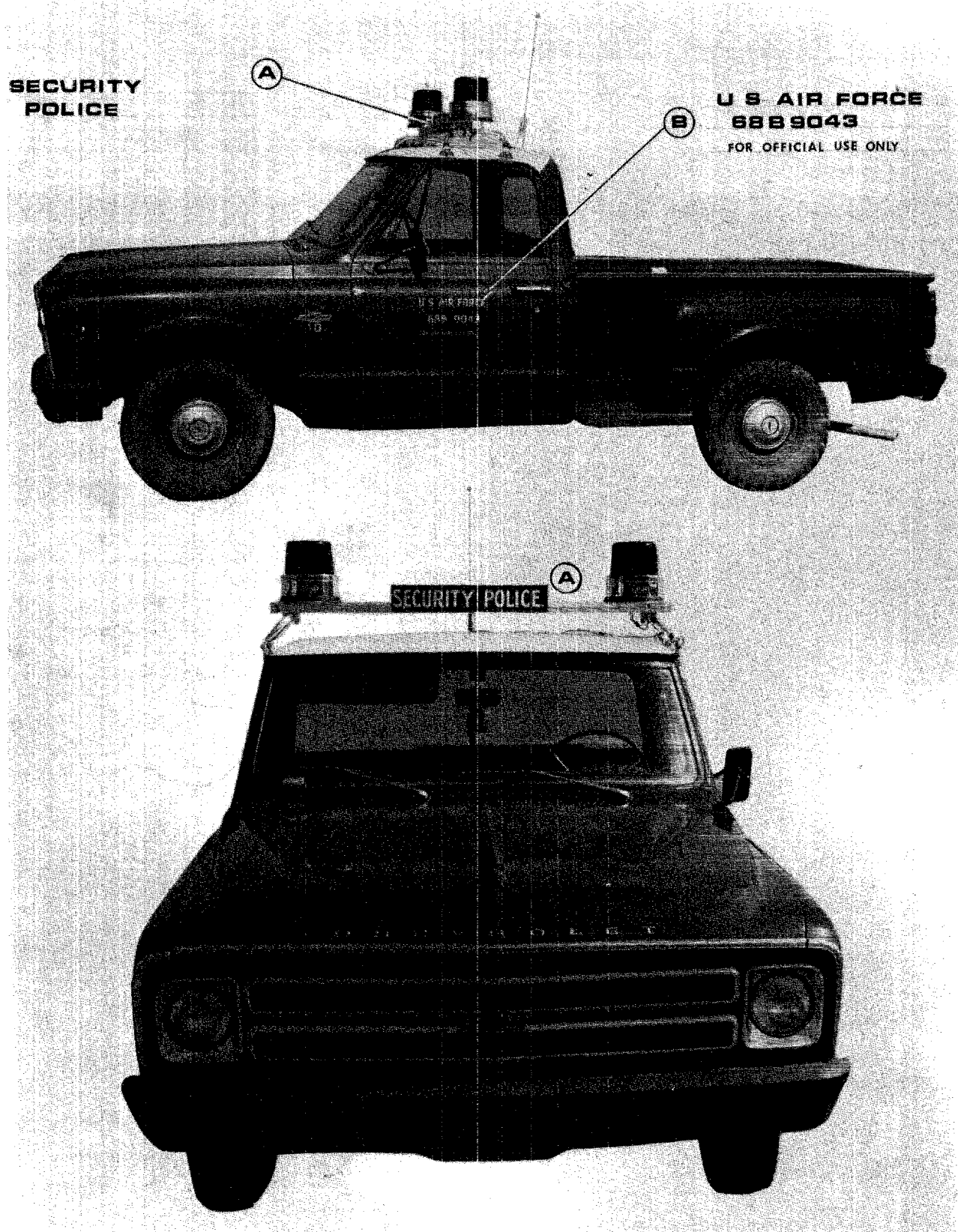


Figure 4-28. Security Police Vehicles (Sheet 2 of 2)

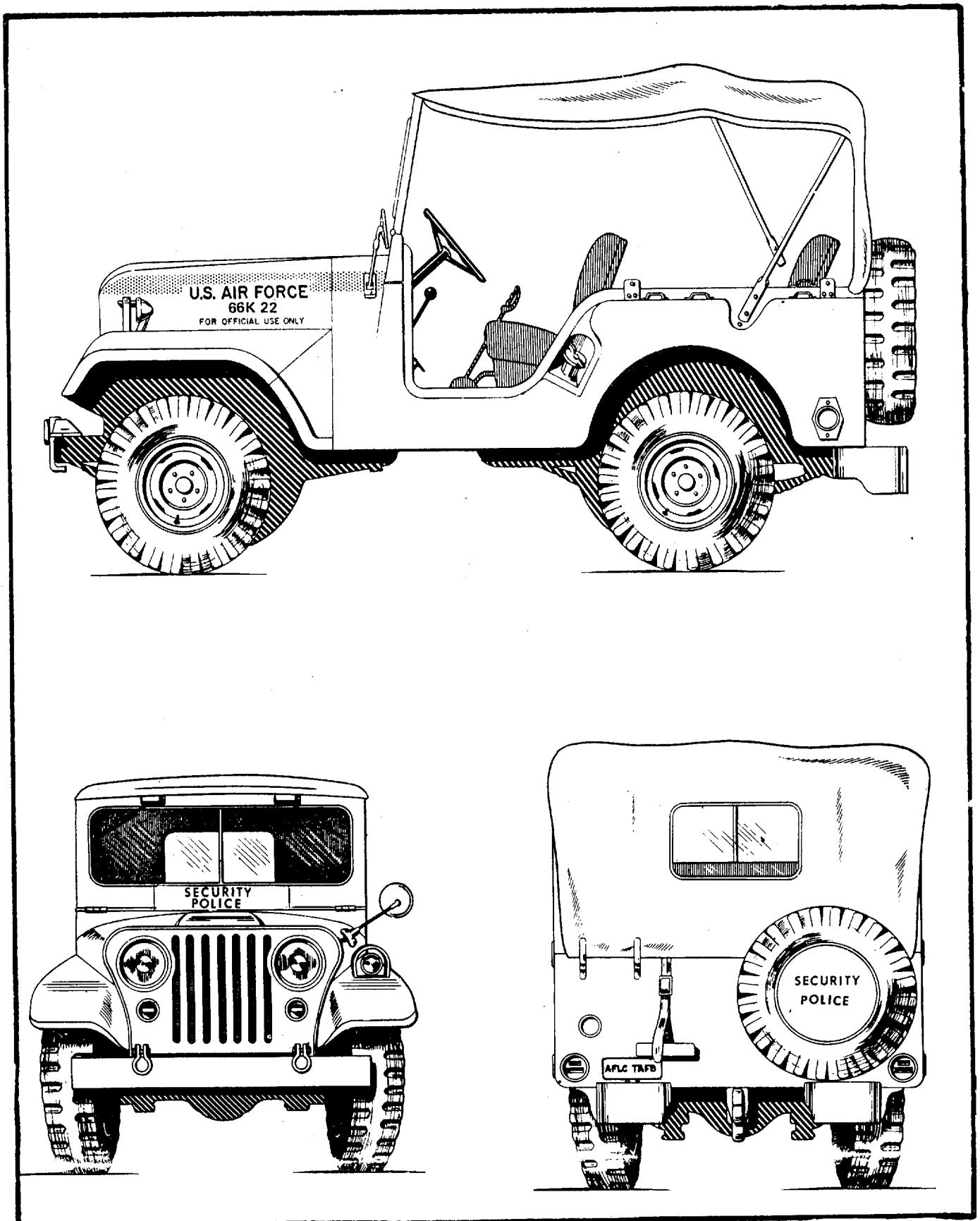
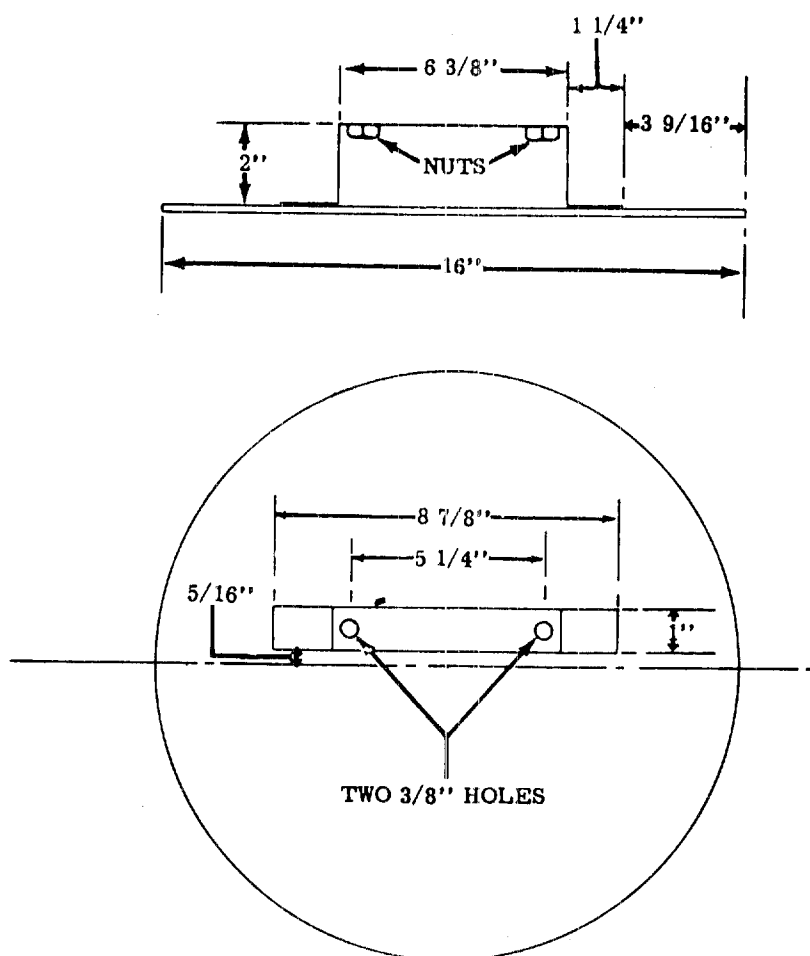


Figure 4-31. Security Police Jeep



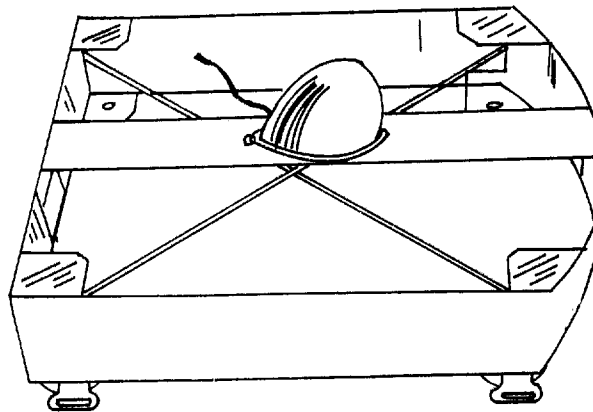
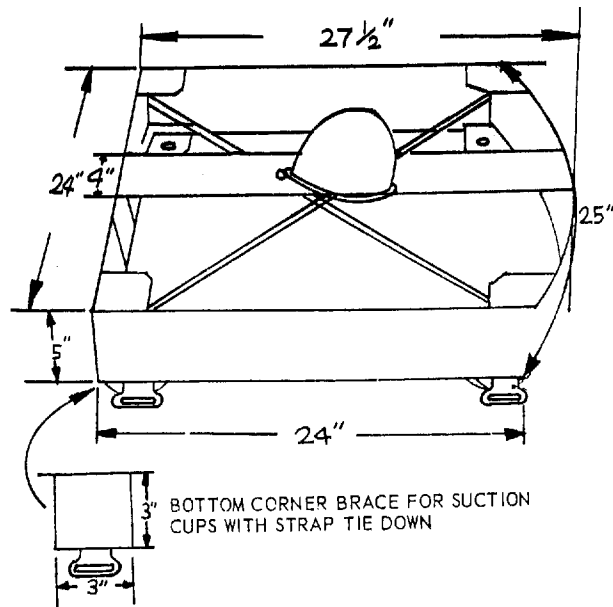
Recommended list of materials

- 1 Disc 16" Diameter (Minimum thickness 21 gage — 0.032 in.)
- 1 Steel bracket 1/16" x 1" — Developed length 13"
- 2 Wing bolts 3/8" x 7/8" NF (Corrosion resisting)
- 2 Nuts 3/8" NF (Corrosion resisting)

NOTE:

Bracket should be screwed, riveted or welded to disc
Nuts should be soldered or welded to bracket

Figure 4-32. Diagram of Security Police Sign Shown in figure 4-31 (Rear View)



Frame	0.050" sheet metal
Angle Brace's	$5/16"$ rod, cold roll
Light Brace's	0.050 sheet metal
Corner Brace's	0.050 sheet metal
Strap Tie Down's	$1/8$ metal
(4) Clamps (FSN 4730-808-1362)	
(4) Suction cups regular car carriage type..	$3"$ di.
(8) Hooks strap car carriage type rubber coated $2" \times 1"$	
$5/16"$ rod braces cross approximately $2\frac{1}{2}"$ below the light support	
(4) Straps - 0.050 sheet metal	Approximately $14"$ long

Figure 4-33. Removable Marking Rack

WARNING: SEARCH REFLECTOR SCAN AREA.
INSURE THAT SAFETY SWITCH S-13405 IS IN
SAFE POSITION BEFORE ENTERING THIS AREA.

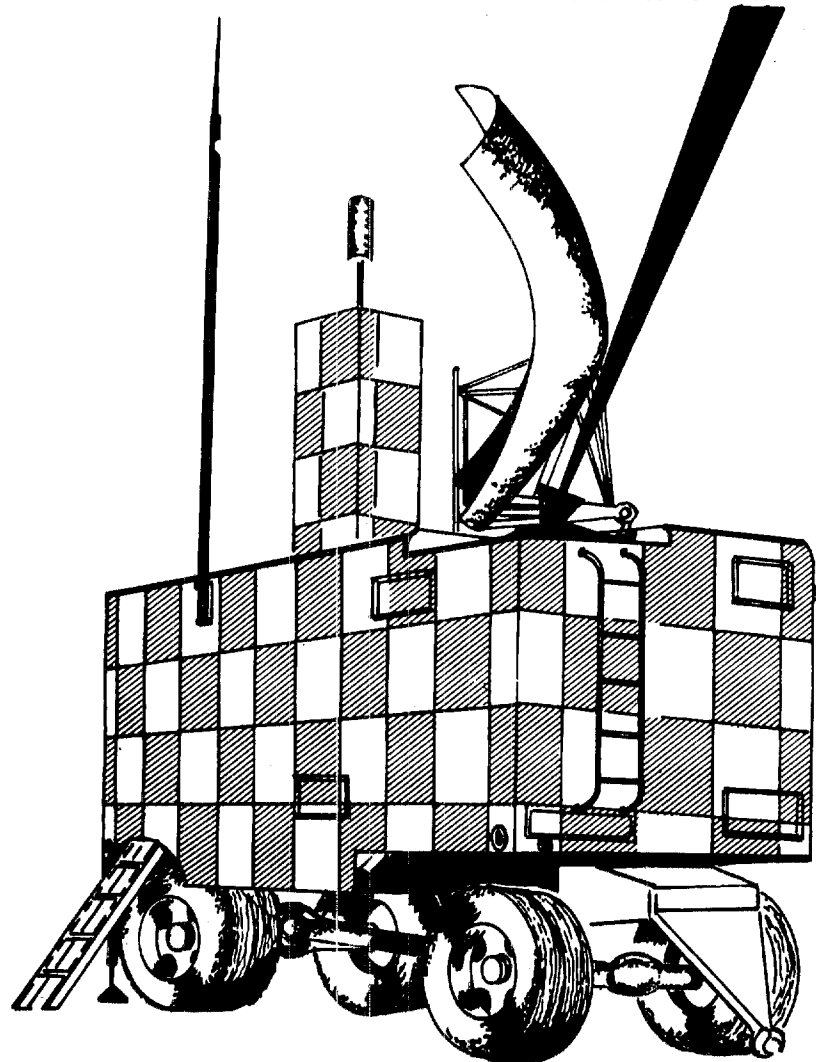


Figure 4-34. Communications/Ground Control Approach Vehicles (Sheet 1 of 2)

WARNING: SEARCH REFLECTOR SCAN AREA.
INSURE THAT SAFETY SWITCH S-13405 IS IN
SAFE POSITION BEFORE ENTERING THIS AREA.

