

# INDEX OF U.S. ARMY UNITIZATION, STORAGE AND OUTLOADING DRAWINGS FOR AMMUNITION AND COMPONENTS



This drawing applies to all activities having responsibility for unitizing, storing and out-loading ammunition commodities, related components, and ground support equipment and replaces Department of Army Pamphlet 75-5.

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| U.S. ARMY MATERIEL COMMAND DRAWING  |   |   |         |   |
|---|---|---|---------|---|
| APPROVED BY ORDER OF COMMANDING GENERAL, U.S.ARMY MATERIEL COMMAND  |   | EXPLOSIVE SAFETY ENGINEERING DIVISION   |         | U.S.ARMY TECHNICAL CENTER FOR EXPLOSIVES SAFETY |
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### 1-1. Purpose.

This U. S. Army AMC 19-48 series drawing is published as an index of all Defense Ammunition Center (DAC) unitization, storage and outloading drawings applicable to all Single Manager for Conventional Ammunition (SMCA) items, Army Class V munitions items, and ground support equipment for guided missile and large rockets. This index provides a reference for the acquisition of procedural drawings to insure the safe, economic, and standardized unitization, storage, handling, and outloading of ammunition commodities and related ground support equipment.

### 1-2. Suggested Improvements.

The proponent of this index is the Defense Ammunition Center. Users are invited to send comments and suggested improvements to include changes/additions to drawings directly to Defense Ammunition Center, ATCL-ACE, 1 C Tree Road, Building 35, McAlester, OK 74501-9053 or e-mail, [usarmy.mcalester.usamc.mbx.dac-det@mail.mil](mailto:usarmy.mcalester.usamc.mbx.dac-det@mail.mil).

### 1-3. Policy.

Department of Army (DA) policy regarding use of unitization, storage and outloading drawings for ammunition commodities is set forth in AR 740-1, chapter 11. This index provides a listing of approved drawings which are to be used to the maximum extent possible when dealing with the unitization, storage and outloading of ammunition commodities.

### 1-4. Description of Data.

a. *Drawing Categories.* This index has been separated into seven general sections, as outlined in the Table of Contents on pages i and ii. Each drawing listed within this index is identified by a drawing number and a file number, or by a project number. Drawings may be viewed and downloaded via the Internet. The Internet address is <https://www.dau.edu/cop/ammo/Pages/Default.aspx> (CAC required). Note that this is an ongoing project, and not all older drawings have been uploaded yet. Newer drawings are uploaded within one month of completion.

b. *Drawing Numbers.* Most unitization, storage, and outloading drawings listed within this index are numbered "19-48-\*\*\*\*\_\*\*\*\*\*", where 19-48 indicates the series of the drawing, the first set of asterisks indicate the drawing number, and the second set of asterisks indicate the file number. The file number can be further used to identify the type of drawing listed. See Table 1 and Table 2 at right for explanation of the numeric and alphabetic file number designators, respectively. Two letter codes at the beginning of the file number describe the type of drawing, for example, "GM" indicates guided missile or rocket drawings, "CB" indicates chemical munitions drawings, "GSE" indicates ground support equipment drawings, "SP" indicates special project drawings, such as Air Force items, and "WE" indicates weapons drawings, such as M119 Howitzers.

Example:

| Class | Division | Drawing | File     |
|-------|----------|---------|----------|
| 19    | 48       | 4153    | 15PA1002 |

Note: Under "File" in the example above, the number "15" indicates trailer or container on flatcar. The letter "P" identifies the commodity as being palletized or unitized, the letter "A" further identifies the commodity as being in a box, and the number "1002" identifies the specific drawing in a numerical sequence.

### 1-5. Navy Drawings.

Selected Navy drawings are referenced within this document. Copies of these drawings must be requested from the Navy. Refer to Weapons Requirement (WR) 51, WR 52, WR 54, Military Standard (MS) 1320, MS 1322, MS 1323, MS 1325 or MS 1386 for further guidance.

| Designator | Magazine or Type of Lading                     |
|------------|--|
| 1          | Igloo or Arch-Type Magazine                    |
| 2          | Standard Above-Ground Magazine                 |
| 3          | Box Type Magazine                              |
| 4          | Corbetta Magazine                              |
| 5          | Carloading (Rail)                              |
| 6          | Smokeless Powder Magazine                      |
| 7          | Smokeless Powder Magazine w/o center posts     |
| 8          | HE (high explosives) Magazine                  |
| 10         | Warehouse                                      |
| 11         | Truckloading                                   |
| 12         | Storehouse, Liquid Propellant, Group II        |
| 13         | Storehouse, Liquid Propellant, Group I         |
| 14         | Stradley Magazine                              |
| 15         | Trailer or Container on Flatcar (TOFC or COFC) |
| 16         | Portable Container Filling                     |
| 17         | Tactical Vehicle                               |
| 18         | Shiploading                                    |
| 20         | Overpack or Unitization                        |
| 21         | Outdoor Storage                                |
| 22         | Steel-Arch or Oval-Arch Magazine               |

| Designator | Package or Type of Munition                      |
|------------|--|
| A          | Boxed  |
| B          | Bomb   |
| C          | Crated   |
| D          | Bundled  |
| E          | Separate Loading Projectiles                     |
| F          | Metal Drums                                      |
| H          | Portable Container                               |
| J          | Metal Container with Skids                       |
| K          | Plastic Container                                |
| M          | Mixed or Metal Package                           |
| N          | Fiberboard Drum                                  |
| P          | Palletized or Unitized                           |
| Q          | All Types of Packages/Ammunition                 |
| AD         | AADCP (Army Air Defense Command Post)            |
| AT         | ATACMS (Army Tactical Missile System)            |
| AV         | Avenger  |
| CH         | Chaparral  |
| DR         | Dragon   |
| FA         | Forward Area Alert Radar                         |
| HA         | Hawk   |
| HF         | Hellfire   |
| JV         | Javelin  |
| LC         | Lance  |
| LS         | Land Combat Support                              |
| MS         | Multiple System                                  |
| PA         | Patriot  |
| RS         | (G)MLRS ((Guided) Multiple Launch Rocket System) |
| SH         | Shillelagh                                       |
| SR         | Stinger  |
| TD         | Target Missile and Drones                        |
| TO         | TOW  |



# Chapter 1

## Conventional Ammunition

Items in this chapter are listed by Federal Supply Class (FSC). For example, 120MM ammunition is listed under FSC 1315 (Ammunition from 75MM thru 125MM). If a particular item cannot be found under a specific FSC, look in the section titled "General Conventional Ammunition - 13xx". This section contains drawings that apply to more than one FSC or that apply to all 1300 series ammunition.



**Note:** The following symbols are valid throughout this chapter:

\* = These drawings include appendices for specific items. A separate listing of items by National Stock Number and their applicable appendix number is contained in an individual "Index of Appendices", identified as Appendix 0 for each series.

^ = These drawings are appendices to a basic unitization drawing. For a list of related storage and transportation drawings, see index numbers 2 and 10 on page 1-2, 1 on page 1-3, 3 and 4 on page 1-4, 9 on page 1-22, and 1 on page 1-33, as applicable.

# General Conventional Ammunition

## 13xx

- <1> Ammunition and Components, Explosives, and Other Dangerous Articles:  
TOFC, Van Trailer: 19-48-4224-15Q1
- <2> Ammunition in Cylindrical Metal Containers on Metal or Resin-Treated Pallets:  
Index: 19-48-4231/0-20PM1006  
Storage: 19-48-4250-1-2-3-4-14-22PM1004 - Revision 1  
\*Unit: 19-48-4231-20PM1006 - Revision 4
- <3> Ammunition in Cylindrical Metal or Plastic Containers on Wooden Pallets with  
Metal Top Lift:  
\*Unit: 19-48-4326-20PM1012 - Revision 3
- <4> Ammunition in Metal or Plastic Boxes on Metal Pallets:  
\*Unit: 19-48-4232-20PM1007 - Revision 2
- <5> Ammunition Items in Storage and Transport Frame (STF):  
End Opening ISO Container and Flatbed Trailer: 19-48-4350-11-15A1000  
Storage and Transport Frame: 19-48-4349-16A1001
- <6> Apache Helicopter Ammo for the Modular Aviation Resupply/Rearm System  
(MARRS):  
Tactical Vehicle: DA-115
- <7> Boxed Ammunition and Components (Palletized and Unpalletized):  
Tactical Vehicle: 19-48-4901/4-CA17Q2
- <8> Boxed Ammunition and Components in M592 Metal Boxes on Metal Pallets:  
Boxcar: 19-48-4342-5PM1008  
Unit: 6214179
- <9> Boxed Ammunition and Components on M998 HMMWV for Military Air Deploy-  
ment:  
Tactical Vehicle: 19-48-4902-CA17Q3
- <10> Boxed Ammunition and Components on Skidded Bases:  
Boxcar: 19-48-4123-5PA1003  
Index: 19-48-4138/0-20PA1000 - Revision 3  
Storage: 19-48-4125-1-2-3-4-14-22PA1003 - Revision 2  
\*Unit: 19-48-4138-20PA1000 - Revision 6  
Van Trailer: 19-48-4124-11PA1004

(General Conventional Ammunition continued)



# **General Conventional Ammo (Cont.)**

- <1> **Boxed Ammunition and Components on Wooden Pallets:**  
6' Open Top ISO Container: 19-48-4187-15PA1007  
Boxcar: 19-48-4115-5PA1002 - Revision 1  
Hyundai Freight Car: 19-48-4369-5PA1007  
Index: 19-48-4116/0-20PA1002 - Revision 5  
Storage: 19-48-4118-1-2-3-4-14-22PA1002 - Revision 2  
TOFC, Van, Palla-Gard: 19-48-4182-15PA1006  
\*Unit: 19-48-4116-20PA1002 - Revision 14  
Van Trailer: 19-48-4117-11PA1003 - Revision 2
- <2> **Boxed Ammunition and Components on Wooden Pallets and Skidded Bases:**  
CROP (2 Chimneys + 1 Crosswise x 1H): 19-48-4906/50-CA17Q7  
CROP (2 Chimneys + 1 Crosswise x 2H): 19-48-4906/51-CA17Q7  
CROP (2 Chimneys + 2 Crosswise x 1H): 19-48-4906/52-CA17Q7  
CROP (2L x 2W + 1 Crosswise x 2H): 19-48-4906/7-CA17Q7  
CROP (2 Unique Pallet Units - 2 Chimneys + 2 Crosswise x 2H): 19-48-4906/113-CA17Q7  
CROP (2 Unique Units - 2 Chimneys x 2H + 2 Crosswise x 1H): 19-48-4906/108-CA17Q7  
CROP (2 Unique Units - 4L x 1W x 1H + 4L x 1W x 1H): 19-48-4906/105-CA17Q7  
CROP (3L x 2W x 1H): 19-48-4906/3-CA17Q7  
CROP (3L x 2W + 1 Crosswise x 1H): 19-48-4906/4-CA17Q7  
CROP (3L x 2W + 1 Crosswise x 2H): 19-48-4906/5-CA17Q7  
CROP (3 Unique Units - 1L x 2W + 1 Chimney + 1L x 2W x 1H): 19-48-4906/106-CA17Q7  
CROP (3 Unique Pallet Units - 2L x 3W x 1H + 1L x 2W x 1H): 19-48-4906/103-CA17Q7  
CROP (4L x 2W x 1H): 19-48-4906/1-CA17Q7  
CROP (4L x 2W x 2H): 19-48-4906/2-CA17Q7  
CROP (4L x 2W x 2H + 4 - 3rd Layer): 19-48-4906/6-CA17Q7  
CROP (4L x 3W + 2 Crosswise x 2H): 19-48-4906/40-CA17Q7  
CROP (5L x 2W x 2H): 19-48-4906/41-CA17Q7  
CROP (4 Unique Units - 4L x 2W x 1H + 1L x 2W x 1H): 19-48-4906/107-CA17Q7  
CROP (5 Unique - 2L x 2W x 1H + 1L x 2W x 1H + 1L x 2W x 2H): 19-48-4906/109-CA17Q7  
End Opening ISO Container: 19-48-4153-15PA1002 - Revision 1  
European Boxcar: 19-48-4288-5PA1006  
MILVAN: 19-48-4166-15PA1003 - Revision 1  
Side Opening ISO Container: 19-48-4267-15PA1009  
TOFC, Van Trailer, BHD: 19-48-4036-15PA1000  
TOFC, Van Trailer, Mech: 19-48-4028-15P1
- <3> **Boxed Ammunition and Components, Not Unitized:**  
Boxcar: 19-48-1634-5A29 - Revision 4  
Storage: 19-48-4005-1-2-3-4-14-22A1000 - Revision 4  
TOFC, Van Trailer, BHD: 19-48-4037-15A1000 - Revision 1  
TOFC, Van Trailer, Mech: 19-48-4048-11-15A1000  
Van Trailer: 19-48-4013-11A1001
- <4> **Boxed Ammunition and Components, Small Quantities/Lots:**  
Storage: 19-48-4146-1-2-3-4-14-22Q1000

(General Conventional Ammunition continued)

# General Conventional Ammo (Cont.)

- <1> Boxed Ammunition and Separate Loading Projectiles, Mixed Loads:  
6' Open Top Container: 19-48-4190-15PM1006  
End Opening ISO Container: 19-48-4189-15PM1005
- <2> Boxed Commercial Ammunition and Components in Pallet Boxes:  
Unit: 19-48-4168-20PA1005 - Revision 1
- <3> Boxed Military Ammunition and Components in Pallet Boxes:  
Index: 4169/0-20PA1006 - Revision 2  
\*Unit: 19-48-4169-20PA1006 - Revision 2
- <4> Boxed WP and PWP Ammunition on Wooden Pallets:  
Index: 19-48-4015/0-20PA1004 - Revision 3  
\*Unit: 19-48-4015-20PA1004 - Revision 5
- <5> Boxed WP and PWP Ammunition, Not Unitized:  
Boxcar: 19-48-4009-5A1000 - Revision 1  
TOFC, Van Trailer, BHD: 19-48-4035-15A1001 - Revision 1  
Van Trailer: 19-48-4010-11A1000 - Revision 1
- <6> Bulk Explosives, Propellants and Complete Rounds packed in Metal Containers, Loose:  
Arch Type Magazine: 19-48-4007/2-1M1000 - Revision 2  
Arch Type Magazine: 19-48-4007/3-1M1000 - Revision 2  
Arch Type Magazine: 19-48-4007/4-1M1000 - Revision 2  
Arch Type Magazine: 19-48-4007/5-1M1000 - Revision 2  
Boxcar: 19-48-4017-5M1002 - Revision 1  
Boxcar: 19-48-4017 App A-5M1002  
Boxcar: 19-48-4017 App B-5M1002  
Corbetta Magazine: 19-48-4007/7-4M1000 - Revision 2  
Igloo/Arch Type Magazine: 19-48-4007/1-1M1000 - Revision 2  
Rectangular Magazine: 19-48-4007/6-3M1000 - Revision 2  
Van Trailer: 19-48-4021-11M1000  
Van Trailer: 19-48-4021 App A-11M1000
- <7> Bulk Explosives, Propellants and Complete Rounds, Loose and Palletized:  
TOFC, Van Trailer, BHD: 19-48-4033-15M1000 - Revision 1
- <8> Cargo Box Conversion for M796 Bolster Trailer  
Tactical Vehicle: D-SMCAC 4501
- <9> Conventional Ammunition Items:  
Tactical Vehicle: 19-48-4900-CA17Q1 - Revision 2

(General Conventional Ammunition continued)

# **General Conventional Ammo (Cont.)**

- <1> Conventional Ammunition Items, Palletized and Unpalletized:  
Dromedary: 19-48-4252-11Q1000
- <2> Conventional Ammunition Items and Guided Missiles:  
CROP: 19-48-4906-CA17Q7  
On-Depot Rail/Truck: 19-48-4306-5-11Q1000
- <3> Conventional Ammunition Items at OCONUS Installations (Increased Density):  
Stradley Magazine: 19-48-4227-14PQ1000
- <4> Conventional Ammunition Items for Rapid Deployment by Rail and Ship (Unit Basic Load):  
Tactical Vehicle: DA-106
- <5> Conventional Ammo Items on 463L/Intex Pallets for Apache and Cobra Helicopters:  
463L Pallet: DA-111
- <6> Conventional Ammunition Items on 463L/Intex Pallets for Comanche & Kiowa Helicopters:  
463L Pallet: DA-111/1
- <7> Conventional Ammunition Items on Air Drop Pallets:  
Tactical/Van Trailer: DA-110
- <8> Conventional Ammunition Items on PLS Flatracks for on/off Highway:  
Tactical Vehicle: 19-48-4903-CA17Q4
- <9> Conventional Ammunition Items on PLS Flatracks for Rapid Deployment by Rail and Ship:  
Tactical Vehicle: DA-114
- <10> Cylindrical Metal Containers on Wooden and Metal Pallets:  
CROP (5L x 2W x 1H - PA116): 19-48-4906/25-CA17Q7  
European Boxcar: 19-48-4287-5PM1006  
TOFC, Van Trailer, Mech: 19-48-4100-15PM1000
- <11> Explosive Items:  
Type IIIA Bunker: 19-48-4109-3Q1000 - Revision 1
- <12> Pallet Box Packing of Resource Recovery & Disposition Account Material for Storage:  
Unit: 19-48-4296-20PM1010
- <13> Palletized Shells Stored with Special Fork Attachment:  
Standard Magazine: 19-48-1221-5P9

(General Conventional Ammunition continued)

# **General Conventional Ammo (Cont.)**

- <1> Pre-Rigged 463L Pallets:  
Tactical Vehicle: D-SMCAC 4502
- <2> Retrograde Ammunition, 37MM thru 105MM, loaded in Pallet Boxes:  
MILVAN: 19-48-4099-15H1003
- <3> Retrograde Ammunition loaded in Pallet Boxes:  
Unit: 19-48-4233-20PE1000 - Revision 4
- <4> Retrograde Ammunition packed in M2A1 Cans, loaded in Pallet Boxes:  
Unit: 19-48-4233/10-20PE1000 - Revision 2
- <5> Retrograde Ammunition packed in PA77 Fiber Containers, loaded in Pallet Boxes:  
Unit: 19-48-4233/11-20PE1000 - Revision 2
- <6> Separate Loading Projectiles, Propelling Charges and Boxed Ammunition, Unitized:  
Korean Gondola: 19-48-4253-5PQ1000
- <7> Special Requirements for MUCOM-Managed Ammunition:  
Boxcar: 19-48-4101-5Q1000
- <8> Strategic Configured Load #13 - Apache:  
CROP: 19-48-4905/13-CA17Q6
- <9> Strategic Configured Load #17 - Bradley:  
CROP: 19-48-4905/17-CA17Q6
- <10> Strategic Configured Load #49 - Kiowa:  
CROP: 19-48-4905/49-CA17Q6
- <11> Strategic Configured Load #51 - HMMWV TOW:  
CROP: 19-48-4905/51-CA17Q6
- <12> Strategic Configured Loads (SCL) - Basic Procedures:  
CROP: 19-48-4905-CA17Q6
- <13> Stryker Brigade Combat Team Basic Load on 463L Pallet:  
Van Trailer: DET 0206
- <14> Unit Basic Load:  
Tactical Vehicle: 19-48-4901/5-CA17Q2

# Ammunition thru 30MM

## 1305

<1> Cartridge, .22 Caliber:

End Opening ISO Container: D-SARAC 4442

^Unit: 19-48-4116/6-20PA1002

^Unit: 19-48-4116/6A-20PA1002

^Unit: 19-48-4116/6B-20PA1002

^Unit: 19-48-4116/6C-20PA1002

^Unit: 19-48-4116/6D-20PA1002

^Unit: 19-48-4116/6E-20PA1002

<2> Cartridge, .30 Caliber:

^Unit: 19-48-4116/8-20PA1002 - Revision 2

^Unit: 19-48-4116/8A-20PA1002

^Unit: 19-48-4116/8B-20PA1002

^Unit: 19-48-4116/8C-20PA1002 - Revision 2

^Unit: 19-48-4116/8D-20PA1002 - Revision 1

^Unit: 19-48-4116/8E-20PA1002 - Revision 1

^Unit: 19-48-4116/8F-20PA1002 - Revision 2

^Unit: 19-48-4116/8G-20PA1002

^Unit: 19-48-4116/8H-20PA1002

^Unit: 19-48-4116/8J-20PA1002

^Unit: 19-48-4116/8K-20PA1002 - Revision 3

^Unit: 19-48-4116/8L-20PA1002

^Unit: 19-48-4116/8M-20PA1002

^Unit: 19-48-4116/8N-20PA1002

^Unit: 19-48-4116/8P-20PA1002

^Unit: 19-48-4116/8R-20PA1002 - Revision 1

^Unit: 19-48-4116/8S-20PA1002 - Revision 1

<3> Cartridge, .32 Caliber, Ball:

^Unit: 19-48-4116/9-20PA1002

^Unit: 19-48-4116/9A-20PA1002

^Unit: 19-48-4116/9B-20PA1002

<4> Cartridge, .338 Caliber, Armor Piercing, XM1162:

^Unit: 19-48-4116/11-20PA1002 - Revision 1

<5> Cartridge, .38 Caliber:

^Unit: 19-48-4116/12-20PA1002 - Revision 1

^Unit: 19-48-4116/12A-20PA1002

^Unit: 19-48-4116/12B-20PA1002

^Unit: 19-48-4116/12C-20PA1002 - Revision 2

<6> Cartridge, .45 Caliber:

^Unit: 19-48-4116/13-20PA1002 - Revision 3

^Unit: 19-48-4116/13A-20PA1002 - Revision 3

^Unit: 19-48-4116/13B-20PA1002

(Ammunition thru 30MM continued)

# Ammunition thru 30MM (Cont.)

- <1> Cartridge, .50 Caliber:
  - ^Unit: 19-48-4116/14-20PA1002 - Revision 20
  - ^Unit: 19-48-4116/14A-20PA1002
  - ^Unit: 19-48-4116/14B-20PA1002
  - ^Unit: 19-48-4116/14C-20PA1002
  - ^Unit: 19-48-4116/14D-20PA1002
  - ^Unit: 19-48-4116/14E-20PA1002
  - ^Unit: 19-48-4116/14G-20PA1002
  - ^Unit: 19-48-4116/14J-20PA1002
  - ^Unit: 19-48-4116/14K-20PA1002
  - ^Unit: 19-48-4116/14L-20PA1002
  - ^Unit: 19-48-4116/14M-20PA1002
  
- <2> Cartridge, .50 Caliber, in Sure-Pak Containers for Intra-Theater Ground Movement Only:
  - Unit: 19-48-4362/2-20PM1015
  
- <3> Cartridge, 10 Gage, Blank:
  - ^Unit: 19-48-4116/1-20PA1002
  
- <4> Cartridge, 12 Gage:
  - ^Unit: 19-48-4116/2-20PA1002 - Revision 8
  - ^Unit: 19-48-4116/2A-20PA1002
  
- <5> Cartridge, 20MM, 2 API-T M601/3 HEI-T M599 Linked, RHF:
  - End Opening ISO Container: D-SARAC 4443
  - ^Unit: 19-48-4116/15-20PA1002 - Revision 1
  
- <6> Cartridge, 20MM, packed in M548 Metal Box:
  - Side Opening ISO Container: 19-48-7111-SP15PM1
  - ^Unit: 19-48-4116/15A-20PA1002 - Revision 9
  - ^Unit: 19-48-4116/15B-20PA1002 - Revision 6
  - ^Unit: 19-48-4116/15C-20PA1002 - Revision 5
  
- <7> Cartridge, 22MM Subcaliber, Practice, for 4.2" Mortar:
  - ^Unit: 19-48-4169/15-20PA1006
  
- <8> Cartridge, 22MM Subcaliber, Practice, for 81MM Mortar:
  - ^Unit: 19-48-4116/16-20PA1002
  - ^Unit: 19-48-4116/16A-20PA1002
  
- <9> Cartridge, 25.4MM, Decoy, M839:
  - End Opening ISO Container: D-SARAC 4444
  - ^Unit: 19-48-4116/115A-20PA1002 - Revision 1

(Ammunition thru 30MM continued)

# Ammunition thru 30MM (Cont.)

- <1> Cartridge, 25MM:
  - ^Unit: 19-48-4116/17-20PA1002 - Revision 5
  - ^Unit: 19-48-4116/17A-20PA1002 - Revision 4
  - ^Unit: 19-48-4116/17C-20PA1002 - Revision 2
  
- <2> Cartridge, 25MM, packed in CNU-405 Container
  - ^Unit: 19-48-4116/17B-20PA1002 - Revision 1
  
- <3> Cartridge, 25MM, packed in PA125 Container, on Standard Metal Pallet:
  - Boxcar: 19-48-4246/17-5PM1005
  - Combination of Adopted Items: ACV00053 - Revision C
  - End Opening ISO Container: 19-48-4249/17-15PM1011
  - MILVAN: 19-48-4248/17-15PM1010
  - Side Opening ISO Container: 19-48-4271/17-15PM1015
  - Storage: 19-48-4251/17-1-2-3-4-14-22PM1005
  - Unit: 19-48-4232/17-20PM1007 - Revision 1
  - Van Trailer: 19-48-4247/17-11PM1005
  
- <4> Cartridge, 30MM:
  - ^Unit: 19-48-4116/18-20PA1002 - Revision 7
  
- <5> Cartridge, 30MM, GAU-8/A, packed in CNU-309 or CNU-332 Container:
  - Boxcar: 19-48-7062-SP5M7
  - End Opening ISO Container: 19-48-8587-SP15M8
  - Flatbed: 19-48-8570-SP11M12
  - Flatrack ISO Container: 19-48-7079-SP15M1
  - MILVAN: D-SARAC 4417 - Revision 1
  - Side Opening ISO Container: 19-48-7115-SP15M6
  - Storage: 19-48-7060-SP1-3-4-14-22M3 - Revision 1
  - Van Trailer: 19-48-7061-SP11M6 - Revision 3
  
- <6> Cartridge, 30MM, Strip Pack:
  - ^Unit: 19-48-4116/18A-20PA1002
  
- <7> Cartridge, 5.56MM:
  - ^Unit: 19-48-4116/5-20PA1002 - Revision 20
  - ^Unit: 19-48-4116/5A-20PA1002 - Revision 7
  - ^Unit: 19-48-4116/5C-20PA1002 - Revision 9
  - ^Unit: 19-48-4169/1-20PA1006
  - ^Unit: 19-48-4169/1A-20PA1006
  
- <8> Cartridge, 5.56MM, Ball, M855, Commercial Pack:
  - Unit: 19-48-4357-20PA1011 – Revision 1
  
- <9> Cartridge, 5.56MM, Ball, M855, Commercial Pack Partial Pallet:
  - Unit: 19-48-4358-20PA1012 – Revision 1

(Ammunition thru 30MM continued)

# Ammunition thru 30MM (Cont.)

- <1> Cartridge, 5.56MM, Commercial Pack packed in Fiberboard Boxes:  
Unit: 19-48-4355-20PA1010
- <2> Cartridge, 5.56MM, Marking, M1071:  
Unit: 19-48-4116/5D-20PA1002 – Revision 1
- <3> Cartridge, 5.56MM and 7.62MM, in Sure-Pak Containers for Intra-Theater  
Ground Movement Only:  
Unit: 19-48-4362/1-20PM1015
- <4> Cartridge, 7.62MM:  
^Unit: 19-48-4116/7-20PA1002 - Revision 13  
^Unit: 19-48-4116/7A-20PA1002 - Revision 6  
^Unit: 19-48-4116/7B-20PA1002 - Revision 2  
^Unit: 19-48-4116/7C-20PA1002 - Revision 1  
^Unit: 19-48-4116/7D-20PA1002 - Revision 6  
^Unit: 19-48-4116/7E-20PA1002 - Revision 1
- <5> Cartridge, 9MM:  
^Unit: 19-48-4116/10-20PA1002  
^Unit: 19-48-4116/10A-20PA1002  
^Unit: 19-48-4116/10B-20PA1002 - Revision 8
- <6> Cartridge, 9MM, Practice, M934, AT4:  
^Unit: 19-48-4116/37A-20PA1002  
Van Trailer: 19-48-4237-11PA1007
- <7> Flatrack Loaded w/30MM GAU-8/A Ammunition, in CNU-309 or CNU-332 Con-  
tainer:  
Flatbed: 19-48-7079/1-SP11M8
- <8> Retrograde Ammunition loaded in Pallet Boxes - 20MM, 25MM, or 30MM Car-  
tridges:  
Unit: 19-48-4233/7-20PE1000 - Revision 2
- <9> Retrograde Ammunition loaded in Pallet Boxes - Small Arms Ammunition in Fi-  
ber Boxes:  
Unit: 19-48-4233/12-20PE1000 - Revision 1
- <10> Retrograde Ammunition loaded in Pallet Boxes - Small Arms in M2 Boxes or  
Loose:  
Unit: 19-48-4233/14-20PE1000

(Ammunition thru 30MM continued)



# **Ammunition thru 30MM (Cont.)**

<1> Small Arms Ammunition, Palletized:

MILVAN: 19-48-4103-15PA1001

Unitization: D-AMXAC-4322 – Revision 2

<2> Strategic Configured Load #11 - Small Arms General Purpose:

CROP: 19-48-4905/11-CA17Q6

# Ammunition over 30MM up to 75MM

## 1310

- <1> Burster, Projectile, M19, 60MM:  
^Unit: 19-48-4116/28N-20PA1002
- <2> Cartridge Case Assembly, 40MM, M169:  
^Unit: 19-48-4116/26U-20PA1002
- <3> Cartridge, 40MM:  
End Opening ISO Container: D-SARAC 4422  
End Opening ISO Container: D-SARAC 4423  
^Unit: 19-48-4116/26-20PA1002  
^Unit: 19-48-4116/26A-20PA1002 - Revision 8  
^Unit: 19-48-4116/26B-20PA1002 - Revision 3  
^Unit: 19-48-4116/26C-20PA1002 - Revision 5  
^Unit: 19-48-4116/26D-20PA1002 - Revision 1  
^Unit: 19-48-4116/26E-20PA1002 - Revision 1  
^Unit: 19-48-4116/26F-20PA1002  
^Unit: 19-48-4116/26G-20PA1002  
^Unit: 19-48-4116/26H-20PA1002 - Revision 5  
^Unit: 19-48-4116/26J-20PA1002  
^Unit: 19-48-4116/26K-20PA1002  
^Unit: 19-48-4116/26L-20PA1002  
^Unit: 19-48-4116/26N-20PA1002 - Revision 6  
^Unit: 19-48-4116/26P-20PA1002  
^Unit: 19-48-4116/26Q-20PA1002 - Revision 1  
^Unit: 19-48-4116/26R-20PA1002 - Revision 2  
^Unit: 19-48-4116/26S-20PA1002 - Revision 7  
^Unit: 19-48-4116/26T-20PA1002 - Revision 1
- <4> Cartridge, 40MM, packed in PA105 Container (SGT York):  
Boxcar: 19-48-4216-5PM1010  
Storage: 19-48-4180-1-3-4-14-22PM1004  
Unit: 19-48-4186-20PM1005  
Van Trailer: 19-48-4217-11PM1010
- <5> Cartridge, 40MM, packed in PA120 Container, on Standard Metal Pallet:  
Boxcar: 19-48-4246/21-5PM1005  
Combination of Adopted Items: ACV0124 - Revision A  
End Opening ISO Container: 19-48-4249/21-15PM1011  
MILVAN: 19-48-4248/21-15PM1010 - Revision 1  
Side Opening ISO Container: 19-48-4271/21-15PM1015  
Storage: 19-48-4251/21-1-2-3-4-14-22PM1005  
Unit: 19-48-4232/21-20PM1007 - Revision 6  
Van Trailer: 19-48-4247/21-11PM1005
- <6> Cartridge, 40MM, in Sure-Pak Containers for Intra-Theater Ground Movement Only:  
Unit: 19-48-4362/3-20PM1015

(Ammunition over 30MM up to 75MM)

# Ammo over 30MM up to 75MM (Cont.)

- <1> Cartridge, 40MM, Practice, M781:  
Unit: 19-48-4359/1-20PA1013 – Revision 1
  
- <2> Cartridge, 40MM, T256, XM386 and XM406:  
Type 1 Portable Container: 19-48-7019-SP16A2  
Type 2 Portable Container: 19-48-7020-SP16A3
  
- <3> Cartridge, 57MM:  
End Opening ISO Container: D-SARAC 4425  
^Unit: 19-48-4116/27-20PA1002  
^Unit: 19-48-4116/27A-20PA1002  
^Unit: 19-48-4116/27B-20PA1002  
^Unit: 19-48-4116/27C-20PA1002  
^Unit: 19-48-4116/27D-20PA1002
  
- <4> Cartridge, 57MM, WP:  
^Unit: 19-48-4015/1-20PA1004  
^Unit: 19-48-4015/1A-20PA1004
  
- <5> Cartridge, 60MM:  
End Opening ISO Container: D-SARAC 4426  
End Opening ISO Container: D-SARAC 4427  
End Opening ISO Container: D-SARAC 4428  
^Unit: 19-48-4116/28-20PA1002 - Revision 2  
^Unit: 19-48-4116/28A-20PA1002 - Revision 2  
^Unit: 19-48-4116/28C-20PA1002  
^Unit: 19-48-4116/28E-20PA1002 - Revision 1  
^Unit: 19-48-4116/28F-20PA1002 - Revision 7  
^Unit: 19-48-4116/28G-20PA1002  
^Unit: 19-48-4116/28L-20PA1002 - Revision 1  
^Unit: 19-48-4116/28M-20PA1002 - Revision 2  
^Unit: 19-48-4116/28P-20PA1002 - Revision 1  
^Unit: 19-48-4116/28Q-20PA1002 - Revision 1  
^Unit: 19-48-4116/28S-20PA1002  
^Unit: 19-48-4116/28U-20PA1002 - Revision 1
  
- <6> Cartridge, 60MM, Insensitive Munition:  
^Unit: 19-48-4116/28T-20PA1002 - Revision 2
  
- <7> Cartridge, 60MM, WP:  
^Unit: 19-48-4015/2-20PA1004 - Revision 3  
^Unit: 19-48-4015/2A-20PA1004  
^Unit: 19-48-4015/2B-20PA1004 - Revision 1  
^Unit: 19-48-4015/2C-20PA1004  
^Unit: 19-48-4015/2D-20PA1004 - Revision 1

(Ammunition over 30MM up to 75MM continued)

## **Ammo over 30MM up to 75MM (Cont.)**

- <1> Cartridge, Igniter, M702, for 60MM Mortar:  
^Unit: 19-48-4116/28R-20PA1002
- <2> Charge, Propellant Increment for 60MM Mortar:  
^Unit: 19-48-4116/28D-20PA1002
- <3> Fin, Mortar Cartridge, M5, for 60MM Projectile:  
^Unit: 19-48-4116/30-20PA1002
- <4> Projectile, 64MM, Riot Control:  
^Unit: 19-48-4116/32-20PA1002
- <5> Retrograde Ammunition loaded in Pallet Boxes - 40MM Cartridges:  
Unit: 19-48-4233/8-20PE1000 - Revision 2
- <6> Sabot, 60MM:  
^Unit: 19-48-4116/28K-20PA1002
- <7> Strategic Configured Load #16A - 40MM HEDP M430:  
CROP: 19-48-4905/16A-CA17Q6
- <8> Strategic Configured Load #16B - 40MM HEDP M430:  
CROP: 19-48-4905/16B-CA17Q6

# Ammunition from 75MM thru 125MM

1315

- <1> Burster, Projectile:
  - End Opening ISO Container: D-SARAC 4446
  - ^Unit: 19-48-4116/49A-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/49B-20PA1002
  - ^Unit: 19-48-4116/49C-20PA1002 - Revision 1
  
- <2> Canister Loading Assembly for Cartridge, 81MM:
  - ^Unit: 19-48-4116/43R-20PA1002
  
