



Interpret Munitions Markings TLO



Action:	Identify selected munitions and packaging containers, interpret and identify munitions markings on boxed and palletized munitions.
Conditions:	Given instruction in a contemporary operating environment (COE), applicable references and practical exercise worksheet.
Standards:	Soldiers must correctly answer seventy percent of all questions contained in the practical exercise.

Interpret Munitions Markings



**D505 155MM
ILLUMINATING**

Nomenclature

**Lifting
Plug**

DODIC



**Lot
Number**

NSN

DODIC

QTY

Lot Number



1330 00 133 8244-G881
30 GRENADE HAND FRAG
DELAY M213 W/FUZE M213

WT. 56
LOT LS-90D063-016
COMP B

1



Interpret Munitions Markings General Ammunition Markings



- **INERT Ammo**

- explosives, incendiary, or toxic materials have been simulated

- **EMPTY Ammo**

- explosives, incendiary, or toxics have been omitted

- **Empty projectiles, bombs**

- 4 ¼ inch holes 90 degrees apart if size permits
- exceptions are items used in target practice or practice bombs

- **Cloth-covered components**

- marked with durable, waterproof, sunfast ink

- **Mortar propellant increments**

- INERT cut through each increment



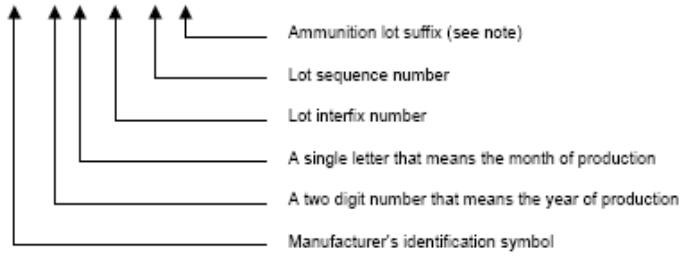
Interpret Munitions Markings

Markings on Munitions Boxes



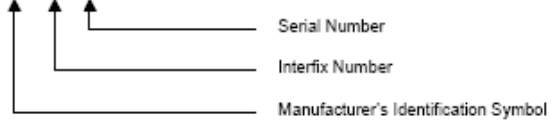
NEW (MIL-STD 1168-A)

AMC 75 D 018-124 B

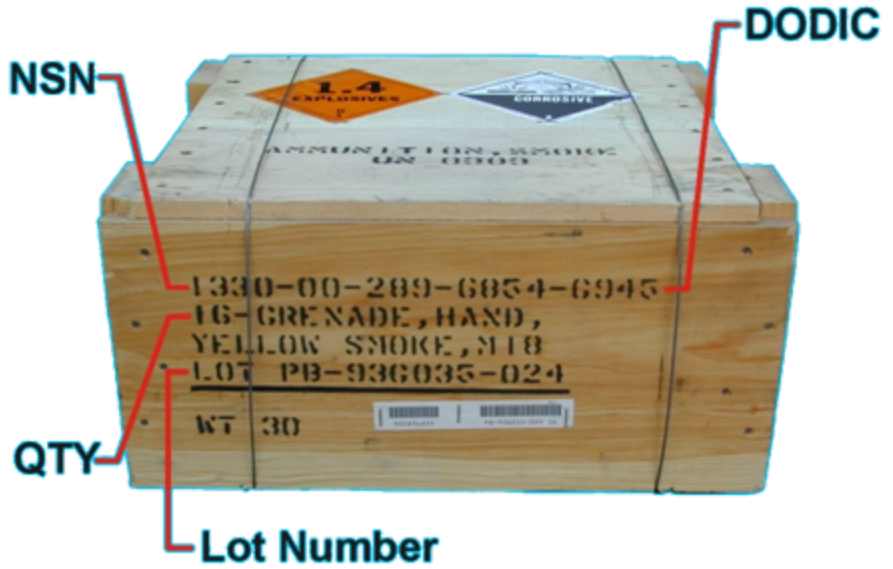


OLD (MIL-STD 1168)

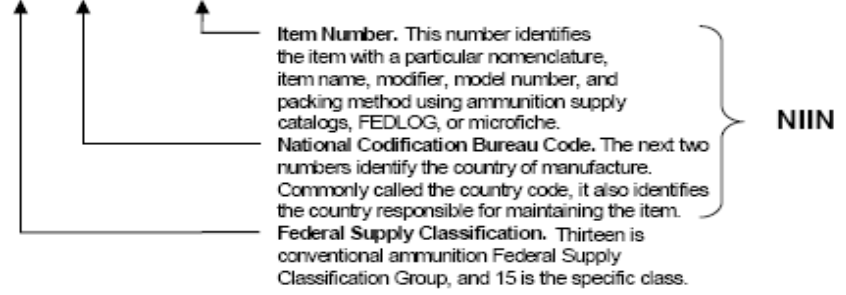
ABC- 8 -124



Note: A letter is added to the sequence number when there is a modification through renovation. The first modification is shown by -A, the second by -B, and so on. For example, AMC 75D018-123A, AMC 75D018-123B, etc.



1315 - 00 - 028 - 5080





Interpret Munitions Markings

Color Coding



Ammunition is painted to prevent rust and to provide by its color a means of identification or camouflage.



- **Color coding system:**
 - **Indicates primary use**
 - **Indicates a presence of a hazard**



Interpret Munitions Markings

Color Coding (cont)

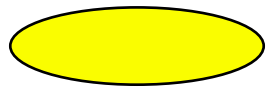


- **Primary use color coding:**
 - **Applied to entire surface as background color**
 - **Band of color not more than 2 inches wide**
 - **Disks or squares in appropriate color**
 - **Data markings in appropriate color**



Interpret Munitions Markings

Color Coding (cont)



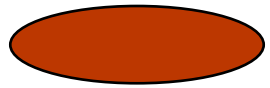
YELLOW -INDICATES HIGH EXPLOSIVE



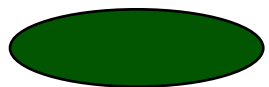
BROWN -INDICATES LOW EXPLOSIVE



GRAY-INDICATES CHEMICAL
AMMUNITION



DARK RED-INDICATES A RIOT AGENT
FILLER



DARK GREEN-INDICATES TOXIC
CHEMICAL FILLER



VIOLET-INDICATES INCAPACITATING
AGENT FILLER



Interpret Munitions Markings

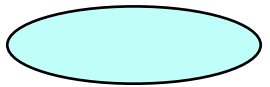
Color Coding (cont)