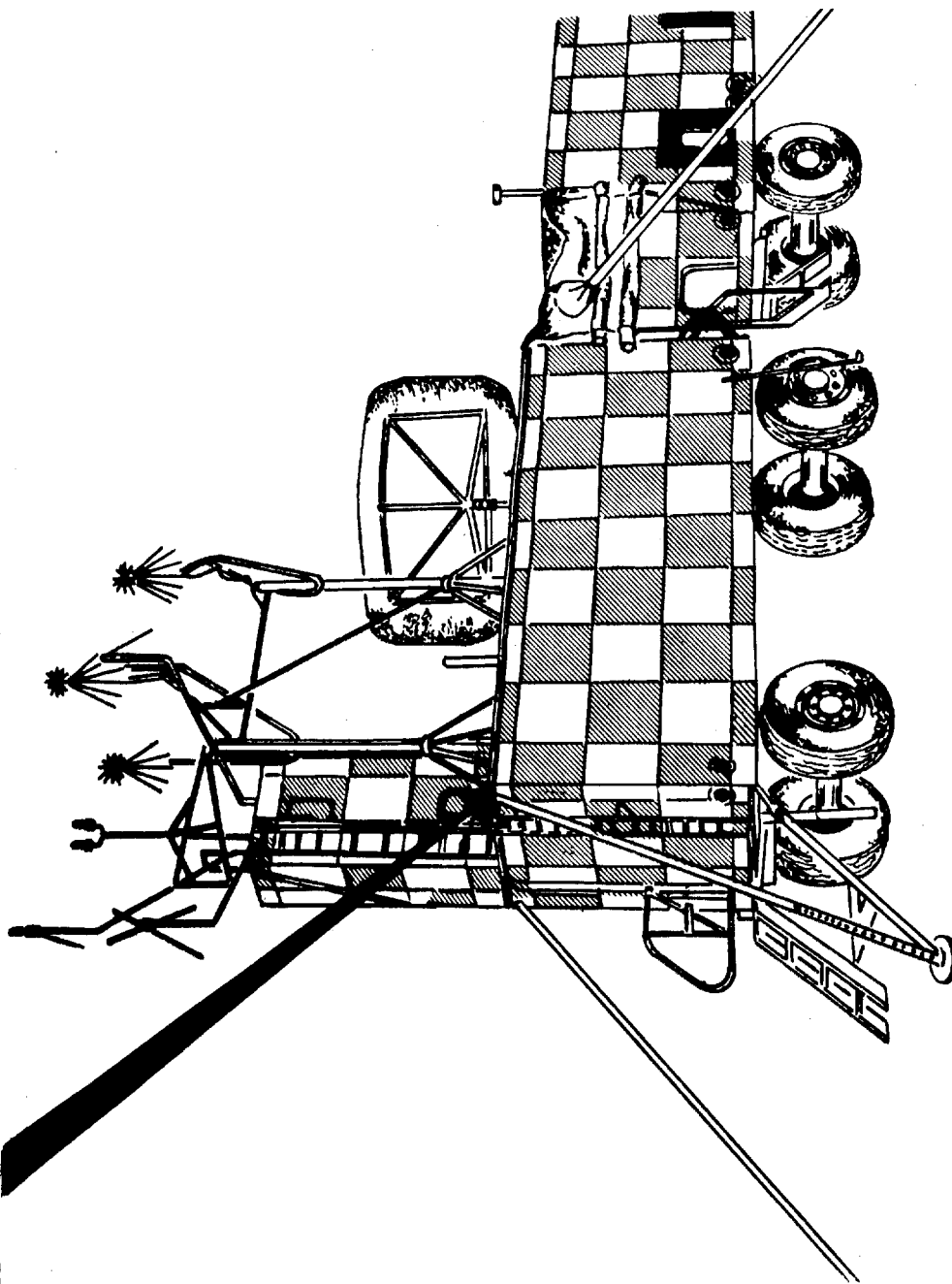


Figure 4-34. Communications/Ground Control Approach Vehicles (Sheet 2 of 2)

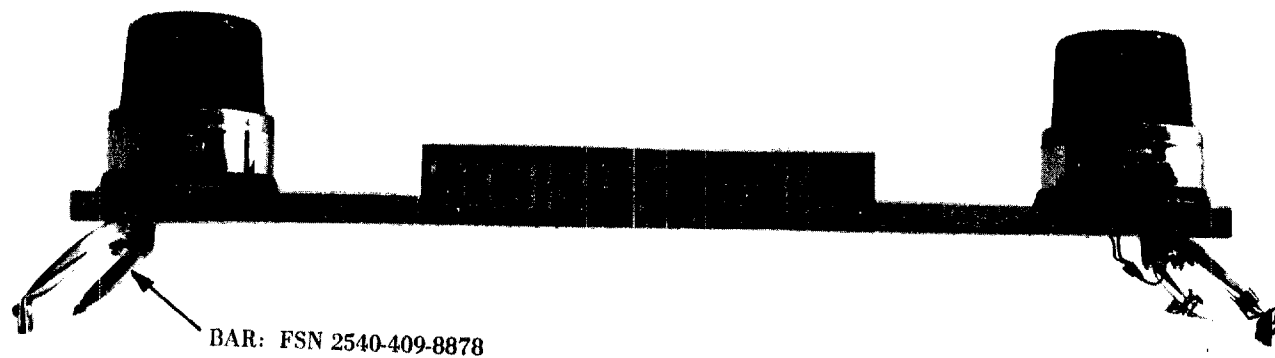


Figure 4-35. Removable Security Police Sign

CAUTION

Before Towing: Latch pintle, close trip lock, install lock pin.

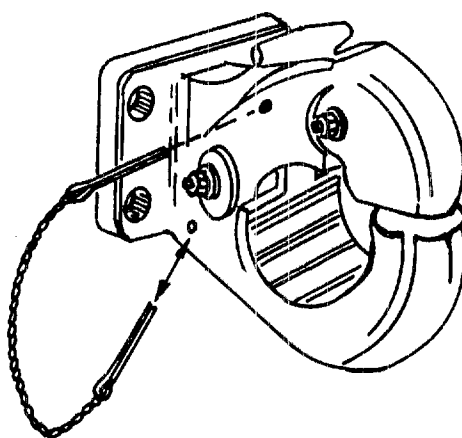


Figure 4-36. Manual Release Pintle Hooks

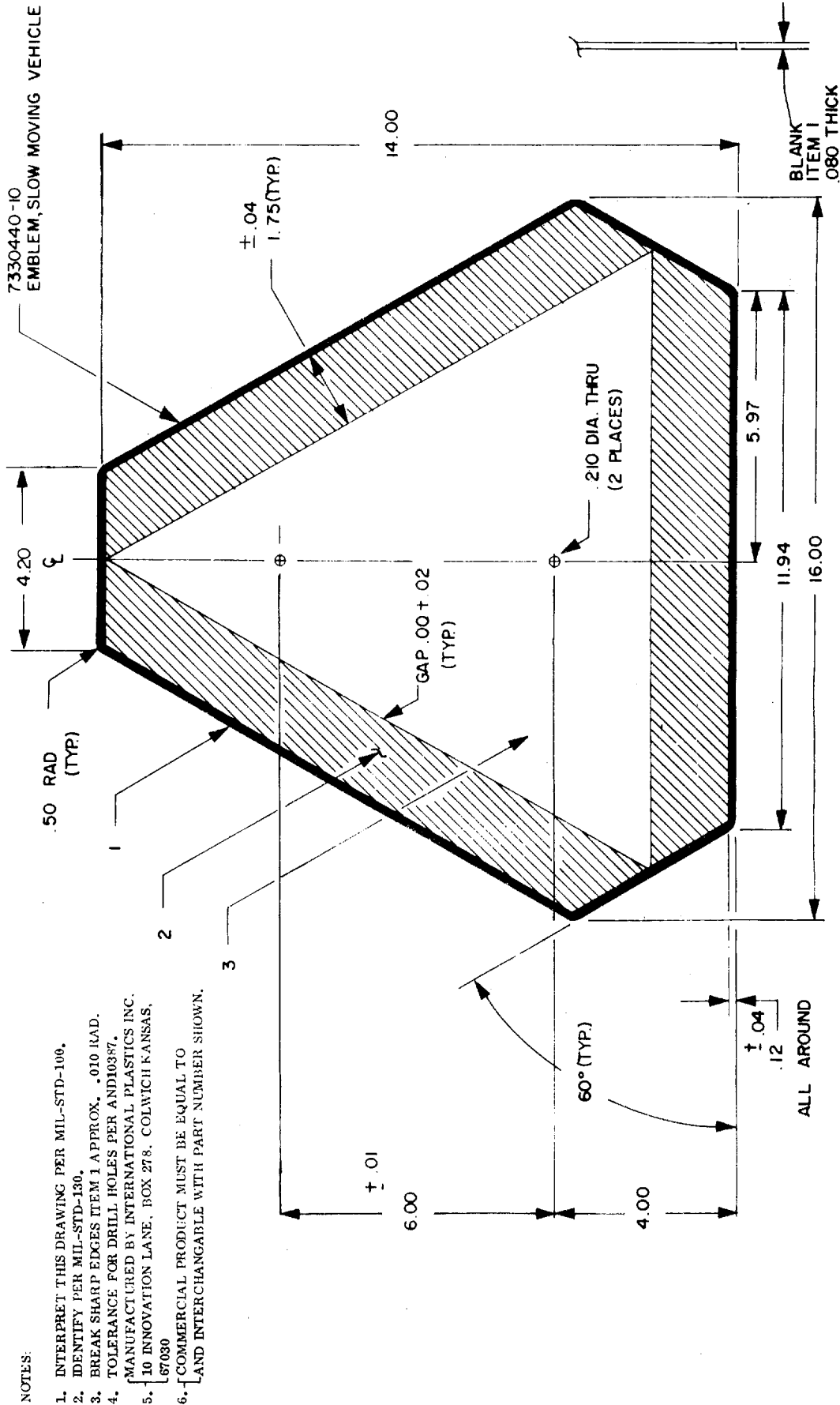


Figure 4-37. Slow Moving Vehicle Emblem

QTY REQD.		LIST OF MATERIALS							FINI
-10		NOMENCLATURE	CODE IDENT	IDENTIFYING NO.	SPECIFICATION	MATERIAL	UNIT WT.	ZONE	NO
1		EMBLEM BLANK	98752	7330440-10 7330440-01		ACCURENE 100 A.B.S. BRAND OF ACRYLONITRILE, BUTADIENE, STYRENE			1
A/R		REFLECTIVE SHEET	98752	7330440-03		L-S-300A, TYPE 1, CLASS 1, REFLECTIVITY 1 - DARK RED			2
A/R		FLUORESCENT SHEET	98752	7330440-05		MIL-F-22735, YELLOW-ORANGE # 633			3

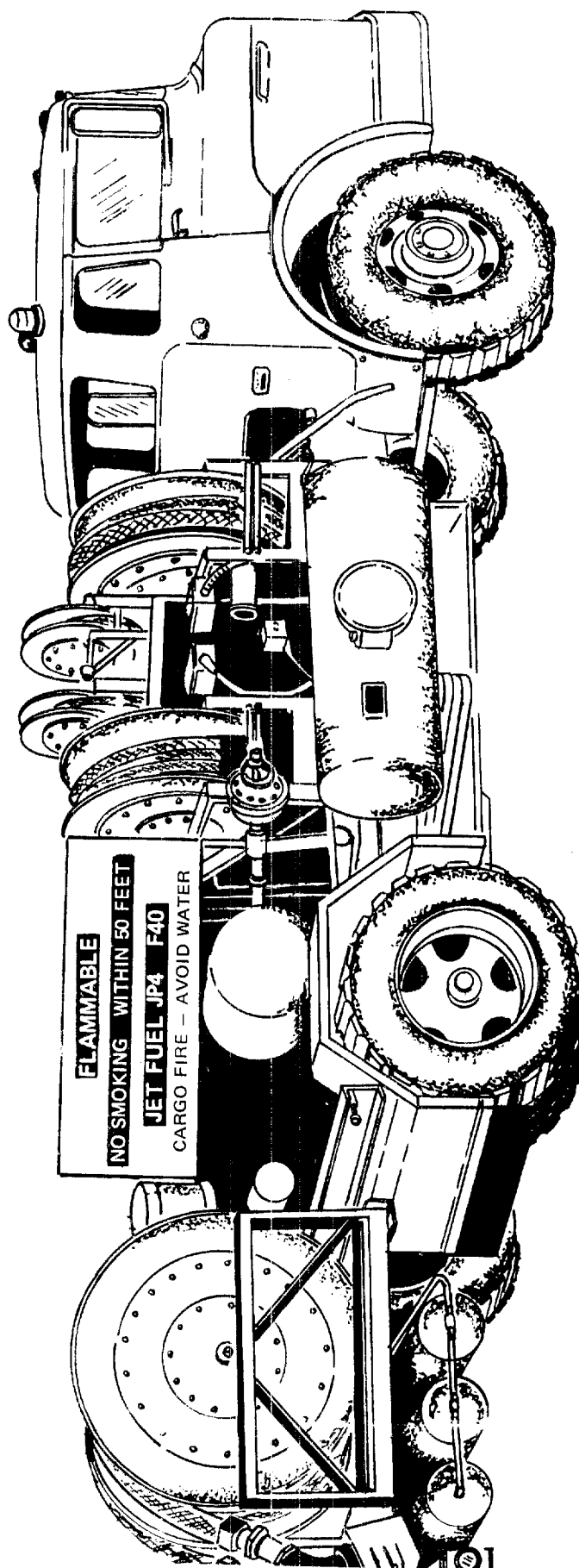


Figure 4-38. Hydrant Fueling Truck (Sheet 1 of 2)

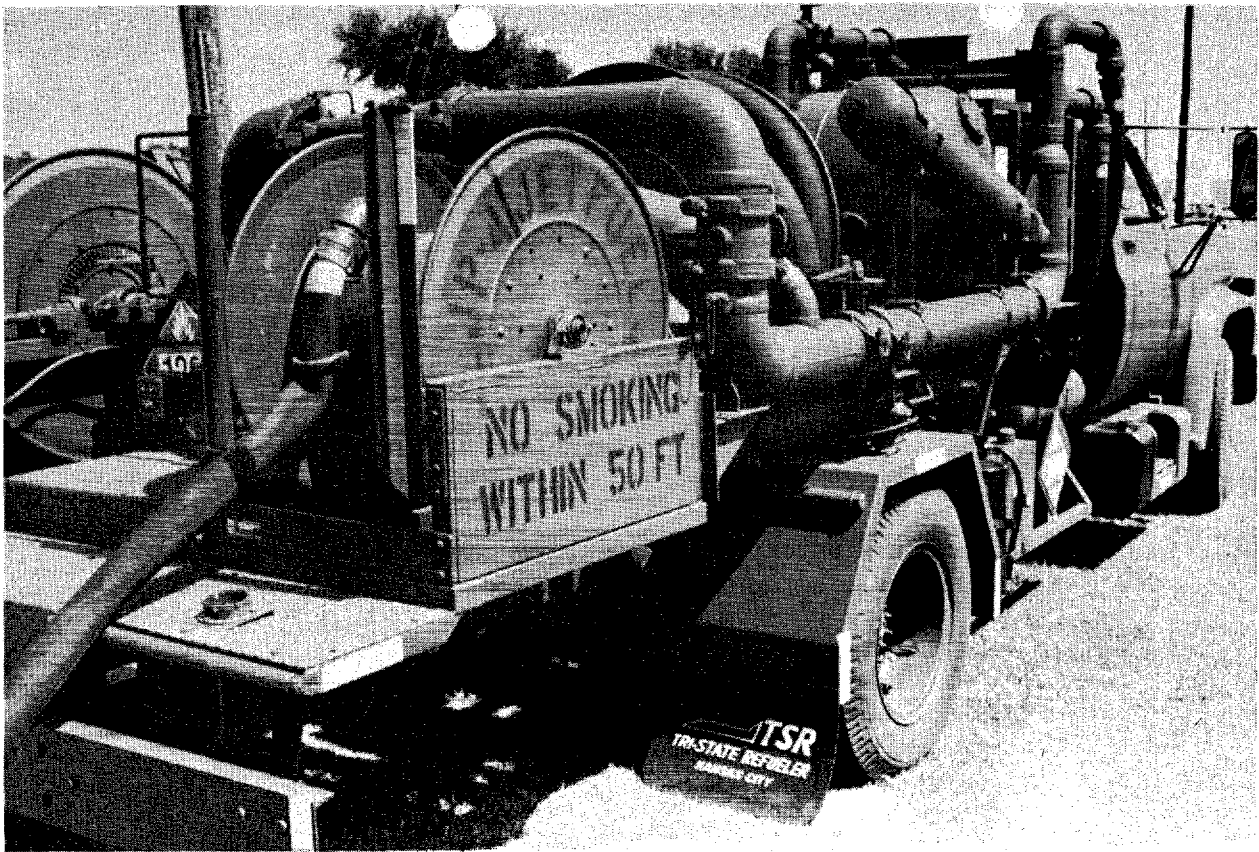


Figure 4-38. Hydrant Fueling Truck (Sheet 2 of 2)