- <3> Cartridge, 105MM:
  - End Opening ISO Container: D-SARAC 4358
  - End Opening ISO Container: D-SARAC 4396
  - End Opening ISO Container: D-SARAC 4399
  - End Opening ISO Container: D-SARAC 4406
  - End Opening ISO Container: D-SARAC 4411
  - End Opening ISO Container: D-SARAC 4413
  - End Opening ISO Container: D-SARAC 4415
  - MILVAN: D-AMXAC 4220
  - MILVAN: D-AMXSV 4271
  - MILVAN: D-AMXAC 4307
  - MILVAN: D-SARAC 4414
  - ^Unit: 19-48-4116/45-20PA1002 - Revision 5
  - ^Unit: 19-48-4116/45A-20PA1002
  - ^Unit: 19-48-4116/45B-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/45C-20PA1002
  - ^Unit: 19-48-4116/45E-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/45F-20PA1002 - Revision 5
  - ^Unit: 19-48-4116/45G-20PA1002 - Revision 3
  - ^Unit: 19-48-4116/45H-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/45J-20PA1002
  - ^Unit: 19-48-4116/45K-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/45L-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/45M-20PA1002
  - ^Unit: 19-48-4116/45N-20PA1002
  - ^Unit: 19-48-4116/45P-20PA1002
  - ^Unit: 19-48-4116/45Q-20PA1002
  - ^Unit: 19-48-4116/45T-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/45U-20PA1002
  
- <4> Cartridge, 105MM, APFSDS-T, M833, in PA104 Cntr, Wood Pallet, 6 high:
  - Boxcar: 19-48-4212/6-5PM1003
  - End Opening ISO Container: 19-48-4215/6-15PM1013 - Revision 1
  - MILVAN: 19-48-4214/6-15PM1006
  - Side Opening ISO Container: 19-48-4265/6-15PM1014
  - Storage: 19-48-4145/6-1-2-3-4-14-22PM1003 - Revision 1
  - ^Unit: 19-48-4079/6-20PM1002 - Revision 2
  - Van Trailer: 19-48-4213/6-11PM1003

(Ammunition from 75MM thru 125MM continued)

# Ammo from 75MM thru 125MM (Cont.)

- <1> Cartridge, 105MM, APFSDS-T, M833, in PA117 Container, Metal Pallet:  
Boxcar: 19-48-4212/9-5PM1003  
End Opening ISO Container: 19-48-4215/9-15PM1013 - Revision 1  
MILVAN: 19-48-4214/9-15PM1006  
Side Opening ISO Container: 19-48-4265/9-15PM1014  
Storage: 19-48-4145/11-1-2-3-4-14-22PM1003 - Revision 1  
^Unit: 19-48-4079/8-20PM1002 - Revision 1  
Van Trailer: 19-48-4213/9-11PM1003
  
- <2> Cartridge, 105MM, APFSDS-T, M833, in PA117 Container, Wood Pallet:  
Boxcar: 19-48-4212/9A-5PM1003  
End Opening ISO Container: 19-48-4215/9A-15PM1013 - Revision 1  
MILVAN: 19-48-4214/9A-15PM1006  
Side Opening ISO Container: 19-48-4265/9A-15PM1014  
Storage: 19-48-4145/11A-1-2-3-4-14PM1003  
^Unit: 19-48-4079/8A-20PM1002  
Van Trailer: 19-48-4213/9A-11PM1003
  
- <3> Cartridge, 105MM, M1, M67, M327, M84, or M84B1 packed in M152 Container:  
Boxcar: 19-48-4212/4-5PM1003  
End Opening ISO Container: 19-48-4215/4-15PM1013 - Revision 1  
MILVAN: 19-48-4214/4-15PM1006  
Side Opening ISO Container: 19-48-4265/4-15PM1014  
Storage: 19-48-4145/4-1-2-3-4-14-22PM1003 - Revision 1  
^Unit: 19-48-4079/4-20PM1002  
Van Trailer: 19-48-4213/4-11PM1003
  
- <4> Cartridge, 105MM, M1, M84A1, M314, M393A3, M467, M760, M900, M913, M915, M927, or M1064 in PA117 Container, Standard Metal Pallet:  
Boxcar: 19-48-4242/45-5PM1004  
Combination of Adopted Items: ACV0134 - Revision E  
End Opening ISO Container: 19-48-4245/45-15PM1009  
MILVAN: 19-48-4244/45-15PM1008  
Side Opening ISO Container: 19-48-4272/45-15PM1016  
Storage: 19-48-4250/45-1-3-4-14-22PM1004  
^Unit: 19-48-4231/45-20PM1006 - Revision 5  
Van Trailer: 19-48-4243/45-11PM1004
  
- <5> Cartridge, 105MM, M413, T378 and XM400:  
Type 1 Portable Container: 19-48-7021-SP16A4  
Type 2 Portable Container: 19-48-7022-SP16A1

(Ammunition from 75MM thru 125MM continued)

# **Ammo from 75MM thru 125MM (Cont.)**

- <1> Cartridge, 105MM, M456A2, M735, M774 or M833, packed in PA104, Wood Pallet, 5 high:  
Boxcar: 19-48-4212/7-5PM1003  
End Opening ISO Container: 19-48-4215/7-15PM1013 - Revision 1  
MILVAN: 19-48-4214/7-15PM1006  
Side Opening ISO Container: 19-48-4265/7-15PM1014  
Storage: 19-48-4145/7-1-2-3-4-14-22PM1003 - Revision 1  
^Unit: 19-48-4079/6A-20PM1002 - Revision 2  
Van Trailer: 19-48-4213/7-11PM1003
  
- <2> Cartridge, 105MM, M456A2, M735, or M833, packed in PA104, Metal Pallet:  
Boxcar: 19-48-4212/7A-5PM1003  
End Opening ISO Container: 19-48-4215/7A-15PM1013 - Revision 1  
MILVAN: 19-48-4214/7A-15PM1006  
Side Opening ISO Container: 19-48-4265/7A-15PM1014  
Storage: 19-48-4145/7A-1-2-3-4-14-22PM1003 - Revision 1  
^Unit: 19-48-4079/6B-20PM1002 - Revision 1  
Van Trailer: 19-48-4213/7A-11PM1003
  
- <3> Cartridge, 105MM, M833, 25 Container Unit:  
MILVAN: D-SARAC 4464
  
- <4> Cartridge, 105MM, on 463L Pallet:  
MILVAN: D-AMXAC 4350
  
- <5> Cartridge, 105MM, packed in PA55 or PA71 Fiber Container:  
Boxcar: 19-48-4120-5P1001  
Van Trailer: 19-48-4119-11P1000
  
- <6> Cartridge, 105MM, packed in PA71 Fiber Container:  
End Opening ISO Container: 19-48-4346-15P1000  
MILVAN: 19-48-4348-15P1002  
Side Opening ISO Container: 19-48-4347-15P1001
  
- <7> Cartridge, 105MM, packed in PA84 Fiber Container:  
Boxcar: 19-48-4162-5PA1004  
MILVAN: 19-48-4171-15PA1004  
Van Trailer: 19-48-4198-11PA1008
  
- <8> Cartridge, 105MM, packed in Wooden Boxes, Unpalletized:  
End Opening ISO Container: DET 0301
  
- <9> Cartridge, 105MM, WP:  
^Unit: 19-48-4015/7-20PA1004 - Revision 2  
^Unit: 19-48-4015/7A-20PA1004

(Ammunition from 75MM thru 125MM continued)

# Ammo from 75MM thru 125MM (Cont.)

- <1> Cartridge, 106MM:
  - ^Unit: 19-48-4116/46-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/46A-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/46B-20PA1002 - Revision 1
  - ^Unit: 19-48-4138/15B-20PA1000
  
- <2> Cartridge, 106MM, in M134 Fiber Containers in Pallet Boxes:
  - Unit: 19-48-4364-20PN10081
  
- <3> Cartridge, 120MM:
  - ^Unit: 19-48-4116/38-20PA1002 - Revision 7
  
- <4> Cartridge, 120MM, M829, M829A1, M829A2, M829A3, M830, M830A1, M865 or M1028, packed in PA116 or PA171 Container, on Standard Metal or Resin-Treated Pallet:
  - Boxcar: 19-48-4242/48-5PM1004
  - Combination of Adopted Items: AC200000501 - Revision C
  - End Opening ISO Container: 19-48-4245/48-15PM1009
  - MILVAN: 19-48-4244/48-15PM1008
  - Side Opening ISO Container: 19-48-4272/48-15PM1016
  - Storage: 19-48-4250/48-1-2-3-4-14-22PM1004 - Revision 1
  - ^Unit: 19-48-4231/48-20PM1006 - Revision 6
  - Van Trailer: 19-48-4243/48-11PM1004
  
- <5> Cartridge, 120MM, M829, M829A1, M830, M830A1, M831, M865 or M1028, packed in PA116 or PA171, Wood Pallet, 5 high:
  - Boxcar: 19-48-4212/8-5PM1003
  - Combination of Adopted Items: ACV000811
  - End Opening ISO Container: 19-48-4215/8-15PM1013 - Revision 1
  - MILVAN: 19-48-4214/8-15PM1006
  - Side Opening ISO Container: 19-48-4265/8-15PM1014
  - Storage: 19-48-4145/8-1-2-3-4-14-22PM1003 - Revision 1
  - ^Unit: 19-48-4079/7-20PM1002 - Revision 5
  - Van Trailer: 19-48-4213/8-11PM1003
  
- <6> Cartridge, 120MM, M829, M829A1, M830 or M865, packed in PA116 Container, Metal Pallet:
  - Boxcar: 19-48-4212/8A-5PM1003
  - End Opening ISO Container: 19-48-4215/8A-15PM1013 - Revision 1
  - MILVAN: 19-48-4214/8A-15PM1006 - Revision 1
  - Side Opening ISO Container: 19-48-4265/8A-15PM1014
  - Storage: 19-48-4145/8A-1-2-3-4-14-22PM1003 - Revision 2
  - ^Unit: 19-48-4079/7A-20PM1002 - Revision 4
  - Van Trailer: 19-48-4213/8A-11PM1003

(Ammunition from 75MM thru 125MM continued)



# **Ammo from 75MM thru 125MM (Cont.)**

- <1> Cartridge, 120MM, M831, M831A1, M865 or M1002, packed in PA116 or PA171 Container, Wood Pallet, 6 high:  
Boxcar: 19-48-4212/8B-5PM1003  
End Opening ISO Container: 19-48-4215/8B-15PM1013 - Revision 1  
MILVAN: 19-48-4214/8B-15PM1006 - Revision 1  
Side Opening ISO Container: 19-48-4265/8B-15PM1014  
Storage: 19-48-4145/8B-1-2-3-4-14-22PM1003 - Revision 1  
^Unit: 19-48-4079/7B-20PM1002 - Revision 8  
Van Trailer: 19-48-4213/8B-11PM1003
- <2> Cartridge, 120MM, Mortar, packed 1 per PA174 Composite Container:  
^Unit: 19-48-4352/1-20PM1013
- <3> Cartridge, 120MM, Mortar, packed 2 per PA154 Metal Box:  
^Unit: 19-48-4116/38A-20PA1002 - Revision 5
- <4> Cartridge, 120MM, Mortar, Practice, M931, packed 2 per Wirebound Box:  
^Unit: 19-48-4116/38B-20PA1002 - Revision 2
- <5> Cartridge, 120MM, Mortar, WP, packed 2 per PA154 Metal Box:  
^Unit: 19-48-4015/7B-20PA1004
- <6> Cartridge, 120MM, packed in PA116 or PA171 Container, on Metal or Resin-Treated Pallet with Top Lift, 5 high:  
Combination of Adopted Items: ACV00811  
End Opening ISO Container: 19-48-4245/48A-15PM1009  
Side Opening ISO Container: 19-48-4272/48A-15PM1016  
^Unit: 19-48-4231/48A-20PM1006  
Van Trailer: 19-48-4243/48A-11PM1004
- <7> Cartridge, 3"/50 Caliber, packed in MK5 and Mods Tank, Domestic Issue:  
Storage: 19-48-4145/9-1-2-3-4-14-22PM1003
- <8> Cartridge, 3"/50 Caliber, packed in MK5 Mod 2 Tank, Fleet Issue:  
Storage: 19-48-4145/10-1-2-3-4-14-22PM1003
- <9> Cartridge, 4.2":  
MILVAN: D-SARAC 4456  
^Unit: 19-48-4116/39A-20PA1002 - Revision 2  
^Unit: 19-48-4116/39B-20PA1002 - Revision 1
- <10> Cartridge, 4.2", Gas, Persistent, M2:  
End Opening ISO Container: D-SARAC 4451  
^Unit: 19-48-4116/39-20PA1002 - Revision 1  
^Unit: 19-48-4138/16A-20PA1000

(Ammunition from 75MM thru 125MM continued)

# Ammo from 75MM thru 125MM (Cont.)

- <1> Cartridge, 4.2", WP:  
^Unit: 19-48-4015/8-20PA1004  
^Unit: 19-48-4015/8A-20PA1004
- <2> Cartridge, 75MM:  
End Opening ISO Container: D-SARAC 4450  
^Unit: 19-48-4138/10-20PA1000
- <3> Cartridge, 75MM, Blank, M337:  
^Unit: 19-48-4116/40-20PA1002 - Revision 3
- <4> Cartridge, 75MM, HE, M48, packed in M173 Container:  
Boxcar: 19-48-4212/1-5PM1003  
End Opening ISO Container: 19-48-4215/1-15PM1013 - Revision 1  
MILVAN: 19-48-4214/1-15PM1006  
Side Opening ISO Container: 19-48-4265/1-15PM1014  
Storage: 19-48-4145/1-1-2-3-4-14-22PM1003 - Revision 1  
^Unit: 19-48-4079/1-20PM1002  
Van Trailer: 19-48-4213/1-11PM1003
- <5> Cartridge, 75MM, WP:  
^Unit: 19-48-4015/3-20PA1004  
^Unit: 19-48-4015/3A-20PA1004  
^Unit: 19-48-4015/3B-20PA1004
- <6> Cartridge, 76MM:  
^Unit: 19-48-4138/11-20PA1000
- <7> Cartridge, 76MM, Blank:  
^Unit: 19-48-4116/41-20PA1002
- <8> Cartridge, 76MM, WP:  
^Unit: 19-48-4015/4-20PA1004
- <9> Cartridge, 76MM/62 Caliber, packed in MK11 Mod 0 Tank:  
Storage: 19-48-4145/13-1-2-3-4-14-22PM1003

(Ammunition from 75MM thru 125MM continued)

# Ammo from 75MM thru 125MM (Cont.)

- <1> Cartridge, 81MM:
  - End Opening ISO Container: D-SARAC 4430
  - End Opening ISO Container: D-SARAC 4432
  - End Opening ISO Container: D-SARAC 4437
  - ^Unit: 19-48-4116/43-20PA1002 - Revision 5
  - ^Unit: 19-48-4116/43A-20PA1002
  - ^Unit: 19-48-4116/43B-20PA1002
  - ^Unit: 19-48-4116/43C-20PA1002
  - ^Unit: 19-48-4116/43D-20PA1002 - Revision 3
  - ^Unit: 19-48-4116/43E-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/43G-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/43H-20PA1002
  - ^Unit: 19-48-4116/43J-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/43K-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/43M-20PA1002 - Revision 2
  
- <2> Cartridge, 81MM, Mortar, packed 3 per PA156 Metal Box:
  - ^Unit: 19-48-4116/43N-20PA1002 - Revision 3
  
- <3> Cartridge, 81MM, Mortar, packed 3 per PA157 Metal Box:
  - ^Unit: 19-48-4116/43P-20PA1002 - Revision 3
  
- <4> Cartridge, 81MM, WP:
  - ^Unit: 19-48-4015/5-20PA1004
  - ^Unit: 19-48-4015/5B-20PA1004 - Revision 1
  - ^Unit: 19-48-4015/5C-20PA1004 - Revision 3
  - ^Unit: 19-48-4015/5D-20PA1004 - Revision 2
  
- <5> Cartridge, 90MM:
  - ^Unit: 19-48-4116/44-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/44B-20PA1002
  - ^Unit: 19-48-4116/44D-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/44E-20PA1002
  - ^Unit: 19-48-4116/44F-20PA1002 - Revision 2
  - ^Unit: 19-48-4138/13-20PA1000
  
- <6> Cartridge, 90MM, Canister:
  - ^Unit: 19-48-4116/44C-20PA1002
  
- <7> Cartridge, 90MM, HE, M71, packed in M159 Container:
  - Boxcar: 19-48-4212/3-5PM1003
  - End Opening ISO Container: 19-48-4215/3-15PM1013 – Revision 1
  - MILVAN: 19-48-4214/3-15PM1006
  - Side Opening ISO Container: 19-48-4265/3-15PM1014
  - Storage: 19-48-4145/3-1-2-3-4-14-22PM1003 - Revision 1
  - ^Unit: 19-48-4079/3-20PM1002
  - Van Trailer: 19-48-4213/3-11PM1003

(Ammunition from 75MM thru 125MM continued)

# Ammo from 75MM thru 125MM (Cont.)

- <1> Cartridge, 90MM, WP:  
^Unit: 19-48-4015/6-20PA1004  
^Unit: 19-48-4015/6A-20PA1004
- <2> Cartridge, Igniter, M752, for 81MM Mortar:  
^Unit: 19-48-4116/43L-20PA1002 - Revision 1
- <3> Cartridge, Ignition, M6, for 81MM Mortar:  
^Unit: 19-48-4116/42-20PA1002  
^Unit: 19-48-4138/12A-20PA1000
- <4> Cartridge, Ignition, M299, for 81MM Mortar:  
^Unit: 19-48-4116/42A-20PA1002
- <5> Charge, Supplementary:  
^Unit: 19-48-4116/44H-20PA1002 - Revision 1
- <6> Complete Round, packed in PA98 Container:  
Boxcar: 19-48-4212/5-5PM1003  
End Opening ISO Container: 19-48-4215/5-15PM1013 - Revision 2  
MILVAN: 19-48-4214/5-15PM1006  
Side Opening ISO Container: 19-48-4265/5-15PM1014  
Storage: 19-48-4145/5-1-2-3-4-14-22PM1003 - Revision 1  
^Unit: 19-48-4079/5-20PM1002  
Van Trailer: 19-48-4213/5-11PM1003
- <7> Complete Round, packed in T53 Container:  
Boxcar: 19-48-4212/2-5PM1003  
End Opening ISO Container: 19-48-4215/2-15PM1013 - Revision 1  
MILVAN: 19-48-4214/2-15PM1006  
Side Opening ISO Container: 19-48-4265/2-15PM1014  
Storage: 19-48-4145/2-1-2-3-4-14-22PM1003 - Revision 1  
^Unit: 19-48-4079/2-20PM1002  
Van Trailer: 19-48-4213/2-11PM1003
- <8> Complete Rounds packed in Cylindrical Composite Containers with External In-sensitive Munition (IM) Separators on Wooden Pallets:  
\*Unit: 19-48-4352-20PM1013
- <9> Complete Rounds packed in Cylindrical Metal Containers on Wooden Pallets:  
Index: 19-48-4079/0-20PM1002 - Revision 1  
Tactical Vehicle: 19-48-4901/3-CA17Q2 - Revision 1  
\*Unit: 19-48-4079-20PM1002 - Revision 4

(Ammunition from 75MM thru 125MM continued)

# **Ammo from 75MM thru 125MM (Cont.)**

- <1> Launcher and Cartridge, 84MM, M136, AT4, and Tracer Trainer, M287, AT4:  
Storage: 19-48-4234-1-3-4-14PA1010 - Revision 1  
^Unit: 19-48-4116/37-20PA1002 - Revision 2  
^Unit: 19-48-4116/37B-20PA1002 - Revision 2  
Van Trailer: 19-48-4236-11PA1006 - Revision 1
- <2> Launcher and Cartridge, 84MM, M136A1, AT4CS-RS:  
Storage: 19-48-4363-1-3-4-14-22PA1003  
^Unit: 19-48-4116/37C-20PA1002
- <3> Medium Caliber Projectiles, Palletized:  
Boxcar: 19-48-4031-5PE1005 - Revision 1  
TOFC, Van, Palla-Gard: 19-48-4185-15PE1004  
Van Trailer: 19-48-4032-11PE1006 - Revision 1
- <4> Projectile, 105MM, Empty, Palletized IAW PA PLT DWG 8837835:  
Boxcar (Fixed 1 - 40 Ft): D-AMXAC 4330  
Boxcar (Fixed 1 - 50 Ft): D-AMXAC 4328  
Boxcar (Fixed 2 - 40 Ft): D-AMXAC 4331  
Boxcar (Fixed 2 - 50 Ft): D-AMXAC 4329  
Boxcar (Floating - 50 Ft): D-AMXAC 4332
- <5> Projectile, 105MM, Empty, Palletized in Wirebound Pallet Box:  
Boxcar (Fixed 1 - 40 Ft): D-AMXAC 4335  
Boxcar (Fixed 1 - 50 Ft): D-AMXAC 4333  
Boxcar (Fixed 2 - 50 Ft): D-AMXAC 4334  
Boxcar (Floating 1 50 Ft): D-AMXAC 4336  
Boxcar (Floating 2 50 Ft): D-AMXAC 4337
- <6> Projectile, Tracer, for 105MM Cartridge:  
^Unit: 19-48-4116/45R-20PA1002 - Revision 2
- <7> Propelling Charge, for 105MM:  
^Unit: 19-48-4116/45S-20PA1002 - Revision 1
- <8> Refurbishment Kit for Practice Cartridges, 60MM and 81MM:  
^Unit: 19-48-4116/43Q-20PA1002
- <9> Retrograde Ammunition loaded in Pallet Boxes - AT4 Launcher and Cartridge:  
Unit: 19-48-4233/2-20PE1000 - Revision 2
- <10> Sabot, 4.2", Practice:  
^Unit: 19-48-4116/39C-20PA1002
- <11> Sabot, 81MM:  
^Unit: 19-48-4116/43F-20PA1002 - Revision 1

(Ammunition from 75MM thru 125MM continued)

# **Ammo from 75MM thru 125MM (Cont.)**

- <1> Strategic Configured Load #2 - 120MM HEAT-MP-T M830E1 and APFSDS-T M829A2:  
CROP: 19-48-4905/2-CA17Q6
- <2> Strategic Configured Load #18 - 120MM APFSDS-T M829A2:  
CROP: 19-48-4905/18-CA17Q6
- <3> Strategic Configured Load #19 - 120MM HEAT-MP-T M830E1:  
CROP: 19-48-4905/19-CA17Q6
- <4> Strategic Configured Load #41 - 120MM HE M934:  
CROP: 19-48-4905/41-CA17Q6
- <5> Strategic Configured Load #42 - 81MM HE Smoke and Illuminating:  
CROP: 19-48-4905/42-CA17Q6
- <6> Strategic Configured Load #44 - 105MM Smoke WP M60A2:  
CROP (PLS): 19-48-4905/44-CA17Q6  
CROP (LHS): 19-48-4905/44A-CA17Q6
- <7> Strategic Configured Load #45 - 105MM Illuminating:  
CROP (PLS): 19-48-4905/45-CA17Q6  
CROP (LHS): 19-48-4905/45A-CA17Q6
- <8> Strategic Configured Load #46 - 105MM HE M1:  
CROP (PLS): 19-48-4905/46-CA17Q6  
CROP (LHS): 19-48-4905/46A-CA17Q6
- <9> Strategic Configured Load #47 - 105MM HE M760:  
CROP (PLS): 19-48-4905/47-CA17Q6  
CROP (LHS): 19-48-4905/47A-CA17Q6
- <10> Strategic Configured Load #48 - 105MM HERA M913:  
CROP (PLS): 19-48-4905/48-CA17Q6  
CROP (LHS): 19-48-4905/48A-CA17Q6

# Ammunition over 125MM

## 1320

- <1> Additive Jacket:  
^Unit: 19-48-4116/50-20PA1002 - Revision 1
- <2> Base Burner Assembly, 155MM, M864:  
^Unit: 19-48-4116/50C-20PA1002 - Revision 1
- <3> Burster, Projectile:  
^Unit: 19-48-4116/49-20PA1002  
^Unit: 19-48-4116/49D-20PA1002 - Revision 1
- <4> Canister, Smoke, HC, for 155MM:  
^Unit: 19-48-4116/50A-20PA1002  
^Unit: 19-48-4116/50B-20PA1002
- <5> Cartridge, 152MM:  
^Unit: 19-48-4138/25-20PA1000  
^Unit: 19-48-4138/25A-20PA1000  
^Unit: 19-48-4138/25B-20PA1000
- <6> Cartridge, 152MM, packed in PA64 Container:  
Boxcar: 19-48-4121-5PM1002  
MILVAN: D-SARAC 4388  
MILVAN: D-SARAC 4389  
MILVAN (Mixed Load): D-SARAC 4390  
Storage: 19-48-4137-1-14PM1002  
Unit: 19-48-4136-20PM1000 - Revision 1  
Van Trailer: 19-48-4122-11PM1002
- <7> Cartridge, 165MM:  
^Unit: 19-48-4116/46C-20PA1002
- <8> Charge, Expelling:  
^Unit: 19-48-4116/47A-20PA1002 - Revision 1
- <9> Charge, Spotting, Projectile:  
^Unit: 19-48-4116/47-20PA1002 - Revision 3
- <10> Delay Assembly for 8" Projectile:  
^Unit: 19-48-4116/47B-20PA1002
- <11> Mixed Loads of Separate Loading Projectiles & Propelling Charges, Palletized:  
End Opening ISO Container: 19-48-4257-15PM1012

(Ammunition over 125MM continued)

# Ammunition over 125MM (Cont.)

- <1> Modular Artillery Charge System (MACS), M231, packed in PA161 Container, on Standard Metal Pallet:  
Combination of Adopted Items: ACV00300 - Revision A  
Storage: 19-48-4250/50-1-3-4-14-22PM1004  
^Unit: 19-48-4231/50-20PM1006 - Revision 1
  
- <2> Modular Artillery Charge System (MACS), M231, packed in PA161 Container, on Wooden Pallet w/Top Lift:  
Boxcar: 19-48-4330/50-5PM1007  
End Opening ISO Container: 19-48-4333/50-15PM1024  
MILVAN: 19-48-4332/50-15PM1023  
Side Opening ISO Container: 19-48-4334/50-15PM1026  
Storage: 19-48-4335/50-1-3-4-14-22PM1007  
^Unit: 19-48-4326/50-20PM1012 - Revision 1  
Van Trailer: 19-48-4331/50-11PM1007
  
- <3> Modular Artillery Charge System (MACS), M232, packed in PA103A2 Container, on Standard Metal Pallet:  
Combination of Adopted Items: ACV00067 - Revision A  
^Unit: 19-48-4231/50A-20PM1006 - Revision 1  
Van Trailer: 19-48-4243/50A-11PM1004
  
- <4> Modular Artillery Charge System (MACS), M232, packed in PA103A2 Container, on Wooden Pallet w/Top Lift:  
Boxcar: 19-48-4330/50A-5PM1007  
End Opening ISO Container: 19-48-4333/50A-15PM1024  
MILVAN: 19-48-4332/50A-15PM1023  
Side Opening ISO Container: 19-48-4334/50A-15PM1026  
Storage: 19-48-4335/50A-1-3-4-14-22PM1007  
^Unit: 19-48-4326/50A-20PM1012 - Revision 5  
Van Trailer: 19-48-4331/50A-11PM1007
  
- <5> Projectile, 155MM or 8", Palletized and Unpalletized:  
Korean Storage: 19-48-4320-3PE1000
  
- <6> Projectile, 155MM, HE, M864, Empty:  
Boxcar: 19-48-4012/2-5PE1000
  
- <7> Projectile, 155MM, HE, Precision Guided, M982 and M982A1, Excalibur:  
Combination of Adopted Items: ACV00681 - Revision A  
End Opening ISO Container: 19-48-4245/55-15PM1009  
Field Returns Unit: DET 0801  
MILVAN: 19-48-4244/55-15PM1008  
Side Opening ISO Container: 19-48-4272/55-15PM1016  
Storage: 19-48-4250/55-1-3-4-14-22PM1004  
^Unit: 19-48-4231/55-20PM1006 - Revision 3  
Van Trailer: 19-48-4243/55-11PM1004

(Ammunition over 125MM continued)



# Ammunition over 125MM (Cont.)

- <1> Projectile, 155MM, HEAT, M712, Copperhead:  
Boxcar: 19-48-4157-5PE1003  
End Opening ISO Container: 19-48-4273-15PE1009  
MILVAN: 19-48-4195-15PE1006  
Storage: 19-48-4160-1-3-4-14-22PE1003 - Revision 3  
Unit: 19-48-4159-20PM1003 - Revision 3  
Van Trailer: 19-48-4158-11PE1003
- <2> Projectile, 155MM, Metal Pallet (FAPP):  
Storage: 19-48-4102/24-1-2-3-4-14-22PE1001
- <3> Projectile, 155MM, Short Pallet:  
Storage: 19-48-4102/1-1-2-3-4-14-22PE1001 - Revision 3
- <4> Projectile, 155MM, Tall Pallet:  
Storage: 19-48-4102/2-1-2-3-4-14-22PE1001 - Revision 3
- <5> Projectile, 16" (1 round):  
Storage: 19-48-4102/21-1-3-4-14-22PE1001
- <6> Projectile, 16" (2 rounds):  
Storage: 19-48-4102/22-1-3-4-14-22PE1001
- <7> Projectile, 175MM (10 rounds):  
Storage: 19-48-4102/5-1-3-4-14-22PE1001
- <8> Projectile, 175MM (12 rounds):  
Storage: 19-48-4102/4-1-3-4-14-22PE1001
- <9> Projectile, 175MM (6 rounds):  
MILVAN: D-AMXSV 4274  
Storage: 19-48-4102/3-1-2-3-4-14-22PE1001
- <10> Projectile, 5"/38, Short Pallet:  
Storage: 19-48-4102/14-1-3-4-14-22PE1001
- <11> Projectile, 5"/38, Tall Pallet:  
Storage: 19-48-4102/15-1-3-4-14-22PE1001
- <12> Projectile, 5"/54:  
Storage: 19-48-4102/16-1-3-4-14-22PE1001
- <13> Projectile, 6" (16 rounds):  
Storage: 19-48-4102/19-1-3-4-14-22PE1001

(Ammunition over 125MM continued)

# Ammunition over 125MM (Cont.)

- <1> Projectile, 6" (24 rounds):  
Storage: 19-48-4102/20-1-3-4-14-22PE1001
- <2> Projectile, 6" (25 rounds):  
Storage: 19-48-4102/18-1-3-4-14-22PE1001
- <3> Projectile, 6" (30 rounds):  
Storage: 19-48-4102/17-1-3-4-14-22PE1001
- <4> Projectile, 8" (3 rounds):  
Storage: 19-48-4102/6-1-2-3-4-14-22PE1001 - Revision 1
- <5> Projectile, 8" (8 rounds):  
Storage: 19-48-4102/11-1-3-4-14-22PE1001
- <6> Projectile, 8", RAP, Empty:  
Boxcar: 19-48-4012/1-5PE1000  
Van Trailer: 19-48-4019/1-11PE1000
- <7> Projectile, 8", Short Pallet (6 rounds):  
Storage: 19-48-4102/7-1-2-3-4-14-22PE1001 - Revision 1
- <8> Projectile, 8", Short Pallet (10 rounds):  
Storage: 19-48-4102/10-1-3-4-14-22PE1001
- <9> Projectile, 8", Tall Pallet (10 rounds):  
Storage: 19-48-4102/9-1-3-4-14-22PE1001
- <10> Projectile, 8", Tall Pallet, 19-1/2" L (6 rounds):  
Storage: 19-48-4102/23-1-2-3-4-14-22PE1001
- <11> Projectile, 8", Tall Pallet, 22-5/8" L (6 rounds):  
Storage: 19-48-4102/8-1-2-3-4-14-22PE1001 - Revision 1
- <12> Projectile, 8"/55 (5 rounds):  
Storage: 19-48-4102/13-1-3-4-14-22PE1001
- <13> Projectile, 8"/55 (16 and 12 rounds):  
Storage: 19-48-4102/12-1-3-4-14-22PE1001

(Ammunition over 125MM continued)

# **Ammunition over 125MM (Cont.)**

- <1> Propelling Charge, 155MM, M119 Series, WB, packed in PA37 Container:  
Boxcar: 19-48-4042B/8-5PM1000  
End Opening ISO Container: 19-48-4154/9-15PM1002  
Half-High ISO Container: 19-48-4274-15PM1017  
MILVAN (Mixed Height Load): D-SARAC 4370  
Side Opening ISO Container: 19-48-4264/9-15PM1003  
Storage: 19-48-4312/9-1-3-4-14-22PM1006  
^Unit: 19-48-4042A/9-20PM1001 - Revision 4  
Van Trailer: 19-48-4042C/8-11PM1000 - Revision 1
  
- <2> Propelling Charge, 155MM, M119E4 or 8", M1, packed in M18 Container:  
Boxcar: 19-48-4042B/5-5PM1000  
End Opening ISO Container: 19-48-4154/5-15PM1002  
MILVAN (Mixed Height Load): D-SARAC 4368  
Side Opening ISO Container: 19-48-4264/5-15PM1003  
^Unit: 19-48-4042A/5-20PM1001  
Van Trailer: 19-48-4042C/5-11PM1000 - Revision 1
  
- <3> Propelling Charge, 155MM, M19, packed in M16 Container:  
Boxcar: 19-48-4042B/4-5PM1000  
End Opening ISO Container: 19-48-4154/4-15PM1002  
MILVAN (Mixed Height Load): D-SARAC 4367  
Side Opening ISO Container: 19-48-4264/4-15PM1003  
^Unit: 19-48-4042A/4-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/4-11PM1000 - Revision 1
  
- <4> Propelling Charge, 155MM, M203 Series, packed in PA103 Container:  
Boxcar: 19-48-4042B/21-5PM1000  
End Opening ISO Container: 19-48-4154/22-15PM1002 - Revision 1  
Side Opening ISO Container: 19-48-4264/22-15PM1003  
Storage: 19-48-4312/22-1-3-4-14-22PM1006  
^Unit: 19-48-4042A/22-20PM1001 - Revision 4  
Van Trailer: 19-48-4042C/21-11PM1000 - Revision 1
  
- <5> Propelling Charge, 155MM, M203 Series, packed in PA68 Container:  
Boxcar: 19-48-4042B/10-5PM1000  
End Opening ISO Container: 19-48-4154/11-15PM1002  
MILVAN (Mixed Height Load): D-SARAC 4374  
Side Opening ISO Container: 19-48-4264/11-15PM1003  
^Unit: 19-48-4042A/11-20PM1001 - Revision 2  
Van Trailer: 19-48-4042C/10-11PM1000 - Revision 1
  
- <6> Propelling Charge, 155MM, M215 or M216, packed in PA106 Container:  
Boxcar: 19-48-4042B/22-5PM1000  
End Opening ISO Container: 19-48-4154/23-15PM1002 – Revision 1  
Side Opening ISO Container: 19-48-4264/23-15PM1003  
^Unit: 19-48-4042A/23-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/22-11PM1000 - Revision 1

(Ammunition over 125MM continued)