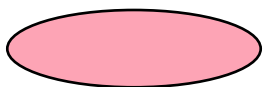
BLACK - INDICATES ARMOR DEFEATING AMMO



SILVER-INDICATES COUNTERMEASURE AMMO



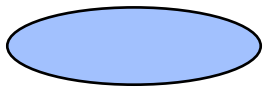
LIGHT GREEN-INDICATES SCREENING AMMO



LIGHT RED-INDICATES INCENDIARY AMMO



WHITE-INDICATES ILLUMINATING AMMO



LIGHT BLUE-INDICATES PRACTICE AMMO



Interpret Munitions Markings

Color Coding Exceptions



<u>Type of Ammunition</u>	<u>Body</u>	<u>Markings</u>	<u>Band</u>
High Explosive, (HE), except 20MM	Olive Drab	Yellow	None
High Explosive, (HE), 20MM	Yellow	Black	None
Explosive Binary Munitions	Olive Drab	Yellow	Broken
High Explosive Plastic (HEP)	Olive Drab	Yellow	Black
High Explosive Anti- Tank (HEAT)	Black	Yellow	None
Antipersonnel and Anti-tank	Olive Drab	Yellow	Yellow Triangles



Interpret Munitions Markings

Color Coding Exceptions



<u>Type of Ammunition</u>	<u>Body</u>	<u>Markings</u>	<u>Band</u>
Incendiary	Light Red	Black	None
High Explosive Incendiary (HEI)	Yellow	Black	Light Red
Armor Piercing Incendiary (AP-I)	Black	White	Light Red
Armor Piercing (AP)			
(a) with bursting charge	Black	Yellow	None
(b) without bursting charge	Black	White	None
Canister	Olive Drab	White	None
Flechette Loaded	Olive Drab	White	None



Interpret Munitions Markings Lot Numbers



NEW MILITARY STANDARD

**MANUFACTURERS
IDENTIFICATION**
Louisiana
Ordnance
Works

LOW 91B 018-124 B

MODIFICATION #

**YEAR AND MONTH
OF PRODUCTION**

INTERFIX #

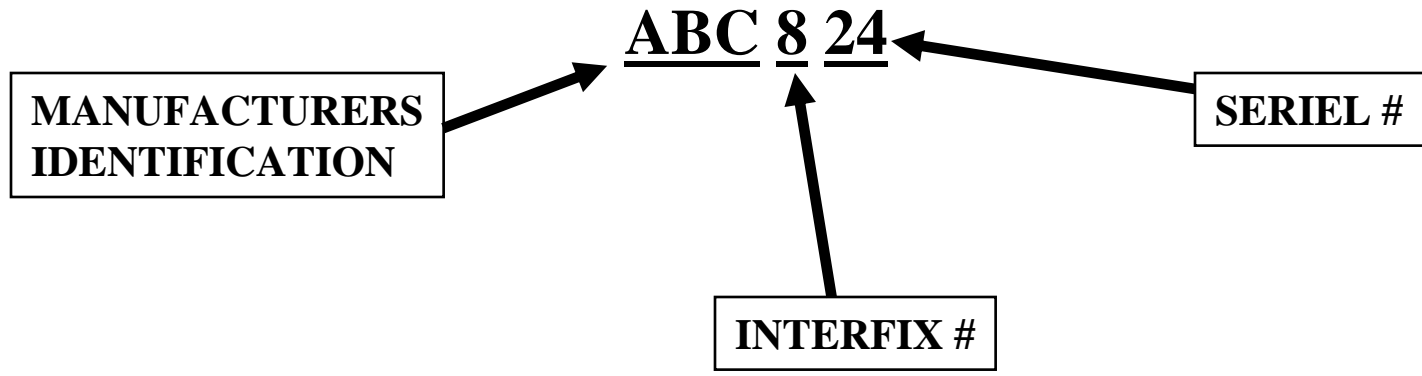
SEQUENCE #



Interpret Munitions Markings Lot Numbers (cont)



OLD MILITARY STANDARD





Interpret Munitions Markings Markings on Actual Munitions



- **Weight zones.** On artillery rounds,
- **Size and type.** These numbers tell you the size of the munitions The letter “H” indicates the round is fired from a Howitzer. You may find some with the letter “G” which indicates Gun.
- **Nomenclature- model number.** The last part of the is the abbreviated nomenclature with a model number (Proj M107).
- **Additional information.** This information provides additional data about the item.
- **Type filler.** Immediately below the size is the type filler in the main charge
- **DODIC.** Only the DODIC will appear on separate loading projectiles,
- **Lot number.** ALL separate loading projectiles (155mm - 8in.) will have the lot number stenciled on it.
- **Color-coding.** Munitions are color coded for their intended use.