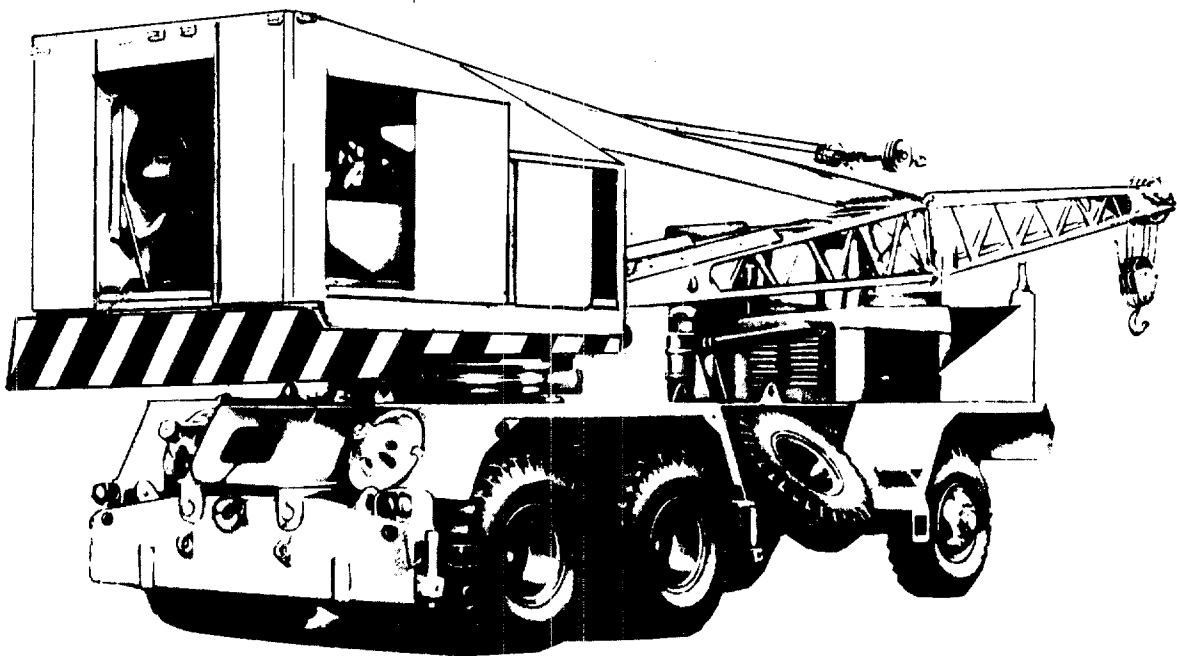


Figure 4-39. Strike Hazard Marking

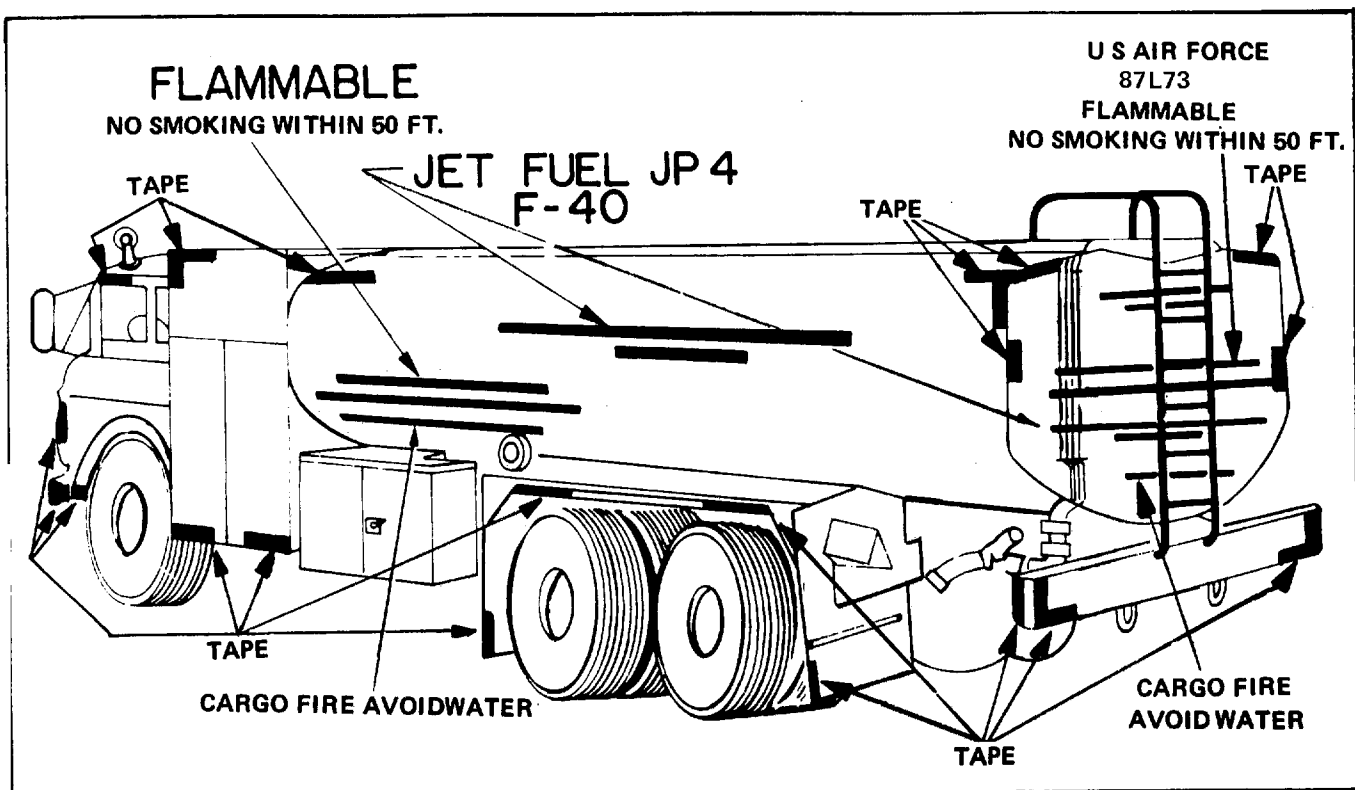


Figure 4-40. Highlighting Marking, Refueling Vehicles

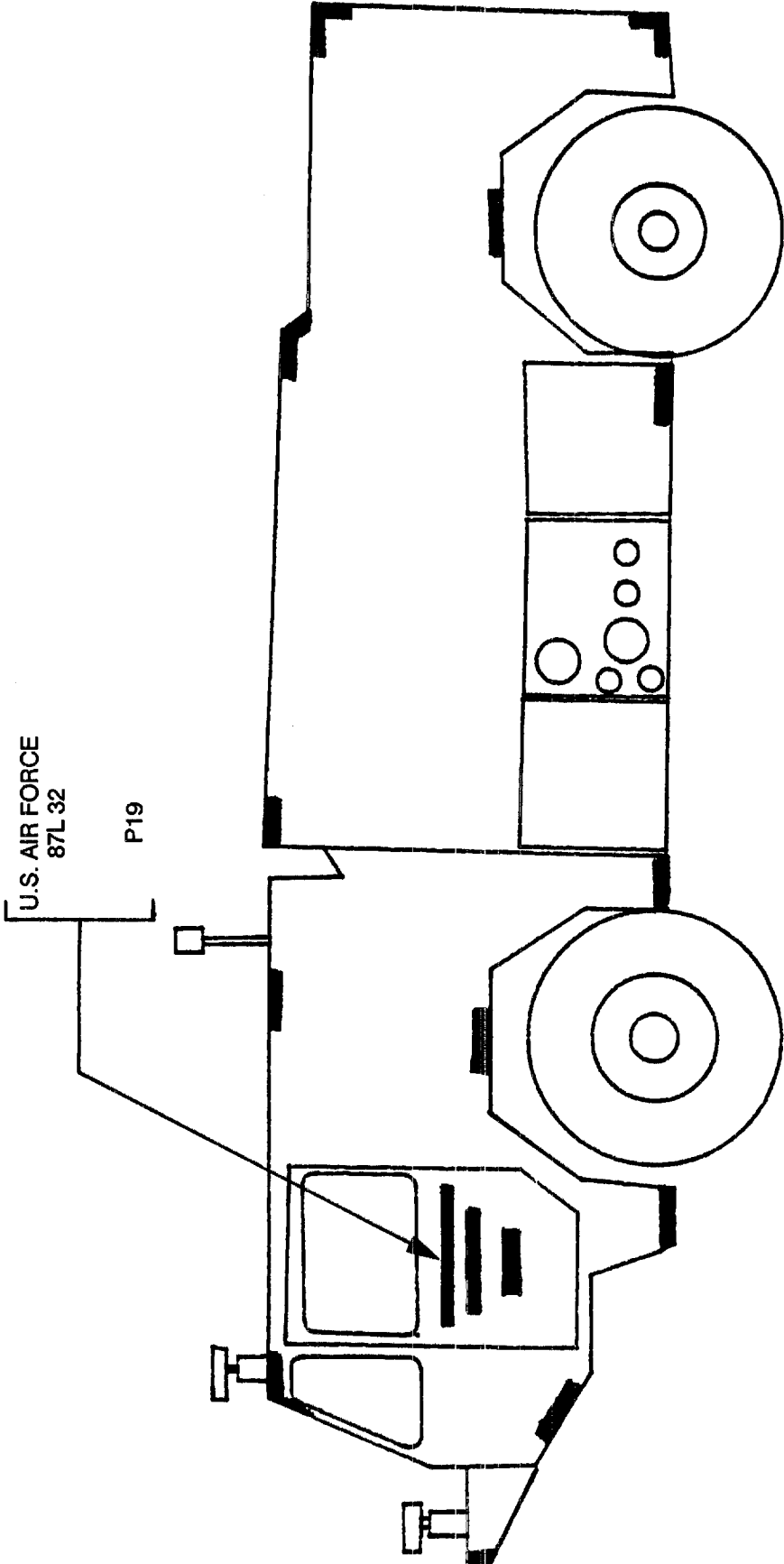


Figure 4-41. Highlighting Marking, Fire and Crash Vehicle

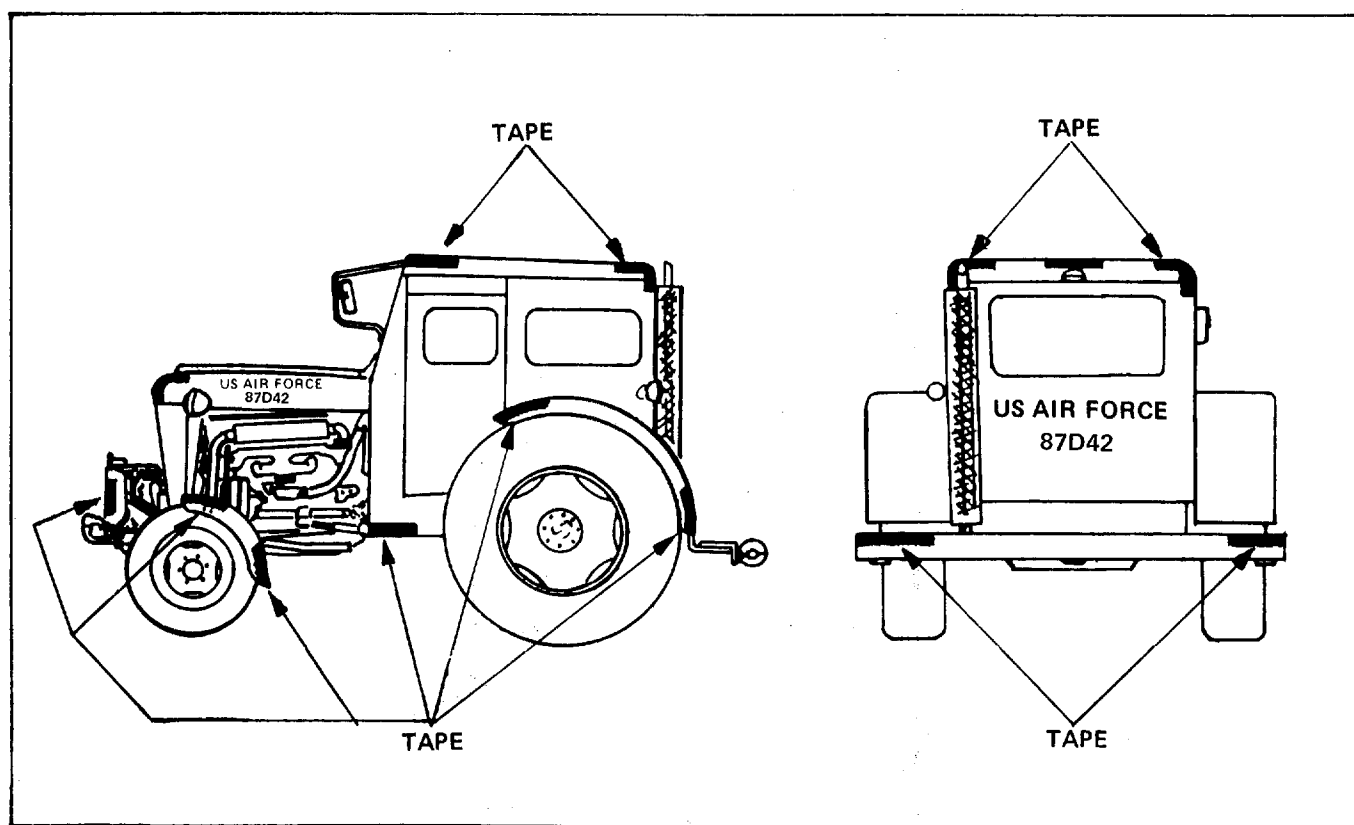


Figure 4-42. Highlighting Marking, AGE Towing Tractor

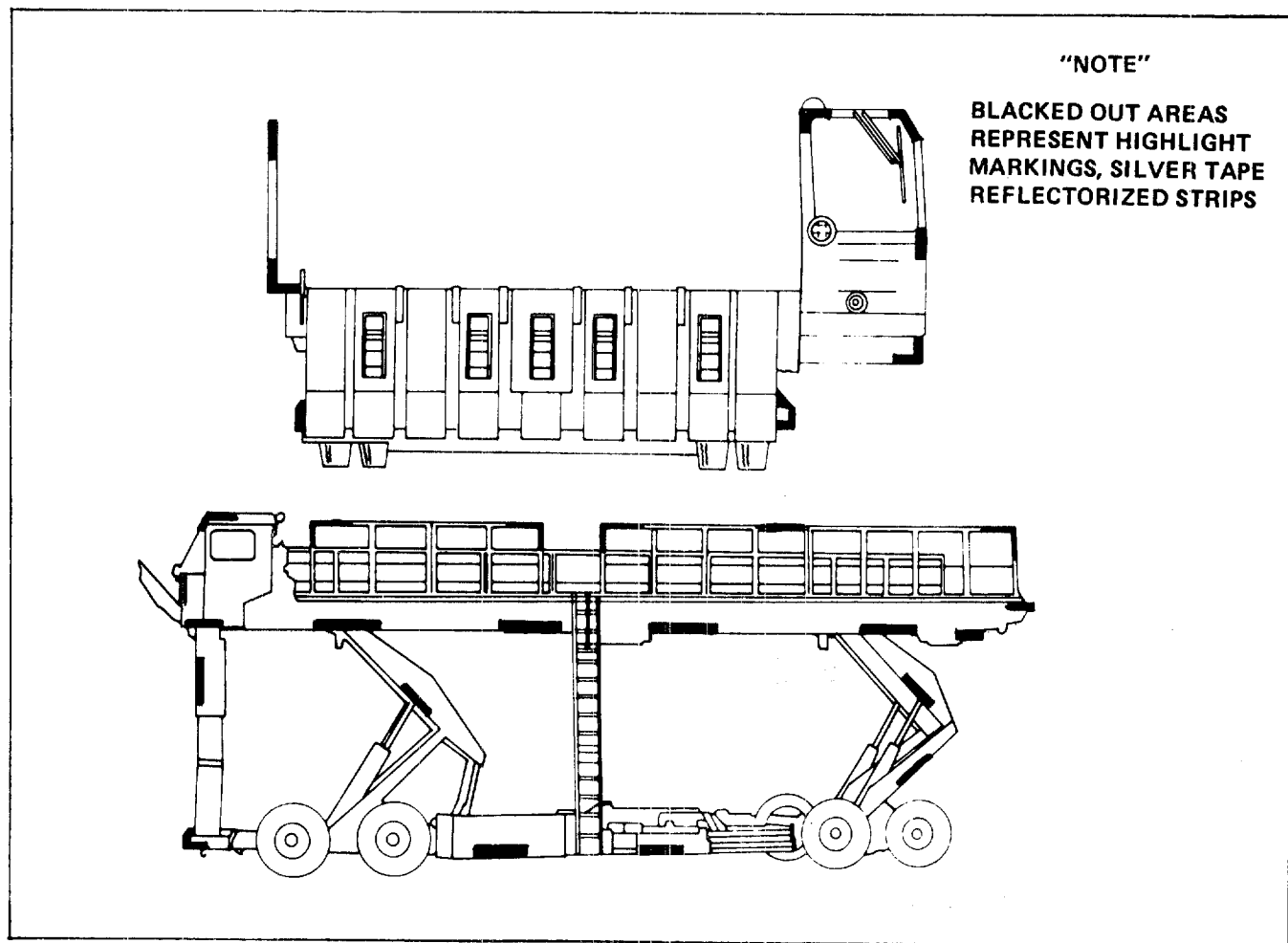


