TECHNICAL MANUAL

OPERATOR'S AND ORGANIZATIONAL MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

WARHEAD SECTION, GUIDED MISSILE, PRACTICE LIGHTWEIGHT, M252 (NSN 1336-00-021-4497)

HEADQUARTERS, DEPARTMENT OF ARMY

MAY 1980

This copy is a reprint which includes current pages from Changes 1 through 3.

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON,DC, 30 November 1988

Operator's and Organizational

Maintenance Manual

(Including Repair Parts and Special Tools List)

WARHEAD SECTION, GUIDED MISSILE, PRACTICE:

LIGHTWEIGHT, M252

(NSN 1336-00-021-4497)

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Operator's and Organizational

Maintenance Manual

(Including Repair Parts and Special Tools List)

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Operator's and Organizational

Maintenance Manual

(Including Repair Parts and Special Tools List)

WARHEAD SECTION, GUIDED MISSILE, PRACTICE:

LIGHTWEIGHT, M252

(NSN 1336-00-021-4497)

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HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, DC, 28 May 1980

TECHNICAL MANUAL

No 9-1336-488-12&P

(Including Repair Parts and Special Tools List)

Operator's and Organizational Maintenance Manual

WARHEAD SECTION, GUIDED MISSILE, PRACTICE:

LIGHTWEIGHT, M252

(NSN 1336-00-021-4497)

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or know of a way to improve the procedures, please let us know. Mail your DA Form 2028 (Recommended changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to Commander, U.S. Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAY-T(D), Picatinny Arsenal, NJ 07806-5000. A reply will be furnished direct to you.

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Section I. GENERAL

1-1. Scope

a. This manual is published for use by personnel responsible for operating and maintaining Lightweight Practice Guided Missile Warhead Section M252. Procedures in this manual are for personnel trained on this weapon system.

b. This manual contains a description of the warhead section and its related components, operating and maintenance procedures, tabulated data, and lists of repair parts and special tools required for organizational maintenance.

Procedures in this manual are the only basis for all technical operations and inspections pertaining to this equipment. However, it may not always be convenient to follow procedures in the sequence indicated.

c. Maintenance may require disassembly for access to only one component for replacement and reassembly. Although the manual may provide a more extensive sequence, unless specified to the contrary, the following rule applies: the organization may change the sequence of procedures to facilitate operations, if no required tests are omitted, no tests or inspections invalidated, and no safety requirements violated.

d. Appendix A contains a list of current references including supply and technical manuals, forms, and other available authorized publications applicable to this materiel.

e. Appendix B contains a maintenance allocation chart and instructions concerning its use. (No BIL or ITIAL are applicable to this equipment.)

f. Appendix C contains a list of repair parts and special tools that are required to perform maintenance of this materiel.

g. Illustration references prefixed with C (e.g., fig. C-1, fig. C-2, etc.) refer to illustrations in appendix C, Repair Parts and Special Tools List.

h. Refer to TM 43-0002-33 for procedures for destruction of ammunition to prevent enemy use.

1-2. Forms, Records, and Reports

a. General. Department of the Army forms and procedures used for equipment maintenance will be those prescribed in TM 38-750. Lot and serial numbers of the affected items will be included in all reports. The

forms required by using units issued ammunition are listed in appendix A. For a listing of all forms, refer to the current DA Pam 310-1.

b. Field Report of Accidents. Any accident involving injury to personnel or damage to materiel will be reported on DA Form 285 (Accident Report), in accordance with AR 385-40.

c. Malfunctions Involvina Ammunition or Explosives. A malfunction is defined as the failure of an explosive or nonexplosive ammunition item to function in accordance with the design, intent, and expected performance when fired or launched, or when explosive components function during a nonfunctional test. Malfunctions do not include accidents and incidents from negligence, malpractice, or implications in other situations such as vehicle accidents, fires, etc. However, malfunctions do include abnormal or premature function of an ammunition item as a result of normal handling, maintenance, storage, transportation, and tactical deployment. Explosive ammunition malfunctions will be reported in accordance with AR 75-Ammunition malfunctions involving nonexplosive 1 components that are not safety hazards will be reported on Standard Form 368 (Quality Deficiency Report) in accordance, with TM 38-750.

d. Report of Damaged or Improper Shipment. Any shipment of munitions received in damaged or unsatisfactory condition because of deficiencies in preservation, packaging, marking, loading, storage, or handling will be reported on SF 364 (Report of Discrepancy) in accordance with AR 735-11-2 and/or SF 361 (Discrepancy in Shipment Report) in accordance with AR 55-38.

e. Disposition of Unserviceable Ammunition and Components.

(1) An ammunition condition report will be submitted on all unserviceable or obsolete ammunition or ammunition components, in order that appropriate disposition instructions may be issued.

(a) "Reject" applies whenever use of the defective item would affect safety or reliability, and the defective item must not be used until the defect is corrected.

(b) "Reject" does not apply when the item is combat serviceable, and use of the item does not

affect safety or reliability. However, the required corrective action must be accomplished as soon as the tactical situation permits.

(2) Reports will be prepared on DA Form 2415 (Ammunition Condition Report), in accordance with TM 38-750. Multiple reports of a similar nature may be submitted on the same DA Form 2415.

f. Equipment Improvement Recommendations. Standard form 368 (Quality Deficiency Report) will be used to submit equipment improvement recommendations (EIR's) in accordance with TM 38-750.

g. Inspection and Maintenance Records.

(1) Records of inspection and maintenance will be maintained on the equipment maintenance log (EML). All entries are to be annotated on DA Form 2409. Record the required actions due to inspections and maintenance operations, excepting replacement of common hardware (e.g., nuts, bolts, screws, etc.). When the warhead section is expended, DA Form 2409 shall be forwarded to Headquarters, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-DSM-B, Dover, New Jersey 07801-5001.

(2) The record will be prepared in accordance with TM 38-750, except as follows:

- (a) Block 5-Enter appropriate information.
- (b) Blocks 4, 8, 10, 11 and 12-Leave blank.

SECTION II. DESCRIPTION AND DATA

1-3. Warhead Section M252

a. General

(1) Warhead section M252 is a practice, to be fired counterpart of nuclear warhead section M234. Although without nuclear components and explosive, the practice warhead section is a match for the nuclear warhead section in external configuration, weight, center of gravity, and moment of inertia. Functioning of the practice warhead section, however, is initiated by practice guided missile fuze M819E1. The warhead section is inert. The M819E1 fuze (electronic timer) is the only functional component in this warhead section and provides the sustainer engine cutoff (SECO) signal to the missile.

(2) Specific locations on the warhead section are referred to as stations (fig. 1-1). A station number indicates the inch-distance from a theoretical point (1.83 inches in front of the tip of the nose cone) to a particular station. Measurements to determine stations are made along a line parallel to the longitudinal axis of the warhead section. (Stations cannot be measured along the surface of the warhead section).

b. Description. In terms of stations, the warhead section (fig. 1-1) starts at station 1.83. A windshield in the form of a 4-caliber ogive between stations 88 and 17

(c) Block 7-Change title to read: LOT NUMBER. Enter lot number.

(*d*) Block 9-Enter appropriate information.

(e) Section C-Enter appropriate information in columns a through d.

(*f*) Insert organization designation in section B when warhead section is transferred to another organization.

(3) When the DA Form 2409 is completely filled, a copy will be forwarded to the Headquarters, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-DSM-B, Dover, New Jersey 07801-5001. A new DA Form 2409 will be used as a continuation sheet. As each form is filled, a copy will be forwarded to the above address.

h. Data Card. A data card is prepared for each lot of ammunition. The data cards will not physically accompany shipment from the manufacturer, but will be shipped separately. Master data card files will be maintained at Headquarters, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-QAD, Rock Island 61299-6000, and distributed as required. These cards are used to record lot numbers of warhead sections and major components, applicable drawings and other pertinent data (e.g., date of manufacture, National stock numbers, instructions, or remarks).

is behind a conical nose cone ending in a rounded nose. The warhead section, 98.17 inches long, terminates in a cylinder 12 inches long and 22 inches in diameter (max) and weighs 469 pounds. The tangential transition between ogive and cylinder is at station 88; the longitudinal center of gravity is located at station 58. The warhead section contains no explosive or pyrotechnic components; at station 21.92, however, it houses fuze M819E1 within the detachable nose cone (access is afforded by removal of eight studs that hold the nose in place). Provisions are made within the warhead section for installation of DOVAP beacon and battery, a C-Band beacon and battery, and a DOVAP antenna in the nose cone, but these provisions are not covered in this technical manual.

(1) Skin and structure. The structure consists of a welded and bolted aluminum and steel substructure. The substructure is secured through the bulkhead flanges to a steel skin 0.070 to 0.090 inch thick. The aerodynamic skin, assembled from four sections (including nose cone), has breaks at stations 22, 51.5, and 88.

(2) Bulkheads. A bulkhead for fuze mounting,

at station 21.92, is secured to the forward skin. Other bulkheads are located at stations 51.5, 71.5, 88, and 96 to 100. The swing bolts, alignment pins, shear pins, and

electrical connector, which secure the warhead section to the main assemblage at the station 100 interface, are anchored in the aft bulkhead.

Change 1 1-2.1



Figure 1-1. Warhead section M252-exterior view.

c. Painting and Marking. The warhead section is painted with forest green camouflage enamel.

NOTE

Since olive drab enamel is being replaced by camouflage enamel, some warhead sections will be painted in olive drab while others in forest green camouflage enamel. This will be permitted until such time as the use of olive drab is exhausted.

Four 4-inch blue color-coding squares, painted around the circumference of the warhead section 900 apart at stations 94 through 98, identify the item as a practice warhead section containing no explosive. Matchmarks (arrows), to assure correct attachment of the nose cone to the forward bulkhead are stenciled at station 21.92 (fig. 1-2), on top. Arrowheads face tip-to-tip when the nose cone is properly aligned and secured. Sling strap locations are indicated by two sets of two stripes on each side of the warhead section. STRAP is marked between the stripes. Stencilled black lines simulate the outline of access doors actually on the nuclear warhead section. FOR SERVICE PRACTICE ONLY is marked on each side of the warhead section near the forward STRAP. TIE DOWN STRAP, between a pair of parallel stripes, and TOP are marked on the top center line, respectively, at stations 71.5 and 99. OPEN is marked next to the PAL connector cover. Three 1-inch diameter dots one on top and one on each side, are located at station 58. These are to simulate destruct locations on the nuclear warhead section. Nomenclature, M252, lot number, serial number, and gross weight are stenciled parallel to the top center line. White stencil ink is used for all markings on olive drab painted warhead sections, except black stencil ink is used to indicate the access door outlines. On forest green camouflage painted warhead sections all markings are black camouflage enamel, including the access door outlines.

1-4. Fuze M819E1

a. General. Fuze M819E1 (fig. 1-3) is a precision electronic timing device. The design for this fuze was originally developed for the High Explosive tactical warhead section. In this configuration it controls sustainer engine cutoff (SECO) for the Lance missile in flight.

b. Description. Fuze M819E1, modular in construction,



6. Locate markings 180 degrees opert.



Change 2 1-4



Figure 1-3. Fuze M819E1

is encased in a two-piece machined aluminum housing. Bolted together, the two housing sections form a waterproof and radio frequency interference-shielded enclosure. The fuze is bolted to the forward bulkhead at station 21.92 in the warhead section and is accessible through a removable nose cone. On the face of the fuze are six rotary switches: one switch marked SECO (sometimes marked SCO), four EVENT switches, and an ARM switch.

c. Functioning. Only one switch is used in operating a Lance missile with the warhead section. Because there is no warhead event, the SECO (sometimes marked SCO) switch is the only one that needs to be set in operating a Lance missile with the warhead section M252. Operation of the fuze begins at the instant of fire button depression. The fuze provides a switch closure for the missile guidance section which effects sustainer engine cutoff at any one of the 10 fixed time functions shown below:

SECO(or SCO)Setting	SECO Time
N	OFF
Р	55
R	66

SECO (or SCO) Setting	SECO Time
Т	77
U	88
V	99
W	110
Х	120
Y	130
Z	140

Since the warhead section is a practice ballast warhead section, there is no event-the complete missile impacts the ground at the end of its trajectory.

d. Painting and Marking. Olive drab or forest green enamel is used for painting the fuze. Nomenclature and lot number are stamped on an attached plate.

1-5. Shipping and Storage Container M511

a. General.

(1) The warhead section is packed and shipped in reusable container M511 (fig. 1-4). The warhead section is supported by a rubber, resilientmounted suspension frame. The container cover is secured by 22 tee head bolts. Two-way pressure relief valves, which operate automatically, maintain the pressure differential between the container internal



Figure 1-4. Exterior view of M511 shipping and storage container

pressure and external pressure within allowable limits, as, for example, during air transport. By pushing the valve pushbuttons, personnel can equalize internal and external pressure before opening the container. Bolts and associated hardware are provided for stacking the containers. When not in use the stacking bolts are placed in a stowed position on the container base. (2) Included in the container is the equipment maintenance log (DA Form 2409). A desiccant basket is provided for desiccant to dry out excessive interior humidity. A humidity indicator monitors humidity conditions within the sealed container, and indicates desiccant saturation or container puncture or leakage.

b. Description. The M511 (fig. 1-4) is a skidmounted, steel-reinforced, sheet-metal container. (For



Figure 1-5. Shipping and storage container M511 with M22 sling.

ease in handling, the container is equipped with facilities for cover lift, container lift (fig. 1-5), forklift, and tiedown, table 1-1). It consists of a cover assembly and a base assembly in which is installed a resilient-mounted suspension frame assembly that supports and secures the warhead section. The resilient-mounted, steel suspension frame assembly is secured to the sides of the base assembly through resilient rubber mountings. A saddle and holddown strap are attached to the suspension frame assembly at the forward end. The container has combination electronic-shielding and weather-sealing gaskets at interface of cover and base assemblies, as well as on all access covers.

NOTE

Included in the missile mating tool kit are two H4244 open end wrenches (figure C-5) used to disengage all tee head bolts that secure shipping and storage container cover and hold down strap.

The container does not utilize a PAI, cable in shipment and storage of the warhead section.

c. Painting and Marking. Olive drab enamel or forest green (camouflage) enamel is used for painting the container. Serial number and lot number of the warhead section are stencilled on the container with white ink. Six 4-inch blue color-coding squares are painted on the container (fig. 1-6).

Table 1-1. Sling Strap and Cable Use

Unit to he lifted	Equipment used
Warhead section M252.	Straps, Part of beam type sling M22.
Shipping and storage container M511 (beam perpendicular to container	Cables-44-inch (two each at front and rear). Part of
centerline). Cover assembly of container M511.	f beam type sling M22. Cables-44-inch (two each at front and rear). Part of beam type sling M22

1-6. Tabulated Data

i oi l'abalatoa Bata	
Warhead section:	
Weight (with fuze)	469 lb
Length (approx)	98.2 in.
Diameter (max)	2 in.
Fuze M819 Series;	
Length	7.25 in.
Width	5.00 in.
Height.	5.50 in.
Weight	7.0 lb
Setting type	Alpha readout
Activation	Two external signals from
	G&C section
Power source	Two self-contained ammonia
	batteries. 8.3 volts nominal
Explosive	None
Temperature range:	
Operational	-40°F. to +140°F.
Storage	65°F. to +155°F.
Shipping and storage con	tainer
M511 (approximate data)	
Length	, 115.5 in.
Width	36.5 in.
Height	39 in.
Volume	95.2 cu ft
Weight:	
Empty	1000 lb
Loaded:	1469 lb
Beam-type sling M22:	
Weight	62 lb
Length	54 in.
DOT shipping	-
designation	Ammunition
5	nonexplosive

Change 1 1-8



Figure 1-6. Painting and marking--shipping and storage container M511 (1 of 2).

Change 2 1-9



MARKING CHART FOR OLIVE DRAB CONTAINERS						
SEE DETAIL	PART NUMBER	ITEM NOMENCLATURE	NATIONAL STOCK	EXTERIOR	SQUARES	MARKING
•	10246025	WARHEAD SECTION, GM, PRACTICE: LT WT, M252	1336-00-021-4497-\726	OLIVE DRAB NO X34087 ENAMEL TT-E-516	BLUE NO. 35109 TT-E-516	WHITE NO. 37875 STENCIL INK TT-1-1795

MARKING CHART FOR FOREST GREEN (CAMOUFLAGE) CONTAINERS						
SEE DETAIL	PART NUMBER	ITEM NOMENCLATURE	NATIONAL STOCK	EXTERIOR	SQUARES	MARKING
*	10246025	WARHEAD SECTION, GM, PRACTICE: LT WT, M252	1334-00-021-4497-\/726	ENAMEL: FOREST GREEN (CAMOUFLAGE) MIL-E-52798	BLUE NO. 35109 TT-E-516	WHITE NO. 37875 STENCIL INK TT-1-1795

AR 100180-C (2 OF 2)

Figure 1-6. Painting and marking--shipping and storage container M511 (2 of 2)

Section I. SAFETY PRECAUTIONS

2-1. General

The lightweight practice warhead sections and practice fuzes are completely inert items. There is no explosive or nuclear hazard in the handling and use of the warhead sections and components. However, the warhead sections are practice warhead sections, safety precautions peculiar to explosive and nuclear warhead sections shall be observed.

2-2. Safety Precautions

Safety requirements appropriate to storage and handling of conventional explosive-type warhead sections also apply to the practice warhead section. There is no equipment or technique peculiar to the warhead sections.