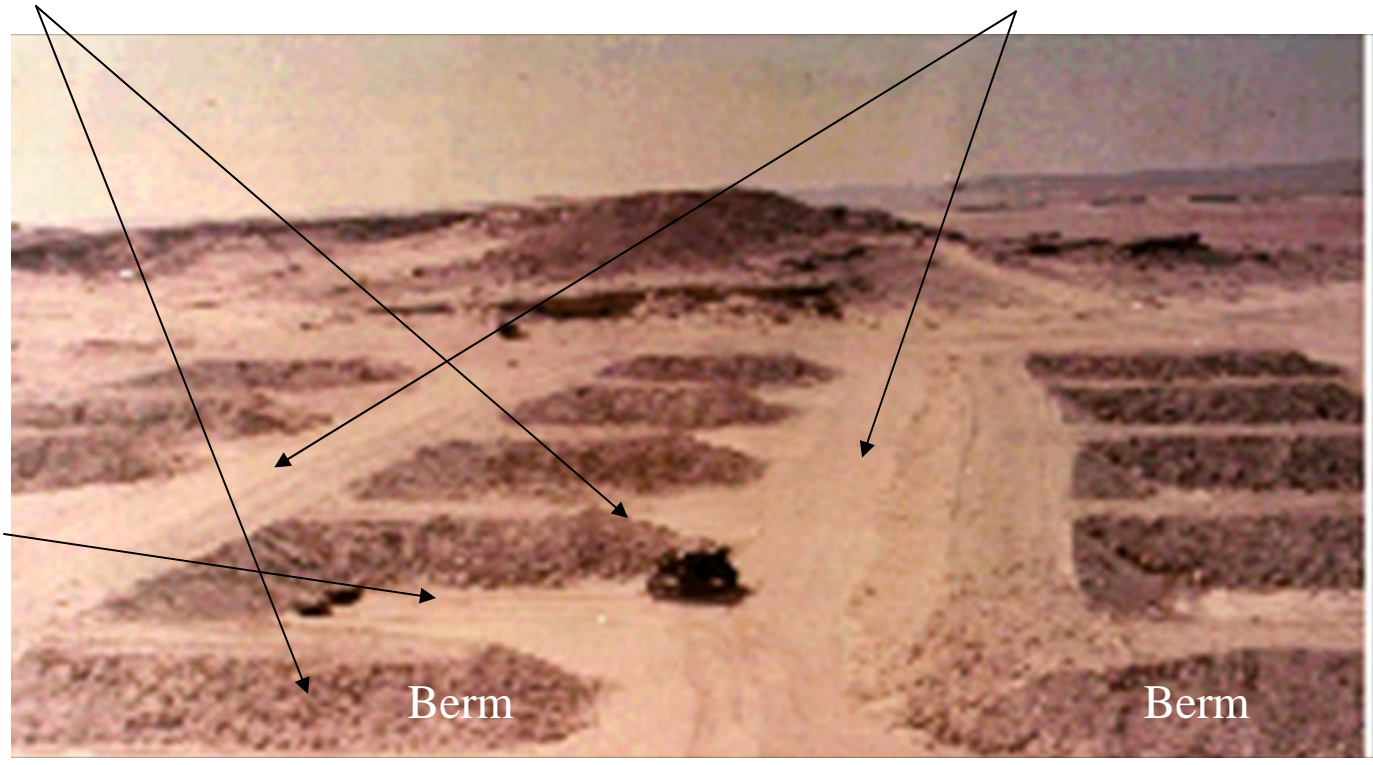
Outdoor Storage Ammunition Pad



Drainage

**Maintenance of
Vegetation &
Ignitable material**

Level



Berm

Berm



Outdoor Storage Propagation





Outdoor Storage Dunnage



3" Dunnage



Outdoor Storage Overhead Cover



18"
minimum



- | | | |
|---|------------------------|--|
| 1. Fuzes primer and boosters | 6. Chemical ammunition | 11. Demolitions |
| 2. Pyrotechnics | 7. Rockets | 12. Fixed and semi-fixed ammunition smallest caliber first |
| 3. Combustible cartridge cases | 8. Small arms | 13. Separate-loading projectiles |
| 4. Demolition priming devices | 9. Grenades | 14. Bombs |
| 5. Illuminating ammunition/black powder charges | 10. Mines | |



Outdoor Storage MILVAN/Container Storage





Outdoor Storage Housekeeping





Issue Munitions TLO



Action:	Issue munitions at an ASA
Conditions:	In a contemporary operating environment (COE), various types of munitions to be stored in an open storage pad, DA Form 3020-R, dunnage, banding equipment and materials, safety clothing and equipment, stencil equipment and materials, packaging containers and materials, DA Form 3151-R, and forklifts.
Standards:	Issue to a using unit the correct type and amount of munitions requested from the designated storage location as indicated on the DA Form 3151-R. Complete and check all documentation for accuracy. Perform this task without causing injury to self, other personnel, or damage to the environment, equipment or munitions.



Issue Munitions Definition



“Issue of Munitions” is defined as the “Transfer of ammunition stocks from an ammunition storage area.



Issue Munitions **Ammunition Condition** **Codes**



ACC A–SERVICEABLE (ISSUABLE WITHOUT QUALIFICATION)

E-1. New, used, repaired, or reconditioned materiel that is serviceable and issuable to all units without limitations or restrictions. This includes materiel with more than six months shelf life remaining.

E-2. Normal incidental requirements for additional packaging, packing, marking, and so forth that can be accomplished at the time of issue (without requiring added resources, manpower, or delays) do not constitute a restriction.

ACC B–SERVICEABLE (ISSUABLE WITH QUALIFICATION)

E-3. New, used, repaired, or reconditioned materiel that is serviceable and issuable for its intended purpose; however it is restricted from issue to specific units, activities, or geographical areas by reasons of its limited usefulness or short-service life expectancy. This includes materiel with three through six months shelf life remaining.

E-4. Normal incidental requirements for additional packaging, packing, or marking, and so forth that can be accomplished at the time of issue (without requiring any added resources, manpower, or delays) do not constitute a restriction. This includes items restricted to or from a specific mission.

ACC C–SERVICEABLE (PRIORITY OF ISSUE)

E-5. Items that are serviceable and issuable to selected customers, but that must be issued before conditions A and B materiel to avoid loss as usable assets. Includes materiel with less than three months shelf life remaining.



Issue Munitions Ammunition Condition Codes (cont)





Issue Munitions Priority of Issue



Priority 2.
Munitions designated as "priority issue."

Priority 1.
Smallest lots of munitions issued first.

Priority 3. Acceptable substitutes from excess stocks. Coordinate approval of substitution with requesting officer.

Priority 4. Oldest munitions of type being issued.

Priority 5. All other stocks.



Issue Munitions Actions (cont)



Stock Control

1. Review DA Form 581
2. Verifies ammunition condition codes *

Issuing Checker

1. Escorts unit vehicles
2. Locates ammunition to be issued
3. Directs loading and tie-down
4. Performs joint inventory



* condition code **NOVEMBER** may be used in combat

Issue Munitions Safety



You will have direct contact with the stocks being issued. If there is ever any question as to the serviceability of stocks you are issuing, it is your responsibility to take your suspicions to one of your superiors. Unserviceable ammunition has cost lives before don't let it happen because you failed to make a report.



Issue Munitions DA Form 581



REQUEST FOR ISSUE AND TURN-IN OF AMMUNITION				1	2	3	4	5	6			
For use of this form, see AR 710-2, the proponent agency is DCSLOG				ISSUE	TURN-IN	DOCUMENT NO	PAGE	OF	DOCUMENT SERIAL NO			
				<input checked="" type="checkbox"/>	<input type="checkbox"/>	WK4ABC-9121-0009		1	AA581 000 000 047			
7. SEND TO		8. REQUEST FROM		9. DATE MATERIEL REQUIRED		10. PRIORITY		11. ALLOCATION PERIOD		12. DODAAC		
ASP Ft Knox, KY		1-505th Arty Bn Ft Knox, KY		30 May 89, 1400 hrs				Third Quarter		WK4ABC		
				13a. REQUESTED BY		13b. DATE		13c. SIGNATURE				
				James R. Smith, CPT, IN, S-4		9121						
				14a. APPROVED BY		14b. DATE		14c. SIGNATURE				
				James E. Dean, CPT, OD, DAO		9121						
15. ITEM	16. DODIC	17. NSN	18. NOMENCLATURE	19. U/I	20. QTY REQUESTED/TURNED IN	21. TEC	22. ACTION CODE	23. QTY ISSUED/RECEIVED	24. LOT/SERIAL NO	25. CC	26. POSTED BY	27. DATE
1	A071	1305-00-926-3930	CTG, 5.56mm ball, M193	ea	1,600	FTX	NIS					
2	H557	1349-00-021-4491	Rocket, HE, 66mm AT, M72A2	ea	10	FTX	NIS					
			LAST ITEM									
28. REMARKS									29. RELATED DOCUMENT SERIAL NOS			
Quantities requested are within authorized training allocation. Training dates 1-5 Jun 89.												
30a. ISSUED BY				30c. DATE		31a. RECEIVED BY				31c. DATE		32. TAMIS CONTROL NO
30b. SIGNATURE						31b. SIGNATURE						1234567

DA FORM 581, AUG 89

EDITION OF MAY 64 IS OBSOLETE



Issue Munitions DA Form 581 (cont)