Figure 4-43. Highlighting Marking, Aircraft Cargo Handling Truck

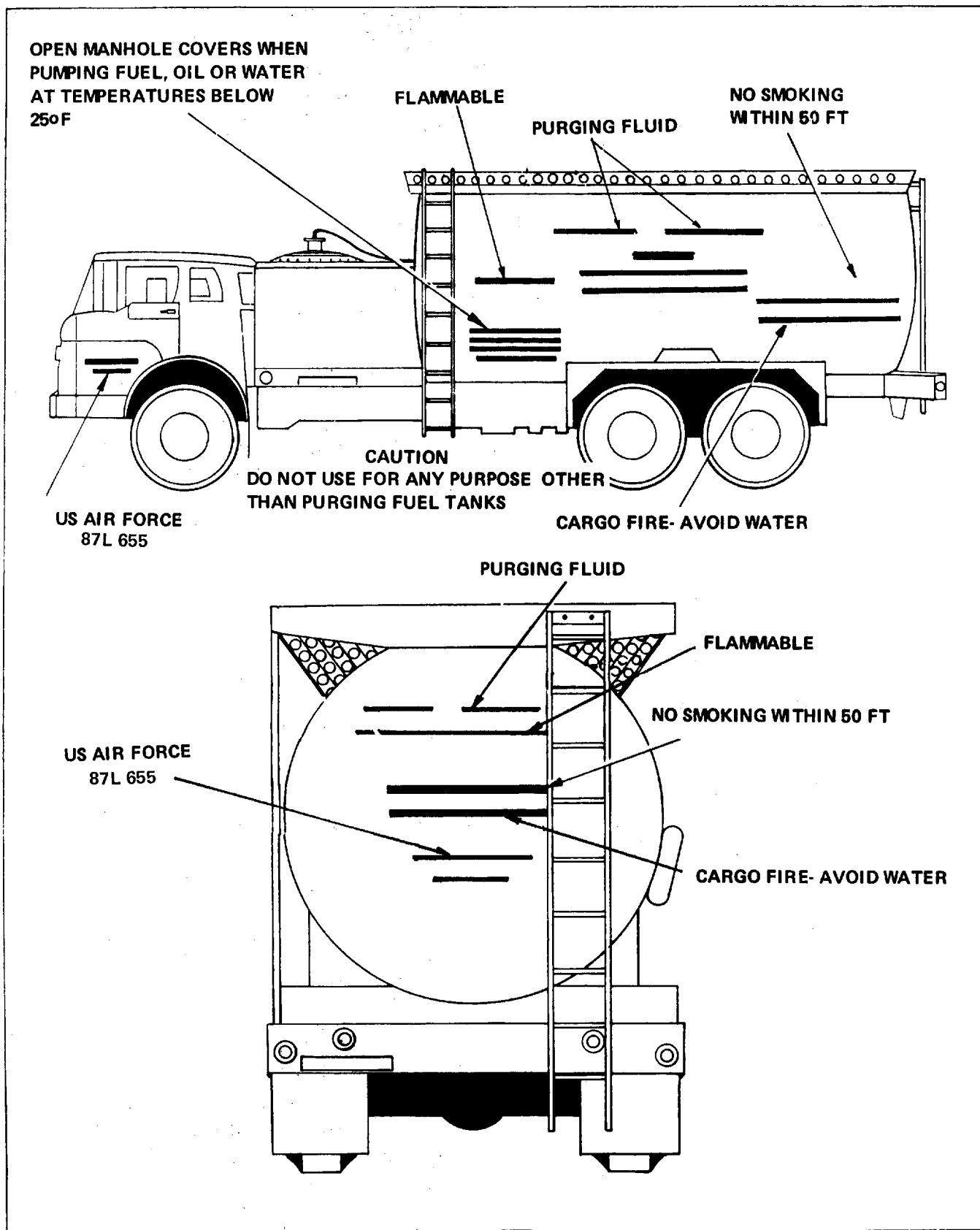


Figure 4-44. Purging Fluid Truck

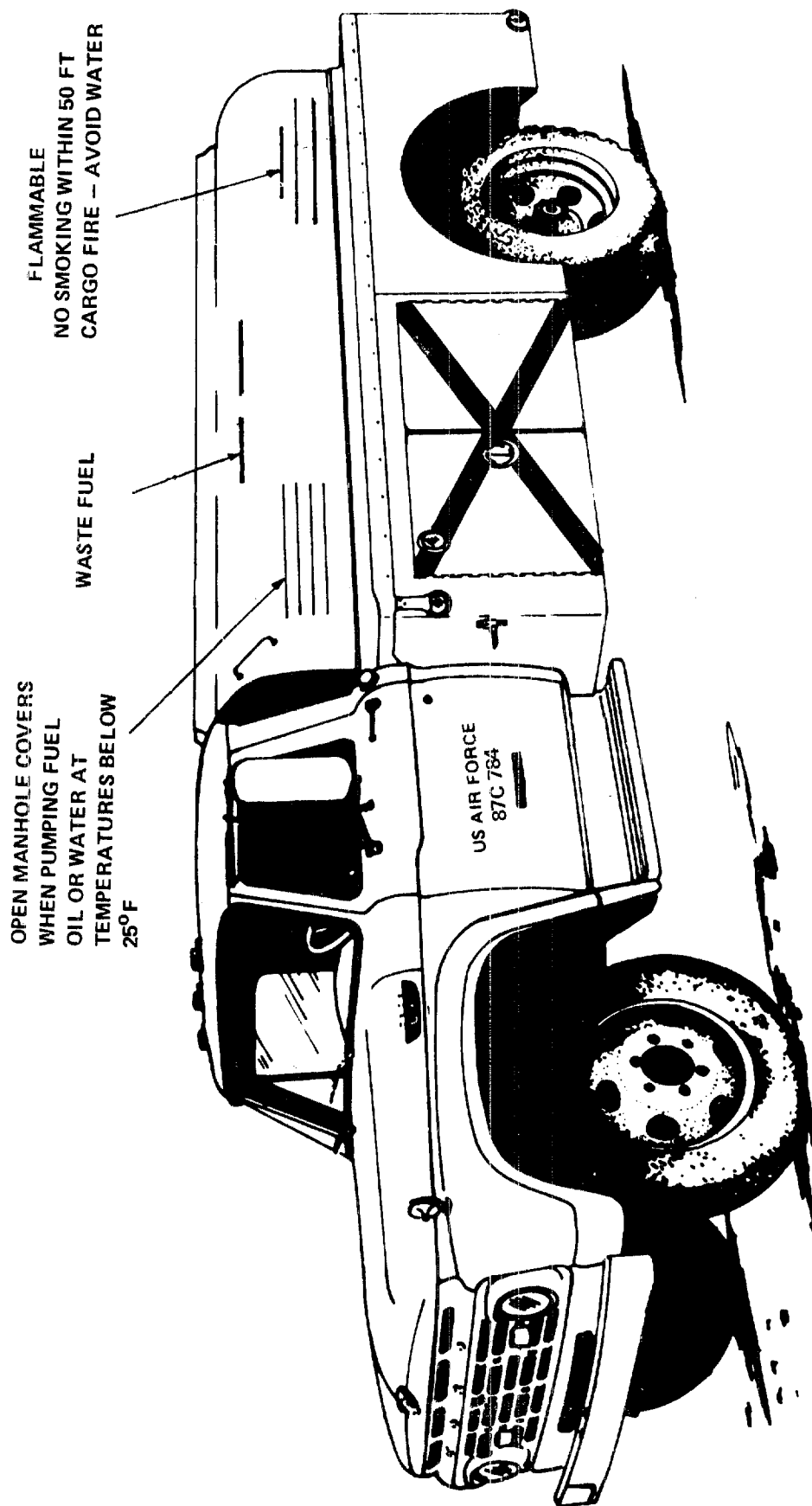


Figure 4-45. Water Fuel Vehicle (Side View)

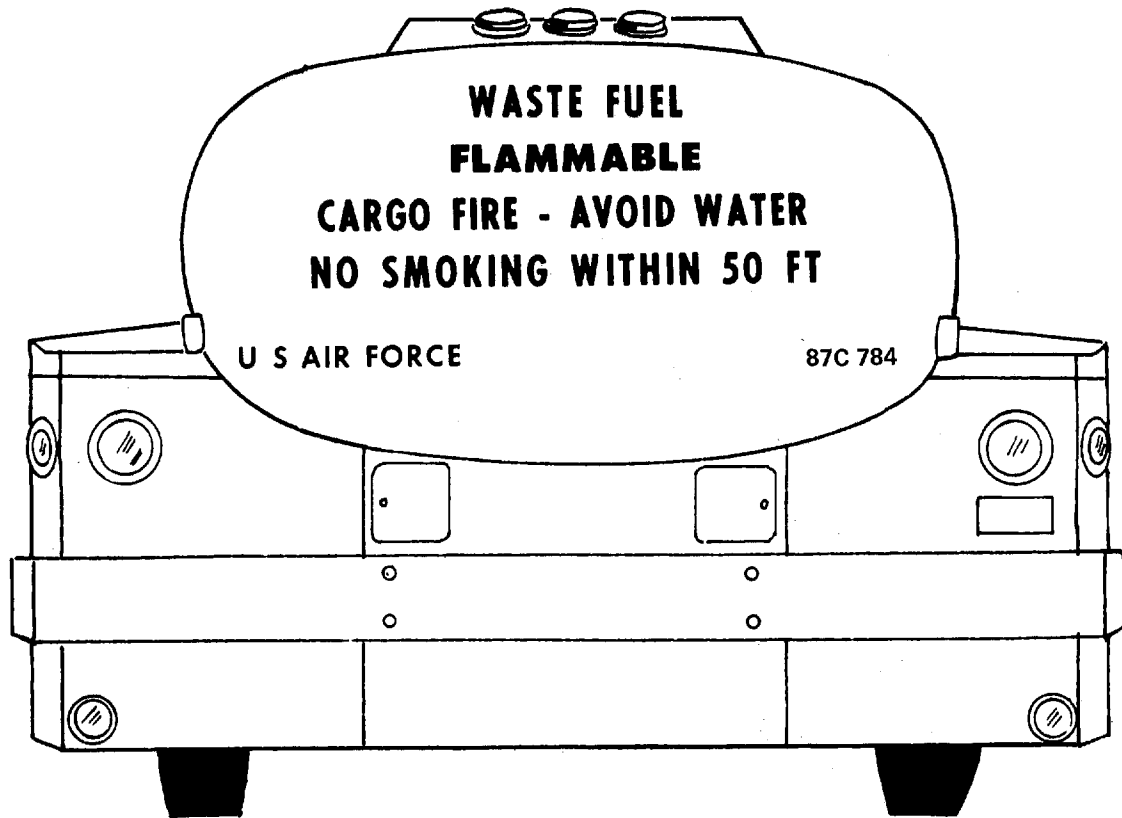


Figure 4-46. Waste Fuel Vehicle (Rear View)

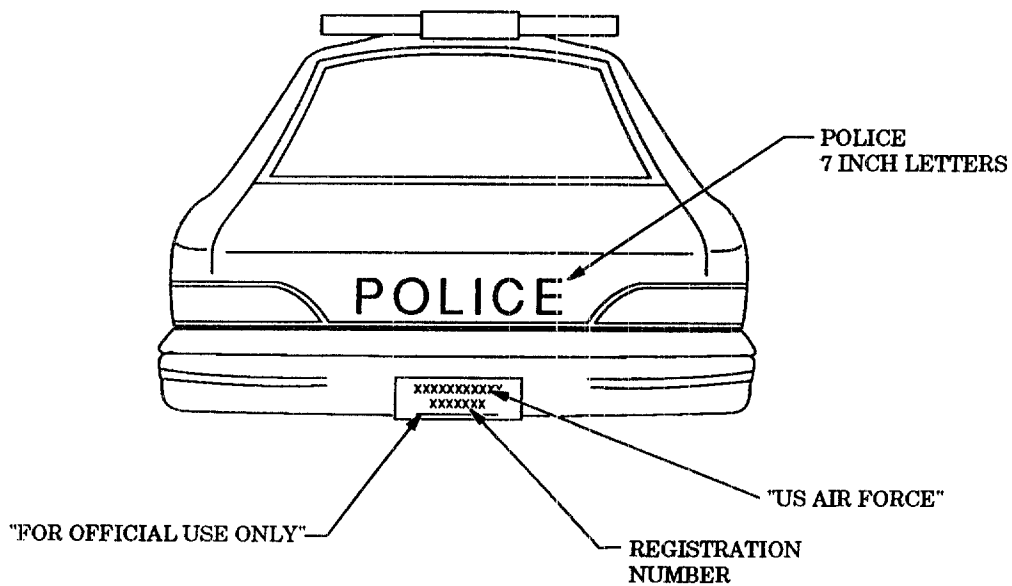
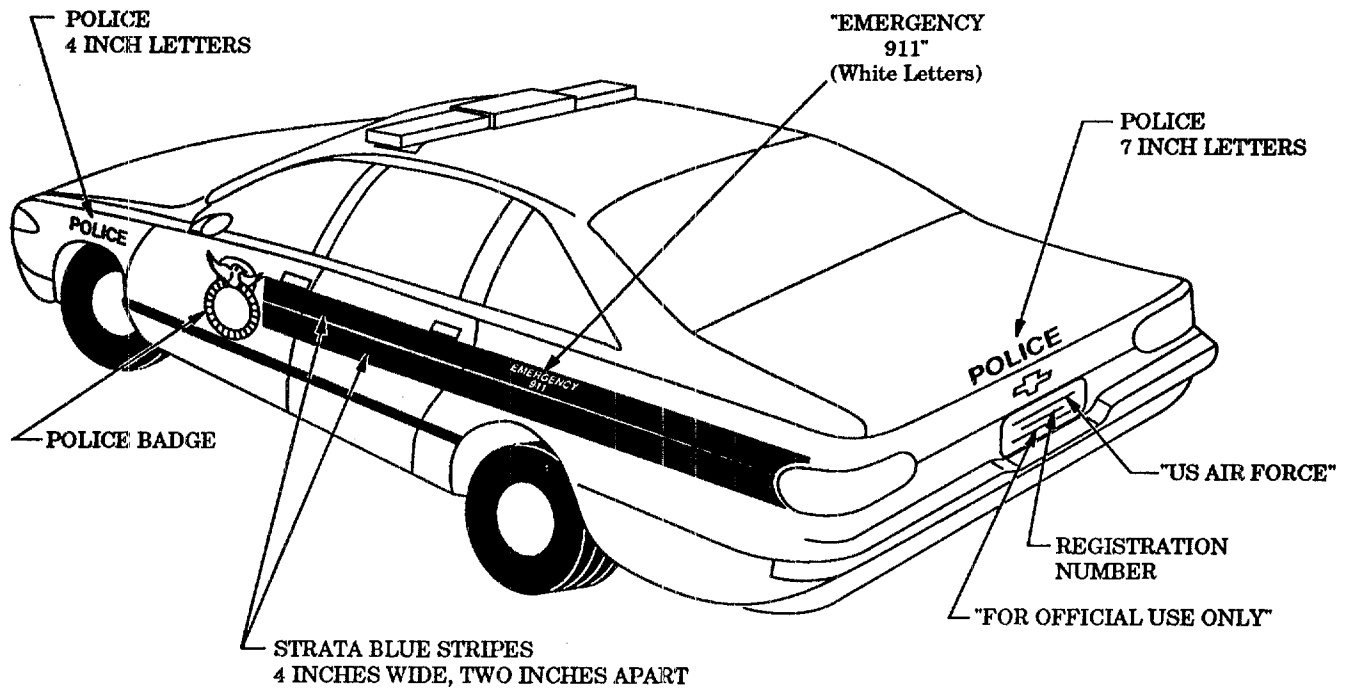