# Ammunition over 125MM (Cont.)

- <1> Propelling Charge, 155MM, M3, GB, packed in M14 Container:  
Boxcar: 19-48-4042B/3-5PM1000  
End Opening ISO Container: 19-48-4154/3-15PM1002  
MILVAN (Mixed Height Load): D-SARAC 4366 - Revision 1  
Side Opening ISO Container: 19-48-4264/3-15PM1003  
Storage: 19-48-4312/3-1-3-4-14-22PM1006  
^Unit: 19-48-4042A/3-20PM1001 - Revision 2  
Van Trailer: 19-48-4042C/3-11PM1000 - Revision 1
- <2> Propelling Charge, 155MM, M4, WB, packed in M13 Container:  
Boxcar: 19-48-4042B/2-5PM1000  
End Opening ISO Container: 19-48-4154/2-15PM1002  
MILVAN (Mixed Height Load): D-SARAC 4365  
Side Opening ISO Container: 19-48-4264/2-15PM1003  
Storage: 19-48-4312/2-1-3-4-14-22PM1006  
^Unit: 19-48-4042A/2-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/2-11PM1000 - Revision 1
- <3> Propelling Charge, 175MM, M86 or M124, or 8-Inch, M2, in M460 Container:  
Boxcar: 19-48-4042B/7-5PM1000  
End Opening ISO Container (w/Protective Cover): 19-48-4154/8-15PM1002  
End Opening ISO Container (w/o Protective Cover): 19-48-4154/7-15PM1002  
MILVAN (Mixed Height Load - w/Protective Cover): D-SARAC 4372  
MILVAN (Mixed Height Load - w/o Protective Cover): D-SARAC 4371  
Side Opening ISO Container (w/Protective Cover): 19-48-4264/8-15PM1003  
Side Opening ISO Container (w/o Protective Cover): 19-48-4264/7-15PM1003  
^Unit (w/Protective Cover): 19-48-4042A/8-20PM1001  
^Unit (w/o Protective Cover): 19-48-4042A/7-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/7-11PM1000 - Revision 1
- <4> Propelling Charge, 5"/54, packed in MK14 Tank:  
Boxcar: MS-1325/164  
End Opening ISO Container: 19-48-4154/28-15PM1002  
MILVAN: MS-1386/10  
Unit (Fleet Issue): 7516504 – Revision A  
Van Trailer: MS-1320/75 – Revision A
- <5> Propelling Charge, 8", M188 Series, WB, packed in PA66 Container:  
Boxcar: 19-48-4042B/9-5PM1000  
End Opening ISO Container: 19-48-4154/10-15PM1002  
MILVAN (Mixed Load): D-SARAC 4373  
Side Opening ISO Container: 19-48-4264/10-15PM1003  
^Unit: 19-48-4042A/10-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/9-11PM1000 - Revision 1

(Ammunition over 125MM continued)

# Ammunition over 125MM (Cont.)

- <1> Propelling Charge, 8", M188A1, WB, packed in PA92 Container:  
Boxcar: 19-48-4042B/13-5PM1000  
End Opening ISO Container: 19-48-4154/14-15PM1002  
Side Opening ISO Container: 19-48-4264/14-15PM1003  
Storage: 19-48-4312/14-1-3-4-14-22PM1006  
^Unit: 19-48-4042A/14-20PM1001 - Revision 2  
Van Trailer: 19-48-4042C/13-11PM1000 - Revision 1
- <2> Propelling Charge, 8", M2, WB, packed in M10 Container:  
Boxcar: 19-48-4042B/1-5PM1000  
End Opening ISO Container: 19-48-4154/1-15PM1002  
MILVAN (Mixed Height Load): D-SARAC 4364  
Side Opening ISO Container: 19-48-4264/1-15PM1003  
^Unit: 19-48-4042A/1-20PM1001 - Revision 2  
Van Trailer: 19-48-4042C/1-11PM1000 - Revision 1
- <3> Propelling Charge, 8", M2, WB, packed in M19 Container:  
Boxcar: 19-48-4042B/6-5PM1000  
End Opening ISO Container: 19-48-4154/6-15PM1002  
MILVAN (Mixed Height Load): D-SARAC 4369  
Side Opening ISO Container: 19-48-4264/6-15PM1003  
^Unit: 19-48-4042A/6-20PM1001  
Van Trailer: 19-48-4042C/6-11PM1000 - Revision 1
- <4> Propelling Charge, Combination Load, 155MM, M119 Series, WB, packed in PA37 Container and 155MM, M4, WB, packed in M13 Container:  
CROP: 19-48-4906/100-CA17Q7
- <5> Propelling Charge, Combination Load, 155MM, M203A1, RB, packed in PA103 Container and 155MM, M3, GB, packed in M14 Container:  
CROP: 19-48-4906/101-CA17Q7
- <6> Propelling Charge, packed in PA100 Container:  
Boxcar: 19-48-4042B/20-5PM1000  
^Unit: 19-48-4042A/21-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/20-11PM1000
- <7> Propelling Charge, packed in PA107 Container:  
Boxcar: 19-48-4042B/23-5PM1000  
^Unit: 19-48-4042A/24-20PM1001  
Van Trailer: 19-48-4042C/23-11PM1000
- <8> Propelling Charge, packed in PA75 Container:  
Boxcar: 19-48-4042B/11-5PM1000  
^Unit: 19-48-4042A/12-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/11-11PM1000

(Ammunition over 125MM continued)

## **Ammunition over 125MM (Cont.)**

- <1> Propelling Charge, packed in PA91 Container:  
Boxcar: 19-48-4042B/12-5PM1000  
^Unit: 19-48-4042A/13-20PM1001  
Van Trailer: 19-48-4042C/12-11PM1000
- <2> Propelling Charge, packed in PA93 Container:  
Boxcar: 19-48-4042B/14-5PM1000  
^Unit: 19-48-4042A/15-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/14-11PM1000
- <3> Propelling Charge, packed in PA94 Container:  
Boxcar: 19-48-4042B/15-5PM1000  
^Unit: 19-48-4042A/16-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/15-11PM1000
- <4> Propelling Charge, packed in PA95 Container:  
Boxcar: 19-48-4042B/16-5PM1000  
^Unit: 19-48-4042A/17-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/16-11PM1000
- <5> Propelling Charge, packed in PA96 Container:  
Boxcar: 19-48-4042B/17-5PM1000  
^Unit: 19-48-4042A/18-20PM1001  
Van Trailer: 19-48-4042C/17-11PM1000
- <6> Propelling Charge, packed in PA97 Container:  
Boxcar: 19-48-4042B/18-5PM1000  
^Unit: 19-48-4042A/19-20PM1001 - Revision 1  
Van Trailer: 19-48-4042C/18-11PM1000
- <7> Propelling Charge, packed in PA99 Container:  
Boxcar: 19-48-4042B/19-5PM1000  
^Unit: 19-48-4042A/20-20PM1001  
Van Trailer: 19-48-4042C/19-11PM1000

(Ammunition over 125MM continued)

# Ammunition over 125MM (Cont.)

- <1> Propelling Charges packed in Cylindrical Metal Containers on Wooden Pallets:
  - Arch Type Magazine: 19-48-4144/2-1PM1000 - Revision 2
  - Arch Type Magazine: 19-48-4144/3-1PM1000 - Revision 2
  - Arch Type Magazine: 19-48-4144/4-1PM1000 - Revision 2
  - Arch Type Magazine: 19-48-4144/5-1PM1000 - Revision 2
  - Corbetta Magazine: 19-48-4144/9-4PM1000 - Revision 2
  - End Opening ISO Container: 19-48-4154-15PM1002
  - Igloo/Arch Type Magazine: 19-48-4144/1-1PM1000 - Revision 2
  - Index: 19-48-4042A/0-20PM1001 - Revision 1
  - MILVAN: 19-48-4106-15PM1001 - Revision 1
  - Rectangular Magazine: 19-48-4144/8-3PM1000 - Revision 2
  - Standard Magazine: 19-48-4144/7-2PM1000 - Revision 2
  - Stradley Magazine: 19-48-4144/6-14-22PM1000 - Revision 2
  - Tactical Vehicle: 19-48-4901/2-CA17Q2
  - TOFC, Van, Palla-Gard: 19-48-4184-15PM1004
  - \*Unit: 19-48-4042A-20PM1001 - Revision 6
  
- <2> Reducer, Flash, M2, for 155MM Propelling Charge:
  - ^Unit: 19-48-4116/48A-20PA1002
  
- <3> Reducer, Flash, M3, for 8" Propelling Charge:
  - ^Unit: 19-48-4116/48B-20PA1002
  
- <4> Reducer, Flash, M5, for 175MM Propelling Charge:
  - ^Unit: 19-48-4116/48-20PA1002
  
- <5> Separate Loading Projectiles:
  - 6' Open Top ISO Container: 19-48-4188-15PE1005
  - Boxcar: 19-48-4012-5PE1000 - Revision 7
  - Bundling: 19-48-4076-20PE1001 - Revision 4
  - CROP: 19-48-4906/102-CA17Q7
  - End Opening ISO Container: 19-48-4155-15PE1001 - Revision 2
  - European Boxcar: 19-48-4286-5PE1006
  - Half-High ISO Container: 19-48-4268-15PE1008
  - Hyundai Freight Car: 19-48-4368-5PE1007
  - Marine Corps Half-Height ISO Container: 19-48-4256-15PE1007
  - MILVAN: 19-48-4163-15PE1002 - Revision 2
  - Side Opening ISO Container: 19-48-4292-15PE1010
  - Tactical Vehicle: 19-48-4901/1-CA17Q2
  - TOFC, Van Trailer, BHD: 19-48-4034-15PE1000 - Revision 1
  - TOFC, Van Trailer, Mech: 19-48-4030-11-15H1002
  - TOFC, Van, Palla-Gard: 19-48-4183-15PE1003
  - Van Trailer: 19-48-4019-11PE1000 - Revision 6

(Ammunition over 125MM continued)

# Ammunition over 125MM (Cont.)

- <1> Strategic Configured Load #7 - 155MM HEDP ICM M483A1:  
CROP (LHS): 19-48-4905/7A-CA17Q6  
CROP (LHS): 19-48-4905/7B-CA17Q6
- <2> Strategic Configured Load #8 - 155MM DPICM ER M864:  
CROP (PLS): 19-48-4905/8-CA17Q6  
CROP (LHS): 19-48-4905/8A-CA17Q6
- <3> Strategic Configured Load #23 - 155MM DPICM M483A1:  
CROP (PLS): 19-48-4905/23-CA17Q6
- <4> Strategic Configured Load #32 - 155MM ADAM-L M692:  
CROP (PLS): 19-48-4905/32-CA17Q6  
CROP (LHS): 19-48-4905/32A-CA17Q6
- <5> Strategic Configured Load #33 - 155MM ADAM-S M731:  
CROP (PLS): 19-48-4905/33-CA17Q6  
CROP (LHS): 19-48-4905/33A-CA17Q6
- <6> Strategic Configured Load #34 - 155MM RAAM-S M741A1:  
CROP (PLS): 19-48-4905/34-CA17Q6  
CROP (LHS): 19-48-4905/34A-CA17Q6  
CROP (LHS w/o fuzes): 19-48-4905/34B-CA17Q6
- <7> Strategic Configured Load #35 - 155MM RAAM-L M718A1:  
CROP (PLS): 19-48-4905/35-CA17Q6  
CROP (LHS): 19-48-4905/35A-CA17Q6  
CROP (LHS w/o fuzes): 19-48-4905/35B-CA17Q6
- <8> Strategic Configured Load #36 - 155MM HERA M549A1:  
CROP (PLS): 19-48-4905/36-CA17Q6  
CROP (LHS): 19-48-4905/36A-CA17Q6  
CROP (LHS w/o fuzes): 19-48-4905/36B-CA17Q6
- <9> Strategic Configured Load #37 - 155MM HE M107:  
CROP (PLS): 19-48-4905/37-CA17Q6  
CROP (LHS): 19-48-4905/37A-CA17Q6  
CROP (SBCT): 19-48-4905/37B-CA17Q6  
CROP (LHS w/o fuzes): 19-48-4905/37C-CA17Q6
- <10> Strategic Configured Load #38 - 155MM ILLUM M485A2:  
CROP (PLS): 19-48-4905/38-CA17Q6  
CROP (LHS): 19-48-4905/38A-CA17Q6
- <11> Strategic Configured Load #39 - 155MM Copperhead:  
CROP: 19-48-4905/39-CA17Q6 – Revision 1

(Ammunition over 125MM continued)



## **Ammunition over 125MM (Cont.)**

- <1> Strategic Configured Load #50 - 155MM HE M795:  
CROP (PLS): 19-48-4905/50-CA17Q6
- <2> Strategic Configured Load #50A - 155MM HE M795:  
CROP (LHS): 19-48-4905/50A-CA17Q6
- <3> Strategic Configured Load #52 - 155MM HE M982 Excalibur:  
CROP (LHS): 19-48-4905/52-CA17Q6
- <4> Warhead, 155MM, Copperhead:  
Unit: 19-48-4176-20PM1004

# **Bombs and Associated Components**

(Includes references to selected Navy WR and MS drawings, see page iii for further details.)

## **1325**

- <1> Adapter Group, ADG-769 and ADG-770, packed in CNU-439:
  - Boxcar: 18-48-8679-SP5J18
  - End Opening ISO Container: 19-48-8681-SP15J104
  - Flatbed Trailer: 19-48-8680-SP11J102
  - MILVAN: 19-48-8683-SP15J106
  - Side Opening ISO Container: 19-48-8682-SP15J105
  - Storage: 19-48-8684-1-3-4-14-22J40
  - Van Trailer: 6214079 – Revision A
  
- <2> Adapter Kit, Fuze to Dispenser ADU-449:
  - ^Unit: 19-48-4169/41-20PA1006 - Revision 1
  
- <3> Adapter-Booster, Bomb:
  - ^Unit: 19-48-4116/51-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/51A-20PA1002 - Revision 1
  
- <4> Air Inflatable Retarder, BSU-49 in CNU-335, and BSU-50 in CNU-336:
  - Boxcar: 19-48-7138-SP5J3
  - End Opening ISO Container: 19-48-8538-SP15J36
  - Flatbed: 19-48-8536-SP11J20 - Revision 1
  - Flatrack ISO Container: 19-48-8540-SP15J38
  - MILVAN: 19-48-8537-SP15J35
  - Side Opening ISO Container: 19-48-8539-SP15J37
  - Storage: 19-48-8625-SP1-3-4-14-22J31
  - Van Trailer: 19-48-7071-SP11J2 - Revision 2
  
- <5> Airfoil Group, BSU-84, BSU-92, or BSG-92 packed in CNU-373 Container:
  - Boxcar: 19-48-8685-SP5J19 - Revision 1
  - End Opening ISO Container: 19-48-8606-SP15J75 - Revision 1
  - Flatbed: 19-48-8687-SP11J117 - Revision 1
  - MILVAN: 19-48-8689-SP15J109 - Revision 1
  - Side Opening ISO Container: 19-48-8688-SP15J108 - Revision 1
  - Storage: 19-48-8690-SP1-3-4-14-22J41 - Revision 1
  - Van Trailer: 19-48-8686-SP11J103 - Revision 1
  
- <6> Airfoil Group, MXU-600 packed in Skidded Wooden Boxes:
  - End Opening ISO Container: 19-48-8623-SP15A6
  
- <7> Airfoil Group, MXU-602 packed in Skidded Wooden Boxes:
  - End Opening ISO Container: 19-48-8622-SP15A7

(Bombs continued)

# **Bombs (Cont.)**

- <1> Airfoil Groups, MXU-650 and MXU-651, packed in Metal Drum:
  - Boxcar: 19-48-4164-5PF1002
  - End Opening ISO Container: 19-48-8621-SP15PF1
  - MILVAN: 19-48-8607-SP15PF2
  - Side Opening ISO Container: 19-48-8608-SP15PF3
  - Storage: 19-48-7058-SP1-2-3-4-14-22PF1 - Revision 2
  - Van Trailer: 19-48-4165-11PF1002 - Revision 2
  
- <2> Airfoil Group, MXU-787 packed in CNU-592 Container:
  - Boxcar: 19-48-8758-SP5J30
  - End Opening ISO Container: 19-48-8759-SP15J139
  - Flatbed: 19-48-8763-SP11J36
  - Flatrack ISO Container: 19-48-8762-SP15J142
  - MILVAN: 19-48-8760-SP15J140
  - Side Opening ISO Container: 19-48-8761-SP15J141
  - Storage: 19-48-8765-SP1-3-4-14-22J46
  - Van Trailer: 19-48-8764-SP11J37
  
- <3> Bomb Bodies:
  - Boxcar: 19-48-4218-5B43
  - Van Trailer: 19-48-4219-11B1004
  
- <4> Bomb Casing, for MK82 GP Bomb:
  - TOFC, Van Trailer, BHD: 19-48-4152-15M1001
  
- <5> Bomb, 10,000 Lb, T56E4, w/Pallet:
  - Igloo/Arch Type Magazine: 19-48-3360-1B536
  
- <6> Bomb, 10,000 Lb, T56E4, w/o Pallet:
  - Igloo/Arch Type Magazine: 19-48-3361-1B537
  
- <7> Bomb, BLU-107 (Durandal), packed in CNU-381 Container:
  - Boxcar: 19-48-8526-SP5J8
  - End Opening ISO Container: 19-48-8529-SP15J29
  - Flatbed: 19-48-7105-SP11J5
  - Flatrack ISO Container: 19-48-7086-SP15J3
  - MILVAN: 19-48-8528-SP15J28
  - Side Opening ISO Container: 19-48-8530-SP15J30
  - Storage: 19-48-8602-SP1-3-4-14-22J25
  - Van Trailer: 19-48-8527-SP11J18

(Bombs continued)

# **Bombs (Cont.)**

- <1> Bomb, BLU-109, packed in CNU-416 Container:
  - Boxcar: 19-48-7080-SP5PB1000
  - End Opening ISO Container: 19-48-7082-SP15PB1004
  - Flatbed: 19-48-7084-SP11PB1001 - Revision 2
  - Flatrack ISO Container: 19-48-7085-SP15PB1005
  - MILVAN: 19-48-7081-SP15PB1003
  - Side Opening ISO Container: 19-48-8609-SP15PB3
  - Storage: 19-48-8655-SP1-3-4-14-22PB3
  - Van Trailer: 19-48-7083-SP11PB1000
  
- <2> Bomb, BLU-109, packed in CNU-417 Container:
  - Boxcar: 19-48-7080/1-SP5PB1000 - Revision 1
  - End Opening ISO Container: 19-48-8610-SP15PB4 – Revision 1
  - Flatbed: 19-48-7084/1-SP11PB1001 - Revision 2
  - Flatrack ISO Container: 19-48-7085/1-SP15PB1005
  - MILVAN: 19-48-8611-SP15PB5
  - Side Opening ISO Container: 19-48-8612-SP15PB6 – Revision 2
  - Side Opening ISO Container (RIBS): 19-48-8794-SP15PB18
  - Storage: 19-48-8603-SP1-3-4-14-22PB2
  - Van Trailer: 19-48-8613-SP11PB2
  
- <3> Bomb BLU-113, packed in CNU-554 Containers:
  - Boxcar: 19-48-8626-SP5J16
  - End Opening ISO Container: 19-48-8629-SP15J77
  - Flatbed Trailer: 19-48-8628-SP11J34
  - Flatrack ISO Container: 19-48-8632-SP15J80
  - MILVAN: 19-48-8631-SP15J79
  - Side Opening ISO Container: 19-48-8630-SP15J78
  - Storage: 19-48-8633-SP1-3-4-14-22J32
  - Van Trailer: 19-48-8627-SP11J33
  
- <4> Bomb, BLU-122, packed in CNU-658 Container:
  - Boxcar: 19-48-8848-SP5PB3
  - End Opening ISO Container: 19-48-8851-SP15PB20
  - Flatbed Trailer: 19-48-8850-SP11PB7
  - Flatrack ISO Container: 19-48-8854-SP15PB23
  - MILVAN: 19-48-8853-SP15PB22
  - Side Opening ISO Container: 19-48-8852-SP15PB21
  - Storage: 19-48-8855-SP1-3-4-14-22PB5
  - Van Trailer: 19-48-8849-SP11PB6
  
- <5> Bomb, BLU-82, 15,000 Lb, (CD-1):
  - Flatbed: 19-48-8500-11B1
  
- <6> Bomb, Fire, 500 Lb, MK77 Mod 2 and Mod 4 (Empty), in Crate:
  - End Opening ISO Container: 19-48-4191-15PB1001

(Bombs continued)

# **Bombs (Cont.)**

- <1> Bomb, GBU-10, GBU-15, GBU-24 and GBU-27, 2000 Lb (MK84 on MK79 Pallet), Complete Round:  
Side Opening ISO Container: 19-48-7113-SP15M5  
Side Opening ISO Container: 19-48-8717-SP15M11
- <2> Bomb, GBU-12, 500 Lb (MK82 on MHU-149 Pallet), Complete Round:  
Side Opening ISO Container: 19-48-7112-SP15M4 – Revision 1  
Side Opening ISO Container: 19-48-8725-SP15M19 – Revision 1
- <3> Bomb, GBU-12, 500 Lb (MK82 on MK9 Pallet) Complete Round:  
Side Opening ISO Container: 19-48-8718-SP15M12
- <4> Bomb, GBU-24, 2000 Lb (BLU-109 in CNU-417 Container), Complete Round:  
Side Opening ISO Container: 19-48-8720-SP15M14
- <5> Bomb, GBU-24, 2000 Lb (MK84/MK79 Pallet), Complete Round:  
Side Opening ISO Container: 19-48-8719-SP15M13
- <6> Bomb, GBU-27 2000 Lb (BLU-109 in CNU-417 Container), Complete Round:  
Side Opening ISO Container: 19-48-8721-SP15M15
- <7> Bomb, GBU-31(V)1/B, 2000 Lb (MK84 on MK79 Pallet), Complete Round:  
Side Opening ISO Container: 19-48-8722-SP15M16
- <8> Bomb, GBU-31(V)1/B and GBU-31(V)3B, 2000 Lb, Bulk Pack Components, KMU-572 C/B, DSU-33B/B and Nose Plugs:  
Side Opening ISO Container: 19-48-8871-SP15M11
- <9> Bomb, GBU-31(V)3, 2000 Lb (BLU-109 in CNU-417 Container), Complete Round:  
Side Opening ISO Container: 19-48-8723-SP15M17- Revision 1
- <10> Bomb, GBU-32(V)1/B, 1000 Lb (BLU-110 on MHU-187 Metal Pallet), Partial Complete Round:  
Side Opening ISO Container: 19-48-8874-SP15M14
- <11> Bomb, GBU-39, Small Diameter Bomb Carriage/System in CNU-660 Container:  
Boxcar: 19-48-8833-SP5J37  
End Opening ISO Container: 19-48-8836-SP15J161  
Flatbed: 19-48-8835-SP11J45  
Flatrack ISO Container: 19-48-8838-SP15J163  
MILVAN: 19-48-8839-SP15J164  
Side Opening ISO Container: 19-48-8837-SP15J162  
Storage: 19-48-8840-SP1-3-4-14-22J53  
Van Trailer: 19-48-8834-SP11J44

(Bombs continued)

# **Bombs (Cont.)**

- <1> Bomb, GBU-39, Small Diameter Bomb Single Weapon in CNU-659 Container:  
Boxcar: 19-48-8827-SP5J36 - Revision 1  
End Opening ISO Container: 19-48-8829-SP15J158 – Revision 1  
MILVAN: 19-48-8831-SP15PM10 - Revision 1  
Side Opening ISO Container: 19-48-8830-SP15J159 – Revision 1  
Storage: 19-48-8832-SP1-3-4-14-22J52 - Revision 1  
Unitization: 19-48-8826-SP20J1 - Revision 2  
Van Trailer: 19-48-8828-SP11J43 - Revision 1
  
- <2> Bomb, GBU-53, Small Diameter Bomb II in CNU-714 Container:  
End Opening ISO Container: 19-48-8884-SP15J177  
Flatbed: 19-48-8883-SP11J47  
Flatrack ISO Container: 19-48-8886-SP15J179  
Side Opening ISO Container: 19-48-8885-SP15J178  
Storage: 19-48-8887-SP1-3-4-14-22J57
  
- <3> Bomb, GP, 1000 Lb, AN-M65, Loose:  
Boxcar: 19-48-4058-5B42 - Revision 1  
Storage: 19-48-4055-1-14B1001  
Van Trailer: 19-48-4057-11B1002
  
- <4> Bomb, GP, 1000 Lb, MK83, BLU-110, BLU-126, BDU-45, or BDU-50, Navy Fleet Issue, MHU-187 Pallet:  
End Opening ISO Container: 19-48-4317-15PM1009  
MILVAN: 19-48-8640-SP15PB9  
Side Opening ISO Container: 19-48-8641-SP15PB10  
Unit (Fleet Issue - MHU-187/E): 7516303  
Unit (Fleet Issue - MHU-187A/E): 7516321 – Revision C  
Van or Flatbed Trailer: 6214040 – Revision A
  
- <5> Bomb, GP, 1000 Lb, MK83, Navy Fleet Issue, MK11 Pallet:  
Boxcar: WR-52/11 - Revision A  
End Opening ISO Container: 19-48-4192-15PB1002 - Revision 1  
Flatbed: 19-48-4266-11PB1005  
MILVAN: MS-1386/2 - Revision A  
Side Opening ISO Container: 19-48-4361-15PB1017  
Storage: 19-48-7067-SP1-3-4-14-22PB1  
Unit: MS-1323/35  
Van Trailer: 6214074
  
- <6> Bomb, GP, 12,000 Lb, M123 (T39E2), with Shipping Skids:  
Igloo/Arch Type Magazine: 19-48-3362-1B538

(Bombs continued)

# **Bombs (Cont.)**

- <1> Bomb, GP, 2000 Lb, MK84, BLU-117 or BDU-56, Navy Fleet Issue, on MK79 Pallet:  
Boxcar: MS-1325/85 or MS-1325/175  
End Opening ISO Container: 19-48-4343-15PB1013 - Revision 1  
Flatbed Trailer: 6214078 – Revision A  
Flatrack ISO Container: 19-48-7074-SP15PB2  
MILVAN: 19-48-4280-15PB1006  
Side Opening ISO Container: 19-48-7127-SP15PB1007 - Revision 1  
Storage: 19-48-4093-1-3-4-14-22PB1000 - Revision 2  
Unit: 6214081 – Revision F  
Van Trailer: 19-48-4263-11PB1004 - Revision 1
  
- <2> Bomb, GP, 2000 Lb, MK84 on MK79 Pallet, Complete Round:  
Side Opening ISO Container: 19-48-7107-SP15M3 - Revision 1
  
- <3> Bomb, GP, 2000 Lb, MK84 on MK79 Pallet, High Drag, Complete Round:  
Side Opening ISO Container: 19-48-8715-SP15M9 - Revision 1
  
- <4> Bomb, GP, 3000 Lb, T55/M118 Series:  
Boxcar: 19-48-2464-5B33 - Revision 2  
Flatbed: 19-48-4261-11PB1003
  
- <5> Bomb, GP, 500 Lb, AN-M64, Loose:  
Boxcar: 19-48-4053-5B41  
Storage: 19-48-4054-1-14B1000  
Van Trailer: 19-48-4056-11B1001
  
- <6> Bomb, GP, 500 Lb, MK82 and Mods, Loose:  
Boxcar: 19-48-4050-5B40  
Van Trailer: 19-48-4060-11B1003
  
- <7> Bomb, GP, 500 Lb, MK82, Air Force Unit, on MHU-149 Pallet:  
End Opening ISO Container: 19-48-8643-SP15PB12 - Revision 1  
Flatbed Trailer: 19-48-4295-11PB1007  
Flatrack: 19-48-7073-SP15PB1  
MILVAN: 19-48-8642-SP15PB11  
Side Opening ISO Container: 19-48-7126-SP15PB1006 - Revision 4  
Side Opening ISO Container (RIBS): 19-48-8795-SP15PB19  
Storage: 19-48-4105/2-1-3-4-14-22PB1003  
TOFC, Van Trailer: 19-48-4304-15PB1007  
Unit: SPI F00-294-4152 – Revision R

(Bombs continued)

# **Bombs (Cont.)**

- <1> Bomb, GP, 500 Lb, MK82, Air Force Unit, Wood Pallet:  
Boxcar: WR-52/74 – Revision A  
End Opening ISO Container: D-SARAC 4457  
MILVAN: MS-1386/3  
Storage: 19-48-4105/1-1-3-4-14-22PB1003  
TOFC, Van Trailer: WR-51/85  
Unit: TPO 1325-294-4152  
Van Trailer: WR-51/81
  
- <2> Bomb, GP, 500 Lb, MK82, BLU-111, BLU-126, BLU-129, BDU-45, and BDU-50, Navy Fleet Issue, MHU-122 Pallet:  
Boxcar: MS-1325/157 – Revision A  
End Opening ISO Container: 19-48-4316-15PB1008  
MILVAN: MS-1386/21 – Revision A  
Storage: 19-48-4105/4-1-3-4-14-22PB1003 - Revision 1  
Unit: 6214275 – Revision B  
Van or Flatbed Trailer: 7517082
  
- <3> Bomb, GP, 500 Lb, MK82, Navy Domestic Unit, Wood Pallet:  
Boxcar: WR-52/76 – Revision A  
Storage: 19-48-4105/3-1-3-4-14-22PB1003  
TOFC, Van Trailer: WR-51/35  
Unit: WR-53/702  
Van Trailer: WR-51/36
  
- <4> Bomb, GP, 500 Lb, MK82, Navy Fleet Issue, MK9 Mod 0 Pallet:  
Boxcar: WR-52/10 – Revision D  
End Opening ISO Container: 19-48-4313-15PB1010  
MILVAN: MS-1386/4  
Side Opening ISO Container: 19-48-4314-15PB1011 - Revision 1  
Side Opening ISO Container (RIBS): 19-48-8792-SP15PB17  
Storage: 19-48-4105/5-1-3-4-14-22PB1003  
TOFC, Van Trailer: WR-51/34  
Unit: WR-54/31 – Revision B  
Van Trailer: WR-51/6
  
- <5> Bomb, GP, 500 Lb, MK82, on MHU-149 Pallet, High Drag, Complete Round:  
Side Opening ISO Container: 19-48-8724-SP15M18
  
- <6> Bomb, GP, 500 Lb, MK82, on MK9 Pallet, Airburst, Complete Round:  
Side Opening ISO Container: 19-48-8716-SP15M10
  
- <7> Bomb, GP, 500 Lb, MK82, on MHU-149 Pallet, Complete Round:  
Side Opening ISO Container: 19-48-7106-SP15M2

(Bombs continued)



# **Bombs (Cont.)**

- <1> Bomb, GP, 750 Lb, M117:  
Boxcar: 19-48-4049-5PB1000 - Revision 2  
End Opening ISO Container: 19-48-4259-15PB1004 - Revision 1  
MILVAN: 19-48-4262-15PB1005  
Side Opening ISO Container: 19-48-8615-SP15PB8  
Storage: 19-48-4094-1-14PB1001  
Unitization: TPO-1325-926-1868
  
- <2> Bomb, GP, 750 Lb, M117, 4-Pack:  
Boxcar: WR-52/77  
End Opening ISO Container: 19-48-4353-15PB1014  
Side Opening ISO Container: 19-48-4354-15PB1015  
TOFC: WR-51/46  
Unitization: WR-53/705 – Revision A  
Van Trailer: WR-51/39
  
- <3> Bomb, GP, 750 Lb, M117 or MC-1:  
Flatbed: 19-48-4260-11PB1002 - Revision 1  
TOFC, Van Trailer, BHD: 19-48-4067-11-15PB1000  
Van Trailer: 19-48-4062-11PB1000 - Revision 3
  
- <4> Bomb, GP, 750 Lb, M117, Complete Round:  
Side Opening ISO Container: 19-48-8571-SP15M7
  
- <5> Bomb, LD, Inert, 500 Lb, Navy Fleet Issue, 6 per Metal Pallet:  
40' End Opening ISO Container: 19-48-4203-11PB1001
  
- <6> Bomb, Leaflet, M129:  
End Opening ISO Container: 19-48-4322-15CB1001  
MILVAN: 19-48-4323-15CB1002  
Side Opening ISO Container: 19-48-4324-15CB1003
  
- <7> Bomb, Penetrator, 2,000 Lb, BLU-109 or BLU-116, on MHU-212 Series Pallet:  
Boxcar: 19-48-8766-SP5PB2  
End Opening ISO Container: 19-48-8767-SP15PB13  
Flatbed: 19-48-8771-SP11PB3  
Flatrack ISO Container: 19-48-8770-SP15PB16  
MILVAN: 19-48-8768-SP15PB14  
Side Opening ISO Container: 19-48-8769-SP15PB15  
Storage: 19-48-8773-SP1-3-4-14-22PB4  
Unitization: 6214303 - Revision B
  
- <8> Bombs, Various, Loose:  
Igloo/Arch Type Magazine: 19-48-4006-1B1000 - Revision 2  
Storage: Appendix E2 to TO 11A 1-61 - Revision 1  
Van Trailer: 19-48-4018-11B1000

(Bombs continued)

# **Bombs (Cont.)**

- <1> Booster, Fuze:  
^Unit: 19-48-4116/60-20PA1002 - Revision 1
- <2> CBU Items packed in CNU-100 Container:  
Boxcar: 19-48-7053-SP5K2 - Revision 1  
Storage: 19-48-7050-SP1-14K2 - Revision 1  
Van Trailer: 19-48-7052-SP11K2 - Revision 1
- <3> CBU Items packed in CNU-104 Container:  
Boxcar: 19-48-7046-SP5K1  
Storage: 19-48-7044-SP1-14K1  
TOFC, Van Trailer, Mech: 19-48-7054-SP15K1  
Van Trailer: 19-48-7047-SP11K1
- <4> CBU Items packed in CNU-105 Container:  
Boxcar: 19-48-7055-SP5A2  
Storage: 19-48-7045-SP1-14A4  
Van Trailer: 19-48-7048-SP11A1
- <5> CBU Items packed in CNU-123 Container:  
Flatbed: 19-48-4096-11M1004 - Revision 1  
Standard Magazine: 19-48-4091-2M1000  
Storage: 19-48-4090-1-14M1002  
TOFC, Van Trailer, BHD: 19-48-4000-15J1  
Van Trailer: 19-48-4095-11M1003
- <6> CBU Items packed in CNU-208 Container:  
Storage: 19-48-7119-SP1-3-4-14-22J5 - Revision 1
- <7> CBU Items packed in CNU-80 Container and MAU Items in CNU-152 or CNU-203 Container:  
Boxcar: 19-48-7031-SP5M4 - Revision 1  
Storage: 19-48-7037-SP1-14M2 - Revision 2  
Van Trailer: 19-48-7038-SP11M3 - Revision 1
- <8> CBU Items packed in CNU-80 Container and MAU Items in CNU-203 Container:  
End Opening ISO Container: 19-48-8575-SP15J59  
Flatbed: 19-48-8651-SP11J34  
Flatrack ISO Container: 19-48-8511-SP15J66  
MILVAN: 19-48-8577-SP15J61  
Side Opening ISO Container: 19-48-8576-SP15J60
- <9> CBU Items packed in CNU-81 Container:  
Boxcar: 19-48-7051-SP5B1  
Storage: 19-48-7036-SP1-14A2  
Van Trailer: 19-48-7049-SP11M4

(Bombs continued)

## **Bombs (Cont.)**

- <1> CBU Items packed in CNU-85 Container:
  - Boxcar: 19-48-7034-SP5A1
  - Storage: 19-48-7032-SP1-14A1
  - Van Trailer: 19-48-7033-SP11C2
  
- <2> CBU Items packed in CNU-98 Container:
  - Boxcar: 19-48-4086-5J1000
  - Storage: 19-48-4077-1-14J1000
  - Van Trailer: 19-48-4078-11J1000
  
- <3> CBU-24, CBU-52, CBU-58, or CBU-71 packed in CNU-147 (Twin Pack) Containers:
  - Boxcar: 19-48-4084-5A1003 - Revision 1
  - End Opening ISO Container: 19-48-8616-SP15A1
  - Flatbed: 19-48-4258-11A1006 - Revision 1
  - Flatrack ISO Container: 19-48-8619-SP15A4
  - Half-high ISO Container: 19-48-8620-SP15A5
  - MILVAN: 19-48-8617-SP15A2
  - Side Opening ISO Container: 19-48-8618-SP15A3
  - Standard Magazine: 19-48-4081-1-14A1003
  - Igloo & Stradley Magazine: 19-48-4080-1-14A1002 - Revision 1
  - TOFC, Van Trailer, BHD: 19-48-4083-15A1002
  - Van Trailer: 19-48-4082-11A1004 - Revision 1
  
- <4> CBU-52, CBU-58, CBU-71, CBU-87, CBU-89, CBU-97, CBU-103, CBU-104 and CBU-105 packed in CNU-411 Container:
  - Boxcar: 19-48-7091-SP5J4
  - End Opening ISO Container: 19-48-8554-SP15J49
  - Flatbed: 19-48-7077-SP11M7 - Revision 4
  - Flatrack ISO Container: 19-48-7092-SP15J5
  - MILVAN: 19-48-8553-SP15J48
  - Side Opening ISO Container: 19-48-7151-SP15J21 - Revision 2
  - Side Opening ISO Container: 19-48-8555-SP15J50
  - Storage: 19-48-7102-SP1-3-4-14-22J18 - Revision 1
  - Van Trailer: 19-48-7141-SP11J11
  