REQUEST FOR ISSUE AND TURN-IN OF AMMUNITION												
For use of this form, see AR 710-2; the proponent agency is DCSLOG												
1. Issue		3. DOCUMENT NO			4.		5. PAGE		6. DOCUMENT SERIAL NO			
2. Turn-In		X WK4ABC-9158-0001					OF 1		AA581 000 000 054			
7. SEND TO			8. REQUEST FROM			9. DATE MATERIEL REQUIRED		10. PRIORITY		11. ALLOCATION PERIOD		12. DODAAC
ASP Ft Knox, Ky			1-505th Arty Bn Ft Knox, KY			6 Jun 89 0900 hrs				Third Quarter		WK4ABC
13a. REQUESTED BY						13b. DATE		13c. SIGNATURE				
James R. Smith, CPT, IN, S-4						9157						
14a. APPROVED BY						14b. DATE		14c. SIGNATURE				
James E. Dean, CPT, OD, DAO						9157						
15. ITEM	16. DOGC	17. NSN	18. NOMENCLATURE	19. U/I	20. QTY REQUESTED/TURNED IN	21. TEC	22. ACTION CODE	23. QTY ISSUED/RECEIVED	24. LOT/SERIAL NO	25. CC	26. POSTED BY	27. DATE
1	A071	1305-00-926-3930	CTG, 5.56mm ball, M193	ea	425	FTX	TAR					
			LAST ITEM									
28. REMARKS									29. RELATED DOCUMENT SERIAL NOS			
The above items drawn on document number WK4ABC-9121-0009 were not expended.									AA581 000 000 047			
All other items drawn on that document number were properly expended.									AA581 000 000 055			
Residue turn-in is under document number WK4ABC-9158-0002.									AA5515 000 000 027			
									AA5515 000 000 078			
30a. ISSUED BY				30c. DATE		31a. RECEIVED BY				31c. DATE		32. TAMIS CONTROL NO
30b. SIGNATURE						31b. SIGNATURE						1234567

DA FORM 581, AUG 89

EDITION OF MAY 64 IS OBSOLETE



Issue Munitions DA Form 581 (cont)



REQUEST FOR ISSUE AND TURN-IN OF AMMUNITION <small>For use of this form, see AR 710-2, the proponent agency is DCSLOG</small>				1. Issue	3. DOCUMENT NO	4.	5. PAGE	5. DOCUMENT SERIAL NO				
				2. Turn-In <input checked="" type="checkbox"/>	WK4ABC-9158-0002		1 OF 1	AA581 000 000 055				
7. SEND TO ASP Ft Knox, KY		8. REQUEST FROM 1-505th Arty Bn Ft Knox, KY		9. DATE MATERIEL REQUIRED 6 Jun 89, 0900 hrs		10. PRIORITY	11. ALLOCATION PERIOD Third Quarter	12. DODAAC WK4ABC				
13a. REQUESTED BY James R. Smith, CPT, IN, S-4				13b. DATE 9157		13c. SIGNATURE						
14a. APPROVED BY James E. Dean, CPT, OD, DAO				14b. DATE 9157		14c. SIGNATURE						
16. ITEM	18. DODIC	17. NSN	18. NOMENCLATURE	19. UJ	20. QTY. REQUESTED/TURNED IN	21. TEC	22. ACTION CODE	23. QTY. ISSUED/RECEIVED	24. LOT/SERIAL NO	25. CC	26. POSTED BY	27. DATE
1		NSN	Case ctg, fired brass, 5.56mm	lb	15.9	FTX	TIR					
2		NSN	Launcher, rocket M72A2, expended	ea	10	FTX	TIR					
3		NSN	Primer block, M72A2, expended	ea	10	FTX	TIR					
			LAST ITEM									
28. REMARKS The above items were drawn on document number WK4ABC-9121-0009 and were properly expended. All other items drawn on that document number are being returned under document number WK4ABC-9158-0001. Contents have been inspected. Contents do not contain any live rounds, unfired primers, explosives, or other dangerous materiel. Signed (x) _____									29. RELATED DOCUMENT SERIAL NOS AA581 000 000 047 AA581 000 000 054 AA5515 000 000 027 AA5515 000 000 078			
30a. ISSUED BY				30c. DATE		31a. RECEIVED BY			31c. DATE		32. TAMS CONTROL NO	
30b. SIGNATURE						31b. SIGNATURE					1234567	



Receive Munitions TLO



Action:	Receive shipment of munitions at an Ammunition Supply Activity.
Conditions:	In a contemporary operating environment (COE), and given: packaged or unpackaged munitions, transport vehicles, safety clothing and equipment, packaging materials and containers, tie-down straps, pencil, DA Form 3020-R, DA Pam 710-2-2, MHE, banding equipment and materials, stencil equipment and materials, dunnage, orange paint, applicable munitions drawings, and steel toe shoes.
Standards:	Properly receive, segregate, check for serviceability, inventory, repack, and receipt munitions. Correctly complete, sign, date, and return DA Form 3151-R to stock control. Annotate the quantity received on DA Form 3020-R. Perform this task error free and without causing injury to self, other personnel, damage to the environment or equipment.



Receive Munitions Definitions



“The term, receipt, refers to a shipment of ammunition received from an ASP (Ammunition Supply Point), a CSA (Corps Storage Area), or a TSA (Theater Storage Area), or directly from a port, depot, or manufacturing plant. Receipt must not be confused with unit turn-in.



Receive Munitions



Stocks received by an ammunition supply unit are recorded on stock records, reported to the appropriate DMC, which notifies an ammunition unit in advance of a scheduled incoming shipment.

Unscheduled emergency resupply shipments may arrive at any time.

The unit must be in close coordination with the DMC to ensure notification is received.

Once notified, the unit selects storage locations and makes plans to unload and store the ammunition.



Receive Munitions MHE



Conduct a detailed inventory of received ammunition



Receive Munitions Forms (cont)



TRANSPORTATION CONTROL AND MOVEMENT DOCUMENT																PAGE NO.			
1. DOC ID	2. TRLR CTR	3. CONSIGNOR				4. COMMODITY SPECIAL HANDLING				5. AIR DIM	6. POE			7. POD					
8. MODE		9. PACK		10. TRANSPORTATION CONTROL NO.				11. CONSIGNEE				12. PRI	13. RDD	14. PROJ	15. DATE SHPD	16. ETA	17. TR ACCT		
18. CARRIER			19. FLIGHT-TRUCK-VOY-DOC NO.			20. REF	21. REMARKS				22. PIECES		23. WEIGHT	24. CUBE					
a. Transship Point			b. Date Rec		c. Bay Whse		d. Date Shpd		e. Mode Carrier		f. Flight-Truck-Voy Doc No.			g. Ref	h. Stow Loc	i. Split	j. Cond	k. Signature-Remarks	
25.																			
26.																			
27.																			
28. CONSIGNEE				29. DATE RECEIVED/OFFERED (Sign)				30. CONDITION				31. REMARKS							
32. DOC ID	33. TRAILER - CON-TAINER	34. CONSIGNOR COMM ABBR OTHER	35. COMMODITY SPECIAL HANDLING	36. VOY NO AP Dim a.	36. VOY NO POE b.	37. POD	38. MODE	39. TYPE PACK	40. TRANSPORTATION CONTROL NUMBER	41. CONSIGNEE	42. P R I	43. REMARKS AND/OR				44. ADDITIONAL REMARKS OR			
												RDD a.	Proj b.	Shpd c.	ETA d.	Tac e.	Pieces a.	Weight b.	Cube c.