Figure 4-47. Law Enforcement Sedan

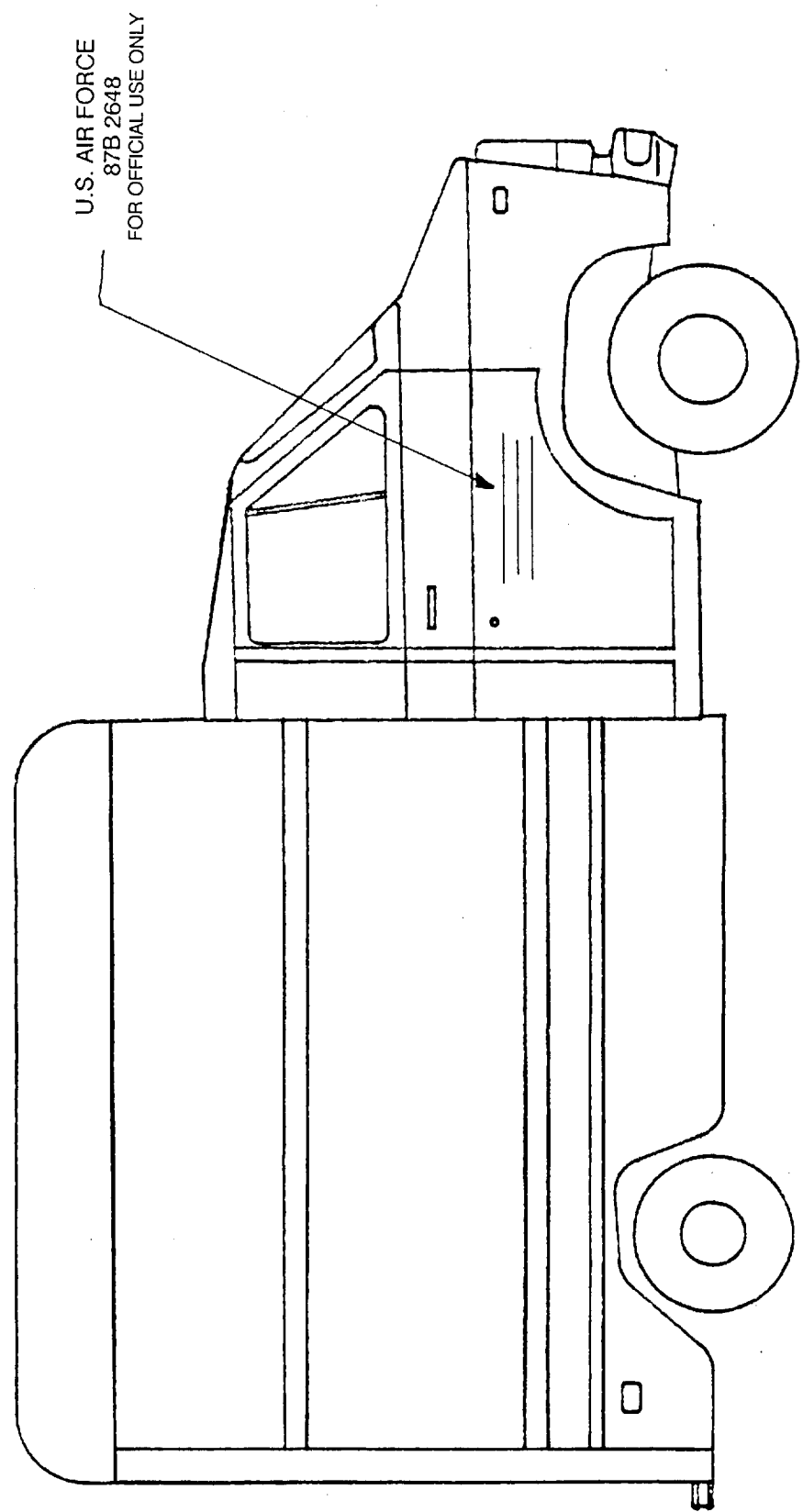


Figure 4-48. High Cube Van Markings

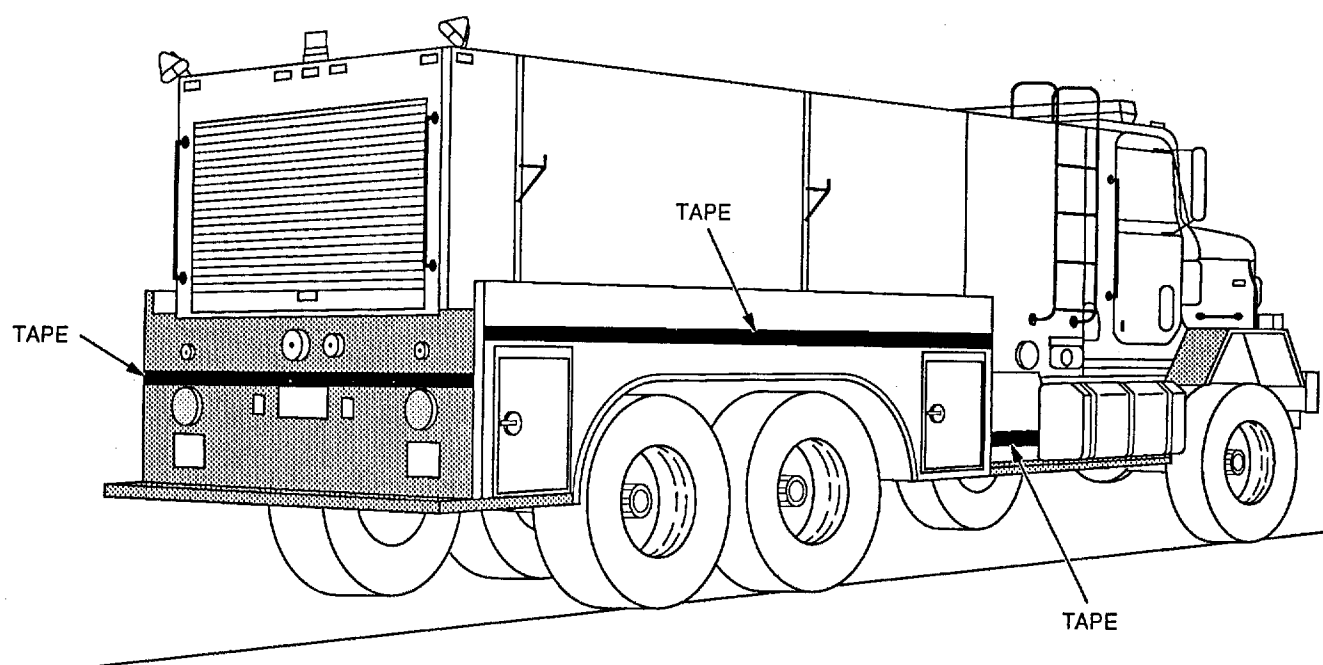


Figure 4-49. Highlighting (Rear View)

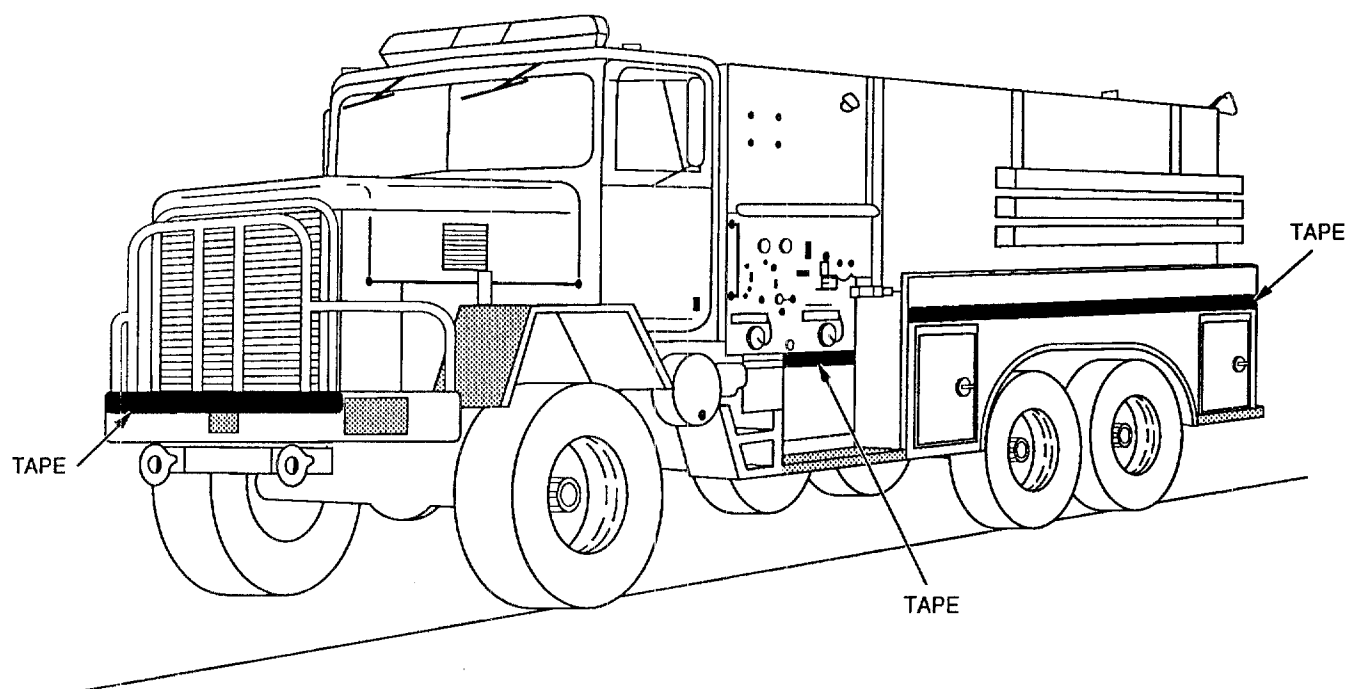


Figure 4-50. Highlighting (Front View)

SECTION V

MATERIAL REQUIRED FOR PAINTING AND MARKING

5-1. SUPPLY INFORMATION.

a. The following materials are required for compliance with this technical order:

NOMENCLATURE	STOCK NO.	SOURCE
Acid-Phosphoric metal conditioner (30 gal drum)	6850-551-9577	Ordnance
Activator, press sensitive adhesive (1 pint can)	NSL	LP
Bar roof mounting	2540-409-8878	DSA
Cleaning Compound -- Solvent; emulsion type; for general cleaning, FED Spec P-C-576b.	6850-249-8026	GSA
Cloth -- cotton, cheesecloth, unshrunk, white, Construction II, 50 yd bolt 36 in. wide; Fed Spec CCC-C-440,	8305-00-205-3495	GSA
Coating Compound -- Bituminous solvent, black, acid-proof paint with asphalt base. Spec MIL-C-4501 low solids, spraying consistency, type 1 (1 gal can)	8030-664-7105	GSA
Coating Compound -- Bituminous solvent, black, acid-proof paint with asphalt base, Spec MIL-C-4501, medium solids, Brushing and spraying consistency, type II (1 gal)	8030-290-5141	GSA
Coating Compound -- Metal pretreatment, acid-resin, Spec MIL-C-15328A (5 gal can)	8030-00-165-8577	AF Stock
Compound -- Grease cleaning type I -- nonphenolic (55 gal drum)	6850-00-5569-2836	GSA
Compound -- Grease cleaning type II -- phenolic (55 gal drum)	6850-00-559-2835	GSA
Compound -- high pressure, steam cleaning, alkaline powder, for metal surfaces, 125 lb drum	6850-00-256-0157	GSA

NOMENCLATURE	STOCK NO.	SOURCE
Enamel -- Green Semi-Gloss, color no. 34087, Fed Spec TT-E-529	8010-298-3865	GSA
Enamel -- Green Olive Drab, color no. Fed Spec TT-E-527	8010-297-0560	GSA
Compound -- high-pressure steam cleaning, powder, for cleaning various metal surfaces, 25 lb container	6850-664-7056	GSA
Compound -- Insulating, electric, liquid Spec. MIL-V-1137, type AN, grade CA	5970-00-166-1681	AF Stock
Disk -- abrasive, closed coating; 16 grit, 7 in. diameter, 7/8 in. arbor hole	5345-558-5929	GSA
Disk -- abrasive, closed coating; 24 grit, 7 in. diameter, 7/8 in. arbor hole	5345-558-5928	GSA
Disk -- abrasive, closed coating; 36 grit, 7 in. diameter, 7/8 in. arbor hole	5345-00-196-1692	GSA
Disk -- abrasive, open coating; grade 0, 7 in. diameter, without arbor hole	5345-186-8248	DOD
Disk -- abrasive, open coating; grade 2, 7 in. diameter without arbor hole	5345-186-8240	DOD
Disk -- abrasive; open coating; grade 4, 7 in. diameter, without arbor hole	5345-00-194-6062	DOD
Disk -- abrasive; open coating; grade 3, 9 1/8 in. diameter, without arbor hole	5345-186-8243	DOD
Enamel -- Black, full gloss, color no. 17038, Fed Spec TT-E-489	8010-527-2050	GSA
Enamel -- Black lusterless, color no. 37038, Fed Spec TT-E-527	8010-297-0547	GSA
Enamel -- Gray, color no. 16081, full gloss, Fed Spec TT-E-489, type I	8010-616-7496	GSA