- <5> CBU-52, CBU-58, CBU-70 or CBU-71 in CNU-126 or CNU-180 Container:
  - End Opening ISO Container: 19-48-8548-SP15J44
  - Flatrack ISO Container: 19-48-7150-SP15J20
  - MILVAN: 19-48-8547-SP15J43
  - Side Opening ISO Container: 19-48-7110-SP15J11
  
- <6> CBU-52, CBU-58, or CBU-70 packed in CNU-126 Container:
  - Boxcar: 19-48-8572-SP5J13
  - End Opening ISO Container: D-SARAC 4463
  - Flatbed: 19-48-8574-SP11J29
  - Storage: 19-48-8601-SP1-3-4-14-22J24
  - Van Trailer: 19-48-8573-SP11J28

(Bombs continued)

# **Bombs (Cont.)**

- <1> CBU-52, CBU-58 or CBU-71 packed in CNU-92 Container:  
Boxcar: 19-48-7039-SP5M5  
Storage: 19-48-7042-SP1-14A3  
Van Trailer: 19-48-7041-SP11M4 - Revision 1
- <2> CBU-52, CBU-58 or CBU-71 packed in M468 Container:  
"DF" Boxcar: 19-48-7029-SP5M3  
Boxcar: 19-48-7013-SP5M1 - Revision 1  
Igloo/Arch Type Magazine: 19-48-7023-SP1M2  
Stradley Magazine: 19-48-7024-SP14M2  
Van Trailer: 19-48-7030-SP11M2
- <3> CBU-55 packed in CNU-120 Container:  
Boxcar: WR-52/114  
Flatbed: WR-51/80  
Storage: 19-48-7137-SP1-3-4-14-22J29 - Revision 1  
Unit Load (Fleet Issue): WR-54/181 – Revision C
- <4> CBU-55, CBU-59, CBU-78, CBU-99, CBU-100, MK20, or SUU-76 packed in CNU-238 or CNU-319 Container:  
End Opening ISO Container: 19-48-4193-15PM1007 - Revision 1
- <5> CBU-55, CBU-59, or MK20 packed in CNU-238 Container:  
Boxcar: MS-1325/179  
Flatbed: MS-1320/171  
Flatrack ISO Container: 19-48-8525-SP15J27  
MILVAN: 19-48-7140-SP15J17  
Side Opening ISO Container: 19-48-8524-SP15J26  
Storage: 19-48-7066-SP1-3-4-14-22BM1 - Revision 2  
Van Trailer: 19-48-8522-SP11J17
- <6> CBU-58 or CBU-71 packed in CNU-180 Container:  
Boxcar: 19-48-7130-SP5J5  
Flatbed: 19-48-7132-SP11J10 - Revision 1  
Storage: 19-48-8600-SP1-3-4-14-22J23  
Van Trailer: 19-48-7131-SP11J9

(Bombs continued)

## **Bombs (Cont.)**

- <1> CBU-59 or MK20 packed in MK427 Container:  
Boxcar (MK427/0): WR-52/72  
Boxcar (MK427/1): MS-1325/174  
End Opening ISO Container: 19-48-8533-SP15J32  
Flatbed (MK427/0): MS-1320/65  
Flatbed (MK427/0): WR-51/144  
Flatbed (MK427/1): MS-1320/162  
Flatrack ISO Container: 19-48-8535-SP15J34  
MILVAN: 19-48-8532-SP15J31  
Side Opening ISO Container: 19-48-8534-SP15J33  
Storage: 19-48-7135-SP1-3-4-14-22J28 - Revision 1  
Unit (Fleet Issue - MK427/0): WR-54/215  
Unit (Fleet Issue - MK427/0): WR-54/140  
Unit (Fleet Issue - MK427/1): WR-54/286  
Van Trailer: 19-48-8531-SP11J19
- <2> CBU-7, CBU-30, or M56 Mine Disperser packed in CNU-79 Container:  
Boxcar: 19-48-7043-SP5J1 - Revision 1  
Flatbed: 19-48-8507-SP11M11 - Revision 1  
Storage: 19-48-7035-SP1-14M1 - Revision 1  
Van Trailer: 19-48-7040-SP11M5 - Revision 1
- <3> CBU-75 packed in CNU-218 Container:  
Boxcar: 19-48-4142-SP5M6  
Storage: 19-48-8604-SP1-3-4-14-22J26
- <4> CBU-78 and MK20 packed in MK18 Mod 0 Cradle:  
Boxcar: 19-48-8541-SP5J9  
End Opening ISO Container: 19-48-8544-SP15J40  
Flatbed: WR-51/124  
MILVAN: 19-48-8543-SP15J39  
Side Opening ISO Container: 19-48-8545-SP15J41  
Storage: 19-48-7136-SP1-3-4-14-22J27 - Revision 1  
Van Trailer: 19-48-8542-SP11J21
- <5> CBU-78, CBU-99, CBU-100, MK20, or SUU-76 packed in CNU-319 Container:  
Boxcar: MS-1325/196  
Flatbed Trailer: MS-1320/202  
Flatrack ISO Container: 19-48-7075-SP15J1  
MILVAN: 19-48-8521-SP15J24  
Side Opening ISO Container: 19-48-7108-SP15J9  
Storage: 19-48-7109-SP1-3-4-14-22J1 - Revision 1  
Unit (Fleet Issue): 6214274  
Van Trailer: 19-48-8520-SP11J16

(Bombs continued)

# **Bombs (Cont.)**

- <1> CBU-87 or CBU-89 packed in CNU-327 Container:
  - Boxcar: 19-48-7072-SP5J2 - Revision 1
  - End Opening ISO Container: 19-48-8552-SP15J47
  - Flatbed: 19-48-7099-SP11M9 - Revision 3
  - Flatrack ISO Container: 19-48-7100-SP15J8
  - MILVAN: 19-48-8550-SP15J45
  - Side Opening ISO Container: 19-48-8551-SP15J46
  - Storage: 19-48-7101-SP1-3-4-14-22J17 - Revision 1
  - Van Trailer: 19-48-8549-SP11J22
  
- <2> CDU Items on 463L (HCU-6/E) Pallet:
  - Flatbed or Van Trailer: 19-48-4069-11PA1002
  
- <3> CDU Items packed in Skidded Wooden Boxes:
  - Boxcar: 19-48-4070-5A1002
  - Igloo & Stradley Magazine: 19-48-4068-1-14A1001
  - Van Trailer: 19-48-4071-11A1003
  
- <4> Canister Cluster, Chemical Agent:
  - Unit: 19-48-4138/48-20PA1000
  
- <5> Cartridge, Signal:
  - Unit: 19-48-4116/62-20PA1002 - Revision 1
  
- <6> Charge, Spotting, Bomb:
  - Unit: 19-48-4116/53-20PA1002
  - Unit: 19-48-4116/53A-20PA1002
  - Unit: 19-48-4116/53B-20PA1002
  
- <7> Computer Control Group, MAU-157, MAU-169, MAU-209, WCU-10, or WGU-53 packed in CNU-317 Container, Palletized:
  - Boxcar: 19-48-8673-SP5PM1
  - End Opening ISO Container: 19-48-8675-SP15PM2
  - MILVAN: 19-48-8677-SP15PM4
  - Side Opening ISO Container: 19-48-8676-SP15PM3
  - Storage: 19-48-8678-SP1-3-4-14-22PM3
  - Unitization: 6214415 – Revision D
  - Van Trailer: 19-48-8674-SP11PM1
  
- <8> Computer Control Group, MAU-157 or MAU-169 in CNU-152 Container:
  - End Opening ISO Container: 19-48-8578-SP15J62
  - Flatbed: 19-48-8512-SP11J27 - Revision 1
  - Flatrack ISO Container: 19-48-8581-SP15J65
  - MILVAN: 19-48-8580-SP15J64
  - Side Opening ISO Container: 19-48-8579-SP15J63

(Bombs continued)

## **Bombs (Cont.)**

- <1> Conversion Kit, Bomb, ADK-723, GBU-15, packed in CNU-483:  
End Opening ISO Container: 19-48-8814-SP15J151  
MILVAN: 19-48-8815-SP15J152  
Side Opening ISO Container: 19-48-8816-SP15J153
  
- <2> Coupler, Drive Assembly:  
^Unit: 19-48-4116/52-20PA1002
  
- <3> Drive Assembly:  
^Unit: 19-48-4116/52A-20PA1002
  
- <4> Fin Assembly for 1,000-Lb MK83 Bomb:  
End Opening ISO Container: 19-48-4194-15PB1003
  
- <5> Fin Assembly for 2,000-Lb MK84 Bomb:  
End Opening ISO Container: 19-48-4278-15PM1021  
MILVAN: 19-48-4277-15PM1020  
Side Opening ISO Container: 19-48-4279-15PM1022
  
- <6> Fin Assembly, BSU-33, for 500-Lb MK82 Bomb, in ADU-426 Pallet Adapter:  
Boxcar: 19-48-8805-SP15PM2  
End Opening ISO Container: 19-48-8806-SP15PM5  
MILVAN: 19-48-8807-SP15PM6  
Side Opening ISO Container: 19-48-8808-SP15PM7  
Unit: 6214035 – Revision F
  
- <7> Fin Assembly, MAU-91, for 750-Lb M117 Bomb:  
End Opening ISO Container: 19-48-4318-15PA1010  
MILVAN: 19-48-4319-15PA1011  
Side Opening ISO Container: 19-48-4321-15PA1012
  
- <8> Fin Assembly, MAU-93, for 500-Lb MK82 Bomb:  
End Opening ISO Container: 19-48-4275-15PM1018  
Side Opening ISO Container: 19-48-4276-15PM1019  
Unit: TPO 00-866-1175 – Revision N
  
- <9> Fin Assembly, MK15 Mod 1:  
End Opening ISO Container: D-SARAC 4461
  
- <10> Fuze, Bomb:  
^Unit: 19-48-4116/55B-20PA1002 - Revision 1  
^Unit: 19-48-4116/55F-20PA1002 - Revision 1  
^Unit: 19-48-4169/42-20PA1006 - Revision 1
  
- <11> Fuze, Bomb, M166, M188 or M914, in Metal Drums, Palletized:  
Boxcar: 19-48-4092-5M1005  
Storage: 19-48-4075-1-14PF1000  
Van Trailer: 19-48-4089-11PF1000

(Bombs continued)

# **Bombs (Cont.)**

- <1> Fuze, Bomb, Nose:
  - ^Unit: 19-48-4116/57-20PA1002
  - ^Unit: 19-48-4116/57A-20PA1002
  - ^Unit: 19-48-4116/57B-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/57C-20PA1002
  - ^Unit: 19-48-4116/57D-20PA1002
  
- <2> Fuze, Bomb, Tail:
  - ^Unit: 19-48-4116/55-20PA1002
  - ^Unit: 19-48-4116/55A-20PA1002
  - ^Unit: 19-48-4116/55C-20PA1002
  - ^Unit: 19-48-4116/55D-20PA1002
  - ^Unit: 19-48-4116/55E-20PA1002
  - ^Unit: 19-48-4116/55G-20PA1002 - Revision 1
  
- <3> Fuze, Delay Element:
  - ^Unit: 19-48-4116/63-20PA1002
  
- <4> Fuze, Proximity:
  - ^Unit: 19-48-4116/59-20PA1002 - Revision 4
  - ^Unit: 19-48-4116/61-20PA1002
  
- <5> Guidance Control Unit, WGU-12, WGU-25, WGU-36 or WGU-39 packed in CNU-371 Container, Palletized:
  - End Opening ISO Container: 19-48-8858-SP15PM8
  - MILVAN: 19-48-8860-SP15PM10
  - Side Opening ISO Container: 19-48-8859-SP15PM9
  - Storage: 19-48-8861-SP1-3-4-14-22PM5
  - Unit: 6214084
  - Van Trailer: 19-48-8857-SP11PM3
  
- <6> Guidance Kit, Joint Direct Attack Munition (JDAM) in CNU-589 Container:
  - Boxcar: 19-48-8785-SP5K5
  - End Opening ISO Container: 19-78-8788-SP15K10
  - Flatbed: 6214089 – Revision C
  - MILVAN: 19-48-8790-SP15K12
  - Side Opening ISO Container: 19-48-8789-SP15K11
  - Storage: 19-48-8791-SP1-3-4-14-22K2
  - Unit: 6214068 – Revision A
  - Van Trailer (Airbags): 19-48-8787-SP11K8
  
- <7> Lug, Bomb, Suspension:
  - ^Unit: 19-48-4116/54-20PA1002 - Revision 3
  - ^Unit: 19-48-4116/54A-20PA1002

(Bombs continued)



# **Bombs (Cont.)**

<1> Reload Kits for CBU-42 Munitions packed in Skidded Wooden Containers:

Boxcar: 19-48-4027-5A1004  
 Storage: 19-48-4026-1-14A2  
 Van Trailer: 19-48-4023-11A3

<2> Solution A and Solution B:

Storage: 19-48-4148-1-3-4-14-22PN1000

| <b>Name/Number/Container Cross Reference</b> |               |                  |               |                  |
|--|---------------|------------------|---------------|------------------|
| <u>Name</u>                                  | <u>Number</u> | <u>Container</u> | <u>Number</u> | <u>Container</u> |
| APAM   | CBU-59        | CNU-120          | CBU-52        | CNU-180          |
| APAM   | CBU-59        | CNU-238          | CBU-52        | CNU-411          |
| APAM   | CBU-59        | CNU-319          | CBU-52        | M468             |
| APAM   | CBU-59        | MK427            | CBU-55        | CNU-120          |
| Durandal                                     | BLU-107       | CNU-381          | CBU-55        | CNU-238          |
| Gator  | CBU-78        | CNU-319          | CBU-58        | CNU-92           |
| Gator  | CBU-78        | MK18             | CBU-58        | CNU-126          |
| Gator  | CBU-78        | MK427            | CBU-58        | CNU-147          |
| Gator  | CBU-89        | CNU-327          | CBU-58        | CNU-180          |
| Gator  | CBU-89        | CNU-411          | CBU-58        | CNU-411          |
| Rockeye                                      | MK20          | CNU-120          | CBU-58        | M468             |
| Rockeye                                      | MK20          | CNU-238          | CBU-70        | CNU-126          |
| Rockeye                                      | MK20          | CNU-319          | CBU-71        | CNU-92           |
| Rockeye                                      | MK20          | MK18             | CBU-71        | CNU-147          |
| Rockeye                                      | MK20          | MK427            | CBU-71        | CNU-180          |
|  | BLU-109       | CNU-416          | CBU-71        | CNU-411          |
|  | BLU-109       | CNU-417          | CBU-71        | M468             |
|  | BLU-113       | CNU-554          | CBU-72        | CNU-238          |
|  | BSU-49        | CNU-335          | CBU-75        | CNU-218          |
|  | BSU-50        | CNU-336          | CBU-87        | CNU-327          |
|  | BSU-84        | CNU-373          | CBU-97        | CNU-411          |
|  | CBU-7         | CNU-79           | CBU-103       | CNU-411          |
|  | CBU-14        | CNU-80           | CBU-104       | CNU-411          |
|  | CBU-20        | CNU-319          | CBU-105       | CNU-411          |
|  | CBU-22        | CNU-80           | CBU-87        | CNU-411          |
|  | CBU-24        | CNU-147          | M56           | CNU-79           |
|  | CBU-25        | CNU-80           | MAU-157       | CNU-152          |
|  | CBU-30        | CNU-79           | MAU-157       | CNU-203          |
|  | CBU-52        | CNU-92           | MAU-169       | CNU-152          |
|  | CBU-52        | CNU-126          | MAU-169       | CNU-203          |
|  | CBU-52        | CNU-147          | MXU-787       | CNU-592          |

# Grenades

## 1330

- <1> Adapter, Grenade, Projection:  
^Unit: 19-48-4116/67A-20PA1002  
^Unit: 19-48-4116/67B-20PA1002
- <2> Body, Hand Grenade, Practice:  
^Unit: 19-48-4116/65V-20PA1002  
^Unit: 19-48-4116/69A-20PA1002
- <3> Cartridge, .30 Caliber, Grenade:  
^Unit: 19-48-4116/68B-20PA1002  
^Unit: 19-48-4116/68C-20PA1002  
^Unit: 19-48-4116/68D-20PA1002  
^Unit: 19-48-4116/68E-20PA1002
- <4> Cartridge, Grenade, 5.56MM:  
^Unit: 19-48-4116/68A-20PA1002
- <5> Cartridge, Grenade, Rifle, 7.62MM:  
^Unit: 19-48-4116/68-20PA1002 - Revision 3
- <6> Charge, Practice Hand Grenade:  
^Unit: 19-48-4116/69-20PA1002
- <7> Fuze, Hand Grenade:  
^Unit: 19-48-4116/71-20PA1002 - Revision 3  
^Unit: 19-48-4116/71A-20PA1002  
^Unit: 19-48-4116/71C-20PA1002 - Revision 4  
^Unit: 19-48-4116/71D-20PA1002  
^Unit: 19-48-4169/71-20PA1006
- <8> Grenade, Hand, Fragmentation:  
^Unit: 19-48-4116/65E-20PA1002  
^Unit: 19-48-4116/65H-20PA1002  
^Unit: 19-48-4116/65K-20PA1002  
^Unit: 19-48-4116/65P-20PA1002 - Revision 3
- <9> Grenade, Hand, Fragmentation, M33:  
Type 1 Portable Container: 19-48-7025-SP16A5  
Type 2 Portable Container: 19-48-7026-SP16A6
- <10> Grenade, Hand, Fragmentation, in Sure-Pak Containers for Intra-Theater  
Ground Movement Only:  
Unit: 19-48-4362/4-20PM1015

(Grenades continued)

## Grenades (Cont.)

- <1> Grenade, Hand, Illuminating:  
^Unit: 19-48-4116/65M-20PA1002
- <2> Grenade, Hand, Incendiary:  
^Unit: 19-48-4116/65G-20PA1002
- <3> Grenade, Hand, Non-Lethal, Stun, M84:  
^Unit: 19-48-4116/65R-20PA1002 - Revision 1
- <4> Grenade, Hand, Offensive:  
^Unit: 19-48-4116/65D-20PA1002 - Revision 1  
^Unit: 19-48-4116/65N-20PA1002  
^Unit: 19-48-4116/65U-20PA1002
- <5> Grenade, Hand, Practice:  
^Unit: 19-48-4116/65F-20PA1002  
^Unit: 19-48-4116/65J-20PA1002
- <6> Grenade, Hand, Riot Control:  
^Unit: 19-48-4116/65A-20PA1002 - Revision 1  
^Unit: 19-48-4116/65B-20PA1002
- <7> Grenade, Hand, Smoke:  
^Unit: 19-48-4116/65S-20PA1002  
^Unit: 19-48-4116/65T-20PA1002
- <8> Grenade, Hand, Smoke and Riot Control:  
^Unit: 19-48-4116/65-20PA1002 - Revision 1
- <9> Grenade, Hand, Smoke in Sure-Pak Containers for Intra-Theater Ground  
Movement Only:  
Unit: 19-48-4362/5-20PM1015
- <10> Grenade, Hand, WP:  
^Unit: 19-48-4015/9-20PA1004 - Revision 1
- <11> Grenade, Rifle, Entry Munition (GREM) XM100:  
^Unit: 19-48-4116/65Q-20PA1002
- <12> Launcher, Grenade, or Discharger, Grenade:  
^Unit: 19-48-4116/66E-20PA1002 - Revision 3

(Grenades continued)

## Grenades (Cont.)

<1> Launcher, Grenade, Smoke:

^Unit: 19-48-4116/66-20PA1002

^Unit: 19-48-4116/66A-20PA1002 - Revision 1

^Unit: 19-48-4116/66B-20PA1002 - Revision 1

^Unit: 19-48-4116/66C-20PA1002 - Revision 1

^Unit: 19-48-4116/66D-20PA1002

^Unit: 19-48-4138/108-20PA1000

^Unit: 19-48-4169/56-20PA1006

<2> Retrograde Ammunition loaded in Pallet Boxes - Hand Grenades:

Unit: 19-48-4233/6-20PE1000 - Revision 3

# Rockets and Components

1340

- <1> Burster Charge Assembly:  
^Unit: 19-48-4116/87-20PA1002
  
- <2> Fuze, Rocket:  
^Unit: 19-48-4116/84-20PA1002 - Revision 1  
^Unit: 19-48-4116/84A-20PA1002 - Revision 3  
^Unit: 19-48-4116/84B-20PA1002
  
- <3> Igniter, Rocket:  
^Unit: 19-48-4116/85-20PA1002  
^Unit: 19-48-4116/85A-20PA1002
  
- <4> Retrograde Ammunition loaded in Pallet Boxes - Hydra 70 (2.75") Rockets:  
Unit: 19-48-4233/3-20PE1000 - Revision 2
  
- <5> Retrograde Ammunition loaded in Pallet Boxes - LAW Rockets:  
Unit: 19-48-4233/1-20PE1000 - Revision 2
  
- <6> Retrograde Ammunition loaded in Pallet Boxes - SMAW Assault Rockets:  
Unit: 19-48-4233/4-20PE1000 - Revision 2
  
- <7> Rocket and Launcher, 83MM, HEDP, SMAW-D, M141 Bunker Defeat Munition:  
End Opening ISO Container: 19-48-4215/14-15PM1013  
MILVAN: 19-48-4214/14-15PM1006  
Side Opening ISO Container: 19-48-4265/14-15PM1014  
Storage: 19-48-4145/13A-1-2-3-4-14-22PM1003  
^Unit: 19-48-4079/13-20PM1002 - Revision 2
  
- <8> Rocket Motor, 2.75":  
^Unit: 19-48-4116/80M-20PA1002 - Revision 3  
^Unit: 19-48-4116/82-20PA1002  
^Unit: 19-48-4116/82A-20PA1002 - Revision 1
  
- <9> Rocket Motor, 5", MK22 Mod 4, packed in MK697 Container:  
Storage: 19-48-4220-1-3-4-14-22PA1008 - Revision 1
  
- <10> Rocket Motor, Bomarc:  
Flatbed: D-SMCAC 4488
  
- <11> Rocket Motor, M67:  
Crate: DET 0701
  
- <12> Rocket Motors, MK16 and MK71, and Launchers, 7D, 3A/A and 60A:  
Storage: 19-48-7068-SP1-3-4-14-22PQ1

(Rockets continued)

# Rockets (Cont.)

- <1> Rocket, 2.75":
  - Boxcar: 19-48-4135-5C1000
  - MILVAN: D-AMXAC 4290 - Revision 1
  - MILVAN: D-AMXAC 4291 - Revision 1
  - MILVAN: D-AMXAC 4292 - Revision 1
  - MILVAN (Mixed Height Load): D-SARAC 4360
  - ^Unit: 19-48-4116/80-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/80A-20PA1002
  - ^Unit: 19-48-4116/80C-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/80N-20PA1002 - Revision 4
  
- <2> Rocket, 2.75", Hydra, packed in M643 Container, on Metal Pallet:
  - Combination of Adopted Items: ACV0833 - Revision A
  - End Opening ISO Container: 19-48-4245/62-15PM1009
  - MILVAN: 19-48-4244/62-15PM1008
  - Side Opening ISO Container: 19-48-4272/62-15PM1016
  - ^Unit: 19-48-4231/62-20PM1006 – Revision 1
  
- <3> Rocket, 2.75", Hydra, packed in M648 Container, on Metal Pallet:
  - End Opening ISO Container: 19-48-4245/60A-15PM1009
  - Side Opening ISO Container: 19-48-4272/60A-15PM1016
  - ^Unit: 19-48-4231/60A-20PM1006
  
- <4> Rocket, 2.75", Hydra, packed in PA150 Container, on Standard Metal Pallet:
  - Combination of Adopted Items: ACV0156 - Revision C
  - End Opening ISO Container: 19-48-4245/60-15PM1009 - Revision 1
  - MILVAN: 19-48-4244/60-15PM1008
  - Side Opening ISO Container: 19-48-4272/60-15PM1016
  - Storage: 19-48-4250/60-1-2-3-4-14-22PM1004
  - ^Unit: 19-48-4231/60-20PM1006 - Revision 4
  - Van Trailer: 19-48-4243/60-11PM1004
  
- <5> Rocket, 2.75", Hydra, packed in PA151 Container, on Standard Metal Pallet:
  - Boxcar: 19-48-4242/61-5PM1004
  - Combination of Adopted Items: ACV0155 - Revision C
  - End Opening ISO Container: 19-48-4245/61-15PM1009 - Revision 1
  - MILVAN: 19-48-4244/61-15PM1008
  - Side Opening ISO Container: 19-48-4272/61-15PM1016
  - Storage: 19-48-4250/61-1-2-3-4-14-22PM1004
  - ^Unit: 19-48-4231/61-20PM1006 - Revision 4
  - Van Trailer: 19-48-4243/61-11PM1004

(Rockets continued)

## Rockets (Cont.)

- <1> Rocket, 2.75", Hydra, Practice, packed in PA150 Container, on Wooden Pallet w/Top Lift:
  - End Opening ISO Container: 19-48-4333/60-15PM1024
  - MILVAN: 19-48-4332/60-15PM1023
  - Side Opening ISO Container: 19-48-4334/60-15PM1025
  - Storage: 19-48-4335/60-1-3-4-14-22PM1007
  - ^Unit: 19-48-4326/60-20PM1012
  - Van Trailer: 19-48-4331/60-11PM1007
  
- <2> Rocket, 2.75", Hydra, Practice, packed in PA151 Container, on Wooden Pallet w/Top Lift:
  - End Opening ISO Container: 19-48-4333/61-15PM1024
  - MILVAN: 19-48-4332/61-15PM1023
  - Side Opening ISO Container: 19-48-4334/61-15PM1025
  - Storage: 19-48-4335/61-1-3-4-14-22PM1007
  - ^Unit: 19-48-4326/61-20PM1012
  - Van Trailer: 19-48-4331/61-11PM1007
  
- <3> Rocket, 2.75", packed 25 per Cleated Plywood Box:
  - Storage: 19-48-4024-1-14A1
  - TOFC, Van Trailer, BHD: 19-48-4098-15A1003
  - Van Trailer: 19-48-4025-11A4
  
- <4> Rocket, 2.75", packed 3 or 4 per 72-13/16" long Boxes, Palletized:
  - Storage: 19-48-4307-1-3-4-14-22PA1010
  - ^Unit: 19-48-4116/80D-20PA1002 - Revision 4
  
- <5> Rocket, 2.75", Rocket Motors and Rocket Warheads:
  - MILVAN: 19-48-4181-15PA1005
  
- <6> Rocket, 2.75", Warhead, Flare, and Rocket Motor:
  - ^Unit: 19-48-4116/80P-20PA1002 - Revision 3
  
- <7> Rocket, 2.75", WP:
  - ^Unit: 19-48-4015/10-20PA1004 - Revision 1
  - ^Unit: 19-48-4015/10A-20PA1004
  - ^Unit: 19-48-4015/10C-20PA1004
  
- <8> Rocket, 3.5":
  - ^Unit: 19-48-4138/78-20PA1000
  
- <9> Rocket, 3.5", WP:
  - ^Unit: 19-48-4015/11-20PA1004
  
- <10> Rocket, 35MM, Practice:
  - ^Unit: 19-48-4116/81-20PA1002 - Revision 1

(Rockets continued)

# Rockets (Cont.)

<1> Rocket, 66MM, M74, Incendiary, 4-Round Clip:

^Unit: 19-48-4138/70-20PA1000 - Revision 2

<2> Rocket, HE, 66MM:

End Opening ISO Container: D-SARAC 4416

End Opening ISO Container: D-SARAC 4452

^Unit: 19-48-4138/70A-20PA1000 - Revision 1

<3> Target Kit, Rocket:

^Unit: 19-48-4116/83-20PA1002

<4> Warhead, 2.75" Rocket:

^Unit: 19-48-4116/80B-20PA1002 - Revision 3

^Unit: 19-48-4116/80E-20PA1002

^Unit: 19-48-4116/80H-20PA1002

^Unit: 19-48-4116/80J-20PA1002

^Unit: 19-48-4116/80K-20PA1002

^Unit: 19-48-4116/80L-20PA1002 - Revision 1

^Unit: 19-48-4116/80Q-20PA1002 - Revision 2

<5> Warhead, 2.75" Rocket, WP:

^Unit: 19-48-4015/10B-20PA1004 - Revision 1

<6> Warhead, 5", MK25 and Mods:

Storage: 19-48-4147/2-1-3-4-14-22PE1002

<7> Warhead, 5", MK29 and Mods:

Storage: 19-48-4147/3-1-3-4-14-22PE1002

<8> Warhead, 5", MK6 and Mods:

Storage: 19-48-4147/1-1-3-4-14-22PE1002

<9> Warhead, M6:

Boxcar: 19-48-7002-SP5C1

Igloo/Arch Type Magazine: 19-48-7004-SP1C1

Storage: 19-48-7001-SP14C1

Van Trailer: 19-48-7003-SP11C1



# Land Mines

**1345**

- <1> Activator, Antitank Mine:  
^Unit: 19-48-4116/97-20PA1002
- <2> Arming Plug, Antitank Mine:  
^Unit: 19-48-4116/94-20PA1002
- <3> Booster, Antitank Mine, M120:  
^Unit: 19-48-4116/98-20PA1002
- <4> Burster, Incendiary, M4:  
^Unit: 19-48-4116/93-20PA1002
- <5> Canister, Antipersonnel Mine, M2:  
Boxcar: 19-48-4052-5A1001  
Storage: 19-48-4059-1-14A1000  
Van Trailer: 19-48-4065-11A1002
- <6> Charge, Spotting:  
^Unit: 19-48-4116/96C-20PA1002
- <7> Dispenser, Mine, M131, and Practice, M130 (MOPMS):  
Boxcar: 19-48-4281-5PK1000 - Revision 1  
End Opening ISO Container: 19-48-4283-15PK1001 - Revision 1  
MILVAN: 19-48-4285-15PK1003 - Revision 1  
Side Opening ISO Container: 19-48-4284-15PK1002 - Revision 1  
Storage: 19-48-4305-1-3-4-14-22PK1000  
Van Trailer: 19-48-4282-11PK1000  
Unit: 9349988 – Revision G  
Wooden Pallet for Unit: 9349989 – Revision A
- <8> Dispenser, Mine, M138:  
^Unit: 19-48-4138/88-20PA1000 - Revision 1
- <9> Fuze, Mine:  
^Unit: 19-48-4116/96-20PA1002 - Revision 1  
^Unit: 19-48-4116/96A-20PA1002  
^Unit: 19-48-4116/96B-20PA1002  
^Unit: 19-48-4116/96D-20PA1002 - Revision 1  
^Unit: 19-48-4116/96E-20PA1002  
^Unit: 19-48-4116/96F-20PA1002

(Land Mines continued)

# Land Mines (Cont.)

- <1> Mine Dispersing Reload Kit, M56, packed in M602 Container:  
Boxcar: 19-48-4110-5J1001  
Storage: 19-48-4112-1-14J1002  
Van Trailer: 19-48-4111-11J1001
  
- <2> Mine Dispersing System, Aircraft, M47:  
Boxcar: 19-48-4051-5M1004  
Storage: 19-48-4061-1-14M1000  
Van Trailer: 19-48-4066-11M1002
  
- <3> Mine Neutralization Destructors, MK64 EX64, MK65 EX65 and MK66, packed  
in MK812 Mod 0 Containers on Metal Pallets:  
End Opening ISO Container: 19-48-4365-15PM1029  
Unit: 7516925 – Revision C
  
- <4> Mine, Antipersonnel:  
^Unit: 19-48-4116/95C-20PA1002  
^Unit: 19-48-4116/95L-20PA1002  
^Unit: 19-48-4116/95S-20PA1002  
^Unit: 19-48-4138/87-20PA1000
  
- <5> Mine, Antipersonnel, M16:  
End Opening ISO Container: D-SARAC 4438  
^Unit: 19-48-4116/95H-20PA1002
  
- <6> Mine, Antipersonnel or Munition, Modular Crowd Control:  
^Unit: 19-48-4116/95A-20PA1002 - Revision 5
  
- <7> Mine, Antitank:  
^Unit: 19-48-4116/95-20PA1002  
^Unit: 19-48-4116/95D-20PA1002  
^Unit: 19-48-4116/95E-20PA1002  
^Unit: 19-48-4116/95F-20PA1002 - Revision 1  
^Unit: 19-48-4116/95G-20PA1002  
^Unit: 19-48-4116/95P-20PA1002  
^Unit: 19-48-4138/86-20PA1000  
^Unit: 19-48-4138/86B-20PA1000
  
- <8> Mine, Antitank, HE, M19:  
End Opening ISO Container: D-SARAC 4453  
^Unit: 19-48-4138/86A-20PA1000 - Revision 1
  
- <9> Mine, Antitank, Heavy, M15:  
End Opening ISO Container: D-SARAC 4431  
^Unit: 19-48-4116/95B-20PA1002 - Revision 1

(Land Mines continued)

# Land Mines (Cont.)

- <1> Mine, APERS, M26 (T53):
  - Type 1 Portable Container: 19-48-7027-SP16A7
  - Type 2 Portable Container: 19-48-7028-SP16A8
  
- <2> Mine, Canister, M87 or M88, Volcano, in PA113 Container, Wood Pallet:
  - Boxcar: 19-48-4212/13-5PM1003
  - End Opening ISO Container: 19-48-4215/13-15PM1013 - Revision 1
  - MILVAN: 19-48-4214/13-15PM1006
  - Side Opening ISO: 19-48-4265/13-15PM1014
  - Storage: 19-48-4145/16-1-2-3-4-14-22PM1003 - Revision 1
  - ^Unit: 19-48-4079/12-20PM1002
  - Van Trailer: 19-48-4213/12-11PM1003
  
- <3> Mine, Canister, M87 Volcano, in PA113 Container, Standard Metal Pallet:
  - Boxcar: 19-48-4242/81-5PM1004
  - Combination of Adopted Items: AC200000414 - Revision A
  - End Opening ISO Container: 19-48-4245/81-15PM1009
  - MILVAN: 19-48-4244/81-15PM1008
  - Side Opening ISO Container: 19-48-4272/81-15PM1016
  - Storage: 19-48-4145/16A-1-2-3-4-14-22PM1003 - Revision 2
  - ^Unit: 19-48-4231/81-20PM1006 - Revision 2
  - Van Trailer: 19-48-4243/81-11PM1004
  
- <4> Mines, M74, M75 and M79, Ground Emplaced Mine Scattering System (GEMSS):
  - ^Unit: 19-48-4116/95M-20PA1002 - Revision 2
  - ^Unit: 19-48-4138/89-20PA1000
  
- <5> Pursuit Deterrent Munitions, M86:
  - ^Unit: 19-48-4116/95N-20PA1002 - Revision 2
  
- <6> Retrograde Ammunition loaded in Pallet Boxes - M18 Claymore Mines:
  - Unit: 19-48-4233/5-20PE1000 - Revision 2
  
- <7> Strategic Configured Load #6 - Volcano Mine Canister HE M87:
  - CROP: 19-48-4905/6-CA17Q6
  
- <8> Spider System Components, MGL, XM8, ERTS, XM9, MAM, or MGTS:
  - ^Unitization: 19-48-4116/92-20PA1002
  
- <9> Spider System Components, Munition and Dispensing Module, Scorpion, XM500:
  - ^Unitization: 19-48-4138/118-20PA1000

(Land Mines continued)