WARNING

Do not place hands or other parts of body under a suspended load. However, hands may be placed under the suspended load when connecting the two bottom swing bolts of warhead section to main missile assemblage.

a. Adhere strictly to all general safety practices to prevent dropping warhead section.

b. Avoid rough or improper handling of practice warhead section.

c. When using handing equipment or hoist, lift practice warhead section or container no higher than required for operation and keep warhead section suspended no longer than necessary.

d. Keep area around warhead section clear of trash, flammable material, or any other material that could interfere with operational safety and efficiency.

e. The warhead section and container will be handled only with issued or approved equipment. The container is designed to protect the warhead section from damage during shipping, handling, and storage. The warhead section, packed in the shipping container, will be lifted only with equipment approved for use on the Lance System. Refer to TM 9-1410-485-12 and TM 9-1450-486-12 for description of equipment and procedure.

f. Be extremely careful not to damage the ogive and not to strike the fuze or drop any tools or other metal items on the fuze when the ogive is opened.

g. The fuze shall not be removed from the warhead section.

h. When mating or demating, place a block of wood approximately 4 inches X 4 inches X 24 inches between interface surfaces of the warhead section and missile main assemblage when connecting or disconnecting cable.

i. Exercise care, especially during handling, unpacking, and packing, to avoid denting or otherwise damaging a warhead section. A warhead section should be handled only with beam type sling M22, and when removed from container, should be placed on a Lance maintenance stand. Containers will not be tumbled, rolled, dropped, or otherwise roughly handled.

j. Before initiating any operation involving a warhead section, an adequate unit standing operating procedure (SOP) should be prepared. Personnel concerned should be aware of the contents of the unit SOP which will include, as a minimum, the following information.

(1) Specific and general safety requirements applicable to the operation and situation.

- (2) Personnel limits.
- (3) Location and sequence of operations.
- (4) Required equipment.
- (5) Supervisory designations.

k. The following minimum safety requirements must be observed during transport of warhead sections:

(1) Except in an emergency. do not perform maintenance on any vehicle carrying a warhead section.

(2) Prior to loading and unloading operations, set vehicle brakes and block rear wheels on both sides.

(3) Shut down vehicle engine during loading and unloading operation.

(4) Any time a loaded vehicle is stopped, set brakes. On multifuel/diesel vehicles place gear shift in neutral and on gasoline engine vehicles, place gear shift in 1st gear.

I. The following general precautions establish the minimum safety requirements and precautions that must be observed in the use of tools and handling equipment. Prevention of accidents during

mechanical operations is dependent upon proper instruction and training of personnel, adequate maintenance and inspection of equipment, and observation of safety precautions. Lack of proper maintenance and inspection of materiel handling equipment may result in defects which can present a hazardous condition when such equipment is in use.

(1) Defective tools or equipment will not be used.

(2) No item of materiel handling equipment will be used for other than its intended purpose.

Section II. INSPECTION

2-3. General

a. This section outlines inspection procedures required for the warhead section and the shipping and The purpose of the following storage container. inspections is to assure that materiel is acceptable for its intended use:

- (1) Receipt Inspection.
- (2) Premate and Mate Inspection.
- (3) Prefire Inspection.
- (4) Repackaging Inspection.
- b. All rejected material shall be reported for

(3) A warhead section or container will not be left unattended when suspended from a hoist or other elevating mechanism.

m. The area around the storage location or assembly area will be kept clear of loose equipment, tools, trash, flammable materials, or any other material which could interfere with the safety and efficiency of the operation.

n. All tools and equipment will be kept in their proper locations when not in use.

disposition on DA Form 2415 (Ammunition Condition Report) in accordance with TM 38-750.

2-4. Receipt Inspection

a. When a warhead section is received from a supporting unit or when there is a change of custody, the receiving organization will perform a receipt inspection in accordance with Table 2-1.

b. The receipt inspection is a container exterior inspection only. However, containers may be opened, if desired, for internal inspection at the discretion of the unit Commander.

ltem	Inspection	Action to be taken
1. Shipping and Storage Con-	a. Lead seals missing or broken.	a. If defect cannot be accounted for. report
tainer Exterior (fig. 1-4).		defect in accordance with local directives.
	b. Container deformed, punctured, or struc-	b. If damage to warhead section is suspected
	turally damaged.	as a result of damage, reject container and
		contents and report for disposition.
	c. Lift bars/stacking brackets cracked. broken, or loose.	c. Reject container and report for disposition.
	d. Lift handles cracked. broken, or loose.	d. Reject container and report for disposition.
	e. Lift handle clips unserviceable or missing.	e. Straighten; replace.
	f. Markings do not agree with figure 1-6, or illegible.	 f. Touch up; if extensive remarking is required, notify support unit.
	g. Humidity indicator card reads 40 percent	g. Replace card and desiccant.
	section is 30 percent).	
	h. Equipment Maintenance Log (DA Form	
	2409) missing from records container. NOTE	h. Replace.
	Records container does not have wrenches H4244	
	i Quick access cover loose: missing: unserv-	<i>i</i> Tighten: recement or replace gasket:
	iceable.	Replace cover.
	<i>i</i> . Fork lift guides unserviceable.	<i>i</i> . Notify support unit.
	k. Wooden runner (skid) unserviceable.	<i>k</i> .
	(1) a. Cracks up to 5 inches long which	(1) a. Repair
	extend through skid.	<i>b</i> . Torque bolts to 30±5 foot-pounds.
	b. Skid loose.	(2) a and b. Replace.
	(2) a. Cracks more than 5 inches long	
	which extend through skid.	
	b. Skid broken or worn more than 1/3	
	of load bearing surface.	
	Change 1 2-2	

Table 2-1. Receipt Inspection

ltem	Inspection	Action to be taken
 Shipping and Storage Con- tainer Exterior (fig. 1-4). -Continued. 	(3) Cracks which do not extend through skids will be considered season checks and are acceptable.	(3) No action required.
	<i>I.</i> Peeling or inadequate paint, scratches.	 Touch up with present paint color or notify support unit.
	<i>m</i> . Fungus or other foreign material.	 <i>m</i>. Clean. If paint damage is extensive, notify support unit.
	n. Cover (A2J3) missing.	n. Replace.
	 Missing or unserviceable hardware (i.e., tee head bolts, stacking bolts). 	 Replace. Torque stacking bolts to 10 ± 2 foot-pounds with 3/4 inch wrench in stowed position.
	p. Corrosion.	p. Clean and touch-up with present paint color. If extensive, notify support unit.
	 <i>q</i>. Defective welds on lift handle vertical flanges near lift handle (i.e., cracked, visible holes, or length of weld too short). NOTE 	<i>q</i> . Notify support unit.
	Does not include weld on sealing	
	flanges. See figure 4-2.	
	 Records container cover loose; cover disk or gasket missing, loose, or unserviceable. 	 r. Tighten; replace. Replace disk with gasket.
	s. Humidity indicator plug/card unserviceable.	s. Replace.
	t. Pressure equalizing valve(s) damaged.	t. Replace.
	u. Desiccant access cover loose.	 Tighten. Inspect shielding gasket; re- cement or replace.

Table 2-1. Receipt Inspection-Continued

2-5. Premate and Mate Inspection

Before a container is opened for the purpose of removing a warhead section for mating to the missile main assemblage, the using organization will perform inspection of item 1 in Table 2-2, Premate and Mate Inspection. The container will then be opened to accomplish the inspection of item 2 of Table 2-2. Perform touch-up of warhead section and correction of sling marks as time permits.

ltem	Inspection	Action to be taken
 Shipping and Storage Con- tainer Exterior (fig. 1-4). 	 Lead seals missing or broken. defect in accordance with local directives. 	a. If defect cannot be accounted for, report
	 b. Container deformed, punctured, or struc- turally damaged. 	b. If damage to warhead section is suspected as a result of damage, reject container and contents and report for disposition.
2. Warhead Section.	 Markings do not agree with figure 1-2; or illegible. 	 a. Touch up; if extensive remarking is required, notify support unit.
	b. Sling strap locations incorrect (fig. 1-2).	b. Correct.
	c. Punctures.	 c. Reject warhead section and report for disposition.
	d. Dents in nose cone.	d. Replace.
	e. Nose cone studs loose, or missing.	e. Tighten; replace.
	f. Dents in skin beyond nose cone which ex- ceed either 3/16 inch deep or 6 inches long.	 Reject warhead section, and report for disposition.
	g. Swing bolts or swing bolt covers (station 100) unserviceable, missing, or loose.	 g. Replace; torque swing bolt cover screws to 25 ± 5 inch-bounds.
	 Alignment and shear pins loose, missing, or unserviceable. 	h. Tighten; replace.
	<i>i</i> . Bulkhead (station 100) punctured or deformed.	<i>i</i> . Reject warhead section and report for disposition.
	<i>j.</i> Connector cover (station 100) missing or unserviceable.	j. Replace.
	k. Connector (station 100) unserviceable.	 k. (1) Straighten bent pins; (2) Reject warhead section and report for disposition.

Table 2-2. Premate and Mate Inspection

ltem	Inspection	Action to be taken
	 <i>I</i>. Aft RF seal (station 100) loose or unserviceable. <i>m</i>. PAL connector cover loose, damaged, or missing. <i>n</i>. PAL connector cover cannot be seated and/ or secured. 	 Notify support unit. Inspect seal; replace if unserviceable Tighten cover to matchmark with 1/4-inch square drive wrench. Replace.

2-6. Prefire Inspection

When a warhead section is mated to the missile main assemblage and in location for firing, the firing crew will perform a prefire inspection in accordance with table 2-3.

ltem	Inspection	Action to be taken
 Warhead section; nose cone removed. 	a. Fuse M819E1 damaged.	 Demate and reject warhead section. Report for disposition in accordance with TM 38-750.
	 b. SECO (sometimes marked SCO) dial damaged or stuck (Knob locking latch opened). c. Fuse loose. 	 b. Demate and reject warhead section. Report for disposition in accordance with TM 38-750. c. Tighten four cross slotted screws to 20 to 25 inch-pounds.
	d. Nose cone dented.	d. Replace.
2. Warhead section; nose cone	a. Punctures. installed.	 Demate and reject warhead section. Report for disposition,
	 b. Warhead section visibly out of concentricity. for disposition. 	b. Demate and reject warhead section. Report
	 Nose cone improperly attached; any one of eight studs loose or missing. 	c. Replace; tighten studs.

Table 2-3. Prefire Inspection

2-7. Repackaging Inspection

If a warhead section is demated and repackaged, a twophase inspection is required, Initially, the container and demated warhead section are inspected prior to repacking. Then, the closed container is inspected. Repackaging inspection is conducted in accordance with table 2-4.

Table 2-4.	Repackaging	Inspection
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ltem	Inspection	Action to be taken
1. Shipping and storage con- ner inteior (fig. 3-4).	 Container cover shielding gasket loose or unserviceable. 	a. Recement or replace.
	b. Container cover alignment pins (2) bent,	b. Straighten.
	 c. Container cover alignment pins (2) missing or broken. 	c. Notify support unit,
	d. Cushioning pads unserviceable / missing	d. Repair; replace.
	 e. Drain plug(s) loose or missing. 	e. Tighten; replace. Torque to 25 +3 foot-pounds.
	f. Suspension frame assembly unserviceable.	f. Reject container and report for disposition
	 g. Resilient mounts for suspension frame as- sembly unserviceable. 	g. Notify support unit,
	h. Support plate loose.	h. Torque to 30 ± 5 foot pounds.
	<i>i</i> . Peeling or inadequate paint. NOTE	<i>i</i> . Touch up or notify support unit.
	Do not inspect hardware box or	
	adjacent brackets.	
	<i>j</i> . Fungus, or other foreign material.	 J. Clean. If paint damage is extensive, notify support unit.
	 k. Nonmetallic channel under holddown strap or on saddle damaged or missing. 	k. Replace.
	I. Corrosion.	<i>I</i> . Clean and touch-up. If extensive notify support unit.

ltem	Inspection	Action to be taken	
Item 2. Warhead section. 3. Shipping and Storage Container Exterior (fig. 1-4).	 Inspection a. Markings do not agree with figure 1-2 or 1-3, or illegible. b. Sling strap locations incorrect (fig. 1-2). c. Punctures. d. Dents in nose cone. e. Dents in skin beyond nose cone which exceed either 3/16-inch deep or 6-inches long. f. Swing bolts or swing bolt covers (station 100) unserviceable, missing, or loose. g. Alignment and shear pins loose, missing, or unserviceable. h. Bulkhead (station 100) punctured or deformed. i. Connector cover (station 100) unserviceable. j. Connector (station 100) unserviceable. j. Connector (station 100) loose or unserviceable. j. Connector cover loose, damaged, or missing. m. PAL connector cover cannot be seated and / or secured. n. Fungus or foreign material. o. Peeling or inadequate paint. p. Rust or corrosion. q. Scratches. a. Lead seals missing or broken. b. Container deformed, punctured, or structurally damaged. c. Lift bars/stacking brackets cracked, broken, or loose. d. Lift handles cracked, broken, or loose. d. Lift handles cracked, broken, or loose. e. Lift handles cracked, broken, or loose. d. Lift handles cracked, broken, or loose. e. Lift handles cracked, broken, or loose. d. Lift bars/stacking brackets cracked, broken, or loose. e. Lift handles unserviceable or missing. f. Markings do not agree with figure 1-6 or illegible. g. Equipment Maintenance Log (DA Form 2409) missing from records container. (Note-Records container does not have wrenches H4244.) h. Quick access cover loose, missing; unserviceable. i. Forklift guides unserviceable. j. Wooden runner (skid) unserviceable. j. Wooden runner (skid) unserviceable. j. Skid loose. (2) a. Cracks more than 5 inches long which extend through skid. b. Skid loose. (3) Cracks which	 Action to be taken a. Touch up; if extensive remarking is required, notify support unit. b. Correct. c. Reject warhead section, and report for disposition. d. Replace. e. Reject warhead section and report for disposition. f. Replace; torque swing bolt cover screws to 25 ±5 inch-pounds. g. Tighten; replace. h. Reject warhead section and report for disposition. i. Replace. j. (1) Straighten bent pins; (2) Reject warhead section and report for disposition. k. Replace. j. (1) Straighten bent pins; (2) Reject warhead section and report for disposition. k. Notify support unit. l. Inspect seal; replace if unserviceable. Tighten cover with 1/4-inch square drive wrench. m. Replace. n. Clean. If paint damage is extensive, no tify support unit. o. Touch up with present paint color, or notify support unit. p. Clean and touch up with present color extensive, notify support unit. g. Touch up with present paint color. a. Replace. b. Reject container and report for disposition. c. Reject container and report for disposition. e. Straighten; replace, f. Touch up; if extensive remarking is required, notify Support Unit. g. Replace. h. Tighten. Recement or replace gasket. Replace cover. i. Notify Support Unit. j. i. Torque bolts to 30 ± 5 foot-pounds. (2) a and b. Replace. 	
		support unit.	

ltem	Inspection	Action to be taken
 Shipping and Storage Con- tainer Exterior (fig. 1-4). -Continued 	 Fungus, or other foreign material. <i>m</i>. Corrosion. Cover (A2J3) missing. Missing hardware (i.e., tee head bolts, stacking bolts). Defective welds on lift handle vertical flanges near lift handle (i.e., cracked, visible holes, or length of weld too short) (Note: Does not include weld on sealing flanges). See figure 4-2. Records container cover loose; cover disk or gasket missing, loose, or unserviceable. Pressure equalizing valve(s) damaged. Desiccant access cover loose. 	 Clean. If paint damage is extensive, no- tify support unit. Clean and touch up with present paint color. If extensive, notify support unit. Replace. Replace. Torque stacking bolts to 10 ± 2 foot-pounds with 3/4 inch wrench. Notify support unit. q. Tighten; replace. Replace disk with gasket. r. Replace. s. Replace. t. Tighten. Inspect shielding gasket; re- cement or replace.

Table 2-4. Repackaging Inspection--Continued

Section III. PREPARATION FOR USE

2-8. General

This section contains procedures for unpacking the warhead section from the shipping and storage container and mating it to the missile main assemblage.

2-9. Unpackaging Warhead Section From Container (fig. 2-1)

a. (Receipt Inspection Perform receipt inspection (table 2-1), if required.

b. Shipping and Storage Container. Open shipping and storage container, as follows:

(1) Inspect container in accordance with table 2-2, item 1.

(2) Remove metallic seals, if present.

(3) Depress buttons on pressure relief valves to equalize pressure.

(4) Release side tee head bolts, then end bolts, that secure container cover to base. Each bolt is released by turning tee head counterclockwise 90 degrees with wrench H4244 until bolt falls into slot in container cover assembly, or by loosening nuts underneath with a 3/4-inch socket wrench until bolts can easily be turned 90 degrees.

CAUTION

Use extreme care when removing container cover assembly to avoid damaging warhead section. When container is moved with hoist and sling, use lifting bars on sides of

and sling, use lifting bars on sides of base assembly. Do not use cover lift bars on cover assembly to lift container.

NOTE

If desired, the container cover may be manually removed, using four or more individuals. If so accomplished, proceed to (6) below.

(5) Using beam type sling M22, (fig. 2-2), position sling over container and perpendicular to container's length. Connect sling to hoist or other suitable lifting device. Attach four sling cables (44 inch) to four cover lift bars and remove container cover by lifting straight up until cover is clear of warhead section. Place cover on dunnage out of immediate work area and retain for future use.

(6) Using wrench H4244, turn four tee head bolts holding holddown strap to suspension frame saddle by rotating away from warhead section.

Remove holddown strap.

(7) Perform as much of premate and mate inspection as is practical (Table 2-2, item 2, a thru f, m and n).

c. Attaching Beam Type Sling to Warhead Section.