DD FORM 1384, SEP 1998 (EG)
PREVIOUS EDITION IS OBSOLETE.
USAPA V1.00

DD Form 1384, Issue Release Document Prepared by shipper, provides vital data concerning the shipment. Stays with ammunition during shipment.



Receive Munitions Forms (cont)



1. DODIC	2. NSN	3. LOT NO.	4. LOCATION	B.	D.	
5. DESCRIPTION			A.	C.	E.	
6. DATE	7. DOCUMENT NO.	8. ACTION/PURPOSE	9. QUANTITY		10. BALANCE	11. PRINTED NAME
			A. GAIN	B. LOSS		

DA FORM 3020-R, AUG 89 MAGAZINE DATA CARD *Continued on Reverse*
 For use of this form, see DA PAM 710-2-1; the proponent agency is DCSLOG PREVIOUS EDITION IS OBSOLETE USAPPC V1.01

DA Form 3020-R: Prepared for each lot and stack of ammunition stored during receiving operations



Inventory Munitions TLO



Action:	Inventory Munitions at an Ammunition Support Activity.
Conditions:	In a contemporary operating environment (COE), a clipboard, pencil, partially prepared DA Form 2000-3 and DA Form 3020-R and munitions items to be inventoried.
Standards:	All munitions must be correctly counted and information recorded on DA Form 2000-3. Student will correctly annotate the inventory on DA Form 3020-R, sign and date as the recorder or counter.



Inventory Munitions

Why Inventories



- Know exactly how much of each DODIC and lot number you have on hand.
- Know exactly where all your stocks are located at any given moment.
- Know the exact condition code for each lot of ammunition.



Inventory Munitions **Types of Inventories**



- Scheduled Wall to Wall
- Scheduled Cyclic
- Damaged Warehouse
- Special



Inventory Munitions Inventory Team



- Counter
 - Counts all ammunition DODIC, NSN, Lot#, Condition Code and Quantity
 - Reports the quantities of pallets, packages and rounds in each package to the Recorder
 - Signs and dates all Count Cards/Sheets

- Recorder
 - Records all count information as the Counter reports it
 - Double checks all count card/sheet data with that on the package being inventoried, to ensure that the correct item is being inventoried
 - Posts the final counts on the Magazine Data Card (DA Form 3020-R) and returns the card to the stack
 - Signs and dates all Count Cards/Sheets

- Inventory Supervisor



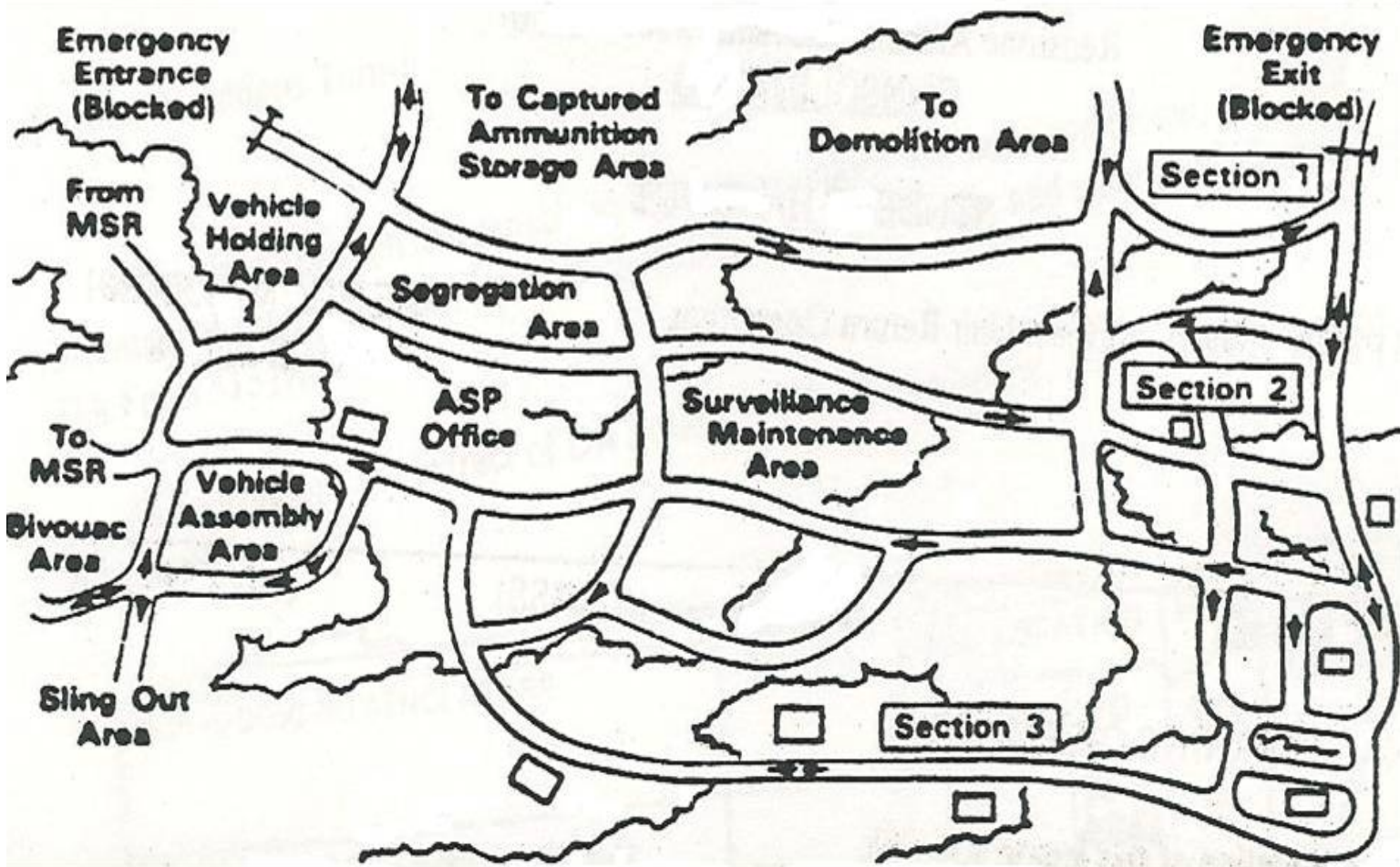
Process Unit Returns at an ASA TLO



Action:	Process unit returns at an ASA
Conditions:	In a contemporary operating environment (COE), packaged or unpackaged munitions, safety clothing and equipment, packaging containers and materials, tiedown straps, pencil, steel toe shoes, DA Form 3020-R, DA Form 3151-R, appropriate munitions handling equipment (MHE) and materials, banding equipment and materials, stencil equipment and materials, orange paint, and applicable munitions drawings.
Standards:	Properly receive, segregate, check for serviceability, inventory, repack, remark, and account for the unit's ammunition turn in. Correctly complete, sign, date and return DA Form 3151-R to stock control. Annotate the unit's munitions turn in on DA Form 3020-R. Perform this task error free and without causing injury to self, other personnel, damage to the environment or to any equipment.