## Land Mines (Cont.)

- <1> Spider System Components, Munition Control Unit (MCA), XM10, or Trainer Control Unit (MCAT), XM96:  
^Unitization: 19-48-4116/92B-20PA1002
- <2> Spider System Components, Munition Kit, Control Unit, XM332, or Trainer, Control Unit Munition (MCUT) Kit:  
^Unitization: 19-48-4116/92C-20PA1002
- <3> Spider System Components, Remote Control Data Station Kit, Electronic Equipment Accessory Kit, or Radio Repeater:  
^Unitization: 19-48-4116/92A-20PA1002 - Revision 1
- <4> Volcano Mine System - Beam Assembly:  
Unit: 19-48-4240/4-20PM1009 - Revision 2
- <5> Volcano Mine System - Launcher/Beam Assemblies:  
Unit: 19-48-4240/1-20PM1009 - Revision 3
- <6> Volcano Mine System - M548A1 Mounting Kit, Crossmember and Beams:  
Unit: 19-48-4240/5-20PM1009
- <7> Volcano Mine System - M548A1 Mounting Kit, Support Panels & Accessories Kit:  
Unit: 19-48-4240/6-20PM1009
- <8> Volcano Mine System - Side Panels:  
Unit: 19-48-4240/2-20PM1009 - Revision 2
- <9> Volcano Mine System - Support Panel and Ground System Assemblies:  
Unit: 19-48-4240/3-20PM1009 - Revision 2

# Military Chemical Agents

## 1365

<1> Disperser and Riot Control Agent, CR, M36:

^Unit: 19-48-4116/102-20PA1002 - Revision 1

^Unit: 19-48-4116/102B-20PA1002

<2> Fuze, Smoke Pot, M208:

^Unit: 19-48-4116/100-20PA1002

<3> Fuze, Smoke Pot, M209:

^Unit: 19-48-4116/100A-20PA1002 - Revision 1

<4> Riot Control Agent, ABC:

^Unit: 19-48-4116/102A-20PA1002 - Revision 2

<5> Riot Control Agent, CS, Capsule:

^Unit: 19-48-4116/102C-20PA1002 - Revision 1

<6> Smoke Pot, ABC, M5:

^Unit: 19-48-4116/99-20PA1002 - Revision 2

<7> Smoke Pot, Floating:

^Unit: 19-48-4116/99A-20PA1002 - Revision 1

^Unit: 19-48-4116/99B-20PA1002 - Revision 1

^Unit: 19-48-4116/99C-20PA1002 - Revision 1

^Unit: 19-48-4116/117-20PA1002 - Revision 1

<8> Smoke Pot, M1:

^Unit: 19-48-4116/99D-20PA1002 - Revision 1

<9> Thickener, Compound Fuel:

^Unit: 19-48-4116/101-20PA1002

# Pyrotechnics

## 1370

- <1> Adapter Kit, Flare Dispenser:  
^Unit: 19-48-4169/115-20PA1006 - Revision 1
- <2> Cartridge, Chaff:  
^Unit: 19-48-4169/111-20PA1006
- <3> Cartridge, Flare:  
^Unit: 19-48-4116/110G-20PA1002 - Revision 2
- <4> Cartridge, Impulse, XM796:  
^Unit: 19-48-4116/115E-20PA1002 - Revision 1
- <5> Cartridge, Photoflash:  
^Unit: 19-48-4116/106-20PA1002 - Revision 1  
^Unit: 19-48-4116/106A-20PA1002 - Revision 1  
^Unit: 19-48-4116/106B-20PA1002 - Revision 1  
^Unit: 19-48-4116/106C-20PA1002 - Revision 2
- <6> Chaff, Countermeasure, XM1:  
^Unit: 19-48-4116/115D-20PA1002
- <7> Detonation Simulator, M80:  
^Unit: 19-48-4116/103-20PA1002 - Revision 1
- <8> Dispenser, Aircraft, XM130:  
End Opening ISO Container: D-SARAC 4445  
^Unit: 19-48-4138/109-20PA1000
- <9> Flare, Aircraft, Parachute:  
^Unit: 19-48-4116/110L-20PA1002  
^Unit: 19-48-4138/101-20PA1000
- <10> Flare, Aircraft, Parachute, MK45 Mod 0:  
End Opening ISO Container: 19-48-4197-15PK1000
- <11> Flare, Aircraft or Target:  
^Unit: 19-48-4116/110J-20PA1002 - Revision 2

(Pyrotechnics continued)

# Pyrotechnics (Cont.)

- <1> Flare, Countermeasure:
  - ^Unit: 19-48-4116/110F-20PA1002 - Revision 5
  - ^Unit: 19-48-4116/110K-20PA1002
  - ^Unit: 19-48-4116/115B-20PA1002 - Revision 5
  
- <2> Flare, Decoy:
  - ^Unit: 19-48-4116/110D-20PA1002
  
- <3> Flare, Infrared:
  - ^Unit: 19-48-4116/110C-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/110E-20PA1002
  - ^Unit: 19-48-4116/110H-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/110M-20PA1002
  
- <4> Flare, Signal, in Sure-Pak Containers for Intra-Theater Ground Movement Only:
  - Unit: 19-48-4362/6-20PM1015
  
- <5> Flare, Surface, Airport, M76:
  - ^Unit: 19-48-4116/110A-20PA1002 - Revision 1
  
- <6> Flare, Surface-Trip, M49 Series:
  - ^Unit: 19-48-4116/110-20PA1002 - Revision 3
  
- <7> Fuse, Warning:
  - ^Unit: 19-48-4116/111-20PA1002 - Revision 1
  
- <8> Launcher, Projectile, Airburst Liquid, M267:
  - ^Unit: 19-48-4116/116A-20PA1002 - Revision 1
  
- <9> Marker, Location, Marine:
  - ^Unit: 19-48-4116/107L-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/107P-20PA1002
  - ^Unit: 19-48-4116/107Q-20PA1002
  
- <10> Retrograde Ammunition loaded in Pallet Boxes - Simulators and Signals:
  - Unit: 19-48-4233/9-20PE1000 - Revision 2
  
- <11> Signal Kit:
  - ^Unit: 19-48-4116/105-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/105A-20PA1002 - Revision 5
  - ^Unit: 19-48-4116/105B-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/105C-20PA1002
  - ^Unit: 19-48-4116/105D-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/105E-20PA1002

(Pyrotechnics continued)

# Pyrotechnics (Cont.)

- <1> Signal, Illumination, Aircraft:  
^Unit: 19-48-4116/107A-20PA1002
  
- <2> Signal, Illumination, Ground:  
^Unit: 19-48-4116/107B-20PA1002 - Revision 1  
^Unit: 19-48-4116/107C-20PA1002  
^Unit: 19-48-4116/107E-20PA1002  
^Unit: 19-48-4116/107R-20PA1002
  
- <3> Signal, Smoke or Illuminating, Aircraft:  
^Unit: 19-48-4116/107J-20PA1002  
^Unit: 19-48-4116/107W-20PA1002 - Revision 1
  
- <4> Signal, Smoke or Illuminating, Ground:  
^Unit: 19-48-4116/107-20PA1002 - Revision 3  
^Unit: 19-48-4116/108C-20PA1002 - Revision 2
  
- <5> Signal, Smoke or Illuminating, Marine:  
^Unit: 19-48-4116/107D-20PA1002  
^Unit: 19-48-4116/107G-20PA1002 - Revision 1  
^Unit: 19-48-4116/107H-20PA1002 - Revision 2  
^Unit: 19-48-4116/107N-20PA1002 - Revision 1  
^Unit: 19-48-4116/107S-20PA1002 - Revision 1  
^Unit: 19-48-4116/107T-20PA1002  
^Unit: 19-48-4116/107U-20PA1002  
^Unit: 19-48-4116/107V-20PA1002
  
- <6> Signal, Smoke, Ground:  
^Unit: 19-48-4116/108-20PA1002  
^Unit: 19-48-4116/108A-20PA1002
  
- <7> Signal, Smoke, Marine:  
^Unit: 19-48-4116/107M-20PA1002
  
- <8> Simulator, Artillery Flash:  
^Unit: 19-48-4116/112-20PA1002 - Revision 1  
^Unit: 19-48-4116/112A-20PA1002 - Revision 4
  
- <9> Simulator, Atomic Explosion, M142:  
Storage: 19-48-4064-1-14F1000  
Van Trailer: 19-48-4087-11F1000
  
- <10> Simulator, Atomic Explosion, M142 Unitized:  
Boxcar: 19-48-4149-5PF1001  
^Unit: 19-48-4138/105-20PA1000  
Van Trailer: 19-48-4150-11PF1001

(Pyrotechnics continued)



# Pyrotechnics (Cont.)

- <1> Simulator, Booby Trap:
  - ^Unit: 19-48-4116/113-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/113B-20PA1002 - Revision 3
  - ^Unit: 19-48-4116/113C-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/113D-20PA1002 - Revision 2
  
- <2> Simulator, Hand Grenade, M116A1:
  - ^Unit: 19-48-4116/114-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/114B-20PA1002
  
- <3> Simulator, Projectile Airburst:
  - ^Unit: 19-48-4116/109-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/109A-20PA1002
  - ^Unit: 19-48-4138/90-20PA1000
  
- <4> Simulator, Projectile Airburst Liquid:
  - ^Unit: 19-48-4116/116-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/109E-20PA1002
  
- <5> Simulator, Projectile Ground Burst, M115:
  - ^Unit: 19-48-4116/109D-20PA1002
  
- <6> Simulator, Projectile Ground Burst, M115A2:
  - ^Unit: 19-48-4116/109B-20PA1002 - Revision 1
  
- <7> Simulator, Pyrotechnic, Main Tank Gun, M30, or Simulator, Pyrotechnic, Direct/Indirect Fire Cue (DIFCUE) with Stars, M31A1:
  - ^Unit: 19-48-4116/109C-20PA1002
  
- <8> Simulator, Signal, Antitank Weapons Effect (ATWESS):
  - ^Unit: 19-48-4116/107F-20PA1002 - Revision 1
  
- <9> Simulator, Target Kill:
  - ^Unit: 19-48-4116/114A-20PA1002
  
- <10> Starter, Fire:
  - ^Unit: 19-48-4116/104-20PA1002 - Revision 3
  - ^Unit: 19-48-4116/104A-20PA1002
  
- <11> Target, False, MK2-1:
  - ^Unit: 19-48-4116/163-20PA1002

# Demolition Materials

## 1375

- <1> Abrams Reactive Armor Tile, M19:  
Unit (30 pack): 19-48-4221/16-20PA1009  
Unit (31 pack): 19-48-4221/27-20PA1009
  
- <2> Abrams Reactive Armor Tile, M19, Spare Parts:  
Unit: 19-48-4221/17-20PA1009
  
- <3> Abrams Reactive Armor Tile II, XM32:  
Unit: 19-48-4221/25-20PA1009
  
- <4> Abrams Reactive Armor Tile II, XM32, Spare Parts:  
Unit: 19-48-4221/26-20PA1009
  
- <5> Anti-Personnel Obstacle Breaching System (APOBS):  
Storage: 19-48-4074/129A-1-3-14-22PM1000  
^Unit: 19-48-4116/129A-20PA1002
  
- <6> Armored Multi-Purpose Vehicle Armor Tile, High Back Set:  
Unit: 19-48-4221/32-20PA1009
  
- <7> Armored Multi-Purpose Vehicle Armor Tile, Low Back Set:  
Unit: 19-48-4221/31-20PA1009
  
- <8> Armored Multi-Purpose Vehicle Armor Tile, M19 (32 pack):  
Unit: 19-48-4221/30-20PA1009
  
- <9> Bradley Armor Tile Combination Pallet:  
Unit: 19-48-4221/8-20PA1009  
Unit: 19-48-4221/9-20PA1009 - Revision 3
  
- <10> Bradley Armor Tile, M3:  
Unit: 19-48-4221/2-20PA1009 - Revision 1
  
- <11> Bradley Armor Tile, M3A2:  
Unit: 19-48-4221/23-20PA1009
  
- <12> Bradley Armor Tile, M4:  
Unit: 19-48-4221/3-20PA1009 - Revision 2
  
- <13> Bradley Armor Tile, M4A2:  
Unit: 19-48-4221/10-20PA1009 – Revision 1  
Unit: 19-48-4221/24-20PA1009

(Demolition Materials continued)

# Demolition Materials (Cont.)

- <1> Bradley Armor Tile, M5:  
Unit: 19-48-4221/4-20PA1009 - Revision 4
- <2> Bradley Armor Tile, M6:  
Unit: 19-48-4221/5-20PA1009 - Revision 3
- <3> Bradley Armor Tile, M7:  
Unit: 19-48-4221/6-20PA1009 - Revision 3
- <4> Bradley Reactive Armor Tiles II, XM33, Spare Parts:  
Unit: 19-48-4221/29-20PA1009
- <5> Bradley Reactive Armor Tile Side Skirt, XM33:  
Unit: 19-48-4221/28-20PA1009 - Revision 2
- <6> Canine Explosive Scent Kit:  
^Unit: 19-48-4116/138-20PA1002
- <7> Cap, Blasting, Electric:  
^Unit: 19-48-4116/121B-20PA1002  
^Unit: 19-48-4116/121C-20PA1002  
^Unit: 19-48-4116/121F-20PA1002  
^Unit: 19-48-4116/121G-20PA1002  
^Unit: 19-48-4116/121H-20PA1002 - Revision 1  
^Unit: 19-48-4116/121K-20PA1002  
^Unit: 19-48-4116/121L-20PA1002  
^Unit: 19-48-4116/121P-20PA1002 - Revision 2
- <8> Cap, Blasting, Electric and Nonelectric:  
^Unit: 19-48-4116/121J-20PA1002  
^Unit: 19-48-4116/121M-20PA1002  
^Unit: 19-48-4116/121Q-20PA1002 - Revision 5
- <9> Cap, Blasting, Nonelectric:  
^Unit: 19-48-4116/121-20PA1002  
^Unit: 19-48-4116/121A-20PA1002 - Revision 2  
^Unit: 19-48-4116/121D-20PA1002 - Revision 2  
^Unit: 19-48-4116/121N-20PA1002  
^Unit: 19-48-4116/121R-20PA1002  
^Unit: 19-48-4116/121S-20PA1002  
^Unit: 19-48-4116/121T-20PA1002  
^Unit: 19-48-4116/121U-20PA1002  
^Unit: 19-48-4116/121V-20PA1002  
^Unit: 19-48-4116/121W-20PA1002 - Revision 1  
^Unit: 19-48-4116/121X-20PA1002

(Demolition Materials continued)

# Demolition Materials (Cont.)

- <1> Cap, Blasting, Practice:  
^Unit: 19-48-4169/121-20PA1006
  
- <2> Charge Assembly, Demolition:  
^Unit: 19-48-4116/120G-20PA1002 - Revision 3  
^Unit: 19-48-4116/120T-20PA1002  
^Unit: 19-48-4138/115B-20PA1000
  
- <3> Charge Kit, Demolition MK75 Mod 0:  
^Unit: 19-48-4116/120DD-20PA1002
  
- <4> Charge, Demolition, Block:  
End Opening ISO Container: D-SARAC 4434  
^Unit: 19-48-4116/120-20PA1002 - Revision 2  
^Unit: 19-48-4116/120A-20PA1002 - Revision 3  
^Unit: 19-48-4116/120B-20PA1002  
^Unit: 19-48-4116/120E-20PA1002  
^Unit: 19-48-4116/120F-20PA1002 - Revision 1  
^Unit: 19-48-4116/120L-20PA1002  
^Unit: 19-48-4116/120N-20PA1002  
^Unit: 19-48-4116/120Q-20PA1002 - Revision 1
  
- <5> Charge, Demolition, Block, Cratering, 40 Lb, packed in M18 Container:  
Boxcar: 19-48-4212/12-5PM1003  
End Opening ISO Container: 19-48-4215/12-15PM1013 - Revision 1  
MILVAN: 19-48-4214/12-15PM1006  
Side Opening ISO Container: 19-48-4265/12-15PM1014  
Storage: 19-48-4145/15-1-2-3-4-14-22PM1003 - Revision 1  
^Unit: 19-48-4079/11-20PM1002 - Revision 3  
Van Trailer: 19-48-4213/13-11PM1003
  
- <6> Charge, Demolition, Chain or Block:  
End Opening ISO Container: D-SARAC 4435  
^Unit: 19-48-4116/120J-20PA1002
  
- <7> Charge, Demolition, Linear:  
^Unit: 19-48-4116/119-20PA1002 - Revision 6  
^Unit: 19-48-4116/120W-20PA1002
  
- <8> Charge, Demolition, Linear, HE, M58A1/A2, and Practice, M68A1 (Boattail):  
Boxcar: 19-48-4297-5J1008  
End Opening ISO Container: 19-48-4298-15J1003  
Flatbed: 19-48-4225-11J1007 - Revision 1  
Flatrack ISO Container: 19-48-4294-15J1002  
MILVAN: 19-48-4299-15J1004  
Side Opening ISO Container: 19-48-4300-15J1005  
Storage: 19-48-4208-1-3-4-14-22J1008 - Revision 1  
Van Trailer: 19-48-4223-11J1006

(Demolition Materials continued)

# **Demolition Materials (Cont.)**

- <1> Charge, Demolition, Linear, HE, M58A3, and Practice, M68A2:
  - Boxcar: 19-48-4207-5J1007 - Revision 1
  - End Opening ISO Container: 19-48-4269-15J1000
  - Flatbed: 19-48-4303-11J1008
  - Flatrack ISO Container: 19-48-4301-15J1006
  - MILVAN: 19-48-4302-15J1007
  - Side Opening ISO Cntr.: 19-48-4293-15J1001
  - Storage: 19-48-4210-1-3-4-14-22J1010 - Revision 1
  - Van Trailer: 19-48-4205-11J1005 - Revision 1
  
- <2> Charge, Demolition, Linear, HE, M59, and Practice, M69:
  - Boxcar: 19-48-4206-5J1006
  - End Opening ISO Container: 19-48-4328-15J1009 – Revision 1
  - MILVAN: 19-48-4327-15J1008
  - Storage: 19-48-4209-1-3-4-14-22J1009 - Revision 1
  - Van Trailer: 19-48-4204-11J1004 - Revision 1
  
- <3> Charge, Demolition, Linear, Shaped, Flexible:
  - Storage: 19-48-4308-1-3-4-14-22PA1011
  - ^Unit: 19-48-4116/119A-20PA1002
  
- <4> Charge, Demolition, Practice:
  - ^Unit: 19-48-4116/120P-20PA1002
  - ^Unit: 19-48-4116/120R-20PA1002
  
- <5> Charge, Demolition, Roll:
  - ^Unit: 19-48-4116/120K-20PA1002 - Revision 1
  
- <6> Charge, Demolition, Shaped:
  - ^Unit: 19-48-4116/120D-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/120H-20PA1002 - Revision 3
  - ^Unit: 19-48-4116/120M-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/120X-20PA1002 - Revision 6
  - ^Unit: 19-48-4116/120EE-20PA1002
  - ^Unit: 19-48-4116/120FF-20PA1002
  - ^Unit: 19-48-4116/135-20PA1002
  - ^Unit: 19-48-4138/115-20PA1000
  
- <7> Charge, Demolition, Sheet:
  - ^Unit: 19-48-4116/120V-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/120BB-20PA1002 - Revision 1
  
- <8> Charge, Diversionary, MK141 Mod 0:
  - ^Unit: 19-48-4116/120CC-20PA1002

(Demolition Materials continued)

# Demolition Materials (Cont.)

- <1> Cord, Detonating:
  - ^Unit: 19-48-4116/127-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/127A-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/127B-20PA1002 - Revision 4
  - ^Unit: 19-48-4116/127C-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/127D-20PA1002
  - ^Unit: 19-48-4116/127E-20PA1002
  - ^Unit: 19-48-4116/127G-20PA1002
  - ^Unit: 19-48-4116/127H-20PA1002
  - ^Unit: 19-48-4116/127J-20PA1002 - Revision 4
  - ^Unit: 19-48-4116/127K-20PA1002
  - ^Unit: 19-48-4116/127L-20PA1002 - Revision 2
  
- <2> Cord, Detonating or Dummy Cord, Detonating:
  - ^Unit: 19-48-4116/127M-20PA1002
  
- <3> Cutter, Cable:
  - ^Unit: 19-48-4116/147-20PA1002 - Revision 1
  
- <4> Cutter, Powder Actuated M23:
  - ^Unit: 19-48-4116/129-20PA1002
  
- <5> Delay Element, Detonating:
  - ^Unit: 19-48-4116/137-20PA1002 - Revision 1
  
- <6> Demolition Blasting Kit, Fighting Position Excavator (FPE), M300 & M301, in PA103 Container:
  - Boxcar: 19-48-4212/15-5PM1003
  - End Opening ISO Container: 19-48-4215/15-15PM1013
  - MILVAN: 19-48-4214/15-15PM1006
  - Side Opening ISO Container: 19-48-4265/15-15PM1014
  - Storage: 19-48-4145/14-1-3-4-14-22PM1003
  - ^Unit: 19-48-4079/14-20PM1002
  
- <7> Demolition Kit, Bangalore Torpedo:
  - ^Unit: 19-48-4116/125B-20PA1002 - Revision 1
  - ^Unit: 19-48-4138/117-20PA1000
  
- <8> Demolition Kit, Cratering, M180 and M270 (Training):
  - ^Unit: 19-48-4116/136-20PA1002
  
- <9> Demolition Kit, MK45:
  - ^Unit: 19-48-4116/125A-20PA1002
  
- <10> Demolition Kit, Projected Charge, M1:
  - ^Unit: 19-48-4116/125-20PA1002 - Revision 1

(Demolition Materials continued)

## **Demolition Materials (Cont.)**

- <1> Demolition Kit, Projected Charge, M157:  
Boxcar: 19-48-4045-5M1003  
Igloo/Arch Type Magazine: 19-48-4044-1M1001  
Van Trailer: 19-48-4046-11M1001
  
- <2> Demolition Kit, Projected Charge, M173 and M174:  
Storage: 19-48-4072-1-14C1001  
Van Trailer: 19-48-4063-11PH1000
  
- <3> Demolition Kit, Rapid Wall Breaching, Tactical, M322, Blasting, Practice, M323,  
or Training, M324:  
^Unit: 19-48-4138/117A-20PA1000 - Revision 1
  
- <4> Destroyer, Cryptographic Equipment, Incendiary, M1:  
End Opening ISO Container: D-SARAC 4455  
^Unit: 19-48-4138/122-20PA1000
  
- <5> Destroyer, Cryptographic Equipment, M1A2:  
^Unit: 19-48-4116/123A-20PA1002
  
- <6> Destroyer, Document, M4:  
^Unit: 19-48-4138/123-20PA1000 - Revision 1
  
- <7> Destructor, Explosive-Universal, M10:  
^Unit: 19-48-4116/122-20PA1002 - Revision 1
  
- <8> Detonator Kit, Concussion, M1:  
^Unit: 19-48-4116/124-20PA1002
  
- <9> Detonator, Percussion:  
^Unit: 19-48-4116/126-20PA1002 - Revision 2
  
- <10> Device, Safety and Arming:  
^Unit: 19-48-4116/128G-20PA1002
  
- <11> Dummy Booster, Demolition Charge Non-electric 30 ft Inert Detonating Cord  
M652:  
^Unit: 19-48-4116/127N-20PA1002 – Revision 1
  
- <12> Dynamite, Military, M1:  
^Unit: 19-48-4116/133-20PA1002

(Demolition Materials continued)

## Demolition Materials (Cont.)

- <1> Firing Device, Demolition, M1:
  - ^Unit: 19-48-4116/128-20PA1002
  - ^Unit: 19-48-4116/128B-20PA1002
  - ^Unit: 19-48-4116/128C-20PA1002
  - ^Unit: 19-48-4116/128D-20PA1002
  - ^Unit: 19-48-4116/128E-20PA1002
  
- <2> Firing Device, Demolition, M122:
  - ^Unit: 19-48-4116/128H-20PA1002
  
- <3> Firing Device, Demolition, M142:
  - ^Unit: 19-48-4116/128F-20PA1002 – Revision 1
  
- <4> Firing Device, Demolition, M3:
  - ^Unit: 19-48-4116/128A-20PA1002
  
- <5> Fuse, Blasting, Time:
  - ^Unit: 19-48-4116/130-20PA1002
  - ^Unit: 19-48-4116/130A-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/130B-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/130C-20PA1002
  
- <6> Future Armor Tile Combination Pallet:
  - ^Unit: 19-48-4221/7-20PA1009
  
- <7> Fuze, Cryptographic Destroyer:
  - ^Unit: 19-48-4116/123C-20PA1002
  
- <8> Fuze, Demolition Kit:
  - ^Unit: 19-48-4169/130-20PA1006 - Revision 2
  
- <9> Igniter, Time Blasting Fuse:
  - ^Unit: 19-48-4116/131-20PA1002 - Revision 3
  - ^Unit: 19-48-4116/131A-20PA1002
  - ^Unit: 19-48-4116/131B-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/131C-20PA1002
  - ^Unit: 19-48-4116/131D-20PA1002 – Revision 1
  
- <10> Ignition Cylinder, Flame Thrower:
  - ^Unit: 19-48-4116/134-20PA1002
  
- <11> Kit, Accessory, MK29 Mod 0:
  - ^Unit: 19-48-4169/128-20PA1006

(Demolition Materials continued)



# **Demolition Materials (Cont.)**

- <1> M60A3 Tank Armor Tile Repair Kit, XM1 and XM2:  
Unit: 19-48-4221/1-20PA1009 - Revision 1
- <2> M60A3 Tank Armor Tile, M1 and M2:  
Unit: 19-48-4221-20PA1009 - Revision 4
- <3> Magneto-Inductive Remote Activation Munition System (MI-RAMS):  
^Unit: 19-48-4116/129C-20PA1002
- <4> Primer, Percussion, Cap:  
^Unit: 19-48-4116/132-20PA1002  
^Unit: 19-48-4116/132A-20PA1002  
^Unit: 19-48-4116/132B-20PA1002
- <5> Receiver, Magneto Inductive Firing Device, M40:  
^Unit: 19-48-4116/129D-20PA1002
- <6> Remote Activated Munitions System (RAMS):  
^Unit: 19-48-4116/129B-20PA1002 – Revision 1
- <7> Retrograde Ammunition loaded in Pallet Boxes - M3A1 Bradley Armor Tiles:  
Unit: 19-48-4233/13-20PE1000
- <8> Retrograde Ammunition loaded in Pallet Boxes - M3A2 Bradley Armor Tiles:  
Unit: 19-48-4233/13A-20PE1000
- <9> Retrograde Ammunition loaded in Pallet Boxes - M4A2 Bradley Armor Tiles:  
Unit: 19-48-4233/13B-20PE1000
- <10> Retrograde Ammunition loaded in Pallet Boxes - M5 Series Bradley Armor Tiles:  
Unit: 19-48-4233/13C-20PE1000
- <11> Retrograde Ammunition loaded in Pallet Boxes - M6A1 Bradley Armor Tiles:  
Unit: 19-48-4233/13D-20PE1000
- <12> Retrograde Ammunition loaded in Pallet Boxes - M7A1 Bradley Armor Tiles:  
Unit: 19-48-4233/13E-20PE1000
- <13> Selectable Lightweight Attack Munition (SLAM), M2, or Demolition Attack Munition (DAM), M3:  
^Unit: 19-48-4116/95Q-20PA1002 - Revision 2

(Demolition Materials continued)

## **Demolition Materials (Cont.)**

- <1> Selectable Lightweight Attack Munition (SLAM) M4A1 or Training Kit M320A1:  
^Unit: 19-48-4116/95T-20PA1002 - Revision 1
- <2> Strategic Configured Load #4 - MICLIC M58A4:  
CROP: 19-48-4905/4-CA17Q6
- <3> Strategic Configured Load #30 - Counter-Mobility/Demolition:  
CROP: 19-48-4905/30-CA17Q6
- <4> Stryker Armor Tile Set, M20, M21, M25 or M26, Spare Parts:  
Unit: 19-48-4221/19-20PA1009
- <5> Stryker Armor Tile Set, M22, M29, M30 or M31, Spare Parts:  
Unit: 19-48-4221/21-20PA1009
- <6> Stryker Armor Tile Set, M23, Spare Parts:  
Unit: 19-48-4221/18-20PA1009
- <7> Stryker Armor Tile Set, M24, Spare Parts:  
Unit: 19-48-4221/22-20PA1009
- <8> Stryker Armor Tile Set, M27 or M28, Spare Parts:  
Unit: 19-48-4221/20-20PA1009
- <9> Stryker Armor Tile, Front Active:  
Unit: 19-48-4221/14-20PA1009
- <10> Stryker Armor Tile, Front Passive:  
Unit: 19-48-4221/15-20PA1009
- <11> Stryker Armor Tile, Left Side Active:  
Unit: 19-48-4221/11-20PA1009
- <12> Stryker Armor Tile, Rear Active:  
Unit: 19-48-4221/13-20PA1009
- <13> Stryker Armor Tile, Right Side Active:  
Unit: 19-48-4221/12-20PA1009
- <14> Time Delay Sympathetic Detonator, M153:  
^Unit: 19-48-4116/128J-20PA1002

# Bulk Explosives

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- <1> "Tote Bin" Containers Loaded with Bulk Explosives:  
Boxcar: D-AMXAC 4342  
Storage: 19-48-4104-1-14M1003  
Van Trailer: D-AMXAC 4343
  
- <2> Blasting Agent, TNT:  
^Unit: 19-48-4116/140-20PA1002
  
- <3> Bulk Explosives packed in 14-1/2" Dia. x 28" H Drums (12/pallet):  
Unit: 19-48-4131-20PN1003
  
- <4> Bulk Explosives packed in 14-1/2" Dia. x 28" H Drums (6/pallet):  
Unit: 19-48-4132-20PN1004  
Unit: 19-48-4134-20PN1006
  
- <5> Bulk Explosives packed in 14-1/2" Dia. x 28" H Drums (9/skid):  
Unit: 19-48-4133-20PN1005
  
- <6> Bulk Explosives packed in 19-1/2" Dia. x 27" H Drums (4/pallet):  
Unit: 19-48-4129-20PN1001
  
- <7> Bulk Explosives packed in 19-1/2" Dia. x 27" H Drums (4/skid):  
Unit: 19-48-4130-20PN1002
  
- <8> Bulk Explosives packed in 19-1/2" Dia. x 27" H Drums (6/pallet):  
Unit: 19-48-4128-20PN1000
  
- <9> Bulk Explosives packed in Fiberboard Boxes, Loose:  
Boxcar: 19-48-4202-5A1005  
Portable Container: 19-48-4107-16A1000  
Short-Term Storage: 19-48-4073/1-1-3-4-14A1000  
Van Trailer: 19-48-4170-11A1005 - Revision 1
  
- <10> Bulk Explosives packed in Fiberboard Boxes, Unitized:  
Storage: 19-48-4097-1-3-4-14-22PA1009 - Revision 2  
Unit: AMXSV 4071 – Revision 1
  
- <11> Bulk Explosives/Propellant packed in Fiberboard Drums, Loose:  
Boxcar: 19-48-4175-5N1002

(Bulk Explosives continued)

# Bulk Explosives (Cont.)

- <1> Bulk Explosives/Propellant packed in Fiberboard Drums, Secured with Stretch Net:  
Special Pallet: ACV00200 - Revision A  
Storage: 19-48-4239-1-4PN1000  
Unit: 19-48-4177/3-20PA1007  
Unit: 19-48-4177/4-20PA1007 - Revision 1  
Van Trailer: 19-48-4309-11PN1000
  
- <2> Bulk Explosives/Propellant packed in Fiberboard or Metal Drums (12/pallet):  
Storage: 19-48-4228-1-3-4-14-22PN1001  
Unit: 19-48-4172-20PN1007 - Revision 1
  
- <3> Bulk Explosives/Propellant packed in Fiberboard or Metal Drums (8/pallet):  
Unit: 19-48-4172/1-20PN1007 - Revision 1
  
- <4> Bulk Explosives/Propellant packed in Fiberboard or Metal Drums, Loose:  
Short-Term Storage: 19-48-4238-1-3-4-14-22FN1000  
TOFC, Van Trailer, BHD: 19-48-4226-15FN1001  
Van Trailer: 19-48-4174-11FN1000 - Revision 2
  
- <5> Bulk Propellants, Not Unitized:  
Smokeless Powder Magazine: 19-48-4022-6-7A1000
  
- <6> Composition, Explosive:  
^Unit: 19-48-4116/139A-20PA1002 - Revision 1
  
- <7> Explosives, Bulk:  
^Unit: 19-48-4116/141-20PA1002  
^Unit: 19-48-4116/141A-20PA1002 - Revision 2
  
- <8> Nitroguanidine packed in DOT 21C Fiberboard Drums:  
Boxcar: 19-48-4167-5N1000  
Storage: 19-48-4229-11N1000
  
- <9> Powder, Smokeless:  
^Unit: 19-48-4138/125-20PA1000
  
- <10> Propellant Powder, Solid or Liquid packed in Metal Drums, Loose:  
Boxcar: 19-48-4173-5F1000
  
- <11> Propellant, Solid, packed in M2 MKVII and M24 Boxes, not Unitized:  
Van Trailer: 19-48-4021/1-11M1000
  
- <12> Propellant, Stick:  
^Unit: 19-48-4116/142-20PA1002

(Bulk Explosives continued)

# **Bulk Explosives (Cont.)**

- <1> Propellants Packed in Fiberboard Drums:  
TOFC, Van Trailer, BHD: 19-48-4085-15N1000 - Revision 1
  
- <2> Secondary Bulk Explosives packed in Fiberboard Boxes, Secured with Stretch Net:  
Boxcar: 19-48-4199-5PA1005  
End Opening ISO Container: 19-48-4351-15PA1014  
Special Pallet: ACV00183 - Revision D  
Storage - Long Term: 19-48-4211-1-3-4-14-22PA1012  
Unit: 19-48-4177/1-20PA1007 - Revision 6  
Van Trailer: 19-48-4200-11PA1005
  
- <3> TNT:  
^Unit: 19-48-4116/139-20PA1002 - Revision 1  
^Unit: 19-48-4116/139C-20PA1002

# Cartridge and Propellant Actuated Devices

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- <1> Cartridge, Delay:  
^Unit: 19-48-4116/145-20PA1002 - Revision 1
  
- <2> Cartridge, Impulse:  
^Unit: 19-48-4116/151A-20PA1002 - Revision 1  
^Unit: 19-48-4116/151B-20PA1002
  
- <3> Cartridge, Non-Lethal Firing Device, Taser XP25:  
^Unit: 19-48-4116/152-20PA1002
  
- <4> Cutter, Cartridge Actuated:  
^Unit: 19-48-4116/146-20PA1002  
^Unit: 19-48-4116/146A-20PA1002  
^Unit: 19-48-4116/146B-20PA1002  
^Unit: 19-48-4116/146C-20PA1002  
^Unit: 19-48-4116/146D-20PA1002
  
- <5> Fastener Unit, Powder Actuated Tool, W/Ctg., Caliber .38 & Disk:  
^Unit: 19-48-4116/149-20PA1002
  
- <6> Initiator, Cartridge Actuated:  
^Unit: 19-48-4169/136-20PA1006
  
- <7> Thruster, Cartridge Actuated:  
^Unit: 19-48-4116/150-20PA1002
  
- <8> Wide Area Munition (WAM), M93, and WAM Trainer, M98:  
Boxcar: 19-48-4242/100-5PM1004  
End Opening ISO Container: 19-48-4245/100-15PM1009  
MILVAN: 19-48-4244/100-15PM1008  
Side Opening ISO Container: 19-48-4272/100-15PM1016  
Storage: 19-48-4250/100-1-3-4-14-22PM1004  
^Unit: 19-48-4231/100-20PM1006 - Revision 1

# Fuzes and Primers

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- <1> Booster:  
^Unit: 19-48-4116/160-20PA1002 - Revision 1
- <2> Fuse, Blasting, Time, 4-Box Skidded Unit:  
End Opening ISO Container: D-SARAC 4441
- <3> Fuse, Blasting, Time, 6-Box Skidded Unit:  
End Opening ISO Container: D-SARAC 4440
- <4> Fuze, Base Detonating:  
^Unit: 19-48-4116/156T-20PA1002 - Revision 1  
^Unit: 19-48-4116/156U-20PA1002
- <5> Fuze, Electric Time:  
^Unit: 19-48-4116/156S-20PA1002 - Revision 2
- <6> Fuze, Mechanical Time:  
^Unit: 19-48-4116/156V-20PA1002
- <7> Fuze, Mechanical Time and Superquick:  
End Opening ISO Container: D-SARAC 4403  
^Unit: 19-48-4116/156M-20PA1002
- <8> Fuze, MOFA, MT, MTSQ, Point Detonating, or Proximity:  
^Unit: 19-48-4116/156-20PA1002 - Revision 13
- <9> Fuze, Multi-Option:  
^Unit: 19-48-4116/157D-20PA1002 - Revision 1
- <10> Fuze, Multi-Option or Point Detonating:  
^Unit: 19-48-4116/157E-20PA1002 - Revision 4
- <11> Fuze, Multi-Option, Precision Guidance Kit (PGK), XM1156:  
^Unit: 19-48-4116/157F-20PA1002