(1) Prepare sling for attachment to warhead section by installing sling straps and guide lines on sling beam (fig. 2-1).

(2) Lower sling until beam is slightly above warhead section. Loop two sling straps under warhead section, aligning rear strap between aft strap location marks. (Rear strap is the strap with only one connector loop.) Align forward strap between forward strap location marks. (Forward is the strap with two connector loops.)
(3) Position two sling straps in proper positions around warhead section as follows:



Figure 2-1. Removing warhead section from container.

(a) Connect rear strap loop-to buckle by pulling inside part of strap with buckle over the top of the warhead section to make connection. Position .straps so that buckle is at the side of the warhead section.

(b) Connect forward strap in the second connector loop of strap, resulting in a smaller of the available diameters. Ensure both straps are located at their appropriate markings on the warhead sections (fig. 2-1).

d. Removing Warhead Section from Container.

CAUTION

Do not continue to loosen swing bolt nuts after stop pin has been reached or nut will become locked over stop pin.

(1) Loosen the swing bolt assembly nuts with a 12 point, 13/16 inch, deep socket wrench in the following order: Loosen nut on each of two swing bolts at top of station 100 to stop pin. Swing each bolt outward into fully extended position. Then loosen nut on each of two bottom swing bolts at station 100 to stop pin. Swing each bolt outward into fully extended position.

(2) Apply more tension oil sling so that warhead section can be moved forward. This will

disengage warhead section pins from container support plate.

WARNING

While removing a warhead section from a container, do not place hands or other parts of body under a suspended warhead section.

(3) Lift warhead section clear of container.

(4) Complete inspection of warhead section in accordance with Table 2-2, item 2. a and c thru I.

2-10. Mating Warhead Section to Missile Main Assemblage

NOTE

The firing platoon commander is required to have in his possession a protective cover and flag assembly from the 1A1J1 cable connector for each mated missile in his platoon.

a. Mate warhead section to missile main assemblage in accordance with procedures given in TM 9-1410-485-12.

b. Repackage empty container in accordance with paragraph 2-16 as soon as tactically possible.



Figure 2-2. Beam-type sling M22.

Section IV. PREPARATION FOR FIRING

2-11. Fuze Setting

a. Remove nose cone by unscrewing eight studs which attach it to warhead section.

CAUTION

Do not damage the two DOVAP cable connectors which extend from the fuze mounting bulkhead. (These cables are for special instrumentation and are not required for a normal practice firing.)

b. Conduct prefire inspection (table 2-3, item 1) on warhead section.

NOTE

Window in fuze is nonoperational. This fuze does not arm.

c. Pull out knob locking latch to release setting knobs.

NOTE

The four knobs marked EVENT and the knob marked ARM have no

function on the fuze. These knobs will normally be set and left in the 000.0 and 80 positions, respectively, although this is not mandatory.

d. Set fuze to desired SECO (or SCO) time by selecting one of 10 letters; as directed. Close knob locking latch.

e. Reinstall nose cone by placing over fuze mounting bulkhead and aligning white arrow matchmarks. Install eight studs with screwdriver, until tight.

f. Conduct prefire inspection (table 2-3. item 2).

2-12. Change in Target Requirement

In case of a change of target which would effect SECO (or SCO) time, the fuze setting may be changed at any time prior to firing.

2-13. Safing Warhead Section

a. General. The warhead section, being inert, does

not have to be "safed" in the conventional sense of the term, but to be consistent with its practice function, a safing procedure will be performed subsequent to the following occurrences:

- (1) Cancelled firing.
- (2) Traverse limited/change fire.
- (3) Cease fire march order.
- (4) NC-GO.
- (5) Misfire.
- (6) Hangfire.

b. Procedures. Procedures applicable to a mated missile in the event of one of the above occurences are described in TM 9-1425-485-10-2, safe warhead section as prescribed below.

2-14. Demating Warhead Section

Demate warhead section from missile main assemblage in accordance with procedures outlined in TM 9-1410-485-12.

2-15. Repackaging Warhead Section

a. Inspect warhead section and container in accordance with table 2-4. Insure container is clean and dry.

b. With warhead section in sling M22, suspend warhead section above container.

CAUTION

Care should be taken in loosening swing bolt assembly nuts so that nuts are not backed over stop pins.

c. Loosen the four swing bolt nuts on warhead section to the stop pins to facilitate repackaging.

d. Swing the four swing bolts all the way out.

e. Lower the warhead section into position until shear pins and alignment pins can be guided into the holes of the support plate. Engage top two swing bolts into the slots in the support plate and tighten until station 100 of warhead meets support plate. Lower the nose of the warhead into the container saddle. Engage and secure bottom two swing bolts.

f. Torque all swing bolt nuts to 75 ± 5 foot-pounds. Any pair of nuts diametrically opposed can be torqued first, followed by torquing of remaining pair.

g. Remove M22 sling.

h. Place holddown strap across warhead section and secure with four tee head bolts. Turn and tighten the four tee head bolt nuts to 30 ± 5 foot-pounds with 3/4-inch socket wrench. Any pair of nuts diametrically opposed can be torqued first, followed by torqueing of remaining pair.

i. Place 64 units of fresh or reactivated desiccant into desiccant basket. Assure that base assembly flange is free of foreign material.

(1) Remove nose cone.

(2) Reset fuze SECO (or SCOT to letter N (off). Close knob locking latch.

(3) Reinstall nose cone in accordance with paragraph 2-11e.

c. Fuze Replacement. In the event of a misfire or hangfire, power supplied to the missile may have activated fuze batteries and caused the batteries to be expended. Do not attempt to refire the affected warhead section, except as authorized by TM 9-1425-485-10-2. Demate the affected warhead section and report for disposition in accordance with DA Pam 738-750.

Section V. REPACKAGING AND INSPECTION

j. Replace humidity indicator card.

k. Install container cover assembly and turn all tee head bolts to lock position.

I. Torque the 22 tee head bolt nuts to 35 ± 5 footpounds. Two individuals should accomplish this, starting in opposite corners, and working around the container in the same direction. If desired, this may be accomplished by four individuals (two pairs). In each pair, one individual shall use an H4244 wrench to hold the top of the teehead bolts while the other individual torques the nut.

m. Install lead seals on container as required (fig. 1-4).

n. Apply a thin coat of primer (TT-P-664) to exposed threads of the tee head bolts.

o. Perform repackaging inspection (table 2-4) on container.

2-16. Repackaging Empty Container

a. Install hold down strap using H4244 wrench and a socket wrench, torque four tee head bolts to 5 to 10 foot-pounds.

b. Assure that container cover flange is free of foreign material.

c. Perform 2-15*k* and *l* above, except torque each nut to 5 to 10 foot-pounds.

d. Apply a thin coat of primer (TT-P-664) to exposed threads of tee head bolts.

e. The using unit shall tag container in such a manner that is readily 'identified as an empty container. Do not obliterate markings on exterior of container. Do not remove tag if empty container is to be returned to the ordnance support unit.

f. Upon receipt of an empty container from a using unit, the support unit shall remove tag and apply markings in accordance with figure 1-6.

CHAPTER 3

ORGANIZATIONAL MAINTENANCE

Section I. REPAIR PARTS, TOOLS, AND EQUIPMENT

3-1. General

Repair parts, tools, and equipment are issued to the using unit for operating and maintaining the warhead section. Tools and equipment should not be used for purposes other than those prescribed and, when not in use, should be stored properly. The use of unauthorized tools and equipment could damage the materiel. When using a torque wrench or torque screwdriver do not select a wrench or screwdriver that requires torque values to be read below 20 percent of the full scale value.

3-2. Repair Parts

Repair parts are supplied to the using organization for replacement of those parts that become worn, broken, or otherwise unserviceable, provided replacement of these parts is within the scope of organizational maintenance. These repair parts are listed in appendix C, which is the authority for requisitioning.

3-3. Common Tools and Equipment

Standard and commonly used tools and equipment having general application to the warhead section are authorized for issue by tables of organization and equipment or by tables of allowances.

3-4. Special Tools and Equipment

a. Tools. Special tools and equipment authorized for issue to using unit personnel for use with the warhead section are listed in appendix C. The authority for requisitioning are the tables of organization and equipment and appendix C. A brief description of the Lance maintenance stand is given below. *b.* Lance Maintenance Stand. The Lance maintenance stand (fig.C-6) may be used to support the warhead section for maintenance work. It is fabricated locally, of wood, by the supporting unit.

c. Beam-Type Sling M22.

(1) The beam-type sling M22 is a multipurpose piece of hoisting equipment used in conjunction with either the loader transporter or the tripod hoist. The sling consists of an aluminum-alloy beam assembly, two strap assemblies, and removable cables on either end of the beam assembly.

(2) The strap assemblies are used for lifting warhead sections, missile main assemblages, or complete missile rounds. One strap assembly is adjustable and the other is of a noose-type construction, which functions by tightening as lifting force becomes greater. The noose-type strap assembly will prevent load slippage in the event the sling beam is not positioned directly over the center of gravity (CG) of an item being lifted.

(3) Six 16-inch and four 44-inch removable cables are included with each sling. The cables are used in various combinations with each other, depending on the item to be lifted, and are used to lift main assemblage containers, warhead section containers, or the basic launch fixture.

(4) Either olive drab enamel or forest green camouflage enamel is used for painting the sling. Serial No., Stock No., Part No., Contract No., and the letters, US, appear on a metal decal on the front of the beam; a white stencil on the back indicates the load test.

Section II. MAINTENANCE INSTRUCTIONS

3-5. General

a. Maintenance functions prescribed for the warhead section and container M511 are authorized in the Maintenance Allocation Chart (App. B).

b. Some repairs may be performed on the warhead section while it is resting on the suspension frame assembly of the shipping and storage container (cover removed). These repairs include those which are performed on the upper, more accessible, part of the warhead section. Other repairs may require removal of warhead section to a Lance maintenance stand (fig. C-6). Warhead section may be rotated, if necessary, in sling before placing on stand.

c. Perform unpackaging and repackaging procedures in accordance with chapter 2, as applicable.

3-6. Expendable Materials

Expendable materials authorized for painting, cleaning, preserving, and other maintenance related operations for the warhead section and the shipping and storage container are listed in appendix D.

3-7. Removal/Replacement of Swing Bolts and Bolt Covers

a. Remove two screws from bolt cover and remove cover (fig. 3-1).

b. Remove bolt from its recess.

c. Assemble serviceable washer, nut, pin, and bolt; insert assembled bolt into its recess.

d. Install serviceable bolt cover and secure with two screws. Torque screws to 25 ± 5 inch-pounds.

3-8. Removal/Replacement of Shear Pins and Alignment Pins (Headless Shoulder Pins)

Remove or install pins as shown in figure 3-2. Install until pin is tight. Assure pin is fully seated.

3-9. Removal/Replacement of Nose Cone

a. Removal.

CAUTION

Do not damage the two DOVAP cable connectors which extend from the fuze mounting bulkhead.

Remove nose cone from warhead section by removing the eight studs.

b. Installation. Secure replacement nose cone and place over fuze mounting bulkhead. Install eight studs with screwdriver until tight. Nose cone may have to be rotated for all eight holes on nose cone to align with stud receptacles on fuze mounting bulkhead.

c. Painting. Paint arrow on top of nose cone to align with that on warhead section (fig. 1-2).

3-10. Connector 1A1J1 at Station 100 CAUTION

To prevent possible electrostatic damage to the warhead section fuze, the connector pins must not be touched, except with a nonconducting, non-metallic tool or through the insulated handles of the authorized smooth jaw needle nose pliers.

a. Carefully straighten bent electrical connector (pin(s) using smooth jaw needle nose pliers.

b. Pins may be straightened without regard to number bent, providing correct mating or connector results.

c. Reject warhead section if pins are broken or missing.

3-11. Cleaning and Painting

a. Remove foreign material in accordance with table 3-1.

b. Touch up warhead section paint and/or markings in accordance with instructions in figure 1-2.



Figure 3-1. Removal/replacement of swing bolts and bolt covers.

Apply metal pretreatment and primer coating to exposed bare metal. Different shades of paint are permitted provided specification requirements are met. c. If warhead section requires extensive painting or remarking, notify support unit.

l able	3-1.	Cleaning.	

- -

WARNING			
Use toluene only in a ventilated area.			
Foreign material	Cleaning method		
Rust and Corrosion.	Use abrasive cloth, paper, or wire brush until bright metal surfaces are exposed. Prevent particles from entering interior areas. Wipe surfaces with a clean cloth moistened with cleaning compound.		
Adhesive, rubber sealing compound, grease and oil on unpainted surfaces.	Use a clean cloth moistened with cleaning compound. Remove adhesive or rubber sealing compound using a clean cloth moistened with toluene.		
Mud, salt water, grease, or oil on painted surfaces.	Use a soft clean cloth moistened with detergent and water. Avoid getting water or detergent in interior areas.		
Fungus.	Use a clean cloth moistened with alcohol and water solution (60 to 70 percent alcohol).		





Section IV. SHIPPING AND STORAGE CONTAINER

3-12. Removal/Replacement of Humidity Indicator Card/Plug

a. Depress buttons on pressure equalizing valve to vent container.

b. Replace humidity indicator card/plug in accordance with c through j and figure 3-3.

c. Using a 1 3/8-inch socket wrench, rotate indicator housing counterclockwise until it is free of container.

d. While holding indicator housing, insert a 1/2inch hexagon head wrench in retaining ring. Turn retaining ring counterclockwise until it is free of indicator housing. Remove retainer ring.

e. Remove all components from humidity indicator

plug as shown in figure 3-3.

f. Inspect packing, window, washer (nonmetallic), shield, washer, ring, and gasket. If any of these components is unserviceable, replace the plug.

g. Place packing and window in housing. Install new humidity indicator card.

h. Reassemble humidity indicator plug in accordance with figure 3-3. Tighten retaining ring to 75 \pm 5 inch-pounds torque. Install humidity indicator plug in container and torque to 22 \pm 2 foot-pounds.

i. Allow 24 hours for humidity indicator to stabilize after closing container.

3-13. Removal/Replacement of Pressure Equalizing Valves

a. Depress buttons on pressure equalizing valves to vent the container.

b. If container cover is installed, remove desiccant access cover (fig. 3-4) on which valves are installed.

c. Using 1 3/8-inch wrench, rotate head of valve counterclockwise until it is free of desiccant access cover.

d. Assure that replacement valve gasket is serviceable. Install replacement valve and gasket in desiccant access cover and tighten. Tighten nuts and washers on inner side of desiccant access cover. Torque valve nut to 135 ± 5 inch-pounds.

e. Install desiccant access cover. Secure cover with 10 nuts and washers. Torque diagonally opposed nuts to 135 ± 5 inch-pounds. Install two lead seals.

3-14. Removal/Replacement of Container Desiccant

a. Depress buttons on pressure equalizing valves to vent the container.

b. Remove desiccant access cover with 1/2-inch wrench to gain access to desiccant basket (fig. 3-4).

c. Remove and replace desiccant with fresh desiccant (eight 8-unit bags or equivalent).

d. Install desiccant access cover and secure with 10 nuts and washers. Torque diagonally opposed nuts to 135 ± 5 inch-pounds. Install two lead seals in opposite corners of flange where holes are provided.

3-15. Removal/Replacement of Tee Head Bolts

This procedure is applicable to 22 tee head bolts that secure container cover, as well as four tee head bolts that secure saddle holddown strap (fig. 3-4).

a. Using wrench H4244 and a 3/4-inch socket wrench, remove nut and washers from tee head bolt; remove bolt.



Figure 3-3. Removal/replacement of humidity indicator card/plug.

Change 1 3-4

b. Install replacement tee head bolt.

c. Install flat washer, lock washer, and nut on tee head bolt.

3-16. Recementing/Replacement of Shielding Gaskets

WARNING

Use of gloves is required. Fine wire mesh imbedded in gasket surface may injure hands. Use toluene only in a ventilated area.

a. Using nonmetallic tool, remove shielding gasket from its seating groove (fig. 3-4).

b. Using nonmetallic tool, clean old adhesive from groove and gasket surfaces. Use clean cloth moistened with toluene to complete cleaning process. Do not

permit toluene to contact any more painted surface than is necessary.

c. Apply adhesive to groove and adhering surfaces as follows:

(1) When installing shielding gasket on flange of container, apply adhesive to a 2-inch area, spaced at 14-inch intervals, along groove and adhering surfaces.

(2) When installing shielding gasket on desiccant access cover opening, apply adhesive to all groove and adhering surfaces.

d. Carefully fit gasket in groove and press firmly into place. Using clean cloth moistened with toluene, wipe away excess adhesive while still tacky (within 15 minutes).

e. Allow at least 6 hours drying time before in



Figure 3-4. Open shipping and storage container M511.

stalling the associated cover.

WARNING Use toluene only in a ventilated area.

3-17. Replacement of Nonmetallic Channel

a. Using nonmetallic tool, remove channel from hold-down strap and/or saddle (fig. 3-4).

b. Using nonmetallic tool, clean out old adhesive if present from adhering surfaces. Use clean cloth moistened with toluene to complete cleaning process.

c. Place long nonmetallic channel (9248698-1) on the saddle and assure that the ends extend equally above the saddle edge.

d. Place short nonmetallic channel (9248698-2) on the hold-down strap and assure that the ends are recessed equally at both ends.