NOMENCLATURE	STOCK NO.	SOURCE
Enamel -- Green, semi-gloss, color no. 24533, Fed Spec TT-E-529	8010-527-3197	GSA
Enamel -- Orange Yellow, full gloss, color no. 13538, Fed Spec TT-E-489	8010-00-680-0200	GSA
Enamel -- Red, color no. 11105, full gloss, Fed Spec TT-E-489, type I	8010-616-7487	GSA
Enamel -- Red, lusterless color no. 31136, Fed Spec TT-E-527	8010-472-5512	GSA
Enamel -- Strata Blue, color no. 15045 Fed Std No. 595, Spec TT-E-489	8010-298-2287	DOD
Enamel -- White, full gloss, color no. 17875, Fed Spec TT-E-489	8010-664-4761	GSA
Enamel -- Yellow, full gloss, color no. 13538, Fed Spec TT-E-489	8010-527-2045	GSA
Enamel -- Strata Blue color no. 15045 Fed Spec MIL-D-46141	8010-108-5912	GSA
Explosives A	9905-880-5359	GSA
Explosives B	9905-880-5360	GSA
Kerosene (55 gal drum, 18 gage, type II)	9140-242-6751	AF Stock
Lacquer -- Cellulosic derivative type, blue pigmented, color no. 516, full gloss, Spec MIL-L-7178	8010-598-5933	DOD
Lacquer -- Cellulosic derivative type, colorless, full gloss, Spec MIL-L-7178	8010-663-3034	DOD
Lacquer -- Cellulosic derivative type, red pigmented; color no. 11105, full gloss; Spec MIL-L-7178	8010-161-7384	DOD
Lacquer -- Cellulosic derivative type, white pigmented, full gloss, color no 17875, Spec MIL-L-7178	8010-251-6506	DOD
Lacquer -- Cellulosic derivative type, yellow pigmented, color no. 13538, full gloss, Fed spec TT-L-58	8010-527-2624	GSA

NOMENCLATURE	STOCK NO.	STOCK
Naphtha -- aromatic, Fed Spec TT-N-97 Type II	6810-223-9067	DOD
Non-slip fabric, pressure sensitive adhesive backing; 3/4 in. x 24 in., 50 pieces per box-black, green, red or silver	7220-823-7423	GSA
Non-slip fabric, pressure sensitive adhesive backing; 5 1/2 in. x 5 1/2 in., 50 pieces per box-black, green, red or silver	7220-823-7421	GSA
Light, warning vehicular, yellow pulsating, 24 volt	6220-985-3152	DSA/S9G
Light, warning vehicular, yellow pulsating, 12 volt	6220-985-3153	DSA/S9G
Enamel, Alkyd Semi-gloss, color no. 24052, Fed Spec TT-E-529	8010-01-131-9194	GSA
Light, warning vehicular, amber rotating, 14 volts, MS5137-4	6220-947-7535	DSA/S9G
Light, warning vehicular, amber rotating, 28 volts	6220-947-7570	DSA/S9G
Lights, warning vehicular, red rotating, 28 volts, MS51317-1	6220-958-7897	DSA/S9G
Light, warning, vehicular, red rotating, 14 volts, MS51317-2	6220-892-4508	DSA/S9G
Light, warning, vehicular, blue rotating 15 volts, MS51317-6	6220-00-947-7572	DSA/S9G
Light, warning vehicular, blue rotating, 28 volts, MS51317-5	6220-00-947-7621	DSA/S9C
Slow moving vehicle emblem	9905-00-149-1275	GSA/JGG
Enamel, gray color no. 16081 Fed Spec MIL-C-83286	8010-01-078-9281	GSA
Enamel, yellow color no. 13538	8010-00-181-8292	GSA

NOMENCLATURE	STOCK NO.	SOURCE
Fed Spec MIL-C-83286		
Enamel, blue, color no. 15045 Fed Spec MIL-C-83286	8010-00-839-5663	GSA
Enamel, lime yellow color no. 13670 Fed Spec MIL-C-83286	8010-01-036-3493	GSA
Non-slip fabric, pressure sensitive adhesive backing; 6 in. x 24 in., 50 pieces per box-black, green, red or silver	7220-823-7422	GSA
Non-slip fabric, pressure sensitive adhesive backing; 6 in. x 60 ft. roll- black, green, red or silver	7220-823-7419	GSA
Non-slip fabric, pressure sensitive adhesive backing; 24 in. x 60 ft. roll- black, green, red or silver	7220-823-7420	GSA
Paint-Bituminous coal tar, pitch base, Spec MIL-C-450a	8030-290-5141	GSA
Paint, reflective white, 12 lb can	8010-965-2500	GSA
Paint, Strata blue, 16 oz. aerosol can	8010-988-1458	GSA
Plate, Air Force License part nr, AF-1, Color White part nr, AF-2, Color Olive Drab part nr, AF-3, Color Desert Sand	NSL	Government of District of Columbia Industries Division Department of Correction P.O. Box 730 Lorton VA 22079 (COML) 703-643-2142
Polyurethane coating, dark Green (24052) part nr PWC 218 U/I Bx (12 ea 13 oz spray cans)	NSL	L.P. Pacific West Chemical Corp 337 Summit Dr P.O. Box 183 Corte Madera CA 94925-0183 Phone (415) 924-4560
Polyurethane Coating, green color no. 24052, Fed Spec MIL-C-83286	8010-01-023-4261	GSA
Polyurethane Coating, dark green color, no. 14052, Fed Spec MIL-C-85285; 2 quart kit	8010-01-362-3877	GSA

NOMENCLATURE	STOCK NO.	SOURCE
Polyurethane Coating, dark green color, no. 14052, Fed Spec MIL-C-85285; 2 gallon kit	8010-01-362-3876	GSA
Primer coating-metal; lacquer-proof, iron oxide red, Fed spec TT-P-664	8010-161-7274	DOD
Primer coating-metal; zinc chromate, Spec MIL-P-00735A	8010-161-7419	GSA
Primer-synthetic refinishing, Spec TT-P-636b (5 gal pail)	8010-161-5718	GSA
Remover-paint and varnish; alkali type; powder form, Spec MIL-R-25134	8010-943-7126	DOD
Respirator-organic vapor	4240-00-069-2684	AF Stock
Respirator-paint spray	4240-00-022-2524	AF Stock
Sealer, non-reflective marking edge 8 oz. can	NSL	LP
Sealer, reflective marking edge, 8 oz can.	NSL	LP
Star symbol - white lusterless, pressure sensitive adhesive backing; code no. 654L-USPSW, 6 in.	7690-781-2496	GSA
Star symbol-white lusterless, pressure sensitive adhesive backing; code no. 655:-USPSW; 10 in.	7690-781-2497	GSA
Star symbol-white lusterless, pressure sensitive adhesive backing; code no. 656L-USPSW; 12 in.	7690-781-2498	GSA
Star symbol-white lusterless, pressure sensitive adhesive backing; code no. 657L-USPSW; 16 in.	7690-781-2499	GSA
Star symbol-white lusterless, pressure sensitive adhesive backing; code no. 658L-USPSW; 20 in.	7690-781-2500	GSA
Star symbol-white lusterless, pressure sensitive adhesive backing; code no. 659L-USPSW; 25 in.	7690-781-2501	GSA
Star symbol-white lusterless, pressure sensitive adhesive backing; code no. 660L-USPSW; 32 in.	7690-781-2502	GSA
Star-symbol-white lusterless, pressure sensitive adhesive backing; code no. 661L-USPSW; 36 in.	7690-781-2503	GSA
Steel, sheet-carbon, hot rolled, annealed; 0.063 in. thick, Fed Spec QQ-S-636	9515-640-4201	AF Stock
Tape-masking, scotch manilla, creped, 1 in. wide, 60 yd. roll type I	7510-266-6712	GSA

NOMENCLATURE	STOCK NO.	SOURCE
Tape-pressure sensitive adhesive, 2 in. wide, oil and water resistant, 60 yd. roll	8135-820-7467	GSA
Tape, reflective, pressure sensitive adhesive backing; 1 in. x 50 yd. roll 3270 silver	9390-949-7595	GSA
Tape, reflective, pressure sensitive adhesive backing; 2 in. x 5 yd. roll 3270 silver	9390-889-3780	GSA
Tape, reflective, pressure sensitive adhesive backing; 3 in. x 50 yd. roll 3270 silver	9390-045-8792	GSA
Tape, reflective, pressure sensitive adhesive backing; 4 in. x 50 yd. roll 3270 silver	9390-045-8793	GSA
Tape, reflective, pressure sensitive adhesive backing; 3 in. x 50 yd. roll 3271 yellow	9390-949-7595	GSA
Tape, reflective, pressure sensitive adhesive backing; 4 in. x 50 yd. roll 3271 yellow	9390-949-7610	GSA
Tape, reflective, pressure sensitive adhesive backing; 1 in. x 50 yd. roll 3271 yellow or 3272 red (P/N 137-165)	9390-949-7585	GSA
Tape, reflective, pressure sensitive adhesive backing; 2 in. x 50 yd. roll 3271 yellow or 3272 red (P/N 137-166)	9390-949-7588	GSA
Tape, reflective, pressure sensitive adhesive backing; 3 in. x 50 yd. roll 3272 red (P/N 137-167)	9390-949-7598	GSA
Tape, reflective, pressure sensitive adhesive back; color blue, 4 in. wide x 50 yd., Removable (3M P/N 690-75)	N/A	L.P. 3M Company, St. Paul MN
Tape, reflective, pressure sensitive, adhesive backing; 4 in. x 50 yd. roll, 3272 red (P/N 137-168)	9390-	GSA
Thinner-Dope and lacquer, cellulose nitrite base, Fed Spec TT-T-266b	8010-160-5787	GSA
Thinner-Synthetic resin enamel; Spec TT-T-306	800-160-5794	GSA
Type III-Trichloroethane technical (55 gal drum)	6810-551-1487	GSA

TO 36-1-3
NOMENCLATURE
STOCK NO.
SOURCE

Walkway-Compound non-slip, rough
type black, contains grit as an
integral part of the coating, Spec
MIL-W-5044, type II (1 gal)

5610-00-641-0427

AF Stock

Wood Preservative-Pentachloropheno 1
mixture; Fed Spec TT-W-572

8030-634-7970

GSA

b. The following markings are required for compliance with this technical order. Markings will be requisitioned from 653 STPG/MISIP/DECAL, 285 Cochran St, Robins AFB, GA 31098-1623. Using the part number and complete description that follows:

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER SIZE	EMBLEM SIZE
		LEGEND	BKGD.		
3613001	NO SMOKING WITHIN 50 FEET (2 lines of copy as shown)	Silver	Red	4"	10" x 42"
3613002	NO SMOKING WITHIN 50 FEET (1 line of copy as shown)	Silver	Red	4"	5" x 72"
3613003	NO SMOKING WITHIN 50 FEET (1 line of copy as shown)	Silver	Red	3"	4" x 60"
3613004	FLAMMABLE	Red	Silver	6"	7" x 54"
3613005	FLAMMABLE	Red	Silver	4"	5" x 36"
3613006	FLAMMABLE (ARC)	Red	Silver	4"	10" x 66"
3613007	NO SMOKING WITHIN 100 FEET (2 lines of copy as shown)	Silver	Red	6"	14 1/2" x 84"
3613008	JET FUEL JP4	Silver	Red	6"	7" x 55"
3613009	JET FUEL JP4	Silver	Red	4"	5" x 40"
3613012	91/96	Silver	Red	4"	5" x 30"
3613013	91/96	Silver	Red	6"	7" x 42"
3613016	WATER-ALCOHOL	Silver	Red	6"	7" x 66"

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER SIZE	EMBLEM SIZE
		LEGEND	BKGD		
3613453	UDMH	Blue	Silver	4"	
3613455	(Die-cut pre-spaced)	Black	None	1-1/2"	
3613452	AMBULANCE (Die-cut prespaced)	Black	None	3"	None
3613411	RED CROSS SYMBOL (Reflective Premasked)	Omaha	White	3" x 3"	4" x 4"
3613412	RED CROSS SYMBOL (Reflective Premasked)	Orange	White	6" x 6"	8" x 8"
3613413	RED CROSS SYMBOL (Reflective Premasked)	Omaha	White	18" x 18"	24" x 24"
3613414	US AIR FORCE (Die-cut Prespaced)	Orange			
3613415	Letter A (Die-cut prespaced)	Black	None	1-1/2"	None
3613416	Letter B (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613417	Letter C (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613418	Letter D (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613419	Letter E (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613420	Letter F (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613421	Letter G (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613422	Letter H (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613423	Letter I (Die-cut prespaced)	Black	None	1-1/2"	2" x 0.812"
3613424	Letter J (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.2"
3613425	Letter K (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613426	Letter L (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.2"
3613427	Letter M (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.625"
3613428	Letter N (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613429	Letter O (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613430	Letter P (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613431	Letter Q (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613432	Letter R (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613433	Letter S (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613434	Letter T (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.2"
3613435	Letter U (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613436	Letter V (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613437	Letter W (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.625"
3613438	Letter X (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613439	Letter Y (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613440	Letter Z (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.4"
3613441	Number 1 (Die-cut prespaced)	Black	None	1-1/2"	2" x 1"
3613442	Number 2 (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.3"
3613443	Number 3 (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.3"
3613444	Number 4 (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.3"
3613445	Number 5 (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.3"
3613446	Number 6 (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.3"
3613447	Number 7 (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.3"
3613448	Number 8 (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.3"
3613449	Number 9 (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.3"
3613450	Number 0 (Die-cut prespaced)	Black	None	1-1/2"	2" x 1.3"
3613451	FOR OFFICIAL USE ONLY	Black	None	3/4"	None
3613456	(Die-cut prespaced) AMBULANCE (Die-cut pre-spaced)	Black	None	3"	None

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER SIZE	EMBLEM SIZE
		LEGEND	BKGD.		
3613457	AMBULANCE (Reflective, die-cut prespaced)	Silver	None	1-1/2"	
3613458	POLICE (die-cut prespaced)	Blue	None	7"	
3613459	POLICE (die-cut prespaced)	Blue	None	4"	
3613460	FOR OFFICIAL USE ONLY (die-cut prespaced)	Blue	None	1"	
3613461	Letter B (die-cut prespaced)	Blue	None	1"	
3613462	Number 1 (die-cut prespaced)	Blue	None	1"	
3613463	Number 2 (die-cut prespaced)	Blue	None	1"	
3613464	Number 3 (die-cut prespaced)	Blue	None	1"	
3613465	Number 4 (die-cut prespaced)	Blue	None	1"	
3613466	Number 5 (die-cut prespaced)	Blue	None	1"	
3613467	Number 6 (die-cut prespaced)	Blue	None	1"	
3613468	Number 7 (die-cut prespaced)	Blue	None	1"	
3613469	Number 8 (die-cut prespaced)	Blue	None	1"	
3613470	Number 9 (die-cut prespaced)	Blue	None	1"	
3613471	Number 0 (die-cut prespaced)	Blue	None	1"	
3613472	BADGE SECURITY POLICE (reflectorized)	Blue	Silver		10 1/2" x 16"
NOTE: Security policy badge other than size shown will be locally purchased.					
3613017	WATER-ALCOHOL NATO SYMBOL S738 (2 lines of copy as shown)	Black	Silver	1/2"	2" x 9 1/2"
3613018	OPEN MANHOLE COVERS WHEN PUMPING FUEL OIL OR WATER AT TEMPERATURES BELOW 25° F (4 lines of copy)	Silver	Red	2"	10" x 36"
3613019	OIL ACFT ENG	Silver	Red	3"	4" x 36"
3613020	OIL ACFT ENG	Silver	Red	4"	5" x 48"
3613021	KEROSENE	Silver	Red	4"	5" x 30"
3613022	KEROSENE	Silver	Red	6"	7" x 48"