(Fuzes and Primers continued)

# Fuzes and Primers (Cont.)

- <1> Fuze, Point Detonating:  
End Opening ISO Container: D-SARAC 4394 – Revision 1  
^Unit: 19-48-4116/156D-20PA1002  
^Unit: 19-48-4116/156F-20PA1002  
^Unit: 19-48-4116/156H-20PA1002  
^Unit: 19-48-4116/156K-20PA1002  
^Unit: 19-48-4116/156N-20PA1002  
^Unit: 19-48-4116/156P-20PA1002  
^Unit: 19-48-4116/156Q-20PA1002  
^Unit: 19-48-4116/156W-20PA1002  
^Unit: 19-48-4169/156-20PA1006
  
- <2> Fuze, Point Detonating and/or Mechanical Time:  
^Unit: 19-48-4116/156A-20PA1002  
^Unit: 19-48-4116/156B-20PA1002 - Revision 2  
^Unit: 19-48-4116/156J-20PA1002  
^Unit: 19-48-4116/156L-20PA1002
  
- <3> Fuze, Point Detonating, Practice:  
^Unit: 19-48-4116/156X-20PA1002 - Revision 3
  
- <4> Fuze, Point Initiating, Base Detonating:  
^Unit: 19-48-4116/156C-20PA1002 - Revision 1
  
- <5> Fuze, Proximity:  
End Opening ISO Container (Unpalletized): DET 0207  
^Unit: 19-48-4116/156G-20PA1002 - Revision 4  
^Unit: 19-48-4116/157-20PA1002  
^Unit: 19-48-4116/157A-20PA1002  
^Unit: 19-48-4116/157B-20PA1002 - Revision 1
  
- <6> Fuze, Proximity or MTSQ:  
^Unit: 19-48-4116/157C-20PA1002 - Revision 1
  
- <7> Fuze, Time:  
^Unit: 19-48-4116/155-20PA1002
  
- <8> Fuze, VT, packed in MK1, MK2 and MK3 Metal Boxes:  
Igloo/Arch Type Magazine: 19-48-3366-1A681
  
- <9> Igniter, Electric Primer, M63:  
^Unit: 19-48-4116/159D-20PA1002
  
- <10> Plunger, Delay:  
^Unit: 19-48-4116/161-20PA1002

(Fuzes and Primers continued)



## **Fuzes and Primers (Cont.)**

- <1> Primer, Electric:
  - ^Unit: 19-48-4116/159-20PA1002
  - ^Unit: 19-48-4116/159B-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/159C-20PA1002
  
- <2> Primer, Electric or Percussion:
  - ^Unit: 19-48-4116/159A-20PA1002 - Revision 3
  
- <3> Primer, Percussion:
  - End Opening ISO Container: D-SARAC 4436
  - ^Unit: 19-48-4116/158-20PA1002
  - ^Unit: 19-48-4116/158A-20PA1002
  - ^Unit: 19-48-4116/158B-20PA1002
  - ^Unit: 19-48-4116/158C-20PA1002
  - ^Unit: 19-48-4116/158D-20PA1002 - Revision 1
  - ^Unit: 19-48-4116/158E-20PA1002 - Revision 2
  - ^Unit: 19-48-4116/158F-20PA1002
  - ^Unit: 19-48-4116/158G-20PA1002



# Chapter 2

## Guided Missile and Rocket Systems



**Advanced Medium Range**  
**Air-To-Air Missile**  
**AMRAAM**  
**AIM-120**

**Ammunition and Related Components**

- <1> Missile, packed in CNU-415 or CNU-555 Container:
  - Boxcar: 19-48-8699-SP5J21
  - End Opening ISO Container: 19-48-8702-SP15J114
  - Flatbed: 6214481 – Revision B
  - Flatrack ISO Container: 19-48-8706-SP15J117
  - Fleet Unit Load: 6214480 – Revision C
  - MILVAN: 19-48-8704-SP15J116
  - Side Opening ISO Container: 19-48-8703-SP15J115
  - Storage: 19-48-8705-SP1-3-4-14-22J43
  - Van Trailer: 19-48-8701-SP11J107
  
- <2> Missile, packed in CNU-431/E Container:
  - End Opening ISO Container: 19-48-8652-SP15J87
  - Flatbed: 19-48-7103-SP11J6 - Revision 1
  - MILVAN: 19-48-8654-SP15J89
  - Side Opening ISO Container: 19-48-8653-SP15J88
  - Storage: 19-48-7104-SP1-3-4-14-22J19 - Revision 1

**AGM-130**

**Ammunition and Related Components**

- <3> Missile, packed in CNU-578 Container:
  - End Opening ISO Container: 19-48-8667-SP15J100
  - Flatbed: 19-48-8671-SP11J101
  - Flatrack ISO Container: 19-48-8672-SP15J103
  - MILVAN: 19-48-8669-SP15J102
  - Side Opening ISO Container: 19-48-8668-SP15J101
  - Van Trailer: 19-48-8670-SP11J100

# **Army Air Defense Command Post** **AADCP**

## **Ground Support Equipment**

- <1> Equipment Van for AN/TSQ-51:  
Flatcar: 19-48-7148-GSE5AD3
- <2> Operations Van for AN/TSQ-51:  
Flatcar: 19-48-7146-GSE5AD1
- <3> RRIS Van for AN/TSQ-51:  
Flatcar: 19-48-7147-GSE5AD2
- <4> Shelter, Missile Minder, for AN/TSQ-73:  
Flatbed or Low-Boy: 19-48-7578-GSE11AD1  
Flatcar: 19-48-7805-GSE5AD4  
Shiploading: 19-48-7268-GSE18AD1
- <5> System Shelter, mounted on a 5-Ton Cargo Truck, M814, for AN/TSQ-73:  
European Flatcar: 19-48-7844-GSE5AD7  
Flatcar: 19-48-7819-GSE5AD5  
Shiploading: 19-48-7272-GSE18AD2
- <6> System Support Equipment, on a 5-Ton Cargo Truck, M814, for AN/TSQ-73:  
European Flatcar: 19-48-7845-GSE5AD8  
Flatcar: 19-48-7820-GSE5AD6  
Shiploading: 19-48-7273-GSE18AD3

# **Army Tactical Missile System** **ATACMS**

## **Ammunition and Related Components**

### <1> Missile/Launch Pod Assembly:

Boxcar: 19-48-5539-GM5AT1 - Revision 2  
CROP: 19-48-4905/24-CA17Q6 - Revision 1  
End Opening ISO Container: 19-48-8182-GM15AT2 - Revision 2  
Flatbed: 19-48-8181-GM11AT2 - Revision 3  
Flatrack ISO Container: 19-48-8183-GM15AT3 - Revision 3  
Korean Gondola: 19-48-8226-GM5AT3  
Load and Roll Pallet in End Opening ISO Container: 19-48-8198-GM15AT5 - Revision 2  
MILVAN: 19-48-8178-GM15AT1 - Revision 2  
Protection for Air Shipment: 19-48-5276-GM20MS2  
Shiploading: 19-48-5786-GM18AT1 - Revision 2  
Side Opening ISO Container: 19-48-8197-GM15AT4 - Revision 3  
Storage: 19-48-5262-GM1-3-4-14-22AT1 - Revision 2  
Tactical Vehicle: 19-48-5991-GM17AT1  
Van Trailer: 19-48-8179-GM11AT1 - Revision 2

### <2> Rocket Motor, M124:

End Opening ISO Container: 19-48-8258-GM15AT7  
Side Opening ISO Container: 19-48-8259-GM15AT8

## **Avenger**

### **Ground Support Equipment**

### <3> Battery Control Central, Vehicle Mounted, AN/TWQ-1:

European Railcar: 19-48-7896-GSE5AV2  
Flatbed or Low-Boy: 19-48-7614-GSE11AV1

# **Chaparral**

Ready Reference Chart: DRMSI-SP-1320

## **MIM-72**

### **Ammunition and Related Components**

- <1> Guidance Section:  
Unit: 19-48-5256-GM20CH3 - Revision 1
  
- <2> M21 Rocket Motor (Navy: MK50 MOD 0):  
Unit: 19-48-5243-GM20CH2 - Revision 1
  
- <3> Missile Round, Palletized:  
Boxcar: 19-48-5496-GM5CH1 - Revision 1  
Flatcar: 19-48-5499-GM5CH2 - Revision 1  
Shiploading: 19-48-5776-GM18CH1 - Revision 1  
Unit: 19-48-5235-GM20CH1 - Revision 2  
Van Trailer: 19-48-5749-GM11CH1 - Revision 1
  
- <4> Missile Round, Palletized and Unpalletized:  
End Opening ISO Container: 19-48-8190-GM15CH2  
Side Opening ISO Cntr: 19-48-8201-GM15CH3  
Storage: 19-48-5231-GM1-14-22CH1 - Revision 3
  
- <5> Missile Round, Unpalletized:  
"DF" Boxcar: 19-48-5483-GM5K3  
Boxcar: 19-48-5493-GM5K2  
MILVAN: 19-48-5944-GM15CH1 - Revision 1  
TOFC, Van Trailer, Mech: 19-48-5918-GM15K2  
Tactical Vehicle: 19-48-5917-GM15K1  
Van Trailer: 19-48-5916-GM11K2
  
- <6> Safe and Arming Section:  
Unit: 19-48-5259-GM20CH6 - Revision 1
  
- <7> Target Detecting Device:  
Unit: 19-48-5258-GM20CH5 - Revision 1
  
- <8> Warhead:  
Unit: 19-48-5257-GM20CH4 - Revision 1

(Chaparral continued)

# **Chaparral (Cont.)**

## **Ground Support Equipment**

- <1> Carrier, Self-Propelled, M730, without Fire Unit:  
Flatbed or Low-Boy: 19-48-7563-GSE11CH5 - Revision 1  
Flatcar: 19-48-7183-GSE5CH5 - Revision 1  
Shiploading: 19-48-7258-GSE18CH3 - Revision 1
  
- <2> Fire Unit, Carrier Mounted, M48 Series:  
European Flatcar: 19-48-7811-GSE5CH6  
Flatbed or Low-Boy: 19-48-7556-GSE11CH1 - Revision 2  
Flatcar: 19-48-7174-GSE5CH1 - Revision 2  
Shiploading: 19-48-7256-GSE18CH1 - Revision 2
  
- <3> Fire Unit, M54 Series:  
European Flatcar: 19-48-7812-GSE5CH7  
Flatbed or Low-Boy: 19-48-7566-GSE11CH4 - Revision 1  
Flatcar: 19-48-7180-GSE5CH4 - Revision 1  
Shiploading: 19-48-7257-GSE18CH2
  
- <4> Shop Equipment, AN/TSM-95 and/or AN/TSM-96:  
European Flatcar: 19-48-7813-GSE5CH8  
Flatbed or Low-Boy: 19-48-7560-GSE11CH2 - Revision 1  
Flatbed or Low-Boy: 19-48-7561-GSE11CH3 - Revision 1  
Flatcar: 19-48-7177-GSE5CH2 - Revision 1  
Flatcar: 19-48-7178-GSE5CH3 - Revision 1  
Shiploading: 19-48-7259-GSE18CH4  
Tactical Vehicle: 19-48-7562-GSE17CH1



# **Dragon**

Ready Reference Chart: DRMSI-SP-1320

## **Ammunition and Related Components**

- <1> Missile and Launcher, M222 or M223:
  - Boxcar: 19-48-5508-GM5DR1 - Revision 2
  - CROP: 19-48-4905/21-CA17Q6
  - End Opening ISO Container: 19-48-8187-GM15DR2
  - MILVAN: 19-48-5935-GM15DR1 - Revision 5
  - Portable Container: 19-48-5983-GM16DR1
  - Side Opening ISO Cntr: 19-48-8202-GM15DR3
  - Storage: 19-48-5237-GM1-3-4-14-22DR1 - Revision 4
  - Tactical Vehicle: 19-48-5992-GM17DR1
  - Unit: 19-48-5218-GM20DR1 - Revision 3
  - Van Trailer: 19-48-5928-GM11DR1 - Revision 3
  
- <2> Retrograde Missiles loaded in Pallet Boxes:
  - Unit: 19-48-5264/2-GM20MS1

# **Falcon**

**AIM-26**

## **Ammunition and Related Components**

- <3> Missile, packed in 52SC-1 Container:
  - Storage: 19-48-7059/1A-SP1-3-4-14-22J14
  
- <4> Missile, packed in DFSC-3 Container:
  - Storage: 19-48-7059/1B-SP1-3-4-14-22PM1
  
- <5> Missile, packed in EGSC-3A Container:
  - Storage: 19-48-7059/1C-SP1-3-4-14-22PM2

# **Forward Area Alert Radar**

Ready Reference Chart: DRSMI-SP-1320

## **FAAR**

### **Ground Support Equipment**

- <1> Radar Set AN/MPQ-54 Components, Mounted on Cargo Truck, M35A2:  
Flatbed or Low-Boy: 19-48-7583-GSE11FA5  
Flatcar: 19-48-7823-GSE5FA6  
Shiploading: 19-48-7274-GSE18FA3
  
- <2> Radar Set AN/MPQ-54 Components, Mounted on Trailer, M796:  
Flatbed or Low-Boy: 19-48-7584-GSE11FA6  
Flatcar: 19-48-7824-GSE5FA7  
Shiploading: 19-48-7275-GSE18FA4
  
- <3> Radar Set, AN/TPQ-32:  
Flatbed or Low-Boy: 19-48-7575-GSE11FA4  
Flatcar: 19-48-7069-GSE5FA4
  
- <4> Radar System Component, Mounted on Gamma Goat, M561:  
Flatbed or Low-Boy: 19-48-7571-GSE11FA2 - Revision 3  
Flatcar: 19-48-7200-GSE5FA2 - Revision 3  
Shiploading: 19-48-7265-GSE18FA1 - Revision 1
  
- <5> Test Set, Radar, AN/MPM-57:  
European Flatcar: 19-48-7814-GSE5FA5  
Flatbed or Low-Boy: 19-48-7574-GSE11FA3 - Revision 1  
Flatcar: 19-48-7202-GSE5FA3 - Revision 1  
Shiploading: 19-48-7266-GSE18FA2

# **Genie** **AIR-2**

## **Ammunition and Related Components**

- <1> Rocket Motor, SR 49-TC-1:  
Boxcar: 19-48-7065-SP5A3  
Storage: 19-48-7063-SP1-3-4-14-22C1  
Van Trailer: 19-48-7064-SP11A2

# **High-Speed Anti Radiation Missile** **HARM** **AGM-88**

## **Ammunition and Related Components**

- <2> Missile, packed in CNU-355/E Container:  
Boxcar: 19-48-8582-SP5J14  
End Opening ISO Container: 19-48-8584-SP15J67  
Flatbed: 19-48-7078-SP11J1 - Revision 2  
Flatrack ISO Container: 19-48-7090-SP15J4  
MILVAN: 19-48-8586-SP15J69  
Side Opening ISO Container: 19-48-8585-SP15J68  
Storage: 19-48-7089-SP1-3-4-14-22J21  
Van Trailer: 19-48-8583-SP11J30

# Harpoon/SLAM AGM-84

## Ammunition and Related Components

- <1> Missile, packed in MK607 Mod 0 Container:  
End Opening ISO Container: 19-48-8658-SP15J92  
Flatbed: 7516379  
MILVAN: 19-48-8656-SP15J91  
Side Opening ISO Container: 19-48-8657-SP15J93  
Storage: 19-48-8634-SP1-3-4-14-22J36  
Van Trailer: 19-48-8740-SP11J111
  
- <2> Missile, packed in MK608 Mod 0 Container:  
End Opening ISO Container: 19-48-8742-SP15J130  
Flatbed: MS-1320/169  
MILVAN: 19-48-8743-SP15J131  
Side Opening ISO Container: 19-48-8744-SP15J132  
Storage: 19-48-8635-SP1-3-4-14-22J34  
Van Trailer: 19-48-8746-SP11J112
  
- <3> Missile, packed in MK630 Mod 0 Container:  
Flatbed: MS-1320/196 – Revision A  
Storage: 19-48-8636-SP1-3-4-14-22J35  
Van Trailer: 19-48-8748-SP11J113
  
- <4> Missile, packed in MK631 Mod 0 Container:  
End Opening ISO Container: 19-48-8732-SP15J122  
Flatbed: 8411406  
Side Opening ISO Container: 19-48-8734-SP15J124  
Storage: 19-48-8637-SP1-3-4-14-22J37
  
- <5> Missile, packed in MK632 Mod 0 Container:  
End Opening ISO Container: 19-48-8661-SP15J95  
Flatrack ISO Container: 19-48-8750-SP15J134  
Flatbed: 8747599  
Side Opening ISO Container: 19-48-8660-SP15J96  
Storage: 19-48-8638-SP1-3-4-14-22J33  
Van Trailer: 19-48-8751-SP11J114
  
- <6> Missile, packed in MK694 Mod 0 Container:  
End Opening ISO Container: 19-48-8753-SP15J135  
Flatbed: MS-1320/226  
MILVAN: 19-48-8754-SP15J136  
Side Opening ISO Container: 19-48-8755-SP15J137 – Revision 1  
Storage: 19-48-8639-SP1-3-4-14-22J38  
Van Trailer: 19-48-8757-SP11J115

(HARPOON continued)

## Harpoon (Cont.)

- <1> Missile (SLAM), packed in MK724 Container:  
End Opening ISO Container: 19-48-8727-SP15J126  
Flatbed: 6213960 – Revision C  
MILVAN: 19-48-8728-SP15J127  
Side Opening ISO Container: 19-48-8729-SP15J128 – Revision 1  
Van Trailer: 19-48-8731-SP11J110

## Have-Nap AGM-142

### Ammunition and Related Components

- <2> Missile, packed in CNU-496 Container:  
End Opening ISO Container: 19-48-8870-SP15J173  
Flatbed Trailer: 19-48-8782-SP11J40  
Storage: 19-48-8784-SP1-3-4-14-22J48  
Van Trailer: 19-48-8783-SP11J41

## Hawk

Ready Reference Chart: DRSMI-SP-1311

## MIM-23

### Ammunition and Related Components

- <3> Body Section in M417E2 Container and/or Empty Container M417E2:  
Boxcar: 19-48-5355-GM5A53  
European Flatcar: 19-48-5505-GM5HA1  
Flatbed: 19-48-5553-GM11A52  
Flatcar: 19-48-5357-GM5A55  
Gondola: 19-48-5362-GM5A60  
Shiploading: 19-48-5777-GM18HA3  
Standard Magazine: 19-48-5050-GM2A12  
Van Trailer: 19-48-5555-GM11A54  
Warehouse: 19-48-5049-GM10A13

(HAWK continued)

# Hawk (Cont.)

## Ammunition and Related Components (Cont.)

- <1> Missile in M430 or M611 Container and/or Empty Container M430 or M611:
  - End Opening ISO Container: 19-48-5964-GM15HA7
  - European Boxcar: 19-48-8209-GM5HA9
  - European Flatcar: 19-48-5507-GM5HA3 - Revision 1
  - Flatbed: 19-48-5581-GM11HA5 - Revision 5
  - Flatcar: 19-48-5384-GM5HA8 - Revision 3
  - Flatrack ISO Container: 19-48-8200-GM15HA8
  - Gondola: 19-48-5383-GM5HA7 - Revision 3
  - Igloo/Arch Type Magazine: 19-48-5176-GM1HA1 - Revision 4
  - Low-Boy: 19-48-5945-GM11HA4
  - MILVAN: 19-48-5937-GM15HA3 - Revision 1
  - Shiploading: 19-48-5773-GM18HA1 - Revision 2
  - Stradley Magazine: 19-48-5189-GM14HA1 - Revision 3
  - TOFC, Flatbed: 19-48-5669-GM15HA6 - Revision 1
  - TOFC, Van Trailer, BHD: 19-48-5670-GM15HA4 - Revision 1
  - Tactical Vehicle: 19-48-5901-GM17A15 - Revision 2
  - Van Trailer: 19-48-8193-GM11HA6
  
- <2> Rocket Motor, M22E8 and/or M112:
  - Boxcar: 19-48-5453-GM5HA6 - Revision 1
  - European Flatcar: 19-48-5506-GM5HA2
  - Flatbed: 19-48-5721-GM11HA2 - Revision 2
  - Flatcar: 19-48-5451-GM5HA4 - Revision 2
  - Gondola: 19-48-5452-GM5HA5 - Revision 2
  - MILVAN: 19-48-5946-GM15HA5
  - Shiploading: 19-48-5774-GM18HA2 - Revision 1
  - TOFC, Flatbed: 19-48-5718-GM15HA1 - Revision 2
  - TOFC, Van Trailer, BHD: 19-48-5719-GM15A84
  - TOFC, Van Trailer, Mech: 19-48-5940-GM15HA2
  - Tactical Vehicle: 19-48-5939-GM17HA1
  - Van Trailer: 19-48-5720-GM11HA1 - Revision 2
  
- <3> Rocket Motor, M112:
  - Container Modification: D-AMXAC 4321
  
- <4> Rocket Motor, M22:
  - Container Modification: D-AMXAC 4103 - Revision 1

(HAWK continued)

# Hawk (Cont.)

## Ground Support Equipment

- <1> Console, Assault Fire Command, AN/TSM-4:  
Tactical Vehicle: 19-48-7511-GSE17HA2
- <2> Control Box, AN/GSA-50:  
Tactical Vehicle: 19-48-7512-GSE17HA3
- <3> Field Maintenance Equipment Shop 20:  
Flatcar: 19-48-7891-GSE5HA63
- <4> Field Maintenance Equipment Shop 21:  
Flatcar: 19-48-7892-GSE5HA64
- <5> ICC, AN/MSQ-95 and Platoon Command Post, AN/MSW-9 and/or AN/MSW-11:  
European Flatcar: 19-48-7801-GSE5HA59 - Revision 1  
Flatbed or Low-Boy: 19-48-7570-GSE11HA49 - Revision 3  
Flatcar: 19-48-7199-GSE5HA48 - Revision 1  
Shiploading: 19-48-7254-GSE18HA10
- <6> Launcher, Carrier Mounted, M754:  
European Flatcar: 19-48-7070-GSE5HA52 - Revision 1  
Flatbed or Low-Boy: 19-48-7541-GSE11HA42 - Revision 1  
Flatcar: 19-48-7164-GSE5HA43  
Shiploading: 19-48-7255-GSE18HA11
- <7> Launcher, Zero Length, M78 and/or M192:  
European Flatcar: 19-48-7144-GSE5HA57 - Revision 1  
Flatbed or Low-Boy: 19-48-7414-GSE11HA23 - Revision 2  
Flatcar: 19-48-7029-GSE5HA5 - Revision 2  
Shiploading: 19-48-7223-GSE18HA4
- <8> Loader Transporter, M501:  
European Flatcar: 19-48-7800-GSE5HA58  
Flatbed or Low-Boy: 19-48-7415-GSE11HA33 - Revision 4  
Flatcar: 19-48-7030-GSE5HA6 - Revision 3  
Shiploading: 19-48-7224-GSE18HA5  
Tactical Vehicle: 19-48-7522-GSE17HA6
- <9> Mobile Team Transit Case:  
Tactical Vehicle: 19-48-7559-GSE17HA7
- <10> Pallet, Loading and Storage, M1:  
Flatbed: 19-48-7402-GSE11HA22  
Flatcar: 19-48-7031-GSE5HA7 - Revision 1

(HAWK continued)

# Hawk (Cont.)

## Ground Support Equipment (Cont.)

- <1> Platoon Support Van, Truck Mounted, M109:  
Flatbed or Low-Boy: 19-48-7568-GSE11HA47 - Revision 1  
Flatcar: 19-48-7194-GSE5HA46
  
- <2> Radar Set, AN/MPQ-34 and/or AN/MPQ-48:  
European Flatcar: 19-48-7119-GSE5HA53 - Revision 1  
Flatbed or Low-Boy: 19-48-7403-GSE11HA19 - Revision 4  
Flatcar: 19-48-7026-GSE5HA2 - Revision 4  
Shiploading: 19-48-7221-GSE18HA2
  
- <3> Radar Set, AN/MPQ-35 and/or AN/MPQ-50:  
European Flatcar: 19-48-7806-GSE5HA61 - Revision 1  
Flatbed or Low-Boy: 19-48-7404-GSE11HA16 - Revision 2  
Flatcar: 19-48-7027-GSE5HA3 - Revision 2  
Shiploading: 19-48-7222-GSE18HA3  
Tactical Vehicle: 19-48-7513-GSE17HA4 - Revision 1
  
- <4> Radar Set, AN/MPQ-37 and/or AN/MPQ-51:  
European Flatcar: 19-48-7142-GSE5HA56 - Revision 1  
Flatbed or Low-Boy: 19-48-7487-GSE11HA39 - Revision 3  
Flatcar: 19-48-7111-GSE5HA38 - Revision 2  
Shiploading: 19-48-7226-GSE18HA7
  
- <5> Radar Set, AN/MPQ-39 and/or AN/MPQ-46:  
European Flatcar: 19-48-7121-GSE5HA55 - Revision 1  
Flatbed or Low-Boy: 19-48-7486-GSE11HA37 - Revision 3  
Flatcar: 19-48-7109-GSE5HA36 - Revision 2  
Shiploading: 19-48-7225-GSE18HA6
  
- <6> Shop Equipment, BCC and Simulator Station, AN/TSM-44 and/or AN/TSM-112:  
European Flatcar: 19-48-7815-GSE5HA62  
Flatbed or Low-Boy: 19-48-7572-GSE11HA51 - Revision 2  
Flatcar: 19-48-7192-GSE5HA50 - Revision 2  
Shiploading: 19-48-7227-GSE18HA8  
Tactical Vehicle: 19-48-7508-GSE17HA1 - Revision 1  
Tactical Vehicle: 19-48-7514-GSE17HA5 - Revision 1

(HAWK continued)



# **Hawk (Cont.)**

## **Ground Support Equipment (Cont.)**

- <1> Shop Equipment, Field Maintenance, AN/TSM-40:  
Flatcar: 19-48-7066-GSE5HA15 - Revision 1
- <2> Shop Equipment, Field Maintenance, AN/TSM-41 and/or AN/TSM-108:  
Flatcar: 19-48-7072-GSE5HA21 - Revision 1
- <3> Shop Equipment, Field Maintenance, AN/TSM-42, 90, and/or AN/TSM-104:  
Flatcar: 19-48-7062-GSE5HA11 - Revision 1
- <4> Shop Equipment, Field Maintenance, AN/TSM-43 and/or AN/TSM-91:  
Flatcar: 19-48-7063-GSE5HA12 - Revision 1
- <5> Shop Equipment, Field Maintenance, AN/TSM-45 and/or AN/TSM-92:  
Flatcar: 19-48-7065-GSE5HA14 - Revision 1
- <6> Shop Equipment, Field Maintenance, AN/TSM-88 and/or AN/TSM-106:  
Flatcar: 19-48-7071-GSE5HA20 - Revision 1
- <7> Shop Equipment, Field Maintenance, XM2E2:  
Flatcar: 19-48-7064-GSE5HA13 - Revision 1
- <8> Shop Equipment, Organizational Maintenance, AN/MSM-43, Trailer Mounted:  
European Flatcar: 19-48-7804-GSE5HA60 - Revision 1  
Flatbed or Low-Boy: 19-48-7417-GSE11HA34 - Revision 2  
Flatcar: 19-48-7034-GSE5HA10 - Revision 3  
Shiploading: 19-48-7228-GSE18HA9
- <9> Simulator Station, Radar Signal, AN/TPQ-21 and/or AN/TPQ-29:  
Flatcar: 19-48-7132-GSE11HA40 - Revision 1
- <10> Trailer, Guided Missile, 2-Wheel, M502:  
European Flatcar: 19-48-7120-GSE5HA54  
Flatbed or Low-Boy: 19-48-7401-GSE11HA18 - Revision 1  
Flatcar: 19-48-7032-GSE5HA8 - Revision 2  
Shiploading: 19-48-7220-GSE18HA1

# **Hellfire**

## **AGM-114**

### **Ammunition and Related Components**

- <1> Missile Round packed in CNU-448 Container:  
Flatbed Trailer: 6214290 – Revision B
  
- <2> Missile Round packed in Metal Container:  
Boxcar: 19-48-5525-GM5HF1 - Revision 3  
CROP: 19-48-4906/9-CA17Q7  
CROP (Longbow): 19-48-4906/10-CA17Q7  
CROP (Modified Pallet Unit): 19-48-4906/104-CA17Q7  
End Opening ISO Container: 19-48-8150-GM15HF2 - Revision 1  
MILVAN: 19-48-5979-GM15HF1 - Revision 1  
Side Opening ISO Container: 19-48-8229-GM15HF3  
Storage: 19-48-5251-GM1-3-4-14-22HF1 - Revision 5  
Tactical Vehicle: 19-48-8151-GM17HF1 - Revision 1  
Unit: 19-48-5250-GM20HF1 - Revision 6  
Van Trailer: 19-48-5975-GM11HF1 - Revision 3
  
- <3> Pallet, Special, Hellfire, 76" x 44" Wood:  
Materials Handling Equipment: ACV00820 - Revision A
  
- <4> Pallet, Special, Hellfire, 76" x 46" Wood:  
Materials Handling Equipment: ACV00818
  
- <5> Pallet, Special, Hellfire, 84" x 44" Wood:  
Materials Handling Equipment: ACV00821

# Honest John

Ready Reference Chart: DRSMI-SP-1312

## **MGR-1**

### **Ammunition and Related Components**

- <1> Fin Assembly, M136 Series:
  - "DF" Boxcar: 19-48-5455-GM5A142
  - "DF" Boxcar: 19-48-5464-GM5A151
  - Boxcar: 19-48-5058-GM5A8 - Revision 1
  - Boxcar: 19-48-5366-GM5A64 - Revision 1
  - Standard Magazine: 19-48-5022-GM2A5 - Revision 1
  - Standard Magazine: 19-48-5195-GM2A19
  - TOFC, Van Trailer, BHD: 19-48-5678-GM15A46
  - Van Trailer: 19-48-5110-GM11A10 - Revision 3
  - Van Trailer: 19-48-5562-GM11A61 - Revision 1
  - Warehouse: 19-48-5005-GM10A2 - Revision 1
  - Warehouse: 19-48-5196-GM10A21
  
- <2> Rocket Motor, M3 Series:
  - Flatbed: 19-48-5128-GM11A28 - Revision 5
  - Flatcar: 19-48-5376-GM5A73 - Revision 1
  - Gondola: 19-48-5060-GM5A10 - Revision 5
  - TOFC, Flatbed: 19-48-5639-GM15A14
  - TOFC, Van Trailer, BHD: 19-48-5664-GM15A33
  - Van Trailer: 19-48-5109-GM11A9 - Revision 1
  
- <3> Rocket Motor, M66 or M66A1, with Four Fins, M17:
  - 40 Foot End Opening ISO Container: 19-48-8230-GM15HJ3
  - 40 Foot End Opening ISO Container: 19-48-8231-GM15HJ4
  - "DF" Boxcar: 19-48-5475-GM5A162
  - Boxcar: 19-48-5439-GM5A126
  - Flatbed: 19-48-5624-GM11A105 - Revision 1
  - Flatcar: 19-48-5437-GM5A124 - Revision 1
  - Gondola: 19-48-5438-GM5A125
  - Igloo/Arch Type Magazine: 19-48-5010-GM1A5 - Revision 3
  - MILVAN: 19-48-5949-GM15HJ1
  - TOFC, Flatbed: 19-48-5703-GM15A69
  - TOFC, Van Trailer, BHD: 19-48-5690-GM15A56
  - Van Trailer: 19-48-5628-GM11A109 - Revision 1
  
- <4> Warhead, Practice, M38, HE, M144, or HE, M186:
  - End Opening ISO Container: 19-48-8232-GM15HJ5

(HONEST JOHN continued)

# Honest John (Cont.)

## Ammunition and Related Components (Cont.)

- <1> Warhead Assembly, M1 Series and/or Warhead Section, M38:
  - Boxcar: 19-48-5372-GM5A70 - Revision 2
  - European Flatcar: 19-48-5510-GM5HJ2
  - Flatbed: 19-48-5131-GM11A30 - Revision 3
  - Flatcar: 19-48-5369-GM5A67 - Revision 2
  - Gondola: 19-48-5371-GM5A69 - Revision 2
  - Igloo/Arch Type Magazine: 19-48-5016-GM1A8 - Revision 3
  - MILVAN: 19-48-5950-GM15HJ2
  - Standard Magazine: 19-48-5011-GM2A3 - Revision 2
  - TOFC, Flatbed: 19-48-5640-GM15A4
  - TOFC, Van Trailer, BHD: 19-48-5676-GM15A44
  - Van Trailer: 19-48-5566-GM11A65 - Revision 2
  - Warehouse: 19-48-5017-GM10A7 - Revision 2

## Ground Support Equipment

- <2> Ancillary Ground Support Equipment:
  - Boxcar: 19-48-7129-GSE5HJ19
  - Van Trailer: 19-48-7503-GSE11HJ20
- <3> Heating and Tiedown Unit, M78A1, Truck Mounted:
  - Flatbed or Low-Boy: 19-48-7490-GSE11HJ8
  - Flatcar: 19-48-7116-GSE5HJ7
- <4> Launcher, M289, Truck Mounted:
  - Flatcar: 19-48-7114-GSE5HJ5
- <5> Launcher, M33:
  - Flatbed or Low-Boy: 19-48-7488-GSE11HJ2
  - Flatcar: 19-48-7112-GSE5HJ1
- <6> Launcher, M386, Truck Mounted:
  - Flatcar: 19-48-7115-GSE5HJ6
- <7> Rocket Transporter, M329, M329A1 or M405A1:
  - Flatbed or Low-Boy: 19-48-7489-GSE11HJ4
  - Flatcar: 19-48-7113-GSE5HJ3
- <8> Trailer, M465:
  - Flatbed or Low-Boy: 19-48-7491-GSE11HJ10
  - Flatcar: 19-48-7117-GSE5HJ9
- <9> Wind Measuring Set, AN/MMQ-1B:
  - Flatbed or Low-Boy: 19-48-7492-GSE11HJ12
  - Flatcar: 19-48-7118-GSE5HJ11

# **Javelin** **FGM-148**

## **Ammunition and Related Components**

**<1> Missile Round packed in Cylindrical Metal Containers:**

End Opening ISO Container: 19-48-5988-GM15JV2  
MILVAN: 19-48-5987-GM15JV1  
Side Opening ISO Container: 19-48-5989-GM15JV3  
Storage: 19-48-5265-GM1-3-4-14-22JV1 - Revision 1  
Tactical Vehicle: 19-48-5990-GM17JV1  
Unit: 19-48-5266-GM20JV1 - Revision 2  
Van Trailer: 19-48-5986-GM11JV1

**<2> Missile Round packed in Cylindrical Plastic Containers:**

CROP: 19-48-4906/11-CA17Q6  
End Opening ISO Container: 19-48-5998-GM15JV5  
MILVAN: 19-48-5997-GM15JV4  
Side Opening ISO Container: 19-48-5999-GM15JV6  
Storage: 19-48-5271-GM1-3-4-14-22JV2  
Tactical Vehicle: 19-48-8218-GM17JV2  
Unit: 19-48-5270-GM20JV2 - Revision 2  
Unit (NATO Pallet): 19-48-5275-GM20JV3 - Revision 1  
Van Trailer: 19-48-5996-GM11JV2