3-18. Removal/Installation/Repair of Container Quick Access Cover

a. Depress buttons on pressure equalizing valves to vent the container.

b. Loosen cover (fig. 1-4) by striking handle in a counterclockwise direction with a suitable object. Rotate handle fully counterclockwise and remove cover.

c. Using nonmetallic tool, remove special rubber seal gasket from quick access cover and clean old adhesive from adhering surfaces. Use clean cloth moistened with toluene to complete cleaning process.

d. Apply adhesive to adhering surfaces and fit gasket carefully into access cover and press firmly into place. Wipe away excess adhesive using clean cloth moistened with toluene.

e. Reinstall cover on container. Turn handle clockwise until initial seating is accomplished. Then, further tighten cover, from three-quarter to one turn, by striking handle, if required, with suitable object. Install lead seal.

3-19. Repair of Wood Runner (Skid)

Repair skid by driving corrugated fasteners crosswise to the splits, spaced no less than 1 inch apart along the length of split. Do not install fasteners on sliding surface of skids.

3-20. Removal/Replacement of Wood Runner (Skid)

Remove or install skid in accordance with figure 3-5. Torque bolts to 30 \pm 5 foot-pounds using 1 1/4-inch wrench. If countersink in bottom of skid is 1 1/8 \pm 1/32



Figure 3-5. Removal/replacement of wood runner(skid).

inch deep, add washers under nut, as necessary, to assure nut will not seat on unthreaded portion of screw.

3-21. Removal/Replacement of Cushioning Pad

a. Pull upper edge of cushioning pad from flange of suspension frame assembly to gain access to attaching hardware (fig. C-4). Remove exposed screw, nuts, and washers. Remove pad.

b. Install serviceable cushioning pad with screws, nuts, and washers and torque to 10 ± 2 inch-pounds using 7/16-inch wrench. Snap upper edge of pad over flange of suspension frame assembly.

3-22. Cleaning

Remove foreign material in accordance with applicable procedures outlined in table 3-1.

3-23. Painting

a. Touch up container paint and/or markings in accordance with instructions in figure 1-6.

b. Apply one coat of metal pretreatment coating to exposed bare metal and allow to dry. Apply one coat of primer over metal pretreatment coating. Allow primer to dry. Apply two coats of enamel over primer coating. Different shades of paint are permitted provided specification requirements are met. c. If container requires extensive painting or remarking, notify support unit.

3-24. Removal/Installation of Records Access Cover Disk or Gasket

WARNING Use toluene only in a ventilated area. NOTE

Some records access covers have a gasket made of a solid disc of rubber 1/16 inch thick by 4 inches diameter. This is being replaced by the gasket shown in figure 3-6.

a. If records access cover has disk installed, remove disk from cover. Remove old adhesive with toluene; clean surfaces; and refinish surfaces of cover, as required. If gasket is installed on records container, remove gasket.

b. Install gasket on records container in accordance with figure 3-6.

c. Install records container access cover. Put a washer and wing nut on the studs and stake end of studs so that the wing nut will not come off easily.



Figure 3-6. Removal/installation of records access cover gasket.

3-25. Straightening of Container Cover Alignment Pins Straighten bent pins by carefully tapping with a hammer.

4-1. Shipment

a. Shipment of warhead sections will be in accordance with TM 9-1300-206.

b. Tie down warhead sections in M511 containers on Air Force aircraft in accordance with AF TO 1C-C130A-16 or AF TO 1C-C141A-16.

c. Lift warhead sections in M511 containers by helicopter in accordance with TM 55-1425-485-15-1.

4-2. General Storage

a. This paragraph provides information pertaining to storage of the warhead section. Refer to TM 9-1300-206 for general storage information.

b. A warhead section is stored in a completely assembled configuration in the shipping and storage container M511.

c. A warhead section that is mated to the main assemblage is considered as being in storage unless the missile is being prepared for immediate firing or for transportation to firing position.

d. When stacking M511 containers (empty or loaded) in open storage, install stacking bolts as shown in figure 4-1. Torque nuts to 36 ± 3 foot-pounds. When stacking bolts are not used to secure containers together, install on container base, as shown in figure 4-1. Torque nuts to 10 ± 2 foot-pounds.

e. Containers that contain a warhead section will be stacked no more than two high.

4-3. Storage Monitoring

a. Storage monitoring is a periodic inspection of major items in stockpile or operational storage to determine if container and contents are serviceable.

b. The frequency of storage monitoring may be varied to suit operational considerations provided that the period does not exceed 12 months.

c. Inspect for damage and adequacy of markings. If markings are illegible, remark in accordance with figure 1-6. If damage has occurred which may affect warhead section, notify the supporting unit.

d. Inspect seven lead seals on access covers of container. If any seal is missing or broken and the defect cannot be accounted for, report defect in accordance with local directives.

e. Perform a humidity check (table 2-1). If humidity indicator card and desiccant require replacement, perform storage inspection (para 4-4) and record action on Equipment Maintenance Log (EML). f. Place EML and associated records ill records container

g. Secure records container cover and install lead seals.

4-4. Storage Inspection.

a. Storage inspection, performed once a year or on special occasions, is a continuing program of inspection to assure that warhead sections and their components will function within specified requirements.

b. An equal number of samples will be selected from upper, central, and lower tiers when containers are stored in this fashion.

c. Controls will be established (i.e., lot and serial number recording) to assure that same warhead section is not utilized as a sample during subsequent storage inspections until all warhead sections in storage location have been subjected to this inspection.

d. Definitions.

(1) *Critical defect.* A defect which could result in hazardous or unsafe conditions for individuals using or maintaining the warhead section, or which could prevent function of the warhead section.

(2) *Major defect*. A defect other than critical which could result in failure or in significant reduction of the intended performance of the warhead section.

(3) *Minor defect.* A defect which could not significantly reduce the intended performance of the warhead section and is not considered essential to repair but only desirable to repair except that minor corrosion should be removed as soon as possible.

(4) *Visual inspection.* To take note of listed defects and any other obvious abnormalities (e.g., deformation, missing part, etc.)

(5) *Manual inspection*. To inspect by moving the part by hand to determine presence of listed defects (e.g., looseness, stiffness, weakness, etc.)

(6) *Gage inspection* To check with a measuring instrument or a standard mating piece to determine whether size is acceptable in specified areas.

(7) *Inspection lot.* Inspection lots will be formed by placing serial numbered warhead sections on hand into homogeneous lot, not to exceed 100 warhead sections. Lots will consist of items with identical stock numbers, manufactured under similar conditions and stored under similar conditions and time periods.

e. Procedures.



Figure 4-1. Installation of stacking bolts on container M511.

(1) Sample size and acceptance criteria shall be per table 4-1.

(2) Inspection shall be in accordance with classification of defects and inspection method listed in table 4-2.

(3) Instructions in paragraph 2-9 will be used for removal of warhead sections from containers. Lower part of warhead section will be inspected while the warhead section is suspended. Do not stand under suspended warhead section. Warhead section will then be placed on a Lance Maintenance Stand (fig. C-6) prior to inspecting upper portion of warhead section and interior of container.

(4) Open nose cone in accordance with paragraph 2-1; open knob locking latch and rotate SECO (or SCO) knob. Leave knob in N (off) position. Close knob locking latch and reinstall nose cone. Nose cone should not be loose.

(5) Repack warhead section into container in accordance with paragraph 2-15.

(6) Remove EML from records container and record inspection.

(7) Replace EML in records container and install lead seals.

f. Disposition instructions.

(1) Serviceable samples will be returned to the parent lot.

(2) All items found with critical or major defects will be repaired before being returned to the lot, or reported to higher authority if repair is not within the capability of the unit.

(3) All items found with minor defects should be repaired before being returned to the lot, but may be used if repair is not immediately practicable.

Table 4-1.	Sample Sizes and	d Acceptance	Number for	Defectives
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			Major	defects	
Number warhead sections in lot	Sample size	Critical defects (Note 1)	A (Notes 2, 4)	B (Notes 3, 4,5)	Minor defects (Note 4)
2-8	2	0	0	0	1
9-15	3	0	0	0	1
16-25	6	0	0	0	1
26-50	8	0	0	1	2
51-90	13	0	1	1	3
91-100	20	0	1	2	5

NOTE

1. If this criteria is exceeded, a 100% inspection of the lot shall be made for critical defects.

2. Major A acceptance number is the maximum number of mechanical (manual or gage) or electrical inspection failures permitted in the sample, which will cause missile failure.

3. Major B acceptance number is the maximum number of visual inspection defectives permitted in the sample which would cause missile failure or significantly reduce the useability of the warhead section.

4. If this criteria is exceeded, a second sample, of the same size, shall be drawn to inspect only for those defects already found. If this second sample is also rejected, a 100% inspection shall be performed for these defects only.

5. If major corrosion is initially found, 100% inspection of the lot shall be performed for this defect.

6. Criteria in the table applies to inspection by class fall defects in a defect category combined) and not to individual characteristics.

Table 4-2. Classification of Material Defects for Storage Inspection

			Method of
Component	Category	Defect	inspection
Container	Minor	Lead seals not in place or broken.	Visual
exterior	Major	Lift handles cracked, broken or loose.	Visual/manual
	Major	Lift bars/stacking brackets cracked, broken or loose.	Visual/manual
	Major	Fork lift guides unserviceable.	Visual
	Minor	Cracks up to 5 inches long which extend through wooden runner.	Visual/gage
	Major	Cracks more than 5 inches long which extend through wooden runner.	Visual/gage
	Major	Corrugated fasteners on bottom surface of wooden runner.	Visual
	Major	Wooden runner broken or worn more than V: of load bearing surface.	Visual/gage
	Major	Wooden runner or improperly attached.	Visual/manual
	Major	Major	Visual
	Major	Tee-head bolts missing/unserviceable.	Visual
	Minor	Spring tension clips missing/unserviceable.	Visual/manual
	Major	Markings not in agreement with figure 1-6 or illegible.	Visual
	Major	Humidity indicator card reads 40 percent or more.	Visual
	Major	Humidity indicator plug/card unserviceable.	Visual
	Major	Pressure equalizing valve damaged.	Visual/manual
	Critical	Welds defective on lift handle vertical flanges near lift handle (i.e., cracked,	Visual, see
		showing holes, or length of weld too short) (NOTE: does not include	figure 4-2.
		weld on sealing flange).	
	Major	Quick access cover loose, missing, or unserviceable	Visual/manual
	Major	Records container cover or gasket loose missing or damaged.	Visual/manual
	Minor	Identification plate missing.	Visual
	Major	Cover (A2J3) missing or unserviceable	Visual
	Minor	Equipment maintenance log (DA Form 2409) missing from records container.	Visual
	Major	Desiccant access cover/welding bolts loose, missing, or damaged.	Visual/manual

Component	Cotogony	Defect	Method of
Contoiner	Calegory	Delecti DE chielding/appling gooket on closure flange of container have leave or	
	iviajoi	KF shielding/sealing gasket on closule hange of container base loose of	figure 4.2
interior		loose or upserviceable	ligule 4-5
Interior	Maior	Corresion causing pitting and perforations	Visual
	Minor	Corresion which can be removed	Visual
	Maior	Peeling or inadequate paint	Visual
	Minor	Scratches	Visual
	Minor	Fundus or foreign material	Visual
	Million	Punctures, dents of any size which impair structural integrity of container	Visual
	Major	Punctures, denis of any size which impair structural integrity of container.	Visual/gogo
	iviaj0i	area.	visuai/gage
Container	Minor	Alignment pins bent/missing/broken.	Visual
interior	Major	Holddown strap; non-metallic channels; tee-head bolts missing or un serviceable.	Visual/manual
	Major	Suspension frame resilient mounts/attaching hardware unserviceable.	See figure 4-4
	Major	Aft support plate loose.	Visual/manual
	Major	Drain plugs loose or missing.	Visual/manual
	Major	Cushioning pad missing, damaged or improperly assembled to suspension	Visual
		frame assembly.	0
Warhead	See table 4-3	RF gasket, see table 4-3	See table 4-3
section M252	Major	Dents in nose cone.	Visual
	Major	Nose cone turnlock fastener stud/receptacles loose, missing, or damaged.	Visual/manual
	Major	Fuze knob cover and latch assembly damaged.	Visual/manual
	Major	Fuze damaged; dials stuck.	Visual/manual
	Major	Fuze loose.	Visual/manual
	Minor	Fuze settings not on Event: 000.0, ARM: 80, SECO: N (off)	Visual
	Major	Markings do not agree with figure 1-2, or illegible.	Visual
	Minor	Fungus or foreign material.	Visual
	Minor	Corrosion which can be removed.	Visual
	Major	Dents in skin in excess of 3/16 inch deep or 6 inch long.	Visual/gage
	Major	Peeling or inadequate paint.	Visual
	Minor	Scratches.	Visual
	Major	Swing bolt covers unserviceable/loose/missing.	Visual/manual
	Major	Swing bolts unserviceable/difficult to move/swing too freely.	Visual/manual
	Major	Bulkhead punctured/deformed.	Visual
	Major	Skin punctured.	Visual
	Major	Cable connector (station 100) unserviceable/flag and cover missing or un servicable.	Visual
	Major	Alignment and shear pins loose; missing/unserviceable.	Visual/manual
	Major	Warhead section visibly out of concentricity.	Visual
	Major	PAL connector cover loose, damaged, of missing.	Visual/manual

4-4

		Method of
Category	Defect	inspection
Minor	Foreign material.	Visual
Major	Loose or improperly installed.	Visual/manual
Major	Gouged; cut from outer edge to inner edge.	Visual
Major	Missing.	Visual
Major	Wire separated from rubber.	Visual
Major	Ends not butted.	Visual

Table 4-3. Inspection Requirements for RF Gasket on Warhead Section



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Change 1 4-5



INSPECTION CRITERIA FOR ELECTRONIC SHIELDING GASKETS								
INSPECTION	ACTION							
A. FOREIGN MATERIAL (EXCLUDING BONDING AT SPLICE).	ÇLEAN							
B. GASKET IMPROPERLY POSITIONED	ADJUST AND CEMENT							
C. RUBBER GOUGED, MISSING, OR CUT THROUGH FROM OUTER EDGE TO INNER EDGE	REPLACE							
D. SEPARATION OF WIRE MESH FROM RUBBER EXCEEDS ONE (1)	REPLACE							
E, WIRE MESH CUT THROUGH FROM INNER EDGE TO OUTER EDGE (EXCLUDING SPLICE).	REPLACE							
F, WIRE MESH SEPARATION AT SPLICE EXCEEDS 1/2-INCH.	REPLACE							

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Figure 4-3. Inspection criteria for M511 container electronic shielding gasket.

4-6



- CAUTION -

VISUAL INSPECTION ONLY WILL BE PERFORMED. NO PROBING OR PHYSICAL PRESSURE EITHER BY FINGER PRESSURE OR WITH A TOOL WILL BE APPLIED WHILE CONDUCTING INSPECTION, SINCE THIS CAN INFLICT DAMAGE TO THE MOUNT.

INSPECTION CRITERIA FOR RESILIENT MOUNTS									
DEFECT	AREA	ACTION							
HOLES, CUTS, GOUGES, TEARS AND PUNCTURES	^	REJECT, IF METAL PLATE IS EXPOSED AND THERE IS VISIBLE EVIDENCE OF CORROSION.							
	B	REJECT (SEE NOTE 6).							
	с	REJECT IF WITHIN 1/8 INCH OF EDGE AND METAL PLATE EXPOSED							
STRIPPED THREADS	D	REJECT							

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Figure 4-4. Inspection requirements for resilient mounts.

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APPENDIX A

REFERENCES

A-1. Publication Index	frequently for the lastest	changes or revisions of
The following publication index should be consulted	references given in this apper	idix and in this manual:
Consolidated Index of Army Publications and Blank Forms		DA Pam 310-1
A-2. Technical Manuals		
Use and Care of Handtools and Measuring Tools		TM 9-243
Ammunition and Explosive Standards		TM 9-1300-206
General Support Maintenance Manual (Including RPSTL) Warhe	ead Section,	
Guided Missile, Practice: Lightweight, M252		TM 9-1336-488-40&P
Operator's and Organizational Maintenance Manual for M5 MMA	Ammunition	TM 9-1410-485-12
Lance Firing Operations		TM 9-1425-485-10-2
Operator's and Organizational Maintenance Manual, Lance		
Holding Equipment for Loader Transporter M688: Mobility		
Kit, M234, Tripod Hoist, M38 and Sling Beam M22		TM 9-1450-486-12
The Army Maintenance Management System (TAMMS)		DA Pam 738-750
Procedures for Destruction of Improved Conventional Munitions	(ICM)	T1 / (0, 0000, 00)
to Prevent Enemy Use		TM 43-0002-33
I ransportability Guidance: Lance Missile System		IM 55-1425-485-15-1
A-3. Supply Catalogs		
Tool Kit, GM: Missile Mating, Lance (NSN 4935-00-930-7553) (L	IN W41617)	SC 4935-95-CL-A67
Tool Kit, Organizational Maintenance, Lance (NSN 5180-00-160	-8572) (LIN [´] W42993)	SC 5180-95-CL-A65
A-4. Army Regulations		
Reporting Transportation Discrepancies in Shipment		AR 55-38
Malfunctions Involving Ammunition and Explosives		AR 75-1
Accident Reporting and Records		AR 385-40
Regulations for Firing Guided Missiles and Heavy Rockets for		
Training, Target Practice, and Combat		AR 385-62
Reporting of Item and Packaging Discrepancies		AR 735-11-2

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A-5. Forms

US Army Accident investigation Report	DA Form 285
Recommended Changes to Publications and Blank Forms	DA Form 2028
Equipment Maintenance Log (Consolidated)	DA Form 2409
Ammunition Condition Report	DA Form 2416
Discrepancy in Shipment Report	SF 361
Report of Discrepancy	SF 364
Quality- Deficiency Report	SF 368

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APPENDIX B

Section I. INTRODUCTION

B-1. General

a. The Maintenance Allocation Chart designates responsibility for the performance of maintenance functions.

b. Only the lowest level of maintenance authorized to perform a maintenance function is indicated.

c. A maintenance function assigned a maintenance level will automatically be authorized to be performed at any higher maintenance level.

d. A maintenance function that cannot be performed at the assigned level of maintenance for any reason may be transferred to the next higher maintenance organization. Higher maintenance levels will perform the maintenance functions of lower maintenance levels when required or directed by the appropriate commander.