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER SIZE	EMBLEM SIZE
		LEGEND	BKGD.		
3613025	DIESEL FUEL	Silver	Red	3"	4" x 36"
3613026	DIESEL FUEL	Silver	Red	4"	5" x 42"
3613027	MOGAS	Silver	Red	3"	4" x 18"
3613028	MOGAS	Silver	Red	4"	5" x 24"
3613029	N ₂ O ₄ CLASS A POISON (2 lines of copy as shown)	Blue	Silver	6"	14" x 72"
3613030	UDMH HYDRAZINE CORROSIVE LIQUID (2 lines of copy as shown)	Blue	Silver	6"	14" x 72"
3613031	DEMINERALIZED WATER	Silver	Red	6"	7" x 72"
3613032	WARNING: TRANSFER FROM LINE OR CONTAINER IDENTIFIED BY NAME OF ALCOHOL REQUIRED. REFER TO TECHNICAL ORDERS 2-1-14 AND 36A9-3-12-1 FOR WATER-ALCOHOL MIXING AND TESTING DATA. (5 lines of copy as shown)	Black	Silver	1/8"	2" x 5"
3613041	EXPLOSIVES A	Red	Silver	6"	8" x 60"
3613042	EXPLOSIVES B	Red	Silver	6"	8" x 60"
3613043	POISON	Blue	Silver	4"	6" x 30"
3613044	OXIDIZERS	Yellow	Black	4"	6" x 34"
3613045	V (Water-Alcohol Chevron)	Black	Silver	3/4"x5"x7"	6" x 8"
3613046	COMPRESSED GAS (2 lines of copy)	Green	Silver	4"	11" x 36"
3613047	CORROSIVES	Blue	Silver	4"	6" x 36"
3613048	RADIOACTIVE	Black	Yellow	4"	6" x 36"
3613049	DANGEROUS	Red	Silver	4"	6" x 36"
3613050	CARGO FIRE - AVOID WATER	Red	Silver	2"	4" x 36"
3613051	SECURITY POLICE (1 line of copy as shown)	Blue	Silver	2 1/2 "	4" X 24"
3613053	RED CROSS SYMBOL (Reflect premasked)	Red	White	3" x 3"	4" x 4"
3613054	RED CROSS SYMBOL (Reflect premasked)	Red	White	6" x 6"	8" x 8"
3613055	RED CROSS SYMBOL (Reflect premasked)	Red	White	8" x 8"	10 3/4" x 10 3/4"
3613056	RED CROSS SYMBOL (Reflect premasked)	Red	White	18" x 18"	24" x 24"

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER SIZE	EMBLEM SIZE
		LEGEND	BKGD.		
3613057	RED CROSS SYMBOL (Non-Reflect premasked)	Red	White	36" x 36"	48" x 48"
3613058	RED CROSS SYMBOL (Reflect premasked)	Red	White	36" x 36"	48" x 48"
3613060	FOR OFFICIAL USE ONLY	Silver	Red	3/4"	1 1/4" x 15"
3613061	U.S. AIR FORCE	Silver	Red	1 1/2"	3" x 21"
3613065	U.S. AIR FORCE (Die-cut prespaced)	Silver	None	1 1/2"	None
3613062	U.S. AIR FORCE (Die-cut)	Yellow	None	1 1/2"	None
3613063	ALERT FORCE	Blue	Yellow	2 1/2"	3 1/2" x 26"
3613066	FOR OFFICIAL USE ONLY (Die-cut prespaced)	Silver	None	3/4"	None
3613064	FOR OFFICIAL USE ONLY (Die-cut)	Yellow	None	3/4"	None
3613080	OXYGEN	Yellow	Black	3"	5" x 22"
3613067	LIQUID OXYGEN	Yellow	Black	4"	6" x 36"
3613081	NITROGEN	Green	Silver	3"	5" x 24"
3613068	LIQUID NITROGEN	Green	Silver	4"	6" x 40"
3613069	CAUTION	Silver	Red	4"	6" x 22"
3613082	FLAMMABLE GAS (2 lines of copy as shown)	Red	Silver	4"	11" x 36"
3613103	AMBULANCE (Reflective die-cut prespaced)	Silver	None	3"	None

NOTE: The following Manhole Cover Markings are available in 2" x 6" strips of 3 identical legends with symbols:

PART NO.	LEGEND WITH SYMBOL			
3613407	AVGAS	115/145	F-22 ◆	Silver Legend - Purple Background
3613408	AVGAS	100/130	F-18 ◆	Silver Legend - Purple Background
3613409	JP-4	F-40 ◆		Silver Legend - Red Background
3613410	JP-5	F-44 ◆		Silver Legend - Red Background
3613070	AVOIL	D-1100	0-128	Black Legend - Silver Background
3613071	AVOIL	D-1055	0-123	Black Legend - Silver Background
3613037	AVOIL	1100	0-117 ■	Black Legend - Silver Background
3613038	AVOIL	1065	0-113 ■	Black Legend - Silver Background
3613039	AVOIL	1010	0-133 ■	Black Legend - Silver Background
3613040	AVOIL	1005	0-132 ■	Black Legend - Silver Background
93104808	JP-8		F-34 ◆	Silver Legend - Red Background

NOTE: The following are supplied in ten identical characters per package.

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER OR NO. SIZE	EMBLEM SIZE
		LETTER OR NO.	BKGD.		
3613132	Letter A	Silver	Red	1 1/2"	2" x 1.4"
3613133	Letter B	Silver	Red	1 1/2"	2" x 1.4"
3613134	Letter C	Silver	Red	1 1/2"	2" x 1.4"
3613135	Letter D	Silver	Red	1 1/2"	2" x 1.4"
3613136	Letter E	Silver	Red	1 1/2"	2" x 1.4"
3613137	Letter F	Silver	Red	1 1/2"	2" x 1.4"
3613138	Letter G	Silver	Red	1 1/2"	2" x 1.4"
3613139	Letter H	Silver	Red	1 1/2"	2" x 1.4"
3613140	Letter I	Silver	Red	1 1/2"	2" x 0.812"
3613141	Letter J	Silver	Red	1 1/2"	2" x 1.2"
3613142	Letter K	Silver	Red	1 1/2"	2" x 1.4"
3613143	Letter L	Silver	Red	1 1/2"	2" x 1.2"
3613144	Letter M	Silver	Red	1 1/2"	2" x 1.625"
3613145	Letter N	Silver	Red	1 1/2"	2" x 1.4"
3613146	Letter O	Silver	Red	1 1/2"	2" x 1.4"
3613147	Letter P	Silver	Red	1 1/2"	2" x 1.4"
3613148	Letter Q	Silver	Red	1 1/2"	2" x 1.4"
3613149	Letter R	Silver	Red	1 1/2"	2" x 1.4"
3613150	Letter S	Silver	Red	1 1/2"	2" x 1.4"
3613151	Letter T	Silver	Red	1 1/2"	2" x 1.2"
3613152	Letter U	Silver	Red	1 1/2"	2" x 1.4"
3613153	Letter V	Silver	Red	1 1/2"	2" x 1.4"
3613154	Letter W	Silver	Red	1 1/2"	2" x 1.625"
3613155	Letter X	Silver	Red	1 1/2"	2" x 1.4"
3613156	Letter Y	Silver	Red	1 1/2"	2" x 1.4"
3613157	Letter Z	Silver	Red	1 1/2"	2" x 1.4"
3613158	Letter A (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613159	Letter B (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613160	Letter C (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613161	Letter D (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER OR NO. SIZE	EMBLEM SIZE
		LETTER OR NO.	BKGD.		
3613162	Letter E (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613163	Letter F (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613164	Letter G (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613165	Letter H (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613166	Letter I (die-cut prespaced)	Yellow	None	1 1/2"	2" x 0.812"
3613167	Letter J (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.2"
3613168	Letter K (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613169	Letter L (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.2"
3613170	Letter M (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.625"
3613171	Letter N (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613172	Letter O (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613173	Letter P (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613174	Letter Q (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613175	Letter R (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613176	Letter S (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613177	Letter T (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.2"
3613178	Letter U (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613179	Letter V (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613180	Letter W (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.625"
3613181	Letter X (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613182	Letter Y (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613183	Letter Z (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.4"
3613184	Letter A (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613185	Letter B (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613186	Letter C (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613187	Letter D (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613188	Letter E (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613189	Letter F (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613190	Letter G (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613191	Letter H (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER OR NO. SIZE	EMBLEM SIZE
		LETTER OR NO.	BKGD.		
3613192	Letter I (die-cut prespaced)	Silver	None	1 1/2"	2" x 0.812"
3613193	Letter J (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.2"
3613194	Letter K (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613195	Letter L (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.2"
3613196	Letter M (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.625"
3613197	Letter N (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613198	Letter O (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613199	Letter P (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613200	Letter Q (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613201	Letter R (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613202	Letter S (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613203	Letter T (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.2"
3613204	Letter U (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613205	Letter V (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613206	Letter W (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.625"
3613207	Letter X (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613208	Letter Y (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613209	Letter Z (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.4"
3613210	Letter A	Silver	Red	3"	4" x 2.8"
3613211	Letter B	Silver	Red	3"	4" x 2.8"
3613212	Letter C	Silver	Red	3"	4" x 2.8"
3613213	Letter D	Silver	Red	3"	4" x 2.8"
3613214	Letter E	Silver	Red	3"	4" x 2.8"
3613215	Letter F	Silver	Red	3"	4" x 2.8"
3613216	Letter G	Silver	Red	3"	4" x 2.8"
3613217	Letter H	Silver	Red	3"	4" x 2.8"
3613218	Letter I	Silver	Red	3"	4" x 1.625"
3613219	Letter J	Silver	Red	3"	4" x 2.4"
3613220	Letter K	Silver	Red	3"	4" x 2.8"
3613221	Letter L	Silver	Red	3"	4" x 2.4"
3613222	Letter M	Silver	Red	3"	4" x 3.25"
3613223	Letter N	Silver	Red	3"	4" x 2.8"
3613224	Letter O	Silver	Red	3"	4" x 2.8"
3613225	Letter P	Silver	Red	3"	4" x 2.8"
3613226	Letter Q	Silver	Red	3"	4" x 2.8"
3613227	Letter R	Silver	Red	3"	4" x 2.8"
3613228	Letter S	Silver	Red	3"	4" x 2.8"
3613229	Letter T	Silver	Red	3"	4" x 2.4"
3613230	Letter U	Silver	Red	3"	4" x 2.8"
3613231	Letter V	Silver	Red	3"	4" x 2.8"
3613232	Letter W	Silver	Red	3"	4" x 3.25"
3613233	Letter X	Silver	Red	3"	4" x 2.8"
3613234	Letter Y	Silver	Red	3"	4" x 2.8"
3613235	Letter Z	Silver	Red	3"	4" x 2.8"

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER OR NO. SIZE	EMBLEM SIZE
		LETTER OR NO.	BKGD.		
3613236	Letter A	Silver	Red	4"	6" x 3.3"
3613237	Letter B	Silver	Red	4"	6" x 3.3"
3613238	Letter C	Silver	Red	4"	6" x 3.3"
3613239	Letter D	Silver	Red	4"	6" x 3.3"
3613240	Letter E	Silver	Red	4"	6" x 3.3"
3613241	Letter F	Silver	Red	4"	6" x 3.3"
3613242	Letter G	Silver	Red	4"	6" x 3.3"
3613243	Letter H	Silver	Red	4"	6" x 3.3"
3613244	Letter I	Silver	Red	4"	6" x 3.3"
3613245	Letter J	Silver	Red	4"	6" x 2"
3613246	Letter K	Silver	Red	4"	6" x 3"
3613247	Letter L	Silver	Red	4"	6" x 3.3"
3613248	Letter M	Silver	Red	4"	6" x 3"
3613249	Letter N	Silver	Red	4"	6" x 4.05"
3613250	Letter O	Silver	Red	4"	6" x 3"
3613251	Letter P	Silver	Red	4"	6" x 3.3"
3613252	Letter Q	Silver	Red	4"	6" x 3.3"
3613253	Letter R	Silver	Red	4"	6" x 3.3"
3613254	Letter S	Silver	Red	4"	6" x 3.3"
3613255	Letter T	Silver	Red	4"	6" x 3.3"
3613256	Letter U	Silver	Red	4"	6" x 3"
3613257	Letter V	Silver	Red	4"	6" x 3.3"
3613258	Letter W	Silver	Red	4"	6" x 3.3"
3613259	Letter X	Silver	Red	4"	6" x 4.05"
3613260	Letter Y	Silver	Red	4"	6" x 3.3"
3613261	Letter Z	Silver	Red	4"	6" x 3.3"
3613262	Letter A	Silver	Red	6"	8" x 5.6"
3613263	Letter B	Silver	Red	6"	8" x 5.6"
3613264	Letter C	Silver	Red	6"	8" x 5.6"
3613265	Letter D	Silver	Red	6"	8" x 5.6"
3613266	Letter E	Silver	Red	6"	8" x 5.6"
3613267	Letter F	Silver	Red	6"	8" x 5.6"
3613268	Letter G	Silver	Red	6"	8" x 5.6"
3613269	Letter H	Silver	Red	6"	8" x 5.6"
3613270	Letter I	Silver	Red	6"	8" x 3.25"
3613271	Letter J	Silver	Red	6"	8" x 4.8"
3613272	Letter K	Silver	Red	6"	8" x 5.6"
3613273	Letter L	Silver	Red	6"	8" x 4.8"
3613274	Letter M	Silver	Red	6"	8" x 6.50"
3613275	Letter N	Silver	Red	6"	8" x 5.6"
3613276	Letter O	Silver	Red	6"	8" x 5.6"
3613277	Letter P	Silver	Red	6"	8" x 5.6"
3613278	Letter Q	Silver	Red	6"	8" x 5.6"
3613279	Letter R	Silver	Red	6"	8" x 5.6"
3613280	Letter S	Silver	Red	6"	8" x 5.6"
3613281	Letter T	Silver	Red	6"	8" x 4.8"
3613282	Letter U	Silver	Red	6"	8" x 5.6"
3613283	Letter V	Silver	Red	6"	8" x 5.6"
3613284	Letter W	Silver	Red	6"	8" x 6.50"
3613285	Letter X	Silver	Red	6"	8" x 5.6"
3613286	Letter Y	Silver	Red	6"	8" x 5.6"
3613287	Letter Z	Silver	Red	6"	8" x 5.6"
3613330	Number 1 (die-cut prespaced)	Silver	None	1 1/2"	2" x 1"
3613331	Number 2 (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.3"
3613332	Number 3 (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.3"

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER OR NO. SIZE	EMBLEM SIZE
		LETTER OR NO.	BKGD.		
3613333	Number 4 (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.3"
3613334	Number 5 (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.3"
3613335	Number 6 (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.3"
3613336	Number 7 (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.3"
3613337	Number 8 (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.3"
3613338	Number 9 (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.3"
3613339	Number 0 (die-cut prespaced)	Silver	None	1 1/2"	2" x 1.3"
3613340	Number 1 (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1"
3613341	Number 2 (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.3"
3613342	Number 3 (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.3"
3613343	Number 4 (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.3"
3613344	Number 5 (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.3"
3613345	Number 6 (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.3"
3613346	Number 7 (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.3"
3613347	Number 8 (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.3"
3613348	Number 9 (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.3"
3613349	Number 0 (die-cut prespaced)	Yellow	None	1 1/2"	2" x 1.3"
3613350	Number 1	Silver	Red	1 1/2"	2" x 1"
3613351	Number 2	Silver	Red	1 1/2"	2" x 1.3"
3613352	Number 3	Silver	Red	1 1/2"	2" x 1.3"
3613353	Number 4	Silver	Red	1 1/2"	2" x 1.3"
3613354	Number 5	Silver	Red	1 1/2"	2" x 1.3"
3613355	Number 6	Silver	Red	1 1/2"	2" x 1.3"
3613356	Number 7	Silver	Red	1 1/2"	2" x 1.3"
3613357	Number 8	Silver	Red	1 1/2"	2" x 1.3"
3613358	Number 9	Silver	Red	1 1/2"	2" x 1.3"
3613359	Number 0	Silver	Red	1 1/2"	2" x 1.3"
3613360	Number 1	Silver	Red	3"	4" x 2"
3613361	Number 2	Silver	Red	3"	4" x 2.6"
3613362	Number 3	Silver	Red	3"	4" x 2.6"
3613363	Number 4	Silver	Red	3"	4" x 2.6"
3613364	Number 5	Silver	Red	3"	4" x 2.6"
3613365	Number 6	Silver	Red	3"	4" x 2.6"
3613366	Number 7	Silver	Red	3"	4" x 2.6"
3613367	Number 8	Silver	Red	3"	4" x 2.6"
3613368	Number 9	Silver	Red	3"	4" x 2.6"
3613369	Number 0	Silver	Red	3"	4" x 2.6"
3613370	Number 1	Silver	Red	4"	6" x 2"
3613371	Number 2	Silver	Red	4"	6" x 3.3"
3613372	Number 3	Silver	Red	4"	6" x 3.3"