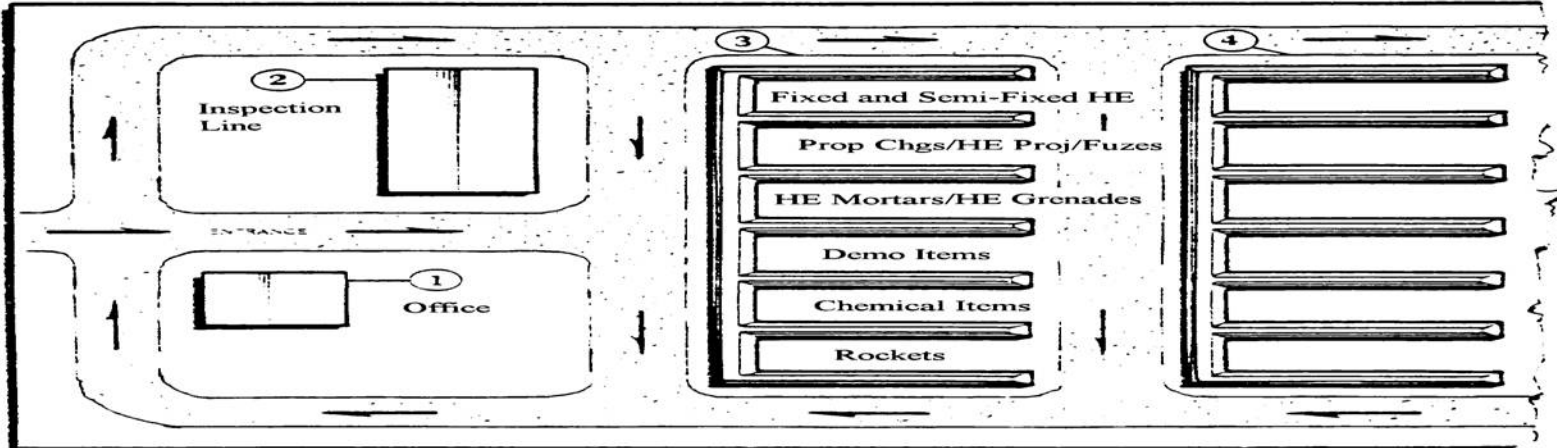


Process Unit Returns at an ASA Layout





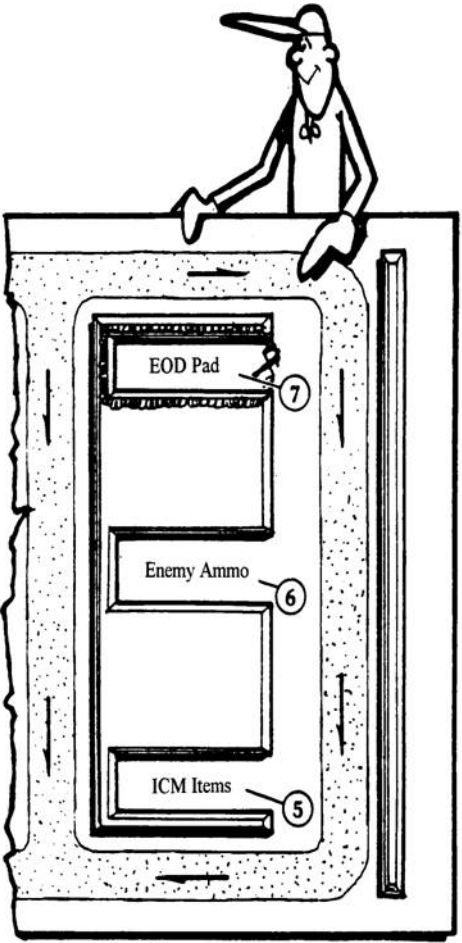
Process Unit Returns at an ASA Segregation Area



- *Office: Processing of records, and reports.
- *Inspection Line: Used for the segregation, inspection, and replacing of munitions returned by units.
- *Serviceable Storage Module: Barricaded Cells designated for the storage of specific types of munitions. Off-loaded serviceable munitions, place in appropriate pad.
- *Unserviceable Storage Module: Barricaded Cells designated for the storage of specific types of munitions. Off-loaded unserviceable munitions, place in appropriate pad.



Process Unit Returns at an ASA Segregation Area (cont)



*ICM Storage Cell: Improved Conventional Munitions items require separate storage, and be isolated from other types of munitions.

*Enemy Ammo Storage Cell: Combat situations require separate and isolated storage area cell pads.

*EOD Storage Cell: Used for the storage of munitions that have been classified as unsafe or hazardous, pending destruction by authorized personnel. This cell must be fenced and gated, locked and secure to prevent unauthorized personnel from entering.



Process Unit Returns at an ASA

DA 581



REQUEST FOR ISSUE AND TURN-IN OF AMMUNITION				1 NEW		2 DOCUMENT NO.		3		4		5 PRICE 1		6 DOCUMENT SERIAL NO.	
For use of this form, see AR 710-2. The governing agency is DCSLOG.				2 Turn-in <input checked="" type="checkbox"/>		2134-0019						1 AA581		1333762	
7 SEND TO				8 REQUEST FROM				9 DATE MATERIAL REQUIRED		10 PRIORITY		11 RECALCULATION PERIOD		12 DODAAC	
Accountable Officer ASP #1 W7BAA/AK4001 APO 09114				WB3JFF/WK4FD4 1st Bn, 16th INF APO 09046											
				13a REQUESTED BY				13b DATE		13c SIGNATURE					
				John T. Jones CPT, S-4				2134							
				14a APPROVED BY				14b DATE		14c SIGNATURE					
				William D. Carlson CPT, CD, DAC				2134							
15 ITEM	16 BOOK	17 ASN	18 NOMENCLATURE	19 LB	20 QTY REQUESTED TURNED IN	21 TEC	22 ACTION CODE	23 QTY ISSUED RECEIVED	24 LOT/SERIAL NO.	25 CC	26 POSTED BY	27 DATE			
1	A071	1305-00-926-3930	Cartridge, 5.56MM Ball		5040				LC 12205						
2	C256	1315-00-935-6031	Cartridge, 81MM: HE, M374		15				LOP 2-27						
3	G889	1330-00-782-5540	Grenade, Hand, Frag M26A2		36				LS 13-224						
					LAST ITEM										
28 REMARKS										29 RELATED DOCUMENT # FINAL NOS					
Items listed above are on hand in this organization in excess of training requirements * Issued on Control Number 2130-0002.															
30a ISSUED BY				30b DATE		30c RECEIVED BY				30d DATE		30e TAME CONTROL NO			
John T. Jones, CPT, INF, S-4				2134											
30a SIGNATURE				30b DATE		30c SIGNATURE				30d DATE		30e TAME CONTROL NO			
				2134											