B-2. Definitions of Maintenance Functions

The implementation of maintenance tasks will be consistent with the assigned maintenance in accordance with the following definitions.

a. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination.

b. Test. To verify serviceability and to detect possible failure by measuring the mechanical or electrical characteristics of an item and comparing those characteristics with prescribed standards.

c. Service. Operations required periodically to keep an item in proper operating conditions.

(1) *Unpack*. To remove item from packing box for service or when required for the performance of other maintenance operations.

(2) *Repack*. To return item to packing box after service and other maintenance operations.

(3) *Clean*. To rid the item of contamination.

(4) *Touch up.* To spot paint scratched or blistered surfaces.

(5) *Mark*. To restore obliterated identification.

d. Install. To emplace, seat, or fix into position an item in a manner to allow the proper functioning of the equipment.

e. Adjust. To maintain within prescribed limits by bringing into proper or exact position, or by setting the operating characteristics to the specified parameters.

f. Renovate. To restore item to serviceable condition.

(1) Paint. To repaint the entire item.

(2) *Repair.* To restore serviceability to an item by correcting specific damage, fault, malfunction, or failure through the application of maintenance services or other maintenance actions.

(3) *Replace*. To substitute a serviceable component in a manner to allow the proper functioning of equipment.

B-3. Explanation of Format

Purpose and use of the format are as follows:

a. Column 1, Group Number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, and subassemblies with the next higher assembly.

b. Column 2, Functional Group. Column 2 lists the next higher assembly group and item names of components, assemblies, subassemblies, and modules within the group for which maintenance is authorized.

c. Column 3, Maintenance Function.

(1) Column lists the maintenance functions defined in B-2 above. Each maintenance function required for an item is specified by the symbol among those listed in (2) below which indicates the level responsible for the required maintenance.

Under this symbol is listed an appropriate work measurement time value.

(2) The following symbols are used to prescribe work function responsibility:

C- Operator/Crew.

O- Organization.

H- General Support.

D- Depot.

(3) The active repair time (man-hours) required to perform the maintenance function is included directly below the symbol identifying the category of maintenance.

d. Column 4, Tools and Equipment. This column specifies-by code, those tools and test equipment required to perform the designated function.

e. Column 5, Remarks. Self-explanatory.

Section II. MAINTENANCE ALLOCATION CHART

(1)	(2)	(3)									(4)	(5)			
			Maintenance function												
			{	}	<u>s</u>	ervic	e T	r			Ren	ovat	<u>е</u>	1	
Group No.	Functional group	Inspect	Test	Unpack	Repack	Clean	Touch up	Mark	Install	Adjust	Paint	Repair	Replace	Tools and equipment	Remarks
	GROUP 01-WARHEAD SECTION, GUIDED MISSILE, PRACTICE: LIGHTWEIGHT, M252 Fuze, Guided Missile, Practice:			0 0.8	0 0.8	-	-	-	-	-	-	D -	-	Wrench, H4244; Lance	
0101	M819 Nose Cone	C 0.1 C 0.1	- - -			- - 0 0.1	- - 0 0.1	- - 0 0.2	- C 0.2		- - H 0.4		D - 0 0.2	Maintenance Stand	
0 102	Skin Assembly	C 0.1 C	-			- - 0	- - 0	- - ห	-	-	- - H	-	H 0.4		
0102	PAL Connector Cover	0.2 C 0.1	- - -			0.4 - -	0.4 - -	1.0 - -	-	- 0 0.1	2.8	-	- 0 0.2		
0100	Swing Bolt Cover	0.2 C 0.1	-		-	-	-	-		-	-	-	0.4 0 0.4		
	Headless Shoulder Pin Cable Connector	C 0.1 C	-		-						-		0 0.1 ~		
	Cable connector protective cover RF Seal (Knitted Wire Mesh)	C 0.1 C	-	-	-	-			-	-		-	С 0.1 Н		
0001	GROUP 02-SHIPPING AND STORAGE CONTAINER, WARHEAD SECTION: M511	0.1 C 0.4	-	-		- 0 1.5	- 0.4	- H 1.0	-	-	- H 4.0	- H 4.0	0.5		
0201	Lead Seal Quick Access Cover (Door)	C 0.2 C		- -	-		-			- - C			C 0.6 0		
0202	Humidity Indicator Base Assembly	0.1 C 0.1	-	- -	- -	-	-		-	0.1	-		0.1 0 1.2		
	Tee Head Bolt (for base assembly flange) Shielding Gasket (for base	C 0.2	-	-	-	-		-	-		-	-	0.4		
	assembly flange) Identification Plate	С 0.1 Н		-	-		-	-	-				0 2.0 H		
	Wood Runner (Skid)	0.1 C 0.2	- - -	- -	- - -		- 0 0.4	- - -	-	-		- 0 1.0	0.4	5	
	Lift Handle Clip Lift Handle	C 0.2 C 0.2		- - -	- - -	- - -		-		-	-	- - D -	0.4 D -		

(1)	(2)	(3)										(4)	(5)		
			Maintenance function											1	
			Service Renovate						e		1				
Group No.	Functional group	Inspect	Test	Unpack	Repack	Clean	Touch up	Mark	Install	Adjust	Paint	Repair	Replace	Tools and equipment	Remarks
			<u> </u>	<u> </u>											
	Lift Bar	0.2	-	-	-	-	_	_	_ [~	-	-			
	Forklift Bar	C	-	-	-	~	-	-	-	-	-	н	-		1
		0.2	-	-	-	-	-		-	-	-	2.0	ā		
	Drain Plug		-	-	-	Ξ	_	_	-	-	-	_	0.1		
	Stacking Bolts	C	-	-	-	-	-	-	-	_	-	-	0		
		0.1	-	-	-	-	-	-	-	-	-	-	0.1		
	Desiccant Access Cover (Door)	C	-	[-]	-	-	-	-1	-	0	~	-	~		
	Welding Bolts (desiccant access	0.1	-	~	-	-	-	_	-	0.1		-	-		
	cover	C	-	-		-	-	-	-	-	~	-	н [
		0.1	-	-	-	-	-	-	-	-	-	-	0.8		
	Shielding Gasket (for desiccant							_	-	_	~	_	0		
	access cover)	0.1	-		-	-	-	-	-	_	-	-	0.5		l
	Alignment Pin	C	-	-	-	-	~	-	-	0	-	-	н		
		0.1	-	-	-	-	-	-	-	0.5	-	-	2.0		
	Pressure Equalizing Valve		-	-	-	-	-		_	-			0.5		
	Records Container	C	_	_	-	-	-	- 1	-	-	-	н	-		
		0.1	-	-	-		-	-	-	-	-	1.0	-		
	Records Container Gasket	C	-	-	-	-	-	-	~	-	-	-	0		
	A213 Cover	0.1	-		~	-	-		-				0.5		
		0.1	-	_	-	-	-	_]	-	-	-	-	0.1		
0203	Suspension Frame Assembly			'					_						
	Holddown strap	C	-	-	-	-	-	[-]	C	-	-	-	-		
	Tee Head Bolt (for holdown	0.1	-	-	-	-	-	-	0.1		-		-		
	strap)	С	-	-	-	-	-	-	-	-	- 1	-	0		
		0.2	-	-		-	-	-	-	-	-	-	0.4		
	Resilient Mount	C	-	-	-	-	-		-	-	-	-	н 30	{ }	
	Cushioning Pad	0.2 C		[_	_	_	-	_	-	-	-	-	0	{ }	
		0.1	-	-	-	-	-	-	-	-	-	-	1.0	{ }	
	Support Plate	C	-	-	-	-	-	-	-	0	-	-	-	} }	
	Non-Metallic Chennel	0.2 C		-	-	-	-	1 -	-	0.0	-		0	1 1	
	Non-metallic Granner	0.1	-	-	-	-	-	- 1	- 1	-	- 1	-	0.5	} }	
	GROUP 03—SHIPPING AND		[ļ	[]		1	}		ł	}			
	STORAGE CONTAINER,	i i		ļ			}		}		}			}	
	WARHEAD SECTION: XM612 (Note 1)	[[ł			}		}	}	ł		
	(11000 1)	н	-	н	н	н	н	Н	-	-	-	H	-	Metal	
		1.0	-	0.5	1.0	0.4	0.5	0.5	-	-	-	1.0	-	and associated	
			l				l	1	1	1	1	1		equipment	
	Spacer Assembly	D	_	-	_	_	-	D	н	-	-	-	D		
	· · · · · · · · · · · · · · · · · · ·	0.1	-	-	-	-	-	0.1	0.1	-	-	-	0.1		

Note 1. For description of XM612 shipping and storage container, see TM 9-1336-488-40&P.

Change 1 B-3

APPENDIX C

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I. INTRODUCTION

C-1. Scope

This appendix lists repair parts and special tools required for the performance of organizational maintenance of the warhead section.

C-2. General

This appendix is divided into the following sections:

a. Repair Parts List-Section II. A list of repair parts authorized for the performance of maintenance at the organizational level.

b. Special Tools List-Section III. A list of special tools and equipment authorized for the performance of maintenance at the organizational level.

c. National Stock Number and Part Number Index-Section IV. A list, in ascending numerical sequence, of all National stock numbers appearing in the listings, followed by a list, in alphameric sequence, of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

C3. Explanation of Columns

Code

The following provides an explanation of columns in sections II and III.

a. Illustration. This column is divided as follows:

(1) *Figure number*. Indicates the figure number of the illustration on which the item is shown.

(2) *Item number*. Indicates the callout number used to reference the item on the illustration.

b. Source, Maintenance, and Recoverability Codes (SMR).

(1) Source code (first and second positions) indicates the source for the listed items. Source codes are:

Explanation

- PA ... Item procured and stocked for anticipated or known usage.
- PG... Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later date.
- MH .. Item to be manufactured or fabricated at the general support maintenance level.

(2) Maintenance code consists of two partsuse code (third position) and repair code (fourth position). Use code indicates the lowest maintenance level authorized to remove, replace, and use the listed items. Repair code indicates whether the item is to be repaired and identifies the lowest maintenance level authorized to repair the listed items. Maintenance codes are: Code Explanation

Use

O..... Support item is removed, replaced, and used at organizational level of maintenance.

Repair

H..... The lowest maintenance level capable of complete repair of the support item is the general support level.

Z..... Nonreparable support item. No repair is authorized.

(3) Recoverability code (fifth position) indicates the disposition action on unserviceable items. Recoverability codes are:

Code Explanation

Z..... Nonreparable item. When unserviceable, condemn and dispose of at the level indicated in position 3.

c. National Stock Number. This column indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. Part Number. This column indicates the primary number used by the manufacturer (individual, company, firm, corporation, or government activity), which controls the design characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements, to identify an item or range of items.

e. Federal Supply Code for Manufacturers (FSCM). This column indicates a five-digit numeric code used to identify the manufacturer, distributor, or government agency that controls the design characteristics of the item. Federal supply codes for manufacturers are:

Code Manufacturer

18876..... US Army Missile Command

19200..... US Army Armament Research and Development Command

19203.... Picatinny Arsenal

80205..... National Aeronautical Standards

96906.... Military Standards

f. Description. This column indicates the Federal item name and any additional description of the item required.

g. Unit of Measure (U/M). A two-character alphabetic abbreviation indicating the unit upon which the allowances are based; e.g., ft, ea, pr, etc.

h. Quantity Incorporated in Unit. This column indicates the quantity of the item used with or on the equipment.

C-4. How to Locate Repair Parts

a. When National stock number or reference number is unknown:

(1) *First.* Using the table of contents, determine the functional or subfunctional group within which the repair part belongs; i.e., warhead section, practice fuze, etc. This is necessary since illustrations are prepared for groups and listings are divided into the same groups.

(2) Second. Find the illustration covering the functional or subfunctional group to which the repair part belongs.

(3) *Third*. Identify the repair part on the illustration and note the illustration figure and item number of the repair part.

(4) *Fourth*. Using the repair parts listing, find the functional or subfunctional group to which the repair part belongs and locate the illustration figure and item

number identified in (2) above. The part is listed opposite the figure and item number shown.

b. When National stock number or part number is known:

(1) *First.* Using the index of National stock numbers and part numbers, find the pertinent National stock number or part number. This index is in ascending NSN sequence followed by a list of part numbers in ascending alphameric sequence, crossreferenced to the illustration figure number and item number.

(2) Second. Using the repair parts listing find the functional or subfunctional group of the repair part and the illustration figure number and item number referenced in the index of National stock numbers and part numbers.

C-5. Abbreviations

cd-pltd	cadmium plated
ck	countersunk
cres	corrosion-resistant steel
dia	diameter
fin	finish



Figure C-1. Warhead section--nose cone and attaching hardware.



Figure C-2. Warhead section - aft bulkhead area

flat fillister head
flat head
high
inside director
inch
long
National Fine
National Pipe Thread

o/a	overall
od	outside diameter
S	steel
thk	thick
UNC	Unified Coarse Thread
UNF	Unified Fine Thread
UNJF	Unified Joint Fine Thread
w	wide



Figure C-3. Shipping and Storage container-cover assembly and base assembly

C-4



Figure C-4. Shipping and storage container suspension frame assembly.



AR 100725

Figure C-5. H4244 wrench.

C-5



Figure C-6. Lance Maintenance stand.

Section II. REPAIR PARTS LIST

(*	1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Illust	ration							
(a)	(b)				Federal supply			Quantity
No.	Item	SMR	National stock	Part No.	code for		Unit of	incorporated
Fia.	No.	code	No.		manufacturing	Description	measure	in unit
					J	GROUP 01-WARHEAD SECTION.		
						GUIDED MISSILE, PRACTICE:		
						LIGHTWEIGHT, M252 0101-NOSE CONE		
C-1	1	PAOZZ	5325-00-639-5098	10293167	19203	STUD, TURNLOCK FASTENER: S.	ea	8
		50077			(cd-pltd, slotted head drive, I in. o/a length.		
C-1	2	PGOZZ	1336-00-283-9463	10246033	19203		ea	1
<u> </u>	1	DAO77	5025 00 410 2749	9970055	10202			1
0-2	'	FAUZZ	5955-00-410-2746	0079955	19203	(PAL)	ea	I
C-2	2	PAOZZ	5330-00-840-6410	MS9068-133	96906	PACKING PREFORMED:	ea	1
• -	-					01 03-AFT BULKHEAD AREA	<u>u</u>	
C-2	3	PAOZZ	5315-00-841-4442	MS16562224	96906	PIN, SPRING: cres 1/8 in. dia.	ea	4
						3/4 in Ig, 1132 in. thk (part of swing		
						bolt, assembly}.		
C-2	4	PAOZZ	5310-00-001-1301	92 37309	19203	NUT, PLAIN, EXTENDED WASHER,	ea	4
						DOUBLE HEXAGON: S. cd-pltd,		
						5/8-18UNJF3B, 13/16 in. W, 45/64 in. n,		
						holt assembly)		
C-2	5	PA077	5310-00-614-3505	MS15795820	96906	WASHER FLAT: cres 5/8 in id	63	4
02	U U	TROLL	0010 00 014 0000	W010730020	50500	1-5/16 in. od. 1/8 in. thk (part of swing bolt	cu	т
						assembly).		
C-2	6	PAOZZ	5305-00-084-2757	NAS1189E3P18	80205	SCREW, SELF-LOCKING: cres, No.	ea	8
1						10-32NF-2A X 1-1/8.		
C-2	7	PAOZZ	1115-00-883-8134	8878938	192()3	COVER, TEE HEAD BOLT:	ea	4