PART NO.	LEGEND OR SYMBOL	COLORS		LETTER OR NO. SIZE	EMBLEM SIZE
		LETTER OR NO.	BKGD.		
3613373	Number 4	Silver	Red	4"	6" x 3.3"
3613374	Number 5	Silver	Red	4"	6" x 3.3"
3613375	Number 6	Silver	Red	4"	6" x 3.3"
3613376	Number 7	Silver	Red	4"	6" x 3.3"
3613377	Number 8	Silver	Red	4"	6" x 3.3"
3613378	Number 9	Silver	Red	4"	6" x 3.3"
3613379	Number 0	Silver	Red	4"	6" x 3.3"
3613380	Number 1	Silver	Red	6"	8" x 4"
3613381	Number 2	Silver	Red	6"	8" x 5.2"
3613382	Number 3	Silver	Red	6"	8" x 5.2"
3613383	Number 4	Silver	Red	6"	8" x 5.2"
3613384	Number 5	Silver	Red	6"	8" x 5.2"
3613385	Number 6	Silver	Red	6"	8" x 5.2"
3613386	Number 7	Silver	Red	6"	8" x 5.2"
3613387	Number 8	Silver	Red	6"	8" x 5.2"
3613388	Number 9	Silver	Red	6"	8" x 5.2"
3613389	Number 0	Silver	Red	6"	8" x 5.2"
3613393	100-130	Silver	Purple	4"	5" x 30"
3613394	100-130	Silver	Purple	6"	7" x 42"
3613395	115-145	Silver	Purple	4"	5" x 30"
3613396	115-145	Silver	Purple	6"	7" x 42"
3613397	AVGAS	Silver	Purple	4"	5" x 24"
3613398	AVGAS	Silver	Purple	6"	7" x 32"
3613399	F	Silver	Purple	4"	6" x 3.3"
3613400	F	Silver	Purple	6"	8" x 5.6"
3613401	2	Silver	Purple	4"	6" x 3.3"
3613402	2	Silver	Purple	6"	8" x 5.2"
3613403	1	Silver	Purple	4"	6" x 2"
3613404	1	Silver	Purple	6"	8" x 4"
3613405	8	Silver	Purple	4"	6" x 3.3"
3613406	8	Silver	Purple	6"	8" x 5.2"
9275871-01	Number 0 (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-03	Number 1 (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-05	Number 2 (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-07	Number 3 (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-11	Number 4 (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-13	Number 5 (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-16	Number 6 (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-17	Number 7 (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-21	Number 8 (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-23	Number 9 (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-26	Letter B (Die Cut Prespaced)	Blue	None	1 1/2"	
9275871-27	Letter C (Die Cut Prespaced)	Blue	None	1 1/2"	

c. The following decals are required for compliance with this technical order. Requisition decals from 653 STPG/MSIPT/DECAL, 285 Cochran St, Robins AFB, GA 31098-1623.

PART NO	LEGEND OR DESCRIPTION	EMBLEM SIZE
3613101	Airdrome Traffic Signals	2 3/4" x 3"
3613102	MPH to KPH	2" x 3"
3613500	CAUTION BEFORE TOWING LATCH PINTLE CLOSE TRIPLOCK INSTALL LOCK PIN	3 1/2" x 4 1/2"
3613502	WARNING DO NOT EXCEED 100 PSI IN HALON SUPPLY CYLINDER DURING TRANSFER OPERA- TION. OVER PRESSURIZATION OF SUPPLY CYLINDER MAY CAUSE FAILURE OF TANK RESULTING IN INJURY OR DEATH.	5 1/2" X 3 1/2"
3613505	Air Force A Great Way of Life	7'6" X 6"
3613506 (toned down)	CAUTION BEFORE TOWING LATCH PINTEL CLOSE TRIPLOCK INSTALL LOCK PIN	3 1/2" x 4 1/2"

d. The following Modular Ambulance's
Decals can be obtained from:

Wheeled Coach
2778 N. Forsyth Road
Winter Park, FL 32792
(407) 677-7777

<u>SIZE</u>	<u>INSIGNIA</u>	<u>P/N</u>	<u>LOCATION</u>
36"	RED CROSS	AS 71212	COMPARTMENT BODY (TOP)
16"	RED CROSS	AS 71208	COMPARTMENT BODY (SIDE)
6"	RED CROSS	AS 71211	REAR OF VEHICLE
16"	STAR OF LIFE	AS 71003	COMPARTMENT BODY (SIDE)
12"	STAR OF LIFE	AS 71006	REAR OF VEHICLE
4"	STAR OF LIFE	AS 71001	FRONT HOOD - ABOVE GRILLE
6"	"AMBULANCE"	AS 71205	COMPARTMENT BODY (SIDE)
4"	"AMBULANCE"	AS 71210	REAR OF VEHICLE
4"	AMBULANCE (MIRROR IMAGE)	AS 71009	FRONT HOOD - ABOVE GRILLE

SECTION VI

LIGHTING REQUIREMENTS

6-1. GENERAL.

6-2. The lighting and signaling devices prescribed in this technical order provide the minimum electrical directional signaling devices, and reflector requirements for vehicles.

6-3. REQUIREMENTS.

a. All electrical devices shall conform to State and Federal Highway Administration Motor Carrier Safety Regulations. When local, state or foreign country regulations conflict with this technical order, those pertinent regulations prevailing will take precedence. These requirements apply to vehicles operated on and off base.

b. All off base operated vehicles included in AFM 77-310 will be equipped with the electrical directional signaling, lighting, and reflector devices prescribed by this technical order.

c. The following legends represent the lights, reflectors, and markers which may be required on all types of vehicular equipment (see figure 6-1):

- (1) A - Head Lamp
- (2) B - Red Tail Light
- (3) C - Red or Amber Stop Light
- (4) D - Red Clearance Lamp
- (5) E - Amber Clearance Light
- (6) F - Red Side Marker
- (7) G - Amber Side Marker
- (8) H - Red Reflector
- (9) I - Amber Reflector

NOTE

Double letters indicate both sides.

d. Lighting and reflector equipment over and above that indicated in the preceding paragraph may be installed to meet local conditions and state regulations.

NOTE

Head lamp units incorporating left way shift characteristics shall be installed on vehicles to satisfy local condition requirements in areas where a left hand traffic pattern prevails.

6-4. SPECIAL DATA.

a. **DIRECTIONAL SIGNALING DEVICES** - Electrical directional signaling devices should be mounted on the front and rear of the vehicle, or combination of vehicles, near the extreme and outermost corners. They should be mounted not less than 24 inches and not more than 60 inches above ground level. Color of devices will be yellow or amber on the front and red on the rear. Location and color of directional signaling devices which have been factory installed on new vehicles will not be changed to comply with this technical order; however, in all cases, local state regulations will be adhered to.

b. **REFLECTORS**. All reflectors indicated in figure 6-1 will be in accordance with Ordnance drawing number B161059. Reflector installation on vehicles will not exceed a height of 60 inches and should be not less than 24 inches above the ground on which the vehicle stands. On vehicles which are so constructed as to make compliance with the 24 inch requirement impractical, lower mountings may be used.

NOTE

All devices should be illuminated and should be visible, both day and night, at a distance of 100 feet.

c. TRAILER LIGHTING CABLES.

(1) Air Force trucks, truck-tractors, trailers, and semitrailers are presently equipped with four different types of trailer lighting cables and connectors. The earliest truck-tractor to semi-trailer jumper cables employed a Warner 4- conductor cable, plugs and sockets. With the advent of directional signaling devices, many of the old vehicles and all newer ones were equipped with the Warner 6- conductor cables, plugs and sockets.

Then on 1 July 1957 the Society of Automotive Engineers, in conjunction with the American Trucking Association, established a recommended standard seven conductor cable with connectors. In an effort to standardize these connectors the Air Force has taken action to incorporate in all specifications for new truck tractors and semitrailers a requirement for the standard -7 conductor components. This will result in considerable savings to the Air Force, in that components such as the cable wire, plugs, and sockets can be replaced as separate items.

(2) Lighting connectors are not being furnished with vehicles of the 1/2 to 1-1/2 ton capacity. Since comparatively few of these vehicles ever tow trailers off base, or trailers which require lights, it is not considered to be economically feasible. Installation of lighting connectors on these vehicles must be accomplished by the using activity.

(3) Upon receipt of new vehicles with the seven conductor cables and connectors, action should be taken to convert your trailers and semitrailers. Under no circumstances should anything other than the standard SAE ATA seven conductor

components be used. To accomplish this, the ROUND plugs and sockets have been selected for standardization purposes. Although it may be desirable to remove the presently utilized 4 or 6 conductor components, it will not be necessary. The new parts may be installed and hooked up to the necessary lead wires just before they enter the present connectors.

(4) The new SAE-ATA seven circuit cables, plugs and sockets are coded by either numbers or colors. The SAE-ATA wiring code, which follows, should be utilized when installing the new components:

CONDUCTOR NO.	WIRE COLOR	CIRCUIT
1	White	Ground
2	Black	Clearance Lights
3	Yellow	Left Turn Light
4	Red	Stop Lights
5	Green	Right Turn Light
6	Brown	Tail Light
7	Blue	Auxiliary Circuit

Since many semi-trailers are equipped with compartment lights, spot lights, etc., the number 7 or blue auxiliary circuit should be used for this purpose.

d. SPOT LIGHTS. If deemed necessary by operating officials, spot lights can be installed on vehicles when required to meet local operational conditions or to comply with existing regulatory requirements. When installed it must be mounted on the vehicle centerline directly over the windshield head section with an inside control readily accessible to the driver.

6-5. SUPPLY DATA.

a. When a requirement exists for electrical directional signaling devices, spot lights, or trailer lighting connectors, all material may be purchased locally in accordance with AFR 67-1. When procuring trailer lighting components, only the ROUND seven conductor plugs and sockets should be utilized.

b. Parts necessary for fulfilling lighting and reflector requirements for off base operation not available in local supply will be requisitioned through regular supply channels, since requirements are based on local conditions and available types of vehicles cannot be predetermined.

6-6. WARNING OR INDICATING LIGHTS.

a. Emergency Vehicles (i.e., fire trucks, flight safety, and base disaster mobile command post vehicles) shall utilize the revolving flasher type light of aviation red as specified in MIL-C-25050.

b. The color of the revolving light used on Security Police Vehicles will conform with the color specified for police vehicles in the traffic code of the state in which the installation is located. The revolving flasher light utilized will conform to MIL-C-25050.

c. Metropolitan and van type ambulances shall utilize a revolving flasher light with a clear lens incorporating 4 bulbs with alternating lens colors, two red and two white. Station wagon and field type ambulances designated for general ambulance service will continue to use the red revolving flasher light conforming to MIL-C-25050. Those station wagon and field ambulances designated as "EMERGENCY USE" may be equipped with the same type 4-way revolving flasher light as authorized for van type and metropolitan ambulances.

d. Other vehicles which are authorized to operate on the apron, taxiways, and runways (i.e., maintenance vehicles, and alert/reflex trucks) will be equipped with the hazard warning lights (four way flashers) as required by the Department of Transportation or a nonrevolving pulsating type light of aviation yellow as specified in MIL-C-

25050. The pulsating yellow light is not required on those vehicles that are equipped with the four way flashing hazard warning lights.

e. General purpose vehicles which rarely operate on the apron and taxiway areas at night (i.e., staff cars, buses, and station wagons) may be equipped with aviation yellow magnetic-based caution lights at the discretion of the local commander.

f. Snowplows and Emergency Arresting Barrier Vehicles shall utilize the revolving flasher type light with amber/yellow globe conforming to MIL-C-25050. Light must be capable of emitting no less than 40 nor more than 400 candle power. Rotation will be such as to emit at least 90 flashes per minute and be visible through a 360-degree radius.

g. Lighting equipment over and above that indicated in the preceding paragraphs may be installed to meet local conditions and state/local regulations.

NOTE

- Warning lights will not be permanently affixed to Security Police, alert/reflex, fire chief, EOD vehicles, etc., referenced in paragraph 6-6.a., b., d., and e. above. Detachable mounting brackets will be utilized to facilitate vehicle rotation.
- All requirements for nonrevolving pulsating yellow lights should be filled, when possible, by removing the nonrevolving pulsating light from vehicles which have both the nonrevolving pulsating light and the hazard warning lights.
- Red revolving flasher lights presently installed on metropolitan ambulances will not be replaced solely to comply with this TO. The lights on these ambulances will be replaced on an as required basis.
- All other functional and safety markings for above vehicles will be accomplished as required in Section III of this technical order.

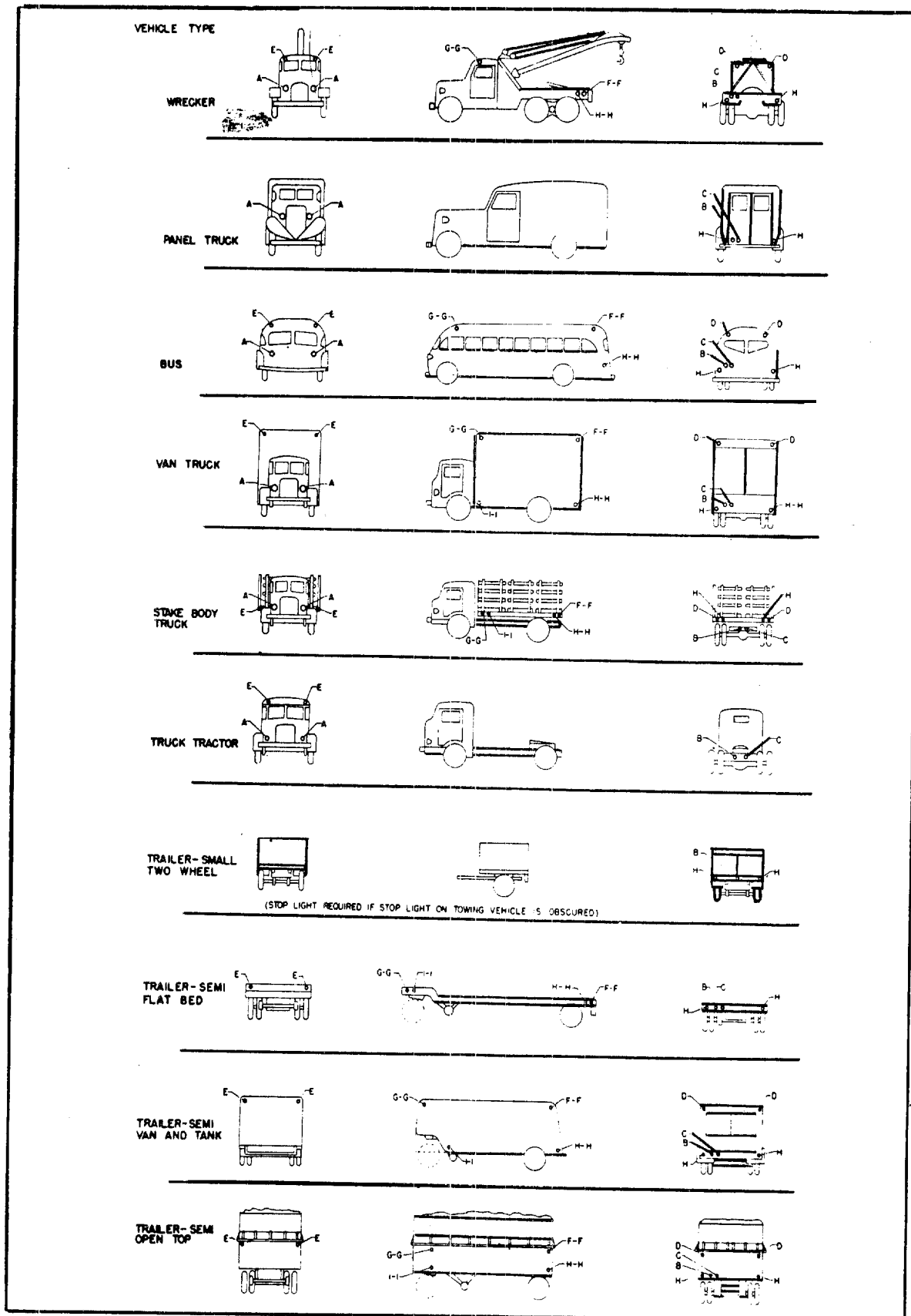


Figure 6-1. Types of Vehicles