Process Unit Returns at an ASA DA 3151-R



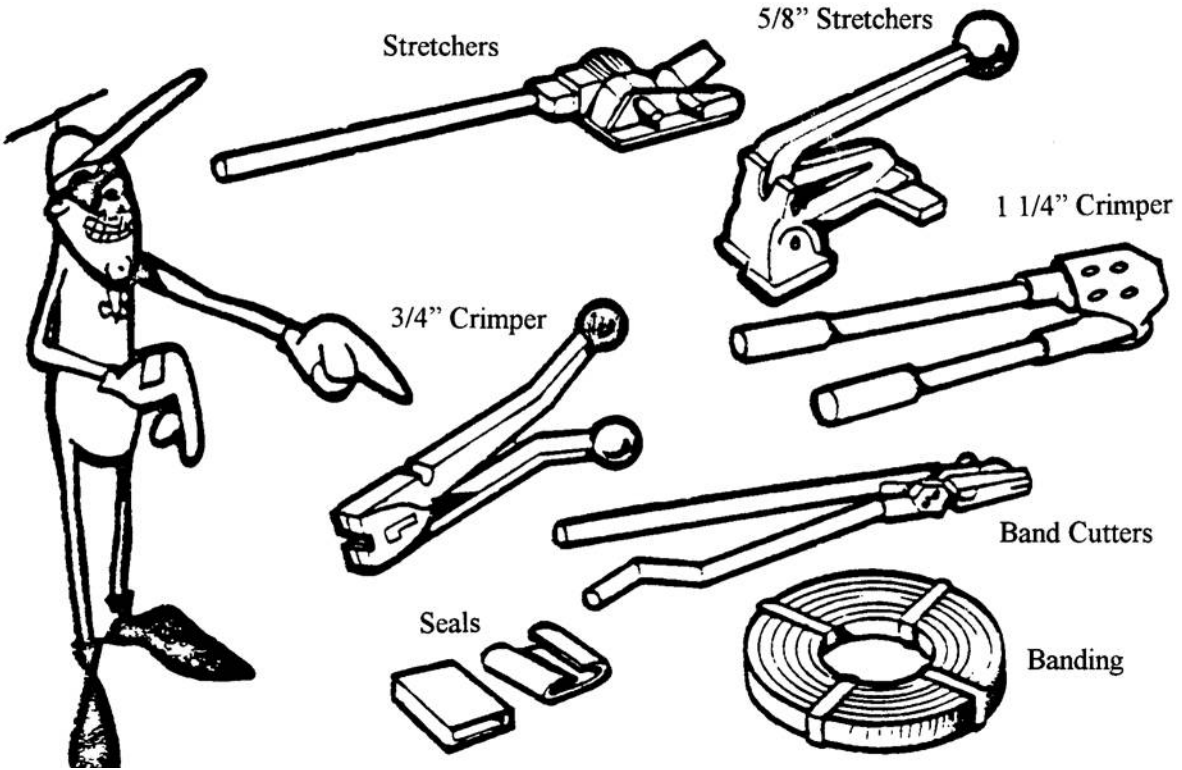
AMMUNITION STORES SLIP <small>FOR USE OF THIS FORM, SEE DA PAMPHLET 710-2-2. PROponent AGENCY IS DCSLOG.</small>		AUTHORITY 7138-0001		DATE: 18 MAY 87			
FROM: S4 1-505th Arty Bn, Ft Knox, KY		NAME OF ACTIVITY ASP					
TO: ASP Ft. Knox, KY		VEHICLE NO. USA 1234567					
RECEIPT <input checked="" type="checkbox"/> ISSUE <input type="checkbox"/> OTHER (SPECIFY) <input type="checkbox"/> TURN-IN <input type="checkbox"/>		DRIVER CPL Jerry Walker					
NSN DODIC NOMENCLATURE	LOT NO.	ACC	LOCATION		PLTS BXS	TOTAL ROUNDS	INIT
			FROM	TO			
1305-00-926-3930-A071 Ctg. 5.56mm Ball	LC10-05	A	A-1		2 BX	3,360	
1310-00-724-8081-8568 Ctg. 40mm HE	PN07-13	A	B-1		2 BX	72	
1330-00-133-8244-G881 Gren, Hd, FRAG	FT87-21	A	C-1		1 BX	30	
*****NOTHING FOLLOWS*****							
REMARKS COMPLETED BY ASP PERSONNEL IAW DA PAM 710-2-2							
DATE: 7138	SIGNATURE OF ISSUING CHECKER		DATE: 7138	SIGNATURE OF RECEIVING CHECKER <i>Al Jones AS</i>			

AMMUNITION STORAGE SLIP

- *Used as a backup document to the DA Form 581
- *Given two copies by operations prior to processing units documents.
- *As munitions are processed enter required information in the columns provided for true accountability:
 - (1) Type
 - (2) Serviceability
 - (3) Quantity
 - (4) Location



Process Unit Returns at an ASA Rebanding Tools & Materials





Process Unit Returns at an ASA Safety Equipment



1. Work gloves.
2. Safety toe protectors or steel toed safety shoes.
3. Goggles or face shield.

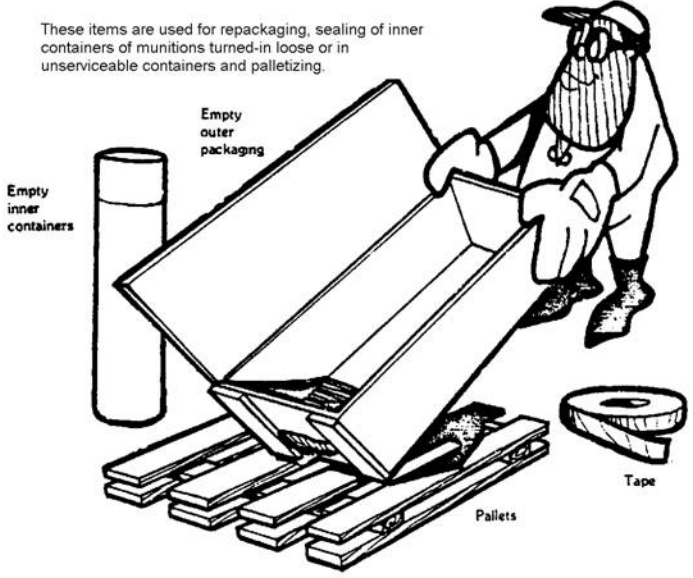


Process Unit Returns at an ASA Remarking Tools



Tools and materials used for remarking outer packing.

1. Stencil Brush.
2. Stencil cutting machine.
3. Stencil paper.
4. Stencil ink/ Spray paint.





Process Unit Returns at an ASA **Hazardous and Incompatible** **Munitions**



- Identify the ammunition.
- Check for loose rounds.
- Check for opened boxes and containers.
 - Inspect for missing safety devices.
 - Identify items in extremely hazardous conditions.
- Check for compatibility of items.
- Check open containers to make sure that items are the same as indicated on the box.
- Open damaged containers and inspect the ammunition for serviceability.
- Make sure marked empty containers are in fact empty.