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(*	1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Illustr	ation							
(a)	(b)				Federal supply			Quantity
No.	Item	SMR	National stock	Part No.	code for		Unit of	incorporated
Fig.	No.	code	No.		manufacturing	Description	measure	in unit
C-2	8	PAOZZ	5306-00-172-3171	9237322	19203	BOLT, TEE HEAD: alloy-S, 5/8- 18LINE-3A X 3-19132 (part of swing bolt	ea	4
						assembly.		
C-2	9	PAOZZ	5315-00-933-7586	8877426	19203	PIN, SHOULDER, HEADLESS: cres, 1/2	ea	6
C-2	10	PAOZZ	5315-00-189-4661	8877425	19203	PIN, SHOULDER, HEADLESS: cres, 2 in.	ea	2
C-2	12	PAOZZ	5935-00-279-1587	9281653	19203	COVER, ELECTRICAL CONNECTOR:	ea	1
						protective cover and flag assembly.		
						CONTAINER, WARHEAD SECTION:		
						M511		
C-3	1	PAO77	8140-00-883-1538	9219562	19200	0201-CO VER ASSEMBLY	еа	1
00		TROLL	0140 00 000 1000	3213302	13200	STORAGE CONTAINER:	cu	
C-3	2	PAOZZ	5330-00-883-1540	8880558-4	19203	SEAL., RUBBER SPECIAL SHAPED	ea	1
C-3	3	PAOZZ	6685-00-998-7412	9220303	19203	INDICATOR, HUMIDITY PLUG:	ea	1
C-3	5	PAOZZ	6685-00-052-1865	8881094	19203	INDICATOR, HUMIDITY CARD:	ea	1
C-3	6		5310-00-768-0318	MS51967-14	96906	0202-BASE ASSEMBLY	63	22
0-0	0	TAOLL	3310-00-700-0310	10001007-14	30300	cd-pltd, 1/2- 13 UNC-2B.	ea	22
C-3	7	PAOZZ	5310-00-584-5272	MS35338-48	96906	WASHER, LOCK: S. cd-pltd, split, for	ea	22
C-3	8	PAOZZ	5306-00-252-4423	9231556	19203	BOLT, TEE HEAD: S. cd pltd, 1/2-13 UNC-	ea	22
0.0	0	D4077	5040.00.000.5000	M007400 40	00000	2A X 2.00 in. Ig.		00
0-3	9	FAUZZ	5310-00-609-5996	WI327103-10	90900	id, 1.062 in. od, 0.074 in. thk.	ea	22
C-3	10	PAOZZ	5999-00-252-4379	9231557-1	19203	SHIELDING GASKET, ELECTRONIC:	ea	1
C-3	13	PAOZZ	5310-00-763-8901	MS51968-23	96906	NUT, PLAIN, HEXAGON: carbon S. cd-pltd_3/4-16 UNF-2B	ea	8
C-3	14	PAOZZ	6310-00-809-8533	MS27183-23	96906	WASHER, FLAT: S. cd-pltd, 0.805 in.	ea	16
C 2	15	DAO77	5205 00 040 8060	M600707 107	06006	id, }.462 in. oaf, 0.108 in thk.		0
0-3	15	FAUZZ	5505-00-940-6069	101390727-197	90900	cd-pltd, 3/4-16UNF-2A X 4.500 in. lg.	ea	o
C-3	16	MHOOZ	5040.00.007.0507	9219399	19200	RUNNER, WOOD:	ea	4
C-3	17	PAOZZ	5310-00-067-9507	MS51922-37	96906	carbon S cd-pltd 1/2-20UNF-2B	еа	4
C-3	18	PAOZZ	5310-00-809-3079	MS27183-19	96906	WASHER, FLAT: S. cd-pltd, 0.500	ea	8
C-3	19	PA077	5305-00-719-5275	MS90727-128	96906	In. id, 1.375 in. od, 0.109 in. thk.	63	А
00	15	TROLL	0000 00 110 0210	1000121 120	30300	cd-pltd, 1/2-20UNF-2A X 5.500 in. lg.	cu	-
C-3	20	PAOZZ	5310-00-081-8087	MS21044-NO6	96906	NUT, SELF-LOCKING, HEXAGON: S.	ea	4
C-3	21	PAOZZ	5310-00-082-1404	MS27183-6	96906	WASHER, FLAT: S. cd-pltd, 0.151 in.	ea	4
C-3	22		5305-00-889-3001	MS35206-231	96906	id, 0.370 in. oaf, 0.036 in. thk.	63	4
0-5	22	TAOLL	5505-00-005-5001	10000200-201	30300	No 6-32UNC-2A X 0.625 in. lg.	ea	7
C-3	23	PAOZZ	5340-00-235-9685	9223266	19203	CLIP, SPRING TENSION:	ea	4
C-3 C-3	24 25	PAOZZ PAOZZ	4730-00-992-7272 5310-00-828-8\89	MS20913-3K MS35425-41	96906	PLUG, PIPE:corr-res-S, 0.375-18NPT NUT PLAIN WINGS cd-pltd 5/l6-18	ea ea	2
	20					UNC-2B	04	-
C-3	26	PAOZZ	5310-00-081-4219	MS27183-12	96906	WASHER. FLAT: S. cd-pltd, 0.344 in.	ea	12
C-3	27	PAOZZ	5330-01-008-6660	9287680	19203	GASKET	ea	1
C-3	29	PAOZZ	5310-00-984-3806	MS51922-9	96906	NUT, SELF-LOCKING, HEXAGON: S.	ea	10
						cd-pltd, 5/16-18UNC-2B.		

Change 1 C-7

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14	1	(0)	(2)	(4)	(5)		(7)	(0)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Illustr	ation							
(a)	(b)				Federal supply			Quantity
No.	Item	SMR	National stock	Part No.	code for		Unit of	incorporated
Fia.	No.	code	No.		manufacturing	Description	measure	in unit
C-3	30	PAOZZ	4820-00-122-1121	9220106-2	19203	VALVE, PRESSURE EQUALIZING	ea	2
C-3	31	PAOZZ	5999-00-408-0952	9231657-2	19203	SHIELDING GASKET. ELECTRONIC	ea	1
C-3	34	PAOZZ	5306-00-225-8499	MS90725-34	96906	BOLT, MACHINES, cd-pltd, 5/16-18	ea	1
	-	-				UNC-2A X 1.000 in. la.		
C-3	35	PAOZZ	5330-00-248-3831	MS29513-011	96906	PACKING , PREFORMED :syn-ru.0.296 in.	ea	1
						min id, 0.067 in. min h.		
C-3	36	PAOZZ	5310-01-021-5237	9224971	19203	WASHER:	ea	2
C-3	37	PAOZZ	5330-01-035-5059	9224970	19203	GASKET:	ea	2
C-3	38	PAOZZ	5310-00-407-9566	MS35338-45	96906	WASHER, LOCK: S. cd-pltd, 0.318 in.	ea	1
						min hole dia.		
C-3	39	PAOZZ	5310-00-880-7744	MS51967-5	96906	NUT, PLAIN, HEXAGON: S. cd-pltd,	ea	1
						5/16- 18UNC-2B		
						0203—SUSPENSION FRAME ASSEMBLY		
C-4	1	PAOZZ	5310-00-768-0318	MS51967-14	96906	NUT, PLAIN, HEXAGON: carbon S.	ea	4
						cd-pltd, I/2-13UNC-2B.		
C-4	2	PAOZZ	5310-00-584-5272	MS35338-48	96906	WASHER, LOCK: S. cd-chromate fin.,	ea	4
	_					split, for '/~-in. bolt size.		
C-4	3	PAOZZ	5306-00- 252-4423	9231556	19203	BOLT. TEE HEAD: S c d · p 1 t d.		
~ .		D4077	5040 00 000 5000	N 0 07400 40	00000	tz2-13UNC-2A X 2.001g.		
C-4	4	PAOZZ	5310-00-809-5998	M,§27183-18	96906	WASHER, FLAT: S. cd pitd, 0.500 in. id,	ea	4
C 4	F	DA077	0200 00 400 5640	00406004	10000			4
C-4	5	PAOZZ	9390-00-409-5640	9248098-1	19203		ea	1
C-4	12	PAOZZ	9390-00-409-564 I	9248098-2 MSE1067.2	19203		ea	
0-4	12	FAUZZ	5510-00-761-6882	101001907-2	90900		ea	0
C-4	13	PAO77	5310-00-582-5965	M\$35338-44	96906	WASHER LOCK'S ki in bolt size	00	6
C-4	14	PAOZZ	5310-00-809-4058	MS27183-10	96906	WASHER FLAT: S. cd-nltd '~-in	60	12
0 4	14	TROLL	3310 00 003 4000	102710010	30300	screw size	ca	12
C-4	15	P4077	5305-00-071-2505	MS90728-7	96906	SCREW CAP HEXAGON HEAD'S	62	6
0 -	10		0000 00 07 1 2000		00000	cd-pltd 'Z`-20 UNC-2A X 0 875 in Ig	Ju	Ŭ
C-4	16	PAOZZ	8140-00-250-8667	9280023	19203	PAD. CUSHIONING: ru. 26.750 in. 1g	ea	2
						7.135 in. w,2 in. thk.		

Section III. SPECIAL TOOLS LIST

(*	1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Illustr	ation							
(a)	(b)				Federal supply			Quantity
No.	Item	SMR	National stock	Part No.	code for		Unit of	incorporated
Fig.	No.	code	No.		manufacturing	Description	measure	in unit
C-5	-	PAOZZ	5120-00-866-6677	9219129	19203	GROUP 04—TOOLS AND, EQUIPMENT WRENCH, OPEN END, FIXED: H4244 issued Two per missile mating tool kit).	ea	
C-6	-	MHOHZ				LANCE MAINTENANCE STAND.	ea	
2-2	-	PEODD	1450-00-937-0894	10162468	18876	SLING, BEAM TYPE: M22	ea	

Change 1 C-8

Section IV. NATIONAL STOCK NUMBER, PART NUMBER AND ITEM NUMBER INDEX

National stock number cross-reference to figure and item number

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	National stock number	Figure No.	Item No.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1115-00-883-8134	C-2	7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1336-00-283-9463	C-1	2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1450-00-937-0894	2-2	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4730-00-992-7272	<u> </u>	24
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4820-00-122-1121	C-3	30
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5120-00-866-6677	0 0 C-5	50
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5205 00 071 2505	C-5	15
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5305-00-071-2305	C 2	10
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5305-00-719-5275	0-3	19
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5305-00-064-2757	0-2	6
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5305-00-889-3001	0-3	22
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5305-00-940-8069	C-3	15
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5306-00-172-3171	6-2	8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5306-00-225-8499	C-3	34
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5306-00-252-4423	C-3	8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5306-00-252-4423	C-4	3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-001-1301	C-2	4
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5310-00-067-9507	C-3	17
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5310-00-081-4219	C-3	26
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5310-00-081-8087	C-3	20
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-082-1404	C-3	21
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5310-00-407-9566	C-3	38
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-582-5965	C-4	13
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-584-5272	C-3	7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-584-5272	C-4	2
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-614-3505	C-2	5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5310-00-761-6882	C-4	12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5310-00-763-8901	C-3	13
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5310-00-768-0318	C-3	6
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-768-0318	C-4	1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3310 00 700 0310	C-3	16
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-800-3070	C-3	18
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-003-5073	C 4	14
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	5310 00 900 5009	C 2	0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-009-5990	C-3	9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-009-5990	C-4	4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-009-0555		14
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5310-00-000-7744	0-3	39
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5310-00-964-3606	0-3	29
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5310-01-021-5237	0-3	30
5315-00-841-4442 C-2 3 5315-00-933-7586 C-2 9 5325-00-639-5098 C-1 1 5330-00-248-3831 C-3 35 5330-00-248-3831 C-3 35 5330-00-840-6410 C-2 2 5330-00-883-1540 C-3 2 5330-01-08-6660 C-3 27 5330-01-035-5059 C-3 37 5340-00-235-9685 C-3 23 5935-00-410-2748 C-2 1 5935-00-410-2748 C-2 1 5999-00-252-4379 C-3 10 5999-00-408-0952 C-3 31 6685-00-052-1865 C-3 5	5315-00-189-4661	0-2	10 •
5315-00-933-7586 C-2 9 5325-00-639-5098 C-1 1 5330-00-248-3831 C-3 35 5330-00-840-6410 C-2 2 5330-00-883-1540 C-3 2 5330-01-08-6660 C-3 2 5330-01-035-5059 C-3 37 5340-00-235-9685 C-3 23 5935-00-410-2748 C-2 1 5935-00-279-1587 C-2 12 5999-00-252-4379 C-3 31 6685-00-052-1865 C-3 51	5315-00-841-4442	0-2	3
5325-00-639-5098 C-1 1 5330-00-248-3831 C-3 35 5330-00-840-6410 C-2 2 5330-00-883-1540 C-3 2 5330-00-883-1540 C-3 2 5330-01-008-6660 C-3 27 5330-01-035-5059 C-3 37 5340-00-235-9685 C-3 23 5935-00-410-2748 C-2 1 5935-00-279-1587 C-2 12 5999-00-252-4379 C-3 10 5999-00-408-0952 C-3 31 6685-00-052-1865 C-3 5	5315-00-933-7586	C-2	9
5330-00-248-3831 C-3 35 5330-00-840-6410 C-2 2 5330-00-883-1540 C-3 2 5330-01-008-6660 C-3 27 5330-01-035-5059 C-3 37 5340-00-235-9685 C-3 23 5935-00-410-2748 C-2 1 5935-00-279-1587 C-2 12 5999-00-252-4379 C-3 31 6685-00-052-1865 C-3 51	5325-00-639-5098	U-1	
5330-00-840-6410 C-2 2 5330-00-883-1540 C-3 2 5330-01-008-6660 C-3 27 5330-01-035-5059 C-3 37 5340-00-235-9685 C-3 23 5935-00-410-2748 C-2 1 5935-00-279-1587 C-2 12 5999-00-252-4379 C-3 31 6685-00-052-1865 C-3 5	5330-00-248-3831	C-3	35
5330-00-883-1540 C-3 2 5330-01-008-6660 C-3 27 5330-01-035-5059 C-3 37 5340-00-235-9685 C-3 23 5935-00-410-2748 C-2 1 5935-00-279-1587 C-2 12 5999-00-252-4379 C-3 31 6685-00-052-1865 C-3 5	5330-00-840-6410	C-2	2
5330-01-008-6660 C-3 27 5330-01-035-5059 C-3 37 5340-00-235-9685 C-3 23 5935-00-410-2748 C-2 1 5935-00-279-1587 C-2 12 5999-00-252-4379 C-3 10 5999-00-408-0952 C-3 31 6685-00-052-1865 C-3 5	5330-00-883-1540	C-3	2
5330-01-035-5059 C-3 37 5340-00-235-9685 C-3 23 5935-00-410-2748 C-2 1 5935-00-279-1587 C-2 12 5999-00-252-4379 C-3 10 5999-00-408-0952 C-3 31 6685-00-052-1865 C-3 5	5330-01-008-6660	C-3	27
5340-00-235-9685 C-3 23 5935-00-410-2748 C-2 1 5935-00-279-1587 C-2 12 5999-00-252-4379 C-3 10 5999-00-408-0952 C-3 31 6685-00-052-1865 C-3 5	5330-01-035-5059	C-3	37
5935-00-410-2748C-215935-00-279-1587C-2125999-00-252-4379C-3105999-00-408-0952C-3316685-00-052-1865C-35	5340-00-235-9685	C-3	23 -
5935-00-279-1587C-2125999-00-252-4379C-3105999-00-408-0952C-3316685-00-052-1865C-35	5935-00-410-2748	C-2	1
5999-00-252-4379C-3105999-00-408-0952C-3316685-00-052-1865C-35	5935-00-279-1587	C-2	12
5999-00-408-0952 C-3 31 6685-00-052-1865 C-3 5	5999-00-252-4379	C-3	10
6685-00-052-1865 C-3 5	5999-00-408-0952	C-3	31
	6685-00-052-1865	C-3	5
6685-00-998-7412 C-3 3	6685-00-998-7412	C-3	3
8140-00-250-8667 C-4 16	8140-00-250-8667	C-4	16
8140-00-883-1538 C-3 1	8140-00-883-1538	Č-3	1
9390-00-409-5640 C-4 5	9390-00-409-5640	C-4	5
9390-00-409-5641 C-4 6	9390-00-409-5641	Č-4	ő

Part Number Cross-Referenced to Figure and Item Number

Part number	Mfr No.	Fig. No.	Item No.
MS9068-133	96906	C-2	2
MS15795-820	96906	C-2	5
MS16562-224	96906	C-2	3
MS20913-SK	96906	C-3	24
MS21044-N06	96906	C-3	20
MS27183-6	96906	C-3	21
MS27183-10	96906	C-4	14
MS27183-12	96906	C-3	26
MS29153-011	96906	C-3	35
MS51967-2	96906	C-4	12
MS51922-9	96906	Č-3	29
MS51922-37	96906	C-3	17
MS51967-5	96906	C-3	39
MS51967-15	96906	C-3	6
MS51967-15	96906	C-4	1
MS51968-23	96906	C-3	13
MS01300-23 MS00725-34	90900	C-3	34
MS90723-34 MS90727-128	90900	C-3	10
MS90727-120 MS90727-197	96906	C-3	15
MS90727-197 MS90728-7	96906	C-4	15
NIA S1180E3D18	80205	C-4	15
9977 <i>1</i> 05	10203		10
8877426	19203	C-2	9
9979029	10203		5
9970055	10203		1
8880558-4	19203	C-2	2
8881004	10200	C-3	2
MS27183-18	96906	C-3	9
MS27183-18	96906	C-4	9
MS27183-10	96906	C-3	
MS27183-23	96906	C-3	10
MS27105-23 MS35206-231	96906	C-3	22
MS35338-44	96906	C-4	13
MS35338-45	96906	C-3	38
MS35338-48	96906	C-3	7
MS35338-48	96906	C-4	2
9219129	19203	Č-5	
9219399	19200	C-3	16
9219562	19200	C-3	1
9220106-2	19203	C-3	30
9220303	19203	C-3	3
9223266	19203	C-3	23
9224970	19203	C-3	37
9224971	19203	Č-3	36
9287680	19203	C-3	27
9231556	19203	C-3	8
9231556	19203	C-4	3
9231557-1	19203	C-3	10
9231557-2	19203	C-3	31
9237309	19203	C-2	4
9237322	19203	C-2	8
9248698-1	19203	C-4	5
9248698-2	19203	C-4	6
9280023	19203	C-4	16
9281653	19203	C-2	12
10162468	18876	2-2	
10246033	19203	C-I	2
10293157	19203	C-i	1

Figure No.	Item No.	National stock number
C-i	1	5325-00-639-5098
C-i	2	1336-00-283-9463
C-2	1	5935-00-410-2748
C-2	2	5330-00-840-6410
C-2	3	5315-00-841-4442
C-2	4	5310-00-001-1301
C-2	5	5310-00-614-3505
C-2	6	5305-00-084-2757
C-2	7	1115-00-883-8134
C-2	8	5306-00-172-3171
C-2	9	5315-00-933-7586
C-2	10	5315-00-189-4661
C-2	12	5935-00-297-1587
C-3	1	8140-00-883-1538
C-3	2	5330-00-883-1540
C-3	3	6685-00-998-7412
C-3	5	6685-00-052-1865
C-3	6	5310-00-768-0318
C-3	7	5310-00-584-5272
C-3	8	5306-00-252-4423
C-3	0 0	5310-00-202-4420
C-3	10	5000-00-252-4370
C-3	13	5310-00-763-8001
C-3	13	5310-00-800-8533
0-5	14	5305 00 040 8060
0.3	10	5303-00-940-8009
C-3	10	5210 00 067 0507
0-5	10	5310 00 800 3070
0.3	10	5310-00-809-5079
0.3	19	5303-00-719-5275
C-3	20	5310-00-061-0007
0.3	21	5310-00-062-1404
0.3	22	5303-00-869-5001
C-3	23	
0.3	24	4730-00-992-7272 5210 00 081 4210
0.2	20	5310-00-061-4219
0.3	27	5330-01-000-0000
0.3	29	5310-00-984-3806
0-3	30	4820-00-122-1121
U-3	31	5999-00-408-0952
0-3	34	5306-00-225-8499
U-3	35	5330-00-248-3831
C-3	36	5310-01-021-5237
C-3	37	5330-01-035-5059
C-3	38	5310-00-407-9566
C-3	39	5310-00-880-7744
C-4	1	5310-00-768-0318
C-4	2	5310-00-584-5272
C-4	3	5306-00-252-4423
C-4	4	5310-00-809-5998
C-4	5	9390-00-409-5640
C-4	6	9390-00-409-5641

Figure Number Cross-Referenced to National Stock Number

TM 9-1336 488-12&P

Figure No.	Item No.	National stock number
C-4	12	5310-00-761-6882
C-4	13	5310-00-582-5965
C-4	14	5310-00-809-4058
C-4	15	5305-00-071-2505
C-4	16	8140-00-250-8667
C-5		5120-00-866-6677
2-2		1450-00-937-0894

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APPENDIX D

EXPENDABLE SUPPLIES

Section I. INTRODUCTION

D-1. Scope

This appendix lists expendable supplies which are authorized for organizational maintenance.