**<3> Retrograde Javelin Missiles loaded in Pallet Boxes:**

Unit: 19-48-5264/8-GM20MS1

# **Joint Attack Guided Missile** **JAGM** **AGM-179**

## **Ammunition and Related Components**

**<4> Missile, packed in Metal Container:**

End Opening ISO Container: 19-48-8252-GM15JG1  
MILVAN: 19-48-8253-GM15JG2  
Side Opening ISO Container: 19-48-8254-GM15JG2  
Unit: 19-48-5284-GM20JG1

# **Joint Air-to-Surface Standoff Missile**

## **JASSM AGM-158**

### **Ammunition and Related Components**

- <1> Missile, packed in CNU-614 Container:  
Boxcar: 19-48-8774-SP5J31  
End Opening ISO Container: 19-48-8778-SP15J144  
Flatbed: 19-48-8776-SP11J39  
MILVAN: 19-48-8777-SP15J143  
Side Opening ISO Container: 19-48-8779-SP15J145  
Storage: 19-48-8780-SP1-3-4-14-22J47  
Van Trailer: 19-48-8775-SP11J38

# **Joint Standoff Weapon**

## **JSOW AGM-154**

### **Ammunition and Related Components**

- <2> Missile, packed in CNU-575 Containers:  
Boxcar: 19-48-8691-SP5J20  
End Opening ISO Container: 19-48-8694-SP15J110  
Flatbed Trailer: 19-48-8692-SP11J104  
Flatrack ISO Container: 19-48-8698-SP15J113  
MILVAN: 19-48-8696-SP15J112  
Side Opening ISO Container: 19-48-8695-SP15J111  
Van Trailer: 19-48-8693-SP11J105
- <3> Missile, packed in CNU-671 or CNU-672 Container:  
Boxcar: 19-48-8818-SP5J35  
End Opening ISO Container: 19-48-8821-SP15J154  
Flatbed Trailer: 19-48-8819-SP11J120 - Revision 1  
Flatrack ISO Container: 19-48-8824-SP15J157  
Side Opening ISO Container: 19-48-8822-SP15J155  
Storage: 19-48-8825-SP1-3-4-14-22J51  
Unit: 7516615  
Van Trailer: 19-48-8820-SP11J121
- <4> Missile, packed in CNU-710 Container:  
End Opening ISO Container: 19-48-8877-SP15J174  
Flatrack ISO Container: 19-48-8879-SP15J176  
Side Opening ISO Container: 19-48-8878-SP15J175  
Storage: 19-48-8880-SP1-3-4-14-22J57

# Lance

Ready Reference Chart: DRSMI-SP-1322

## **MGM-52**

### **Ammunition and Related Components**

- <1> Control Surface, M30, in M596 or Plywood Container, and M29, in M597 Cntr.:  
"DF" Boxcar: 19-48-5494-GM5LC4 - Revision 1  
Boxcar: 19-48-5495-GM5LC3 - Revision 1  
Standard Magazine: 19-48-5210-GM2A22  
TOFC, Van Trailer, Mech: 19-48-5748-GM15LC2 - Revision 1  
Unit: 19-48-5236-GM20LC1 - Revision 2  
Van Trailer: 19-48-5921-GM11LC1 - Revision 1
- <2> Main Assemblage, M5 and/or M6 (Inert), packed in M599 Container:  
European Flatcar: 19-48-5502-GM5LC2 - Revision 1  
Flatbed: 19-48-5922-GM11J3  
Flatcar: 19-48-5500-GM5J5  
Flatrack ISO Container: 19-48-8180-GM15LC3 - Revision 1  
Shiploading: 19-48-5775-GM18LC1 - Revision 2  
Storage: 19-48-5216-GM1-14LC1 - Revision 1  
Storage: 19-48-5217-GM1-2-14J2  
TOFC, Flatbed: 19-48-5925-GM15J4  
Tactical Vehicle: 19-48-5747-GM17LC1 - Revision 8
- <3> Warhead Section, packed in M544 Container:  
Boxcar: 19-48-4113-5J1002  
European Flatcar: 19-48-4161-5J1003  
Storage: 19-48-4108-1-3-4-14-22J1001 - Revision 2  
Van Trailer: 19-48-4114-11J1002

### **Ground Support Equipment**

- <4> Handling Unit, M39E1:  
Boxcar: 19-48-7803-GSE5LC15  
European Flatcar: 19-48-7143-GSE5LC13 - Revision 1  
Flatbed or Low-Boy: 19-48-7576-GSE11LC8  
Flatcar: 19-48-7802-GSE5LC14  
Shiploading: 19-48-7261-GSE18LC5  
Van Trailer: 19-48-7577-GSE11LC9
- <5> Launch Fixture Assembly:  
European Flatcar: 19-48-7061-GSE5LC11 - Revision 1  
Flatbed or Low-Boy: 19-48-7494-GSE11LC6  
Flatcar: 19-48-7045-GSE5LC10  
Shiploading: 19-48-7262-GSE18LC6

(LANCE continued)

# Lance (Cont.)

## Ground Support Equipment (Cont.)

- <1> Launcher, Carrier Mounted, M752:
  - European Flatcar: 19-48-7181-GSE5LC4 - Revision 1
  - Flatbed or Low-Boy: 19-48-7536-GSE11LC1 - Revision 3
  - Flatcar: 19-48-7150-GSE5LC1 - Revision 2
  - Shiploading: 19-48-7231-GSE18LC1
  
- <2> Launcher, Zero Length, M740:
  - European Flatcar: 19-48-7188-GSE5LC7
  - Flatbed or Low-Boy: 19-48-7538-GSE11LC3 - Revision 1
  - Flatcar: 19-48-7152-GSE5LC3
  - Shiploading: 19-48-7233-GSE18LC3
  
- <3> Loader Transporter, M688E1:
  - European Flatcar: 19-48-7182-GSE5LC5 - Revision 1
  - Flatbed or Low-Boy: 19-48-7537-GSE11LC2 - Revision 3
  - Flatcar: 19-48-7151-GSE5LC2 - Revision 2
  - Shiploading: 19-48-7232-GSE18LC2
  
- <4> Mobility Kit, Launcher, M234:
  - European Flatcar: 19-48-7184-GSE5LC6
  - Flatbed or Low-Boy: 19-48-7569-GSE11LC4 - Revision 1
  - Flatcar: 19-48-7195-GSE5LC8
  - Shiploading: 19-48-7260-GSE18LC4
  - Tactical Vehicle: 19-48-7597-GSE17LC1 - Revision 1
  - Van Trailer: 19-48-7533-GSE11LC7
  
- <5> Propellant Draining Kit:
  - European Flatcar: 19-48-7817-GSE5LC19
  - Flatbed or Low-Boy: 19-48-7581-GSE11LC11
  - Flatcar: 19-48-7816-GSE5LC18
  - Shiploading: 19-48-7271-GSE18LC9
  
- <6> Shelter, Electrical Equipment, Modified S250-G, Crated and Uncrated:
  - European Flatcar: 19-48-7808-GSE5LC17 - Revision 1
  - Flatbed or Low-Boy: 19-48-7579-GSE11LC10
  - Flatcar: 19-48-7807-GSE5LC16
  - Shiploading: 19-48-7269-GSE18LC8
  
- <7> Shelter, Electrical Equipment, Modified S250-G, mounted on a M715 Truck:
  - European Flatcar: 19-48-7068-GSE5LC12
  - Flatbed or Low-Boy: 19-48-7493-GSE11LC5
  - Flatcar: 19-48-7033-GSE5LC9
  - Shiploading: 19-48-7263-GSE18LC7



# **Land Combat Support System**

Ready Reference Chart: DRSMI-SP-1320

## **LCSS**

### **Ground Support Equipment**

#### **<1> Shop Equipment:**

European Flatcar: 19-48-7197-GSE5LS3  
Flatbed or Low-Boy: 19-48-7540-GSE11LS2 - Revision 1  
Flatcar: 19-48-7155-GSE5LS2  
Shiploading: 19-48-7230-GSE18LS2  
Tactical Vehicle: 19-48-7551-GSE17LS4

#### **<2> Test Station:**

European Flatcar: 19-48-7198-GSE5LS4 - Revision 1  
Flatbed or Low-Boy: 19-48-7539-GSE11LS1 - Revision 1  
Flatcar: 19-48-7154-GSE5LS1  
Shiploading: 19-48-7229-GSE18LS1  
Tactical Vehicle: 19-48-7550-GSE17LS3

# **Long Range Anti-Ship Missile**

## **LRASM**

## **AIM-158C**

### **Ammunition and Related Components**

#### **<3> Missile, packed in CNU-745 Container:**

Flatbed: 8601331  
Flatrack ISO Container: 19-48-8889-SP15J181  
Side Opening ISO Container: 19-48-8888-SP15J180

# **Maverick**

## **AGM-65**

### **Ammunition and Related Components**

- <1> Missile, packed in CNU-131 Container:
  - Boxcar: 19-48-7147-SP5J6
  - End Opening ISO Container: 19-48-7148-SP15J18
  - Flatbed: 19-48-7145-SP11J12 - Revision 1
  - Flatrack ISO Container: 19-48-7076-SP15J2
  - MILVAN: 19-48-7149-SP15J19
  - Side Opening ISO Container: 19-48-7114-SP15J12
  - Van Trailer: 19-48-7146-SP11J13
  
- <2> Missile, packed in CNU-131 and/or CNU-263 Container:
  - Storage: 19-48-8501-1-14-22M1 - Revision 1
  
- <3> Missile, packed in CNU-263 Container:
  - Boxcar: 19-48-8513-SP5K4
  - End Opening ISO Container: 19-48-8517-SP15K7
  - Flatbed: 19-48-8515-SP11K6 - Revision 2
  - Flatrack ISO Container: 19-48-8519-SP15K9
  - MILVAN: 19-48-8516-SP15K6
  - Side Opening ISO Container: 19-48-8518-SP15K8
  - Van Trailer: 19-48-8514-SP11K5
  
- <4> Missile, packed in CNU-399 and/or CNU-425 Container:
  - Boxcar: 19-48-7143-SP5K3
  - End Opening ISO Container: 19-48-7144-SP15K3
  - Flatbed: 19-48-7121-SP11K3 - Revision 2
  - Flatrack ISO Container: 19-48-7122-SP15K2
  - MILVAN: 19-48-8503-SP15K5
  - Side Opening ISO Cntr: 19-48-8502-SP15K4
  - Storage: 19-48-7123-SP1-3-4-14-22K1 - Revision 1
  - Van Trailer: 19-48-7142-SP11K4
  
- <5> Missile, packed in CNU-445 and/or CNU-447 Container:
  - Boxcar: 19-48-8505-SP5J7
  - End Opening ISO Container: 19-48-8605-SP15J74
  - Flatbed: 19-48-7116-SP11M10 - Revision 1
  - Flatrack ISO Container: 19-48-7117-SP15J13
  - MILVAN: 19-48-8506-SP15J22
  - Side Opening ISO Cntr: 19-48-7118-SP15J14
  - Storage: 19-48-7120-SP1-3-4-14M1 - Revision 1
  - Van Trailer: 19-48-8504-SP11J15

# **Miniature Air Launched Decoy**

## **MALD ADM-160**

### **Ammunition and Related Components**

- <1> Miniature Air Launched Decoy, packed in CNU-683 Container:
  - Boxcar: 19-48-8862-SP5J39
  - End Opening ISO Container: 19-48-8866-SP15J170
  - Flatbed: 19-48-8864-SP11J124
  - Flatrack ISO Container: 19-48-8868-SP15J172
  - MILVAN: 19-48-8865-SP15J169
  - Side Opening ISO Container: 19-48-8867-SP15J171
  - Storage: 19-48-8869-SP1-3-4-14-22J55
  - Van Trailer: 19-48-8863-SP11J123

# **Multiple Launch Rocket System and Guided Multiple Launch Rocket System** **MLRS & GMLRS**

## **Ammunition and Related Components**

- <1> Rocket Pod/Container (RP/C):
  - Boxcar: 19-48-5516-GM5RS1 - Revision 1
  - Bulkhead Flatcar: 19-48-5542-GM5RS4
  - CROP: 19-48-4905/10A-CA17Q6
  - End Opening ISO Container: 19-48-5968-GM15RS2 - Revision 2
  - European Boxcar: 19-48-5517-GM5RS2 - Revision 1
  - Flatbed: 19-48-5971-GM11RS2 - Revision 4
  - Flatrack ISO Container: 19-48-8195-GM15RS4
  - Hyundai Freight Car: 19-48-8246-GM5RS6
  - Korean Gondola: 19-48-5541-GM5RS3 - Revision 2
  - Load and Roll Pallet: 19-48-8184-GM15RS3 - Revision 1
  - MILVAN: 19-48-5967-GM15RS1 - Revision 2
  - PLS Flatrack (M1): 19-48-4905/10-CA17Q6
  - Protection for Air Shipment: 19-48-5276-GM20MS2
  - Shiploading: 19-48-5778-GM18RS1 - Revision 3
  - Side Opening ISO Container: 19-48-8196-GM15RS5
  - Storage (GMLRS): 19-48-5278-GM1-3-4-14-22RS2
  - Storage (MLRS): 19-48-5245-GM1-3-4-14-22RS1 - Revision 4
  - Tactical Vehicle: 19-48-8152-GM17RS1 - Revision 2
  - Van Trailer: 19-48-5966-GM11RS1 - Revision 1

## **Ground Support Equipment**

- <2> Self Propelled Launcher Loader:
  - European Flatcar: 19-48-7826-GSE5RS1 - Revision 1
  - Flatcar: 19-48-7825-GSE5RS2
  - Low-Boy: 19-48-7586-GSE11RS1 - Revision 2
  - Shiploading: 19-48-7277-GSE18RS1
- <3> Stabilizer Frame:
  - MHE: AC200000809 - Revision D
- <4> Storage and Handling Aid for Narrow Door Magazines:
  - MHE: ACV00140

# **Multiple System**

Ready Reference Chart: DRSMI-SP-1320  
(Applicable to more than one Missile/Rocket system)

## **Ammunition and Related Components**

- <1> Guided Missile Ammunition and/or Components:
  - "DF" Boxcar: 19-48-5478-GM5A165
  - On-Depot Movement: 19-48-4306-5-11Q1000
  - Stacking Height Guide: DA-109
  - Tactical Vehicle - PLS: 19-48-8217-GM17MS1
  - TOFC, Van Trailer, BHD: 19-48-5743-GM15A86
  - Type III Bunker: 19-48-5241-GM3MS1 - Revision 1
  
- <2> Type 1 and Type 2 Cargo Transporters loaded with Missile/Rocket Components:
  - Flatbed: 19-48-5742-GM11H1 - Revision 1
  - Gondola: 19-48-5488-GM5H1
  - Van Trailer: 19-48-5740-GM11H2 - Revision 1

## **Ground Support Equipment**

- <3> 45KW Generator, Trailer Mounted:
  - European Flatcar: 19-48-7810-GSE5MS2
  - Flatbed or Low-Boy: 19-48-7580-GSE11MS1
  - Flatcar: 19-48-7809-GSE5MS1
  - Shiploading: 19-48-7270-GSE18MS1
  
- <4> Calibration Electronic Equipment, Mounted on 5-Ton Truck, M820A2:
  - Flatbed or Low-Boy: 19-48-7613-GSE11MS2 - Revision 1
  - Flatcar: 19-48-7888-GSE5MS3
  - Shiploading: 19-48-7306-GSE18MS2
  
- <5> Ground Based Sensor, AN/MPQ-64 Trailer & 5 Ton Truck w/Shelter/Generator Pallet:
  - Shiploading: 19-48-7309-GSE18MS4
  
- <6> Ground Based Sensor, AN/MPQ-64 Trailer & Dismounted Shelter/Generator Pallet:
  - Shiploading: 19-48-7308-GSE18MS3

# **Patriot**

## **MIM-104**

### **Ammunition and Related Components**

- <1> Missile Round - PAC-1 and PAC-2:
  - End Opening ISO Container: 19-48-8154-GM15PA2 - Revision 1
  - European Boxcar: 19-48-8208-GM5PA3
  - European Flatcar: 19-48-5520-GM5PA2 - Revision 1
  - Flatbed: 19-48-5970-GM11PA1 - Revision 4
  - Flatcar: 19-48-5519-GM5PA1
  - Flatrack ISO Container: 19-48-8207-GM15PA4
  - Korean Gondola: 19-48-8228-GM5PA7
  - MILVAN: 19-48-8153-GM15PA1 - Revision 3
  - Netherlands Container: D-SMCAC 4486
  - Outdoor Storage for RPMC: 19-48-5274-GM21PA1
  - Overpack: D-SARAC 4500
  - Shiploading: 19-48-5779-GM18PA1 - Revision 1
  - Side Opening ISO Container: 19-48-8199-GM15PA3
  - Storage: 19-48-5242-GM1-3-4-14-22PA1 - Revision 2
  - Tactical Vehicle: 19-48-5978-GM17PA1 - Revision 1
  - Van Trailer: 19-48-8194-GM11PA2
  
- <2> Missile Round - PAC-3:
  - End Opening ISO Container: 19-48-8221-GM15PA5
  - Flatbed: 19-48-8220-GM11PA4 - Revision 2
  - Flatrack ISO Container: 19-48-8222-GM15PA6
  - MILVAN: 19-48-8223-GM15PA7
  - Shiploading: 19-48-5787-GM18PA2
  - Side Opening ISO Container: 19-48-8224-GM15PA8
  - Storage: 19-48-5272-GM1-3-4-14-22PA2
  - Van Trailer: 19-48-8219-GM11PA3
  
- <3> Missile Round - PAC-3 MSE:
  - Flatbed: 19-48-8240-GM11PA5
  - Hyundai Freight Car: 19-48-8247-GM5PA8
  - Side Opening ISO Container: 19-48-8242-GM15PA9
  - Storage: 19-48-5283-GM1-3-4-14-22PA3

### **Ground Support Equipment**

- <4> Antenna Mast Set, Off-Loaded:
  - Flatcar: 19-48-7890-GSE5PA25
  
- <5> Antenna Mast Set, Truck Mounted:
  - European Flatcar: 19-48-7870-GSE5PA17
  - Flatcar: 19-48-7839-GSE5PA11
  - Shiploading: 19-48-7289-GSE18PA11

(PATRIOT continued)

# Patriot (Cont.)

## Ground Support Equipment (Cont.)

- <1> Fuel Tank, M921, Mounted on M353 Trailer:
  - European Flatcar: 19-48-7875-GSE5PA22
  - Flatbed or Low-Boy: 19-48-7595-GSE11PA7
  - Flatcar: 19-48-7837-GSE5PA9
  - Shiploading: 19-48-7287-GSE18PA9
  
- <2> Launching Station, Semitrailer Mounted, M901:
  - European Flatcar: 19-48-7869-GSE5PA16
  - Flatbed or Low-Boy: 19-48-7590-GSE11PA2
  - Flatcar: 19-48-7830-GSE5PA2
  - Shiploading: 19-48-7280-GSE18PA2
  
- <3> Maintenance Center and Small Repair Parts Transporter:
  - European Flatcar: 19-48-7872-GSE5PA19
  - Flatbed or Low-Boy: 19-48-7598-GSE11PA9
  - Flatcar: 19-48-7843-GSE5PA13
  - Shiploading: 19-48-7292-GSE18PA13
  
- <4> Power Plant, Electric, 150KW (EPP II), Truck Mounted:
  - European Flatcar: 19-48-7874-GSE5PA21
  - Flatcar: 19-48-7835-GSE5PA7 - Revision 1
  - Shiploading: 19-48-7285-GSE18PA7
  
- <5> Power Plant, Electric, AN/MJQ-20 (EPP I), Truck Mounted:
  - Flatcar: 19-48-7834-GSE5PA6
  - Shiploading: 19-48-7284-GSE18PA6
  
- <6> Power Plant, Electric, AN/MJQ-21 (EPU), Mounted on M353 Trailer:
  - European Flatcar: 19-48-7873-GSE5PA20
  - Flatbed or Low-Boy: 19-48-7594-GSE11PA6
  - Flatcar: 19-48-7836-GSE5PA8 - Revision 1
  - Shiploading: 19-48-7286-GSE18PA8
  
- <7> Radar Set, Off-loaded:
  - European Flatcar: 19-48-7867-GSE5PA14
  - Flatbed or Low-Boy: 19-48-7591-GSE11PA3 - Revision 1
  - Flatcar: 19-48-7831-GSE5PA3
  
- <8> Radar Set, Trailer Mounted:
  - Shiploading: 19-48-7281-GSE18PA3

(PATRIOT continued)

# **Patriot (Cont.)**

## **Ground Support Equipment (Cont.)**

- <1> Semitrailer, Large Repair Parts Transporter, M974:  
European Flatcar: 19-48-7876-GSE5PA23  
Flatbed or Low-Boy: 19-48-7593-GSE11PA5  
Flatcar: 19-48-7833-GSE5PA5  
Shiploading: 19-48-7283-GSE18PA5
  
- <2> Semitrailer, Missile Transporter, M976:  
European Flatcar: 19-48-7871-GSE5PA78  
Flatbed or Low-Boy: 19-48-7592-GSE11PA4  
Shiploading: 19-48-7282-GSE18PA4
  
- <3> Semitrailer, M860A1:  
Flatbed or Low-Boy: 19-48-7596-GSE11PA8  
Flatcar: 19-48-7838-GSE5PA10  
Shiploading: 19-48-7288-GSE18PA10
  
- <4> Shelter Equipment:  
European Flatcar: 19-48-7868-GSE5PA15  
Flatbed or Low-Boy: 19-48-7589-GSE11PA1 - Revision 1  
Flatcar: 19-48-7829-GSE5PA1
  
- <5> Shelters, Mounted on M814 Truck and Shelters, Crated:  
Shiploading: 19-48-7279-GSE18PA1
  
- <6> Truck, Missile Transporter, 10-Ton, M985E1:  
Flatcar: 19-48-7889-GSE5PA24

# **Phoenix** **AIM-54**

## **Ammunition and Related Components**

- <7> Missile, packed in CNU-242/E or CNU-242A/E Container:  
End Opening ISO Container: 19-48-8663-SP15J98  
Side Opening ISO Container: 19-48-8664-SP15J99  
Storage: 19-48-8624-SP1-3-4-14-22J30



# **Sentinel**

## **Ground Support Equipment**

- <1> Antenna Transceiver Group (ATG), AN/MPQ-64, Mounted on a High Mobility Trailer (HMT):  
Flatbed or Low-Boy: 19-48-7615-GSE11SN1

# **Shillelagh**

Ready Reference Chart: DRSMI-SP-1320

## **MGM-51**

## **Ammunition and Related Components**

- <2> Missile Round:  
Boxcar: 19-48-5485-GM5SH1 - Revision 1  
End Opening ISO Container: 19-48-8191-GM15SH2  
MILVAN: 19-48-5931-GM15SH1 - Revision 2  
Side Opening ISO Container: 19-48-8205-GM15SH3  
Storage: 19-48-5221-GM1-14SH1 - Revision 2  
TOFC, Van Trailer, BHD: 19-48-5919-GM15A96  
Tactical Vehicle: 19-48-5902-GM17SH1 - Revision 2  
Unit: 19-48-5225-GM20SH1 - Revision 2  
Van Trailer: 19-48-5906-GM11SH2 - Revision 1
- <3> Retrograde Pallet Box:  
Unit: 19-48-5264/3-GM20MS1

# **Shrike**

## **AGM-45**

### **Ammunition and Related Components**

- <1> Control Section:  
Storage: 19-48-7059/4E-SP1-2-3-4-14-22J17
  
- <2> Control Section, MK5 Mod 3, packed in CNU-246 Container:  
End Opening ISO Container: 19-48-8647-SP15J84
  
- <3> Guidance Section, packed in CNU-247 Container:  
End Opening ISO Container: 19-48-8645-SP15J82  
Storage: 19-48-7059/4B-SP1-2-3-4-14-22J15
  
- <4> Missile, packed in CNU-167 Container:  
Flatbed: MS-1320/165  
End Opening ISO Container: 19-48-8649-SP15J86
  
- <5> Missile, packed in CNU-449 Container:  
Boxcar: 19-48-8564-SP5J12  
End Opening ISO Container: 19-48-8567-SP15J56  
Flatbed: 19-48-7125-SP11J7  
Flatrack ISO Container: 19-48-8569-SP15J58  
MILVAN: 19-48-8566-SP15J55  
Side Opening ISO Container: 19-48-8568-SP15J57  
Storage: 19-48-7124-SP1-2-3-4-14-22J20  
Van Trailer: 19-48-8565-SP11J25
  
- <6> Rocket Motor, MK39, MK53, or MK78 packed in CNU-248 Container:  
End Opening ISO Container: 19-48-8644-SP15J81  
Side Opening ISO Container: 19-48-8650-SP15J90  
Storage: 19-48-7059/4A-SP1-3-4-14-22J14 - Revision 1
  
- <7> Rocket, packed in MK394 Container:  
Storage: 19-48-7059/4D-SP1-2-3-4-14-22PM1
  
- <8> Warhead Section, packed in CNU-245 Container:  
End Opening ISO Container: 19-48-8646-SP15J83  
Storage: 19-48-7059/4C-SP1-3-4-14-22J16 - Revision 1

# **Sidearm**

## **AGM-122**

### **Ammunition and Related Components**

- <1> Missile, packed in CNU-434/E Container:
  - End Opening ISO Container: 19-48-8710-SP15J118
  - Flatbed: MS-1320-247
  - Flatrack Opening ISO Container: 19-48-8714-SP15J121
  - MILVAN: 19-48-8712-SP15J120
  - Side Opening ISO Container: 19-48-8711-SP15J119

# **Sidewinder**

## **AIM-9**

### **Ammunition and Related Components**

- <2> Guidance and Control Section, packed in MK33 Container, Unitized:
  - Storage: 19-48-7059/3D-SP1-2-3-4-14-22PM2
- <3> Missile, AIM-9, packed in CNU-310, CNU-323 and/or CNU-324 Container:
  - Boxcar: 19-48-8556-SP5J10
  - End Opening ISO Container: 19-48-8559-SP15J52
  - Flatbed: 19-48-7097-SP11J4 - Revision 2
  - Flatrack ISO Container: 19-48-7098-SP15J7
  - MILVAN: 19-48-8558-SP15J51
  - Side Opening ISO Container: 19-48-7134-SP15J15
  - Storage: 19-48-7059/3B-SP1-3-4-14-22J11 - Revision 2
  - Van Trailer: 19-48-8557-SP11J23
- <4> Missile, AIM-9X packed in CNU-609 Container:
  - Boxcar: 19-48-8841-SP5J38
  - End Opening ISO Container: 19-48-8844-SP15J166
  - Flatbed: 6214180 – Revision B
  - Flatrack ISO Container: 19-48-8846-SP15J168
  - Fleet Issue Unit Load: 6214173 – Revision B
  - MILVAN: 19-48-8845-SP15J167
  - Side Opening ISO Container: 19-48-8843-SP15J165
  - Storage: 19-48-8847-SP1-3-4-14-22J54
  - Van Trailer: 19-48-8842-SP11J122
- <5> Rocket Motor, MK17 and/or SR-116, packed 1 per Metal Container, Palletized:
  - Storage: 19-48-7059/3C-SP1-3-4-14-22J12
- <6> Rocket Motor, MK17 and/or SR-116, packed 4 per CNU-302 Container:
  - Storage: 19-48-7059/3A-SP1-3-4-14-22J10

# **Sidewinder and Sparrow**

## **AIM-9L and AIM-7F**

### **Ammunition and Related Components**

- <1> Sidewinder Missile in CNU-310 Container and Sparrow Missile in CNU-305 Container:  
Side Opening ISO Container: 19-48-7133-SP15J10

## **Sparrow**

### **AIM-7F**

### **Ammunition and Related Components**

- <2> Guidance and Control Section, packed in AUR-77 Container:  
Storage: 19-48-7059/2G-SP1-2-3-4-14-22J7
- <3> Guidance and Control Section, packed in CNU-185 Container:  
Storage: 19-48-7059/2F-SP1-2-3-4-14-22J6
- <4> Guidance and Control Section, packed in CNU-243 Container:  
Storage: 19-48-7059/2C-SP1-2-3-4-14-22J3
- <5> Missile, packed in CNU-305, CNU-325, CNU-326 and/or CNU-407 Container:  
Boxcar: 19-48-8560-SP5J11  
End Opening ISO Container: 19-48-8510-SP15J23  
Flatbed: 19-48-7094-SP11J3 - Revision 1  
Flatrack ISO Container: 19-48-7095-SP15J6  
MILVAN: 19-48-8562-SP15J53  
Side Opening ISO Container: 19-48-8563-SP15J54  
Storage: 19-48-7059/2A-SP1-3-4-14-22J1 - Revision 2  
Van Trailer: 19-48-8561-SP11J24
- <6> Rocket Motor, MK38 and/or MK52, packed in AUR-75 Container:  
Storage: 19-48-7059/2E-SP1-3-4-14-22J5
- <7> Rocket Motor, MK38 and/or MK52, packed in CNU-186 Container:  
Storage: 19-48-7059/2D-SP1-3-4-14-22J4
- <8> Rocket Motor, MK58, packed in CNU-244 Container:  
Storage: 19-48-7059/2B-SP1-3-4-14-22J2
- <9> Warhead, MK38, packed in AUR-76 Container:  
Storage: 19-48-7059/2J-SP1-3-4-14-22J9

(SPARROW continued)

# **Sparrow (Cont.)**

## **Ammunition and Related Components (Cont.)**

- <1> Warhead, MK38, packed in CNU-184 Container:  
Storage: 19-48-7059/2H-SP1-3-4-14-22J8

# **Standard Missile**

## **RIM-66**

## **Ammunition and Related Components**

- <2> Missile, packed in MK372 Container:  
Boxcar: 19-48-8797-SP5J33  
End Opening ISO Container: 19-48-8800-SP15J147  
Flatrack ISO: 19-48-8802-SP15J149  
Flatbed: 7516600 – Revision C  
MILVAN: 19-48-8799-SP15J146  
Side Opening ISO Container: 19-48-8801-SP15J148  
Storage: 19-48-8803-SP1-3-4-14-22J49  
Van Trailer: 19-48-8798-SP11J42

# **Stinger**

## **FIM-92**

## **Ammunition and Related Components**

- <3> Eject Missile, APN 13049350:  
Unit: 19-48-5263-GM20SR5
- <4> Eject Missile, APN 13049395:  
Unit: 19-48-5260-GM20SR4 - Revision 1
- <5> Launch Simulator, Practice, M32:  
Boxcar: 19-48-5515-GM5SR2  
Unit: 19-48-5244-GM20SR3 - Revision 1  
Van Trailer: 19-48-5965-GM11SR2

(STINGER continued)

# **Stinger (Cont.)**

## **Ammunition and Related Components (Cont.)**

### <1> Missile Round:

Aerial Delivery Unit: 19-48-5240-GM20SR2  
Boxcar: 19-48-5514-GM5SR1 - Revision 1  
End Opening ISO Container: 19-48-8188-GM15SR2  
CROP: 19-48-4906/8-CA17Q7  
MILVAN: 19-48-5948-GM15SR1 - Revision 1  
Portable Container: 19-48-5982-GM16SR1  
Side Opening ISO Container: 19-48-8203-GM15SR3  
Storage: 19-48-5238-GM1-14SR1 - Revision 3  
Tactical Vehicle: 19-48-8185-GM17SR1  
Unit: 19-48-5239-GM20SR1 - Revision 2  
Van Trailer: 19-48-5947-GM11SR1 - Revision 1

### <2> Retrograde Stinger Missiles loaded in Pallet Boxes:

Unit: 19-48-5264/7-GM20MS1

# Target Missile And Drones

Ready Reference Chart: DRSMI-SP-1320

## **MQM-33**

### Ammunition and Related Components

<1> Aerial Drone:

"DF" Boxcar: 19-48-5467-GM5A154  
Boxcar: 19-48-5394-GM5A83  
Standard Magazine: 19-48-5179-GM2A15  
TOFC, Flatbed: 19-48-5700-GM15A66  
TOFC, Van Trailer, BHD: 19-48-5701-GM15A67  
Van Trailer: 19-48-5586-GM11A75  
Warehouse: 19-48-5178-GM10A15

<2> Ballistic Aerial Target System (BATS):

Boxcar: 19-48-5497-GM5A175  
MILVAN: 19-48-5943-GM15TD1  
Van Trailer or Flatbed: 19-48-5750-GM11TD3 - Revision 2

<3> Ballistic Aerial Target System (BATS) in 1-Unit, 4-Unit and 8-Unit Packs:

Boxcar: 19-48-5504-GM5TD2  
Flatbed: 19-48-5927-GM11TD2  
Flatcar: 19-48-5503-GM5TD1  
Van Trailer: 19-48-5926-GM11TD1

<4> Booster, Motor Assembly:

Unit: 19-48-5261-GM20TD1 - Revision 1

<5> Radar Reflector Pod, M82:

"DF" Boxcar: 19-48-5456-GM5A143  
Boxcar: 19-48-5399-GM5A86 - Revision 1  
Standard Magazine: 19-48-5182-GM2A16 - Revision 1  
TOFC, Flatbed: 19-48-5702-GM15A68  
TOFC, Van Trailer, BHD: 19-48-5717-GM15A82  
Van Trailer: 19-48-5590-GM11A78  
Warehouse: 19-48-5181-GM10A18 - Revision 1

# **Terminal High Altitude Area Defense Missile**

**THAAD  
MIM-401**

## **Ammunition and Related Components**

- <1> Missile Round packed in Single Missile Round Transport Container (SMRTC):
  - 40' Flatrack ISO Container: 19-48-8237-GM15TH1
  - 40' Side Opening ISO Container: 19-48-8239-GM15TH3
  - Earth Covered Magazine Storage (Guam only): 19-48-5282-GM3TH1
  - Flatbed: 19-48-8233-GM11TH1 - Revision 1
  - Flatbed with ISO locks: 19-48-8234-GM11TH2
  - Storage: 19-48-5277-GM1-3-4-14-22TH2
  - Stradley Storage (ADMC only): 19-48-5280-GM14TH1
  
- <2> Missile Round packed in Missile Round Container (MR):
  - Flatbed Trailer (on-post movement): 19-48-8236-GM11TH3
  - Stradley Storage: 19-48-5279-GM14TH3 – Revision 1
  
- <3> Missile Round on Missile Round Pallet - Transportable (MRP-T):
  - Flatbed: 19-48-8248-GM11TH4
  - Lowboy: 19-48-8249-GM11TH5
  - Tactical Vehicle: 19-48-8250-GM17TH2 – Revision 1

# **Tri-Service Standoff Attack Missile**

## **TSSAM**

## **Ammunition and Related Components**

- <4> Missile, packed in the CNU-446 Container:
  - Boxcar: 19-48-8588-SP5J15
  - End Opening ISO Container: 19-48-8592-SP15J71
  - Flatbed Trailer: 19-48-8590-SP11J32
  - Flatrack ISO Container: 19-48-8594-SP15J73
  - MILVAN: 19-48-8591-SP15J70
  - Side Opening ISO Container: 19-48-8593-SP15J72
  - Van Trailer: 19-48-8589-SP11J31



# Tube-Launched Optically-Tracked Wire-Guided Missile

## **TOW**

Ready Reference Chart: DRSMI-SP-1320

## **BGM-71**

### **Ammunition and Related Components**

- <1> Missile Round packed in CNU-553 Container:
  - Boxcar: 19-48-8210-GM5TO2
  - End Opening ISO Container: 19-48-8211-GM15TO5
  - MILVAN: 19-48-8213-GM15TO7
  - Side Opening ISO Container: 19-48-8212-GM15TO6
  - Storage: 19-48-5269-GM1-3-4-14-22TO2
  - Tactical Vehicle: 19-48-8214-GM17TO2
  - Unit: 19-48-5268-GM20TO2
  - Van Trailer: 19-48-8215-GM11TO3
  
- <2> Missile Round packed in Wirebound Wooden Box:
  - Boxcar: 19-48-5489-GM5TO1 - Revision 3
  - CROP: 19-48-4905/20-CA17Q6
  - End Opening ISO Container: 19-48-8192-GM15TO3
  - MILVAN: 19-48-5933-GM15TO1 - Revision 3
  - Side Opening ISO Container: 19-48-8206-GM15TO4
  - Storage: 19-48-5230-GM1-3-4-14-22TO1 - Revision 4
  - TOFC, Van Trailer, BHD: 19-48-5746-GM15TO2 - Revision 2
  - Tactical Vehicle: 19-48-8186-GM17TO1
  - Unit: 19-48-5229-GM20TO1 - Revision 7
  - Van Trailer: 19-48-5912-GM11TO2 - Revision 3
  
- <3> Retrograde TOW Missiles loaded in Pallet Boxes:
  - Unit: 19-48-5264/6-GM20MS1
  
- <4> Strategic Configured Loads - TOW:
  - CROP: 19-48-4905/51-CA17Q6

### **Ground Support Equipment**

- <5> Contact Shop Set:
  - Flatbed or Low-Boy: 19-48-7534-GSE11TO1
  - Flatcar: 19-48-7067-GSE5TO2

(TOW continued)

# **TOW (Cont.)**

## **Ground Support Equipment (Cont.)**

<1> Improved Contact Support Set:

Flatbed or Low-Boy: 19-48-7611-GSE11TO3

Flatcar: 19-48-7886-GSE5TO3

Shiploading: 19-48-7304-GSE18TO1

<2> Launcher Equipment:

Boxcar: 19-48-7175-GSE5TO1

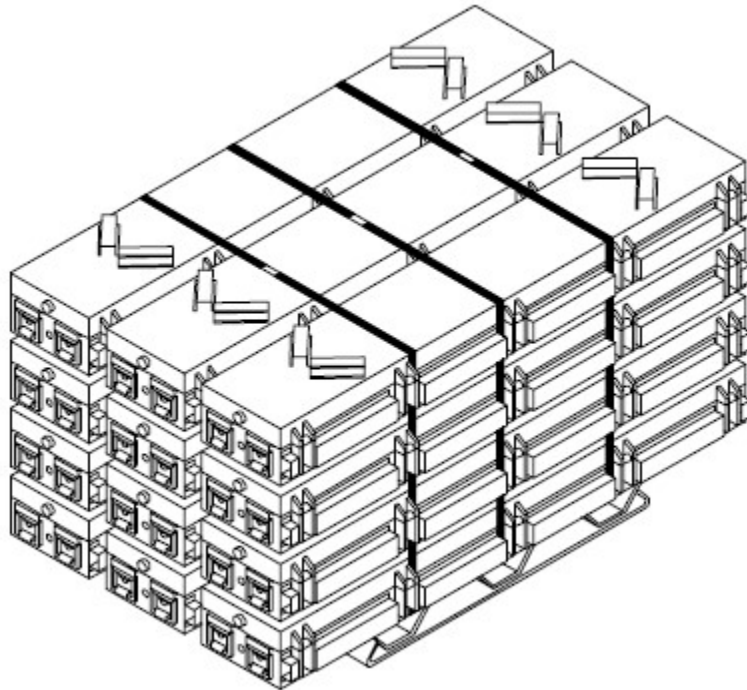
Unit: 19-48-5211-GSE20M2 - Revision 2

Van Trailer or Flatbed: 19-48-7557-GSE11TO2 - Revision 1

Warehouse: 19-48-5212-GSE10A26

# Chapter 3

## Chemical Ammunition



Note: The following symbol is valid throughout this chapter:

^ = These drawings are appendices to a basic unitization drawing. For a list of related storage and transportation drawings, see index numbers 2 and 10 on page 1-2, 1 on page 1-3, 3 and 4 on page 1-4, 9 on page 1-22, and 1 on page 1-33, as applicable.