D-2. Explanation of Columns

The following provides an explanation of columns in section II.

a. National Stock Number. Column 1 indicates the National stock number assigned to the item. This number will be used for requisitioning purposes.

b. Description. Column 2 indicates the item name and brief description.

c. Unit of Issue. Column 3 indicates the unit of issue for each item.

Section II. EXPENDABLE SUPPLIES

National Stock No.DescriptionIntensiveIntensiveListed items should be requisitioned: as required, through normal supply channels.AD40-00-543-7170ADHESIVE: synthetic rubber, spec MMM-A-1898020-00-242-7266BRUSH, PAINT: hog bristle, flat Wsq edge, 3 in. w, 7/8 in. thick, 3¼4 in. exposed Ig, specH8-420, class 1, grade B.8020-00-850-0084BRUSH, PAINT: oval w/chisel edge I/2-inch. w, 1-7/8 in. min exposed Ig, spec H-B-491, type I,class 1.7920-00-255-5135BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-I/4 in. Ig, spec H-B-178, type I,class 2.CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., specp-C-451, type I, class 1.COTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., specPC-451, type I, class 1.COTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., specPC-451, type I, class 1.COTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., specPGPC-451, type I, class 1.COTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., specPGPC-451, type I, class 1.COTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., specPGPC-451, type I, class 1.<	(1)	(2)	(3) Unit of
Listed items should be requisitioned, as required, through normal supply channels. ADHESVE: synthetic rubber, spec MMM-A 189 ALCOHOL, ISOPROPYL, TECHNICAL: TT-1735. BRUSH, PAINT: hog bristle, flat w/sq edge, 3 in. w, 7/8 in. thick, 3'/4 in. exposed Ig, spec H-B-420, class 1, grade B. 8020-00-850-0084 BRUSH, PAINT: oval w/chisel edge I/2-inch. w, 1-7/8 in. min exposed Ig, spec H-B-491, class 1. 100-255-5135 BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-I/4 in. Ig, spec H-B-491, class 2. 6850-00-984-5853 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec P-C-458, class 1. 5350-00-221-0872 CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec P-C-458, class 1. 5350-00-294-98036 DETERGENT, GENERAL URPOSE: 5 lb, spec P-D-220, type 1, 8010-00-618-8577 COATING COMPOUND, METAL PRETREATMENT: spec MIL-C-15328. 6850-00-264-6571 DESICCANT, ACTIVATED: MIL-D-3464. 6910-00-297-9801 ENAMEL: black (camouflage) MIL-E-52798, 1gl. 8010-00-385-7166 BIOLO0-297-2106 ENAMEL: blue, lusterless, No. 35109, presurized can, spec TT-E-516. 8010-00-277-801 ENAMEL: blue, forest green (camouflage) MIL-E-52798, 1gl. 8010-00-287-7461 ENAMEL: blue drab, lusterless, No. 37038, spec TT-E-516. 8010-00-297-2116 ENAMEL: loive drab, lusterless, No. 37037, pressurized can, spec TT-E-516. 8010-00-297-216 ENAMEL: loive drab, lusterless, No. 37038, spec TT-E-516. 8010-00-297-216 ENAMEL: loive drab, lusterless, No. 37038, spec TT-E-516. 8010-00-297-216 ENAMEL: loive drab, lusterless, No. 37038, spec TT-E-516. 8010-00-297-216 ENAMEL: loive drab, lusterless, No. 37037, spec TT-E-516. 8010-00-297-216 ENAMEL: loive drab, lusterless, No. 37038, spec TT-E-516. 8010-00-297-216 ENAMEL: loive drab, lusterless, No. 37038, spec TT-E-516. 8010-00-24-6732 BNMER, CORTING, STENCIL: white, No. 37875, spec TT-1-1795. Type 1 or 11111 g1 7510-00-191-6030 INK, MARKING, STENCIL: black, No. 37038, spec TT-1-753. 7510-00-191-6030 INK, MARKING, STENCIL: black, No. 37038, spec TT-1-753.	National Stock No.	Description	measure
8040-00-543-7170 ADHESIVE: synthetic rubber, spec MMM-A- 189 pt 6810-00-983-8551 ALCOHOL, ISOPROPYL, TECHNICAL: TT-I-735. pt 8020-00-242-7266 BRUSH, PAINT: hog bristle, flat w/sq edge, 3 in. w, 7/8 in. thick, 3/4 in. exposed Ig, spec ea H-8-420, class 1, grade B. BRUSH, PAINT: oval w/chisel edge I/2-inch. w, 1-7/8 in. min exposed Ig, spec H-B-491, class 1. ea 7920-00-255-5135 BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-I/4 in. Ig, spec H-B-178, type I, class 2. ea 6850-00-884-5853 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. cn 5350-00-192-5049 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec pr pg 5350-00-221-0872 CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec PC-458, class 1. pg CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec MIL-C-15328. b8630-0.264-6571 pg 680-00-264-6571 DESICCANT, ACTIVATED: MIL-D-3464. pg gl 6010-00-287-7166 ENAMEL: black (camouflage) MIL-E-52798, 1 gl. gl gl 8010-00-297-0801 ENAMEL: black (camouflage) MIL-E-52798, 1 gl. gl gl 8010-00-297-7801 ENAMEL: black (camouflage) MIL-E-52798, 1 gl. gl gl <td></td> <td>Listed items should be requisitioned. as required, through normal supply channels.</td> <td></td>		Listed items should be requisitioned. as required, through normal supply channels.	
6810-00-983-8551 ALCOHOL, ISOPROPYL, TECHNICAL: TT-I-735. qt 8020-00-242-7266 BRUSH, PAINT: hog bristle, flat w/sq edge, 3 in. w, 7/8 in. thick, 31/4 in. exposed Ig, spec ea 8020-00-850-0084 BRUSH, PAINT: oval w/chisel edge l/2-inch. w, 1-7/8 in. min exposed Ig, spec H-B-491, tpe I, class 1. ea 7920-00-255-5135 BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-l/4 in. Ig, spec H-B-178, type I, class 1. ea 6850-00-984-5853 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. cn 5350-00-192-5049 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec pg 5350-00-221-0872 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec pg 7920-00-292-9204 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec pg 7920-00-292-9204 CLOTH, CLEANING: linitiess fabric, 18 in. X 16-V1 in., spec CC-C-46, type I, class 1. pg 7930-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb lb 8010-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec TT-E-516. gl gl 8010-00-297-0801 ENAMEL: blue, lusterless, No. 35109, spec TT-E-516. gl gl 8010-00-297-2016 <td>8040-00-543-7170</td> <td>ADHESIVE: synthetic rubber, spec MMM-A- 189</td> <td>pt</td>	8040-00-543-7170	ADHESIVE: synthetic rubber, spec MMM-A- 189	pt
8020-00-242-7266 BRUSH, PAINT: hog bristle, flat w/sq edge, 3 in. w, 7/8 in. thick, 3½4 in. exposed Ig, spec H-B-420, class 1, grade B. ea 8020-00-850-0084 BRUSH, PAINT: oval w/chisel edge I/2-inch. w, 1-7/8 in. min exposed Ig, spec H-B-491, type I, class 1. ea 7920-00-255-5135 BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-I/4 in. Ig, spec H-B-178, type 1, class 2. ea 6850-00-984-5853 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. cn 5350-00-219-5049 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec P-C-451, type I, class 1. pg 5350-00-221-0872 CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec CCC-C-46, type I, class 1. pg 6850-00-282-9204 CLOTH, CLEANING: lintless fabric, 18 in. X 16-V1 in, spec CMIL-C-15328. bt 6850-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. bt 6810-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec TT-E-516. pt 6910-00-111-8005 ENAMEL: blue, lusterless, No. 35109, spec TT-E-516. pt 8010-00-297-0801 ENAMEL: blue, lusterless, No. 34087, pressurized can, spec TT-E-516. gl 8010-00-211-8010 ENAMEL: olive drab, lusterless, No. 37038, spec TT-I-1795, Type I or 11111 gl 810-00-247-7816	6810-00-983-8551	ALCOHOL, ISOPROPYL, TECHNICAL: TT-I-735.	qt 🛡
H-B-420, class 1, grade B. BRUSH, PAINT: oval w/chisel edge l/2-inch. w, 1-7/8 in. min exposed lg, spec H-B-491, type I, class 1. ea 7920-00-255-5135 BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-l/4 in. lg, spec H-B-178, type I, class 1. ea 7920-00-255-5135 BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-l/4 in. lg, spec H-B-178, type I, class 2. cn 6850-00-984-5853 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. cn 5350-00-192-5049 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec Pg p-C-451, type I, class 1. 7020-00-292-9204 CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec PC-458, class 1. pg 7020-00-292-9204 CLOTH, ALEANING: lintless fabric, 18 in. X 16-V1 in., spec CCC-C-46, type I, class 1. pg 7030-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb 8010-00-111-8005 ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516. gl 8010-00-111-7937 ENAMEL: blue, lusterless, No. 34087, pres-trizes 5 gl. gl 8010-00-111-7937 ENAMEL: olive drab, lusterless, No. 34087, pres trized can, spec TT-E-516. gl 8010-00-287-2116 ENAMEL: olive drab, lusterless, No. 34087, pres trize 4. gl 8010-00-287-216	8020-00-242-7266	BRUSH, PAINT: hog bristle, flat w/sq edge, 3 in. w, 7/8 in. thick, 31/4 in. exposed Ig, spec	ea
8020-00-850-0084 BRUSH, PAINT: oval w/chisel edge l/2-inch. w, 1-7/8 in. min exposed lg, spec H-B-491, type l, class 1. ea 7920-00-255-5135 BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-l/4 in. lg, spec H-B-178, type l, class 2. ea 6850-00-984-5863 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. cn 5350-00-192-5049 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec P-C-451, type l, class 1. pg 7920-00-292-9204 CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec P-C-458, class 1. pg 7920-00-292-9204 CLOTH, CLEANING COMPOUND, METAL PRETREATMENT: spec MIL-C-15328. kt 6850-00-264-6571 DESICCANT, ACTIVATED: MIL-D-3464. pg 7930-00-249-804 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb 8010-00-111-8005 ENAMEL: blue, lusterless, No. 35109, spec TT-E-516. gl 8010-00-111-8005 ENAMEL: blue, lusterless, No. 34087, spec TT-E-516. gl 8010-00-111-8010 ENAMEL: forest green (camouflage) MIL-E-52798, 5 gl. gl 8010-00-27-2106 ENAMEL: forest green (camouflage) MIL-E-52798, 5 gl. gl 8010-00-27-216 ENAMEL: forest green (camouflage) MIL-E-52798, 5 gl. gl 8010-00-27-216		H-B-420, class 1, grade B.	
type I, class 1. 7920-00-255-5135 BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-l/4 in. Ig, spec H-B-178, type 1, class 2. ea 6850-00-984-5853 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. cn 5350-00-192-5049 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec P-C-451, type I, class 1. pg 5350-00-221-0872 CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec P-C-458, class 1. pg 7920-00-292-9204 CLOTH, CLEANING: linitess fabric, 18 in. X 16-V1 in., spec CCC-C-46, type I, class 1. pg 7930-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1, class 1. bg 8030-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb 8010-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec T-E-516. pt 8010-00-249-8031 DETERGENT, GENERAL PURPOSE: 5 lb, spec T-E-516. pt 8010-00-297-0801 ENAMEL: blue, lusterless, No. 35109, spec TT-E-516. pt 8010-00-297-0801 ENAMEL: forest green (camouflage) MIL-E-52798 5 gl. gl 8010-00-297-2116 ENAMEL: blue, lusterless, No. 34087, spec TT-E-516. pt 8010-00-297-616 ENAMEL: blue, lusterless, No. 34087, spec TT-E-516. pt <	8020-00-850-0084	BRUSH, PAINT: oval w/chisel edge l/2-inch. w, 1-7/8 in. min exposed lg, spec H-B-491,	ea
Class 1. BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-l/4 in. Ig, spec H-B-178, type 1, class 2. ea 7920-00-255-5135 BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-l/4 in. Ig, spec H-B-178, type 1, class 2. ea 6850-00-984-5853 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. cn 5350-00-192-5049 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec P-C-451, type I, class 1. pg 7920-00-292-9204 CLOTH, CLEANING: lintless fabric, 18 in. X 16-V1 in., spec CCC-C-46, type I, class 1. pg 8030-00-168-8577 COATING COMPOUND, METAL PRETREATMENT: spec MIL-C-15328. kt 6850-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb 8010-00-111-8005 ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516. gl 8010-00-111-8016 ENAMEL: torest green (camouflage) MIL-E-52798 1 gl. gl 8010-00-297-0801 ENAMEL: torest green (camouflage) MIL-E-52798 5 gl. gl 8010-00-2111-8010 ENAMEL: torest green (camouflage) MIL-E-52798 1 gl. gl 8010-00-237-7216 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 8010-00-237-7216 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 7510-00-191-6030 INK, MARKING		type I,	
7920-00-255-5135 BRUSH, WIRE, SCRATCH: cop-beryllium curved nandle; 13-l/4 in. lg, spec H-B-178, type ea 1, class 2. class 2. class 2. cn 5350-00-192-5049 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. cn pg 5350-00-192-5049 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec pg 5350-00-221-0872 CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec CC-C-46, type I, class 1. pg 6850-00-282-9204 CLOTH, CLEANING: lintless fabric, 18 in. X 16-V1 in., spec CC-C-46, type I, class 1. pg 6803-00-264-6571 DESICCANT, ACTIVATED: MIL-0-3464. dr 7930-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb 8010-00-318-806 ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516. pt 8010-00-297-0801 ENAMEL: blue, lusterless, No. 35109, spec strized can, spec TT-E-516. gl 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, pressurized can, spec TT-E-516. gl 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 3408			
1, class 2. class 2. 6850-00-984-5853 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. cn 5350-00-192-5049 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec pg 75350-00-221-0872 CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec P-C-458, class 1. pg 7920-00-292-9204 CLOTH, CLEANING: lintless fabric, 18 in. X 16-V1 in., spec CCC-C-46, type I, class 1. pg 8030-00-165-8577 COATING COMPOUND, METAL PRETREATMENT: spec MIL-C-15328. kt 6850-00-264-6571 DESICCANT, ACTIVATED: MIL-D-3464. gl 9010-00-111-8005 ENAMEL: black (camouflage) MIL-E-52798, 1 gl. gl 8010-00-111-8005 ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516. pt 8010-00-111-8010 ENAMEL: blue, lusterless, No. 35109, spec TT-E-516. gl 8010-00-111-8010 ENAMEL: ofrest green (camouflage) MIL-E-52798, 1 gl. gl 8010-00-111-8010 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 8010-00-111-8010 ENAMEL: olive drab, lusterless, No. 37038, spec TT-E-516. gl 8010-00-111-8010 INK, MARKING, STENCIL: black, No. 37038, spec TT-E-516. gl 8010-00-297-9766<	7920-00-255-5135	BRUSH, WIRE, SCRATCH: cop-beryllium curved handle; 13-1/4 in. ig, spec H-B-178, type	ea
Class 2. Class 2. 6850-00-984-5853 CLEANING COMPOUND, SOLVENT: spec M IL-C-81302. cn 5350-00-192-5049 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec pg 5350-00-221-0872 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec pg 5350-00-221-0872 CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., spec pg 5350-00-229-9204 CLOTH, CLEANING: linitess fabric, 18 in. X 16-V1 in., spec CCC-C-46, type I, class 1. pg 8030-00-165-8577 COATING COMPOUND, METAL PRETREATMENT: spec MIL-C-15328. kt 6850-00-264-6571 DESICCANT, ACTIVATED: MIL-D-3464. dr 7930-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb 8010-00-111-8005 ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516. gl 8010-00-297-0801 ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl. gl 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl <td></td> <td></td> <td></td>			
Clarking Coll PAC StressClarking Coll PAC StressClarking Coll PAC StressClarking Coll PAC Stress5350-00-192-5049CLOTH, ABRASIVE: closed coating aloxide, #120 grit extra fine, 9 X 11 in., specpg5350-00-221-0872CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec P-C-458, class 1.pg7920-00-292-9204CLOTH, CLEANING: lintless fabric, 18 in. X 16-V1 in., spec CCC-C-46, type I, class 1.pg8030-00-165-8577COATING COMPOUND, METAL PRETREATMENT: spec MIL-C-15328.kt6850-00-224-6571DESICCANT, ACTIVATED: MIL-D-3464.dr7930-00-249-8036DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1.lb8010-00-111-8005ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516.gl8010-00-297-0801ENAMEL: blue, lusterless, No. 35109, spec TT-E-516gl8010-00-297-0801ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl.gl8010-00-297-1816ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl8010-00-297-2161ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl8010-00-297-2161FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1.bx7510-00-191-6030INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795. Type I or 1111Igl7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795. Type I.pt7535-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 2.pg8010-00-936-8372PAPER, ABRASIV	6950 00 004 5952		00
S350-00-192-5049 CLOTH, ADRASIVE: closed coating abolde, #120 gift exit a line, 9 × 11 lin., spec pg 5350-00-221-0872 CLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec P-C-458, class 1. pg 7920-00-292-9204 CLOTH, CLEANING: lintless fabric, 18 in. X 16-V1 in., spec CCC-C-46, type I, class 1. pg 8030-00-165-8577 COATING COMPOUND, METAL PRETREATMENT: spec MIL-C-15328. kt 6850-00-264-6571 DESICCANT, ACTIVATED: MIL-D-3464. dr 7930-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb 8010-00-111-8005 ENAMEL: black (camouflage) MIL-E-52798, 1 gl. gl 8010-00-297-0801 ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516. pt 8010-00-111-7937 ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl. gl 8010-00-297-2016 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. pt 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 37038, spec TT-I-1795. Type I or 11111 gl 7510-00-191-6030 INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795. Type I or 11111 gl 7510-00-186-88272 PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., obsed coat, spec P-P-121, class 2. pg 7530-00-221-081<	5350 00 102 5040	CLEANING COMPOUND, SOLVENT. Spec MIL-C-01302.	
Stable DeckerCLOTH, ABRASIVE: crocus cloth, 9 X 11 in., spec P-C-458, class 1.pg7920-00-292-9204CLOTH, AERASIVE: crocus cloth, 9 X 11 in., spec CCC-C-46, type I, class 1.pg8030-00-165-8577COATING COMPOUND, METAL PRETREATMENT: spec MIL-C-15328.kt6850-00-264-6571DESICCANT, ACTIVATED: MIL-D-3464.dr7930-00-249-8036DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1.lb8010-00-111-8005ENAMEL: black (camouflage) MIL-E-52798, 1 gl.gl8010-00-297-0801ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516.pt8010-00-111-8010ENAMEL: blue, lusterless, No. 35109, spec TT-E-516gl8010-00-111-7937ENAMEL: forest green (camouflage) MIL-E-52798 f gl.gl8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.pt8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.pt8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl8010-00-297-2116ENAMEL: olive drab, lusterless, No. 37038, spec TT-I-1795. Type I or 11111gl7510-00-191-6030INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795. Type I or 11111gl7530-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795. Type I or 11111pt7530-00-224-6732PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 1.pg8010-00-936-8372PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec CP-P-121, class 1.pg8010-00-924-6731SAL, ANTIPLLFERAGE: 0.500 in dia lead, 2	5550-00-192-5049	$P_{1}C_{2}/151$ type L closed coaling aloxide, #120 gift extra line, 9 × 11 lin., spec	Pg
DisplayCLOTH, ADNORVE. Biologistic, 1900 StateDisplayDisplayDisplay7920-00-292-9204CLOTH, CLEANING: Initidess fabric, 18 in. X 16-V1 in., spec CCC-C-46, type I, class 1.pg8030-00-165-8577COATING COMPOUND, METAL PRETREATMENT: spec MIL-C-15328.kt6850-00-249-8036DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1.lb8010-00-111-8005ENAMEL: black (camouflage) MIL-E-52798, 1 gl.gl8010-00-297-0801ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516.gl8010-00-297-0801ENAMEL: forest green (camouflage) MIL-E-52798 5 gl.gl8010-00-297-0801ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl.gl8010-00-297-0801ENAMEL: olive drab, lusterless, No. 34087, pressurized can, spec TT-E-516.gl8010-00-297-0801ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl8010-00-297-116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl8010-00-297-616FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1.bx7510-00-191-6030INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 1111Igl7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795. Type I.pt75350-00-186-8821PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec MS 51938-6.pt8135-00-081-3180SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-081-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grad	5350-00-221-0872	CLOTH ABRASIVE: crocus cloth 9 X 11 in spec P-C-458 class 1	na
8030-00-165-8577 COATING COMPOUND, METAL PRETREATMENT: spec MIL-C-15328. kt 8030-00-264-6571 DESICCANT, ACTIVATED: MIL-D-3464. dr 7930-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb 8010-00-111-8005 ENAMEL: black (camouflage) MIL-E-52798, 1 gl. gl 8010-00-297-0801 ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516. pt 8010-00-111-8005 ENAMEL: blue, lusterless, No. 35109, spec TT-E-516 gl 8010-00-297-0801 ENAMEL: forest green (camouflage) MIL-E-52798 5 gl. gl 8010-00-111-7937 ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl. gl 8010-00-297-2016 ENAMEL: olive drab, lusterless, No. 34087, pressurized can, spec TT-E-516. pt 8010-00-297-72116 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 5315-00-597-9766 FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1. bx 7510-00-191-6030 INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 11111 gl 7530-00-224-6732 INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795. Type I. pt 7530-00-221-0881 PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121	7920-00-292-9204	CLOTH CLEANING lintless fabric 18 in X 16-V1 in spec CCC-C-46 type L class 1	pg
6850-00-264-6571 DESICCANT, ACTIVATED: MIL-D-3464. dr 7930-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb 8010-00-111-8005 ENAMEL: black (camouflage) MIL-E-52798, 1 gl. gl 8010-00-297-0801 ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516. pt 8010-00-297-0801 ENAMEL: blue, lusterless, No. 35109, spec TT-E-516 gl 8010-00-111-8010 ENAMEL: forest green (camouflage) MIL-E-52798 5 gl. gl 8010-00-111-7937 ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl. gl 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, pressurized can, spec TT-E-516. pt 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 5315-00-597-9766 FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1. bx 7510-00-191-6030 INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 1111I gl 7510-00-224-6732 INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795, Type I. pt 7530-00-186-8821 PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., olcosed coat, spec P-P-121, class 2. pg 7540-00-902-0426 SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6. hd <	8030-00-165-8577	COATING COMPOUND METAL PRETREATMENT: spec MII -C-15328	kt
7930-00-249-8036 DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1. lb 8010-00-111-8005 ENAMEL: black (camouflage) MIL-E-52798, 1 gl. gl 8010-00-297-0801 ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516. pt 8010-00-297-0801 ENAMEL: blue, lusterless, No. 35109, spec TT-E-516 gl 8010-00-111-8010 ENAMEL: forest green (camouflage) MIL-E-52798, 5 gl. gl 8010-00-111-7937 ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl. gl 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, pressurized can, spec TT-E-516. pt 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 5315-00-597-9766 FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1. bx 7510-00-191-6030 INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 1111I gl 7510-00-224-6732 INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795. Type I. pt 5350-00-221-0881 PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 2. pg 5340-00-902-0426 SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6. hd 8135-00-081-3180 SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick	6850-00-264-6571	DESICCANT. ACTIVATED: MIL-D-3464.	dr
8010-00-111-8005 ENAMEL: black (camouflage) MIL-E-52798, 1 gl. gl 8010-00-935-7156 ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516. pt 8010-00-297-0801 ENAMEL: blue, lusterless, No. 35109, spec TT-E-516 gl 8010-00-111-8010 ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl. gl 8010-00-111-8010 ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl. gl 8010-00-111-7937 ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl. gl 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, pressurized can, spec TT-E-516. pt 8010-00-297-2116 ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516. gl 5315-00-597-9766 FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1. bx 7510-00-191-6030 INK, MARKING, STENCIL: black, No. 37875, spec TT-I-1795. Type I or 111II gl 7510-00-224-6732 INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795, Type I. pt 5350-00-221-0881 PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2. pg 5340-00-902-0426 SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6. hd 8135-00-836-0810 TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.	7930-00-249-8036	DETERGENT, GENERAL PURPOSE: 5 lb, spec P-D-220, type 1.	lb
8010-00-935-7156ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516.pt8010-00-297-0801ENAMEL: blue, lusterless, No. 35109, spec TT-E-516gl8010-00-111-8010ENAMEL: forest green (camouflage) MIL-E-52798 5 gl.gl8010-00-111-7937ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl.gl8010-00-848-9272ENAMEL: olive drab, lusterless, No. 34087, pressurized can, spec TT-E-516.pt8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl5315-00-597-9766FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1.bx7510-00-191-6030INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 111IIgl7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795, Type I.bx5350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 2.pg5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-081-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grade A, fin. 1.roeast 20 in. X 0.005 in. thick, specea	8010-00-111-8005	ENAMEL: black (camouflage) MIL-E-52798, 1 gl.	gl
8010-00-297-0801ENAMEL: blue, lusterless, No. 35109, spec TT-E-516gl8010-00-111-8010ENAMEL: forest green (camouflage) MIL-E-52798 5 gl.gl8010-00-111-7937ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl.gl8010-00-848-9272ENAMEL: olive drab, lusterless, No 34087, pressurized can, spec TT-E-516.pt8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl5315-00-597-9766FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1.bx7510-00-191-6030INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 1111Igl7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795, Type I.pt5350-00-186-8821PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2.pg9350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.pg8010-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-081-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grade A, fin. 1.TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	8010-00-935-7156	ENAMEL: blue, lusterless, No. 35109, pressurized can, spec TT-E-516.	pt
8010-00-111-8010ENAMEL: forest green (camouflage) MIL-E-52798 5 gl.gl8010-00-111-7937ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl.gl8010-00-848-9272ENAMEL: olive drab, lusterless, No 34087, pressurized can, spec TT-E-516.pt8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl5315-00-597-9766FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1.bx7510-00-191-6030INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 11111gl7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795, Type I.pt5350-00-186-8821PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2.pg5350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.pg8010-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-836-0810TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	8010-00-297-0801	ENAMEL: blue, lusterless, No. 35109, spec TT-E-516	gl
8010-00-111-7937ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl.gl8010-00-848-9272ENAMEL: olive drab, lusterless, No 34087, pressurized can, spec TT-E-516.pt8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl5315-00-597-9766FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1.bx7510-00-191-6030INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 11111gl7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795, Type I.pt5350-00-186-8821PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2.pg5350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.pg8010-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-836-0810TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	8010-00-111-8010	ENAMEL: forest green (camouflage) MIL-E-52798 5 gl.	gl
8010-00-848-9272ENAMEL: olive drab, lusterless, No 34087, pressurized can, spec TT-E-516.pt8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl5315-00-597-9766FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1.bx7510-00-191-6030INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 1111Igl7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795, Type I.pt5350-00-186-8821PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2.pg5350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.pg8010-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-81-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grade A, fin. 1.TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	8010-00-111-7937	ENAMEL: forest green (camouflage) MIL-E-52798, 1 gl.	gl
8010-00-297-2116ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.gl5315-00-597-9766FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1.bx7510-00-191-6030INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 111IIgl7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795, Type I.pt5350-00-186-8821PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2.pg5350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.pg8010-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-836-0810TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	8010-00-848-9272	ENAMEL: olive drab, lusterless, No 34087, pressurized can, spec TT-E-516.	pt
5315-00-597-9766FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1.bx7510-00-191-6030INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 111IIgl7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795, Type I.pt5350-00-186-8821PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2.pg5350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.pg5340-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-081-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grade A, fin. 1.TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	8010-00-297-2116	ENAMEL: olive drab, lusterless, No. 34087, spec TT-E-516.	gl
7510-00-191-6030INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 111IIgl7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec TT-I-1795, Type I.pt5350-00-186-8821PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2.pg5350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.pg8010-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-081-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grade A, fin. 1.TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	5315-00-597-9766	FASTENER, CORRUGATED: wood joint, spec FF-F-133, type 1.	bx
7510-00-224-6732INK, MARKING, STENCIL: white, No. 37875, spec T1-I-1795, Type I.pt5350-00-186-8821PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2.pg5350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.pg8010-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-081-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grade A, fin. 1.TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	7510-00-191-6030	INK, MARKING, STENCIL: black, No. 37038, spec TT-I-1795. Type I or 111I	gl
5350-00-186-8821PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2.pg5350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.pg8010-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-081-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grade A, fin. 1.TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	7510-00-224-6732	INK, MARKING, STENCIL: white, No. 37875, spec 11-I-1795, Type I.	pt
5350-00-221-0881PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.pg8010-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-081-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grade A, fin. 1.TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	5350-00-186-8821	PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., closed coat, spec P-P-121, class 2.	pg
8010-00-936-8372PRIMER, COATING: zinc-chromate, pressurized can, spec TT-P-664.pt5340-00-902-0426SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 in. 4 strand wire, spec MS 51938-6.hd8135-00-081-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grade A, fin. 1.TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	5350-00-221-0881	PAPER, ABRASIVE: garnet, #150 grit, 9 X 11 in., open coat, spec P-P-121, class 1.	pg ●
8135-00-081-3180SHEET, PLASTIC: polyethylene, colorless, 50 in. X 20 in. X 0.005 in. thick, specea8135-00-836-0810TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	8010-00-936-8372	PRIMER, COATING: ZINC-Chromate, pressurized can, spec 11-P-664.	pt
8135-00-836-0810SHEET, PLASTIC. polyetinglene, coloness, 50 in. X 20 in. X 0.005 in. thick, speceaL-P-378, type 1, grade A, fin. 1.8135-00-836-0810TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1.ro	5340-00-902-0426	SEAL, ANTIPILFERAGE: 0.500 in dia lead, 24 ln. 4 strand wire, spec MS 51938-6.	na
8135-00-836-0810 TAPE, PRESSURE-SENSITIVE, ADHESIVE, BLUE: spec PPP-T-60, class 1. ro	0155-00-001-5180	SHEET, FLASTIC, polyeunyiene, coloness, so in. A 20 in. A 0.005 in. thick, spec L_P_378 type 1, grade A fin. 1	ea
013-00-030-0010 TAFE, FRESSORE-SENSITIVE, ADHESIVE, BLOE, SPECFFF-1-00, Glass I. 10	8135-00-836-0910	TADE DRESSIDE SENSITIVE ADHESIVE BLUE and DDD T-60 close 1	ro 🖣
8010-00-160-5794 THINNER SYNTHETIC RESIN ENAMEL spec TT-T-306	8010-00-160-5704	THINNER SYNTHETIC RESIN ENAMEL ON TT-T-306	
6810-00-290-0048 TOLUENE TECHNICAL 5-gal can spec TT-T-548	6810-00-290-0048	TOI UENE TECHNICAL: 5-gal can spec TT-T-548	cn

Change 1 D-1

BY Order of the Secretary of the Army:

E .C. MEYER General United States Army Chief of Staff

Official

J. C. PENNINGTON Major General United States Army The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-32, Organizational Maintenance requirements for Section II, System 8 B for LANCE Missile System.

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Linear Measure

- 1 centimeter = 10 millimeters = .39 inch
- 1 decimeter = 10 centimeters = 3.94 inches 1 meter = 10 decimeters = 39.37 inches
- 1 dekameter = 10 meters = 32.8 feet
- 1 hectometer = 10 dekameters = 328.08 feet
- 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

- 1 centigram = 10 milligrams = .15 grain
- 1 decigram = 10 centigrams = 1.54 grains
- 1 gram = 10 decigram = .035 ounce
- 1 dekagram = 10 grams = .35 ounce 1 hectogram = 10 dekagrams = 3.52 ounces
- 1 kilogram = 10 hectograms = 2.2 pounds
- 1 quintal = 100 kilograms = 220.46 pounds
- 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

- 1 centiliter = 10 milliliters = .34 fl. ounce
- 1 deciliter = 10 centiliters = 3.38 fl. ounces 1 liter = 10 deciliters = 33.81 fl. ounces
- 1 dekaliter = 10 liters = 2.64 gallons
- 1 hectoliter = 10 dekaliters = 26.42 gallons
- 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

- 1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
- 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
- 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
- 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
- 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

- 1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
- 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
- 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	То	Multiply by	To change	То	Multiply by
inches feet	centimeters	2.540	ounce-inches	newton-meters	.007062
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	galions	.264
pounas	Kilograms	.454	grams	ounces	.035
snort tons	metric tons	.907	Kilograms	pounas	2.205
pound-reet	newton-meters	1.365	metric tons	Short tons	1.102
pound-inches	newton-meters	.11375			

Temperature (Exact)

°F	Fahrenheit	5/9 (after	Celsius	°C
	temperature	subtracting 32)	temperature	

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