# General Chemical Ammunition & Items

- <1> 1-Ton Container and Mixed Loads of Chemical Ammunition:  
Van Trailer: 19-48-4608-CB11M9  
Van Trailer (Mech): 19-48-4605-11M7
- <2> 5x25 Inch Single Round Container (SRC):  
Storage: 19-48-4543-CB1-14-22PM1  
Unit: 19-48-4542-CB20PM3  
Unit: DA-117/1
- <3> 5.4x36 Inch Retrofit M55 Single Round Container (SRC):  
Unit: DA-117/7
- <4> 7x27 Inch Single Round Container (SRC):  
Unit: DA-117/2
- <5> 9x41 Inch Single Round Container (SRC):  
Unit: DA-117/3
- <6> 10x96 Inch Single Round Container (SRC):  
Unit: DA-117/4
- <7> 12x56 Inch Non-Standard Single Round Container (SRC):  
Unit: DA-117/6
- <8> 12x56 Inch Standard Single Round Container (SRC):  
Unit: DA-117/5
- <9> Agent, Decontaminating, DS2:  
^Unit: 19-48-4116/162-20PA1002 - Revision 1  
^Unit: 19-48-4116/162A-20PA1002 - Revision 1
- <10> Alarm Unit, Chemical Agent, Automatic, M42:  
^Unit: 19-48-4116/171B-20PA1002 - Revision 1
- <11> Alarm, Chemical Agent, Automatic, Portable, M8A1:  
^Unit: 19-48-4116/171-20PA1002 - Revision 1
- <12> Chemical Munitions on M127 Flatbed Trailers:  
Tactical Vehicle: D-AMXSV 4192

(General Chemical Ammunition continued)

## **General Chemical Ammo (Cont.)**

- <1> Chemical Stockpile Reliability Program Samples and/or Leakers:  
Storage: 19-48-4515-CB1-14-22P4 - Revision 6
- <2> Detector Unit, Chemical Agent, Automatic, Alarm, M43A1:  
^Unit: 19-48-4116/171A-20PA1002 - Revision 1
- <3> M55 Rockets, M23 Mines, and Miscellaneous Items of Chemical Ammunition:  
Van Trailer: 19-48-4607-CB11M8
- <4> Mask, Chemical-Biological, Protective:  
^Unit: 19-48-4116/172-20PA1002 - Revision 1
- <5> Secondary Steel Container:  
MILVAN: DA-101
- <6> SRCX Overpack:  
Unit: 19-48-4540-CB20PM2

## **Ammunition from 75MM thru 125MM**

- <7> Cartridge, 105MM, Chemical:  
Storage: 19-48-4513-CB1-14-22P2 - Revision 1  
Storage: 19-48-4514-CB1-14-22PA1 - Revision 2  
Warehouse: 19-48-4516-CB10P1
- <8> Cartridge, 105MM, Gas, M360 (GB):  
Unit: 19-48-4531-CB20PA5 - Revision 1
- <9> Cartridge, 4.2", Chemical:  
Storage: 19-48-4509-CB1-14-22PA2 - Revision 1
- <10> Projectile, 105MM and 4.2", Chemical Filled:  
Storage: 19-48-4539-CB1-14PE2  
Storage: 19-48-4539/1-CB1-14PE2  
Unit: 19-48-4538-CB20PE1 - Revision 1  
Unit: 19-48-4538/1-CB20PE1

## **Ammunition over 125MM**

- <1> 155MM Single Round Container:  
MILVAN: DA-102
- <2> 8" and 155MM Separate Loading Projectiles in Secondary Steel Containers:  
Overpack: DA-100 - Revision 2
- <3> 8" and 155MM Single Round Containers in Secondary Steel Containers:  
Overpack: DA-107
- <4> 8" Single Round Container:  
MILVAN: DA-103
- <5> Canister, DF, for M687 155MM Projectile:  
Storage: 19-48-4527-CB1-3-4-14-22PA1  
Unit: 19-48-4523-CB20PA1 - Revision 2
- <6> Canister, OPA, for M687 155MM Projectile:  
Storage: 19-48-4528-CB1-3-4-14-22PA2  
Unit: 19-48-4524-CB20PA2 - Revision 2
- <7> Projectile, 155MM or 8", with GB, VX or H Filler:  
Storage: 19-48-4041-CB1-14-22PE1 - Revision 2
- <8> Projectile, 155MM, GB2, M687:  
Boxcar: 19-48-4560-CB5PE1  
Storage: 19-48-4522-CB1-3-4-14-22PE1  
Tactical Vehicle: 19-48-4570-CB17PE1 - Revision 1  
Van Trailer: 19-48-4611-CB11PE1

## **Bombs**

- <9> Ballonet, MXU-695B (Bigeye), packed in CNU-388A/E Container:  
Boxcar: 19-48-4574-CB5PM1  
Storage: 19-48-4534-CB1-3-4-14-22PM1  
Tactical Vehicle: 19-48-4575-CB17PM1  
Van Trailer: 19-48-4573-CB11PM2
- <10> Bomb Body, BLU-80/B (Bigeye), packed in CNU-396/E Container:  
Boxcar: 19-48-4572-CB5J1  
Storage: 19-48-4533-CB1-3-4-14-22J2  
Tactical Vehicle: 19-48-4576-CB17J1  
Van Trailer: 19-48-4571-CB11J2

(Bombs continued)

# **Bombs (Cont.)**

- <1> Bomb, Cluster, Incendiary, BZ, M43 Series:
  - Boxcar: 19-48-4558-CB5B1
  - Igloo/Arch Type Magazine: 19-48-4502-CB1B1
  - Storage: 19-48-4510-CB1-14-22CB1
  - Van Trailer: 19-48-4602-CB11B2
  
- <2> Bomb, Cluster, Incendiary, TH-3, M36 Series:
  - Boxcar: 19-48-4557-CB5PB2
  - Storage: 19-48-4501-CB1-14PB1
  - Van Trailer: 19-48-4601-CB11PB1
  
- <3> Bomb, Fire, BLU-27 and/or BLU-32:
  - Boxcar: 19-48-4556-5CB3
  - Flatbed: 19-48-4555-11CB3
  - Storage: 19-48-4554-CB1-14M2
  
- <4> Bomb, GB, 500 Lb, MK94 Mod 0, packed in MK410 Series Container:
  - Storage: 19-48-4511-CB1-14-22B3
  
- <5> Bomb, GB, 500 Lb, MK94 Mod 0, Wood Pallet:
  - Storage: 19-48-4537-CB1-14PB4
  - Unit: 19-48-4536-CB20PB3
  
- <6> Bomb, GB, MC-1:
  - Boxcar: 19-48-4552-CB5P1
  - Flatbed: 19-48-4260-11PB1002 - Revision 1
  - Storage: 19-48-4500-CB1-14-22PB2 - Revision 3
  - Van Trailer: 19-48-4062-11PB1000 - Revision 3
  
- <7> Bomb, GB, MK116 (Weteye), packed in MK398 Series Container:
  - Low-Boy: 19-48-4610-CB11B4
  - Storage: 19-48-4512-CB1-14-22B2
  - Van Trailer: 19-48-4609-CB11B3
  
- <8> Cluster Generator, M44 Series:
  - Boxcar: 19-48-4559-CB5A1
  - Igloo/Arch Type Magazine: 19-48-4503-CB1C1
  - Van Trailer: 19-48-4603-CB11A2

# Rockets and Components

- <1> Injector Assembly Container (IAC) for the MLRS-Binary Chemical Warhead:  
Boxcar: 19-48-4564-CB5J3  
MILVAN: 19-48-4566-CB15J2  
Storage: 19-48-4526-CB1-3-4-14-22J4  
Tactical Vehicle: 19-48-4562-CB17J3
  
- <2> M55 115MM Rocket, packed in Single Round Container (SRC):  
Unit: 19-48-4577-CB20PM1  
MILVAN: DA-104
  
- <3> Rocket, GB or VX, 115MM, M55:  
Boxcar: 19-48-4038-5P1000  
Storage: 19-48-4039-CB1-14-22P3 - Revision 1
  
- <4> Rocket Motor, M67:  
Unit: 19-48-4579-CB20P1 – Revision 2
  
- <5> Rocket Pod w/o Injector (RP) for the MLRS-Binary Chemical Warhead:  
Boxcar: 19-48-4563-CB5J2  
MILVAN: 19-48-4565-CB15J1  
Storage: 19-48-4525-CB1-3-4-14-22J3  
Tactical Vehicle: 19-48-4561-CB17J2

# Land Mines

- <6> Mine, VX, M23:  
Boxcar: 19-48-4040-5PF1000  
Boxcar: 19-48-4551-CB5C1 - Revision 1  
Storage: 19-48-4043-CB1-14-22C2 - Revision 3  
Unit: 19-48-4520-CB20PF1



# Military Chemical Agents

- <1> 1-Ton Container (Filled):
  - Flatbed: 19-48-4615-CB11M11
  - Outdoor Storage: 19-48-4507-CB21M10 - Revision 2
  - Storage: 19-48-4504-CB1-14M3 - Revision 1
  - Unit: 19-48-4616-CB20M1
  - Van Trailer: 19-48-4604-11M6
  - Van Trailer: 19-48-4614-CB11M10
  - Warehouse: 19-48-4508-CB10M11 - Revision 1
  - Warehouse: 19-48-4518-CB10M12
  - Warehouse: 19-48-4521-CB10M13
  
- <2> 1-Ton Container (Filled) and TMU-28/B Spray Tank in CNU-77/E23 and/or CNU-89/E:
  - Storage: 19-48-4506-CB1-14M4
  
- <3> Chemical Agent Identification Training Set:
  - Unit: 19-48-4568-20PM1000
  
- <4> Chemical Agents, packed in DOT 3A Steel Shipping Bottles:
  - Unit: 19-48-4569-20PM1001
  - Van Trailer: 19-48-4613-CB11PM1
  
- <5> Dry CS-1 and CS-2 packed in 55-Gallon Drums:
  - MILVAN: 19-48-4029-11-15F1001
  
- <6> TMU-28/B Spray Tank, packed in CNU-77/E23 and/or CNU-89/E Container:
  - Flatbed: 19-48-4606-CB11J1
  - Flatcar: 19-48-4553-CB5M1
  - Flatcar: 19-48-4556-CB5M2
  - Storage: 19-48-4505-CB1-2-14-22J1 - Revision 1
  - Warehouse: 19-48-4519-CB10J1



# Chapter 4

## Miscellaneous Ammunition-Related Items



Note: The following symbol is valid throughout this chapter:

^ = These drawings are appendices to a basic unitization drawing. For a list of related storage and transportation drawings, see index numbers 2 and 10 on page 1-2, 1 on page 1-3, 3 and 4 on page 1-4, 9 on page 1-22, and 1 on page 1-33, as applicable.

# Miscellaneous Items

- <1> 105MM Howitzer, M119:  
45' ISO Container: 19-48-8105-15WE1
- <2> 105MM Howitzer, XM204:  
Flatbed or Low-Boy: 19-48-8101-11WE1  
Flatcar: 19-48-8100-5WE1
- <3> 155MM Howitzer, M198:  
Flatbed or Low-Boy: 19-48-8103-11WE2 - Revision 2  
Flatcar: 19-48-8102-5WE2 - Revision 1
- <4> Adapter Kit, 5-ton Dump, FMTV:  
^Unit: 19-48-4116/173-20PA1002
- <5> Aft End Load Restraint:  
End Opening ISO Container: DA-116
- <6> Aft End Load Restraint of Boxed Ammunition on Pallets and Skids Using  
TyGard Restraint Material:  
End Opening ISO Container: 19-48-4372-15PA1015
- <7> Attachment of Strap Cutter to Unit Loads of Ammunition:  
Unit: 19-48-4127-20P1000 - Revision 2
- <8> Chemical Agent Resistant Coating (CARC) Finishing Requirements for Metal  
Pallets and/or Adapters:  
Materials Handling: AC200000423 – Revision K
- <9> Container, M621, Empty and Separator:  
^Unit: 19-48-4116/175-20PA1002
- <10> Drain Hole Installation:  
Half-High ISO Container: DA-113
- <11> Empty 20-foot Intermodal Freight Containers:  
Flatcar and Gondola: 19-48-7056-SP5H2
- <12> General Welding Procedures:  
Materials Handling: ACV00515
- <13> Heat Treatment of Wooden Pallets, Skids, Filler Assemblies, and Dunnage As-  
semblies:  
Materials Handling: ACV00831

(Miscellaneous Items continued)

## **Miscellaneous Items (Cont.)**

- <1> Loading Ramp for Intermodal Freight Container  
Materials Handling: C-SARAC 4096
- <2> Loading Ramp for CROP Loading/Unloading into Intermodal Freight Container:  
Materials Handling (Steel or Aluminum): ACV00632  
Materials Handling (Wood): ACV00628
- <3> Loose Projectile Restraint System, Rack, Ammunition, 15 Round Assembly:  
COAI: AC200000400
- <4> Metal Box, M2A1, Empty:  
^Unit: 19-48-4116/170-20PA1002 - Revision 1
- <5> MILVAN (ISO Container) Repair and Inspection Stand:  
Materials Handling: AC200000210 – Revision A
- <6> Naval Otto Fuel II in 55 Gallon Polyethylene Drums:  
Unitization: 19-48-4367-20PK1000
- <7> Naval Otto Fuel II in Intermediate Bulk Container 550 Gallon Storage Tanks:  
End Opening ISO Container: 19-48-4366-15J1011
- <8> Overhead Protection for ISO Containers:  
Materials Handling: ACV00846
- <9> Radioactive Yellow-II Label Placement:  
Materials Handling: ACV00832 - Revision A
- <10> Railroad Terminology for Preparing Report of Damaged or Improper Shipment:  
Boxcar: 19-48-2463-5C88
- <11> Sealless Combination Tool for 3/4" Steel Strapping:  
Materials Handling: ACV00617 - Revision D
- <12> Securement of Empty or Loaded MILVAN Containers:  
Flatbed or Low-Boy: 19-48-5962-GM11MS1 - Revision 1
- <13> Type 1 (1/2 Size) & Type 2 (Standard) Cargo Transporters ("Via Conex"):  
Gondola: 19-48-7018-SP5H1
- <14> Unit Load Marking for Shipment and Storage, Ammunition and Explosives:  
Materials Handling: ACV00561 – Revision G

(Miscellaneous Items continued)

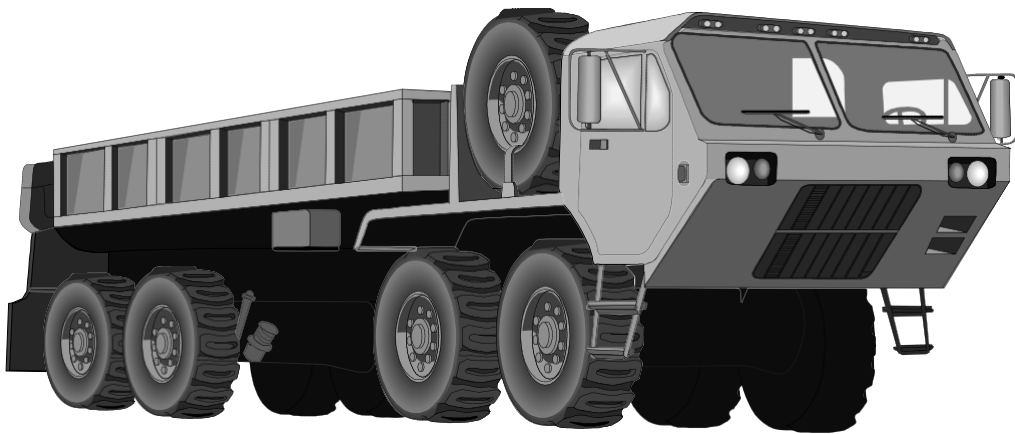
## **Miscellaneous Items (Cont.)**

- <1> Universal Load Retainer:  
Materials Handling: ACV00682
  
- <2> Wire Rope and Annealed Wire Application Methods for Securing Lading on Rail  
and Motor Carrier Equipment:  
Materials Handling: C-ORDJU 588

# Chapter 5

## Tactical Vehicle Reference

These drawings are also listed within Chapters 1 thru 4. This chapter is provided as a guide, listing all the tactical vehicle drawings in one chapter.



# Tactical Vehicles

- <1> Apache Helicopter Ammo for the Modular Aviation Resupply/Rearm System (MARRS):  
Tactical Vehicle: DA-115
- <2> Ballonet, MXU-695B (Bigeye), packed in CNU-388A/E Container:  
Tactical Vehicle: 19-48-4575-CB17PM1
- <3> Bomb Body, BLU-80/B (Bigeye), packed in CNU-396/E Container:  
Tactical Vehicle: 19-48-4576-CB17J1
- <4> Boxed Ammunition and Components on M998 HMMWV for Military Air Deployment:  
Tactical Vehicle: 19-48-4902-CA17Q3
- <5> Boxed Ammunition and Components (Palletized and Unpalletized):  
Tactical Vehicle: 19-48-4901/4-CA17Q2
- <6> Boxed Ammunition and Components on Wooden Pallets and Skidded Bases:  
CROP (2 Chimneys+1 Crosswise x 1H): 19-48-4906/50-CA17Q7  
CROP (2 Chimneys+1 Crosswise x 2H): 19-48-4906/51-CA17Q7  
CROP (2 Chimneys+2 Crosswise x 1H): 19-48-4906/52-CA17Q7  
CROP (2L x 2W + 1 Crosswise x 2H): 19-48-4906/7-CA17Q7  
CROP (2 Unique Pallet Units - 2 Chimneys + 2 Crosswise x 2H): 19-48-4906/113-CA17Q7  
CROP (2 Unique Pallet Units - 2 Chimneys x 2H+2 Crosswise x 1H): 19-48-4906/108-CA17Q7  
CROP (2 Unique Pallet Units - 4L x 1W x 1H + 4L x 1W x 1H): 19-48-4906/105-CA17Q7  
CROP (3L x 2W x 1H): 19-48-4906/3-CA17Q7  
CROP (3L x 2W + 1 Crosswise x 1H): 19-48-4906/4-CA17Q7  
CROP (3L x 2W + 1 Crosswise x 2H): 19-48-4906/5-CA17Q7  
CROP (3 Unique Units - 1Lx2W + 1 Chimney + 1L x 2W x 1H): 19-48-4906/106-CA17Q7  
CROP (3 Unique Pallet Units - 2L x 3W x 1H + 1L x 2W x 1H): 19-48-4906/103-CA17Q7  
CROP (4L x 2W x 1H): 19-48-4906/1-CA17Q7  
CROP (4L x 2W x 2H): 19-48-4906/2-CA17Q7  
CROP (4L x 2W x 2H + 4 - 3rd Layer): 19-48-4906/6-CA17Q7  
CROP (4L x 3W + 2 Crosswise x 2H): 19-48-4906/40-CA17Q7  
CROP (5L x 2W x 2H): 19-48-4906/41-CA17Q7  
CROP (4 Unique Pallet Units - 4 L x 2W x 1H +1L x 2W x 1H): 19-48-4906/107-CA17Q7  
CROP (5 Unique Pallet Units - 2 L x 2W x 1H +1L x 2W x 1H + 1L x 2W x 2H): 19-48-4906/109-CA17Q7
- <7> Cargo Box Conversion for M796 Bolster Trailer  
Tactical Vehicle: D-SMCAC 4501
- <8> Chemical Munitions on M127 Flatbed Trailers:  
Tactical Vehicle: D-AMXSV 4192
- <9> Complete Rounds packed in Cylindrical Metal Containers on Wooden Pallets:  
Tactical Vehicle: 19-48-4901/3-CA17Q2 – Revision 1
- <10> Console, Assault Fire Command, AN/TSM-4 - HAWK:  
Tactical Vehicle: 19-48-7511-GSE17HA2

(Tactical Vehicles continued)



## **Tactical Vehicles (Cont.)**

- <1> Control Box, AN/GSA-50 - HAWK:  
Tactical Vehicle: 19-48-7512-GSE17HA3
- <2> Conventional Ammo Items on PLS Flatracks for Rapid Deployment by Rail and Ship:  
Tactical Vehicle: DA-114
- <3> Conventional Ammunition and Missiles – Basic Procedures:  
CROP: 19-48-4906-CA17Q7
- <4> Conventional Ammunition for Rapid Deployment by Rail and Ship (Unit Basic Load):  
Tactical Vehicle: DA-106
- <5> Conventional Ammunition Items:  
Tactical Vehicle: 19-48-4900-CA17Q1 – Revision 2
- <6> Conventional Ammunition Items on Air Drop Pallets:  
Tactical/Van Trailer: DA-110
- <7> Conventional Ammunition Items on the PLS Flatrack for on/off Highway:  
Tactical Vehicle: 19-48-4903-CA17Q4
- <8> Cylindrical Metal Containers on Wooden and Metal Pallets:  
CROP (5L x 2W x 1H - PA116): 19-48-4906/25-CA17Q7
- <9> Guided Missile Ammunition and/or Components:  
Tactical Vehicle - PLS: 19-48-8217-GM17MS12
- <10> Injector Assembly Container (IAC) for the MLRS-Binary Chemical Warhead (MLRS/BCW):  
Tactical Vehicle: 19-48-4562-CB17J3
- <11> Loader Transporter, M501E3 - HAWK:  
Tactical Vehicle: 19-48-7522-GSE17HA6
- <12> Main Assemblage, M5 and/or M6 (Inert), packed in M599 Container - LANCE:  
Tactical Vehicle: 19-48-5747-GM17LC1 - Revision 8
- <13> Missile and Launcher, M222 or M223 - DRAGON:  
Tactical Vehicle: 19-48-5992-GM17DR1  
CROP: 19-48-4905/21-CA17Q6
- <14> Missile in M430 or M611 Container and/or Empty Container M430 or M611 - HAWK:  
Tactical Vehicle: 19-48-5901-GM17A15 - Revision 2

(Tactical Vehicles continued)

## Tactical Vehicles (Cont.)

- <1> Missile Round - HELLFIRE:  
CROP: 19-48-4906/9-CA17Q7  
CROP (Longbow): 19-48-4906/10-CA17Q7  
CROP (Modified Pallet Unit): 19-48-4906/104-CA17Q7  
Tactical Vehicle: 19-48-8151-GM17HF1 – Revision 1
- <2> Missile Round - PATRIOT:  
Tactical Vehicle: 19-48-5978-GM17PA1 - Revision 1
- <3> Missile Round - SHILLELAGH:  
Tactical Vehicle: 19-48-5902-GM17SH1 - Revision 2
- <4> Missile Round - STINGER:  
CROP: 19-48-4906/8-CA17Q7  
Tactical Vehicle: 19-48-8185-GM17SR1
- <5> Missile Round on Missile Round Pallet – Transportable (MRP - T) - THAAD:  
Tactical Vehicle: 19-48-8250-GM17TH2 – Revision 1
- <6> Missile Round packed in CNU-553/E Container - TOW:  
Tactical Vehicle: 19-48-8214-GM17TO2
- <7> Missile Round packed in Cylindrical Metal Containers - JAVELIN:  
Tactical Vehicle: 19-48-5990-GM17JV1
- <8> Missile Round packed in Cylindrical Plastic Containers - JAVELIN:  
CROP: 19-48-4906/11-CA17Q6  
Tactical Vehicle: 19-48-8218-GM17JV1
- <9> Missile Round packed in Wirebound Wooden Box - TOW:  
CROP: 19-48-4905/20-CA17Q6  
Tactical Vehicle: 19-48-8186-GM17TO1
- <10> Missile Round, Unpalletized - CHAPARRAL:  
Tactical Vehicle: 19-48-5917-GM15K1
- <11> Missile/Launch Pod Assembly - ATACMS:  
CROP: 19-48-4905/24-CA17Q6 - Revision 1  
Tactical Vehicle: 19-48-5991-GM17AT1
- <12> Mobile Team Transit Case - HAWK:  
Tactical Vehicle: 19-48-7559-GSE17HA7
- <13> Mobility Kit, Launcher, M234 - LANCE:  
Tactical Vehicle: 19-48-7597-GSE17LC1 – Revision 1
- <14> Pre-Rigged 463L Pallets  
Tactical Vehicle: D-SMCAC 4502

(Tactical Vehicles continued)

## **Tactical Vehicles (Cont.)**

- <1> Projectile, 155MM, GB2, M687:  
Tactical Vehicle: 19-48-4570-CB17PE1 - Revision 1
- <2> Propelling Charge, 155MM, Combined Load, M119 WB, in PA37 and M4, WB, in M13:  
CROP: 19-48-4906/100-CA17Q7
- <3> Propelling Charge, 155MM, Combination Load, M203A1, RB, in PA103 M3 GB, M14:  
CROP: 19-48-4906/101-CA17Q7
- <4> Propelling Charges packed in Cylindrical Metal Containers on Wooden Pallets:  
Tactical Vehicle: 19-48-4901/2-CA17Q2
- <5> Radar Set, AN/MPQ-35 and/or AN/MPQ-50 - HAWK:  
Tactical Vehicle: 19-48-7513-GSE17HA4 - Revision 1
- <6> Rocket Motor, M22E8 and/or M112 - HAWK:  
Tactical Vehicle: 19-48-5939-GM17HA1
- <7> Rocket Pod w/o Injector (RP(-)) for the MLRS-Binary Chemical Warhead (MLRS/BCW):  
Tactical Vehicle: 19-48-4561-CB17J2
- <8> Rocket Pod Containers (RP/C) – MLRS/GMLRS:  
PLS Flatrack (M1): 19-48-4905/10-CA17Q6  
CROP: 19-48-4905/10A-CA17Q6  
Tactical Vehicle: 19-48-8152-GM17RS1 - Revision 2
- <9> Separate Loading Projectiles:  
CROP: 19-48-4906/102-CA17Q7  
Tactical Vehicle: 19-48-4901/1-CA17Q2
- <10> Shop Equipment – LAND COMBAT SUPPORT SYSTEM:  
Tactical Vehicle: 19-48-7551-GSE17LS4
- <11> Shop Equipment, AN/TSM-95 and/or AN/TSM-96 - CHAPARRAL:  
Tactical Vehicle: 19-48-7562-GSE17CH1
- <12> Shop Equipment, BCC and Simulator Station, AN/TSM-44 and/or AN/TSM-112 - HAWK:  
Tactical Vehicle: 19-48-7508-GSE17HA1 - Revision 1  
Tactical Vehicle: 19-48-7514-GSE17HA5 - Revision 1
- <13> Strategic Configured Load (SCL) - Basic Procedures:  
CROP: 19-48-4905-CA17Q6

(Tactical Vehicles continued)

## Tactical Vehicles (Cont.)

- <1> Strategic Configured Load #2 - 120MM HEAT-MP-T M830E1 and APFSDS-T M829A2:  
CROP: 19-48-4905/2-CA17Q6
- <2> Strategic Configured Load #4 - MICLIC M58A4:  
CROP: 19-48-4905/4-CA17Q6
- <3> Strategic Configured Load #6 - Volcano Mine Canister HE M87:  
CROP: 19-48-4905/6-CA17Q6
- <4> Strategic Configured Load #7 - 155MM HEDP ICM M483A1:  
CROP (LHS): 19-48-4905/7A-CA17Q6  
CROP (LHS w/o fuzes): 19-48-4905/7B-CA17Q6
- <5> Strategic Configured Load #8 - 155MM DPICM ER M864:  
CROP (PLS): 19-48-4905/8-CA17Q6  
CROP (LHS): 19-48-4905/8A-CA17Q6
- <6> Strategic Configured Load #11 - Small Arms General Purpose:  
CROP: 19-48-4905/11-CA17Q6
- <7> Strategic Configured Load #13 - Apache:  
CROP: 19-48-4905/13-CA17Q6
- <8> Strategic Configured Load #16 - 40MM HEDP M430:  
CROP (metal pallet): 19-48-4905/16A-CA17Q6  
CROP (wood pallet): 19-48-4905/16B-CA17Q6
- <9> Strategic Configured Load #17 - Bradley:  
CROP: 19-48-4905/17-CA17Q6
- <10> Strategic Configured Load #18 - 120MM APFSDS-T M829A2:  
CROP: 19-48-4905/18-CA17Q6
- <11> Strategic Configured Load #19 - 120MM HEAT-MP-T M830E1:  
CROP: 19-48-4905/19-CA17Q6
- <12> Strategic Configured Load #23 - 155MM HE AP-ER M483A1:  
CROP: 19-48-4905/23-CA17Q6
- <13> Strategic Configured Load #30 - Counter-Mobility/Demolition:  
CROP: 19-48-4905/30-CA17Q6
- <14> Strategic Configured Load #32 - 155MM ADAM-L M692:  
CROP (PLS): 19-48-4905/32-CA17Q6  
CROP (LHS): 19-48-4905/32A-CA17Q6

(Tactical Vehicles continued)

## Tactical Vehicles (Cont.)

- <1> Strategic Configured Load #33 - 155MM ADAM-S M731:  
CROP (PLS): 19-48-4905/33-CA17Q6  
CROP (LHS): 19-48-4905/33A-CA17Q6
- <2> Strategic Configured Load #34 - 155MM RAAM-S M741A1:  
CROP (PLS): 19-48-4905/34-CA17Q6  
CROP (LHS): 19-48-4905/34A-CA17Q6  
CROP (LHS w/o fuzes): 19-48-4905/34B-CA17Q6
- <3> Strategic Configured Load #35 - 155MM RAAM-L M718A1:  
CROP (PLS): 19-48-4905/35-CA17Q6  
CROP (LHS): 19-48-4905/35A-CA17Q6  
CROP (LHS w/o fuzes): 19-48-4905/35B-CA17Q6
- <4> Strategic Configured Load #36 - 155MM HERA M549A1:  
CROP (PLS): 19-48-4905/36-CA17Q6  
CROP (LHS): 19-48-4905/36A-CA17Q6  
CROP (LHS w/o fuzes): 19-48-4905/36B-CA17Q6
- <5> Strategic Configured Load #37 - 155MM HE M107:  
CROP (PLS): 19-48-4905/37-CA17Q6  
CROP (LHS): 19-48-4905/37A-CA17Q6  
CROP (SBCT): 19-48-4905/37B-CA17Q6  
CROP (LHS w/o fuzes): 19-48-4905/37C-CA17Q6
- <6> Strategic Configured Load #38 - 155MM ILLUM M485A2:  
CROP (PLS): 19-48-4905/38-CA17Q6  
CROP (LHS): 19-48-4905/38A-CA17Q6
- <7> Strategic Configured Load #39 - 155MM Copperhead:  
CROP: 19-48-4905/39-CA17Q6 – Revision 1
- <8> Strategic Configured Load #41 - 120MM HE M934:  
CROP: 19-48-4905/41-CA17Q6
- <9> Strategic Configured Load #42 - 81MM HE Smoke and Illuminating:  
CROP: 19-48-4905/42-CA17Q6
- <10> Strategic Configured Load #44 - 105MM Smoke WP M60A2:  
CROP (PLS): 19-48-4905/44-CA17Q6  
CROP (LHS): 19-48-4905/44A-CA17Q6
- <11> Strategic Configured Load #45 - 105MM Illuminating:  
CROP (PLS): 19-48-4905/45-CA17Q6  
CROP (LHS): 19-48-4905/45A-CA17Q6

(Tactical Vehicles continued)

## **Tactical Vehicles (Cont.)**

- <1> Strategic Configured Load #46 - 105MM HE M1:  
CROP (PLS): 19-48-4905/46-CA17Q6  
CROP (LHS): 19-48-4905/46A-CA17Q6
  
- <2> Strategic Configured Load #47 - 105MM HE M760:  
CROP (PLS): 19-48-4905/47-CA17Q6  
CROP (LHS): 19-48-4905/47A-CA17Q6
  
- <3> Strategic Configured Load #48 - 105MM HERA M913:  
CROP (PLS): 19-48-4905/48-CA17Q6  
CROP (LHS): 19-48-4905/48A-CA17Q6
  
- <4> Strategic Configured Load #49 - Kiowa:  
CROP: 19-48-4905/49-CA17Q6
  
- <5> Strategic Configured Load #50 - 155MM HE M795:  
CROP (PLS): 19-48-4905/50-CA17Q6  
CROP (LHS): 19-48-4905/50A-CA17Q6
  
- <6> Strategic Configured Load #51 - HMMWV TOW:  
CROP: 19-48-4905/51-CA17Q6
  
- <7> Strategic Configured Load #52 - 155MM HE-ER M982 EXCALIBUR:  
CROP: 19-48-4905/52-CA17Q6
  
- <8> Test Station – LAND COMBAT SUPPORT SYSTEM:  
Tactical Vehicle: 19-48-7550-GSE17LS3
  
- <9> Unit Basic Load:  
Tactical Vehicle: 19-48-4901/5-CA17Q2

# **Chapter 6**

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