Process Unit Returns at an ASA Segregation



1. Serviceability.
2. Type.
 - WP
 - HE
3. Lot number (located on front of box and on each end)
4. National stock number (13 digit number located across the front of box).
5. DODIC (located at end of NSN and on each end of box).



Process Unit Returns at an ASA Grenades



Safety pin must be inserted through both sides of safety lever and through fuze body

Safety pin should have angular crimp or diamond crimp to prevent removal

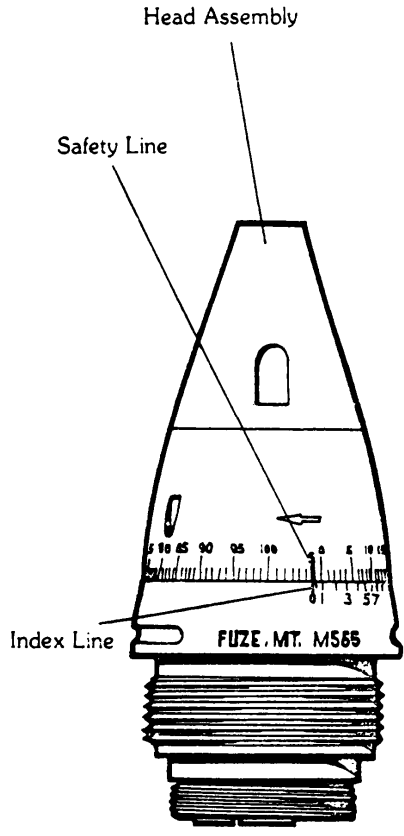
Safety pin pull ring present



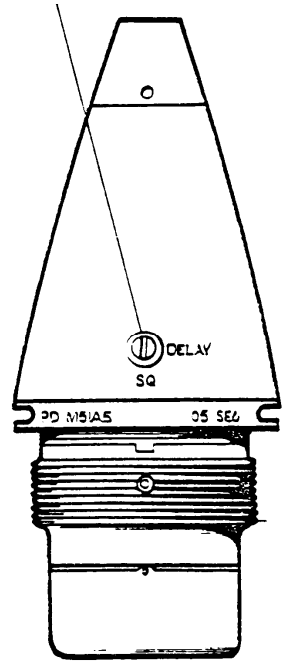
Safety clip is additional safety device



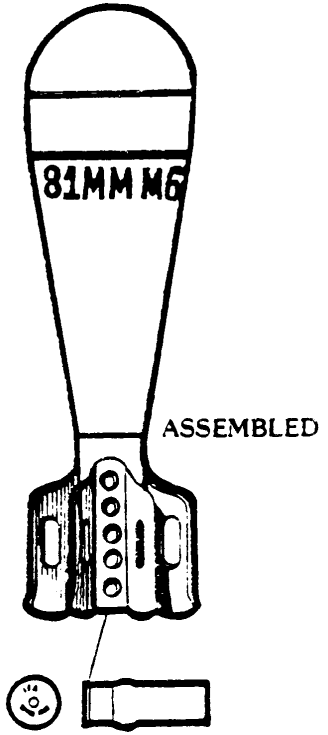
Process Unit Returns at an ASA Fuzes and Ignition Cartridges



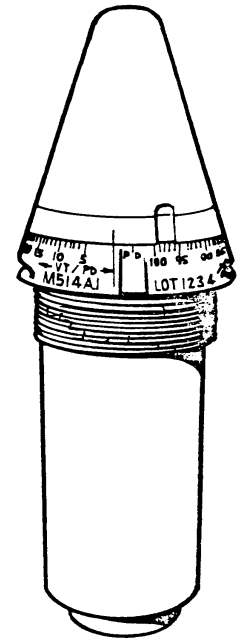
Mechanical Time (MT)



Point Detonating (PD)



81MM Mortar Training



Proximity (VT)



Process Unit Returns at an ASA

Unserviceable Munitions



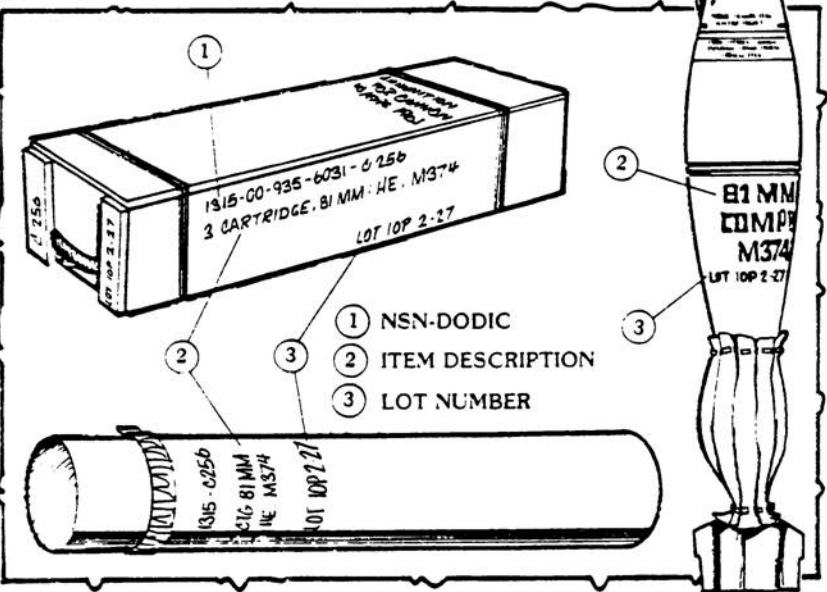
1. Repacked in suitable containers and marked as to contents.
2. Tag with DD Form 1575 (suspended tag material), or DD Form 1577 (unserviceable tag-material).
3. Attach to outside of box.
4. Transfer to unserviceable storage area.
5. Repack loose serviceable munitions in original containers



Process Unit Returns at an ASA Items Match DA 3151-R



AMMUNITION STORES SLIP <small>For use in this form, see AFM 9-28. The document is United States Army Training and Doctrine Command.</small>		AUTHORITY 0153-0598		DATE 2 JUN 80			
FROM: 1st BN, 16th INF		NAME OF ACTIVITY ASP #1					
TO: ASP #1		VEHICLE NO. 47K120					
RECEIPT <input checked="" type="checkbox"/>	ISSUE <input type="checkbox"/>	OTHER (SPECIFY) <input type="checkbox"/>		DRIVER SP4 William Jones			
NSN-DODIC NOMENCLATURE		LOT NO.	ACC	LOCATION	PLTS	TOTAL	INIT
1315-00-935-6031-0256 CARTRIDGE, 81 MM HE, M374		10P 2-27		566 AREA	5	15	



If you find an item of ammunition that is not listed on the DA Form 3151-R, see your supervisor. He/she will advise you as to the markings required on the boxes, and the information to be added on the DA Form 3151-R.



Process Unit Returns at an ASA Completion of DA 3151-R



NSN-DODIC NOMENCLATURE	LOT NO.	ACC	LOCATION		PLTS BXS	TOTAL ROUNDS	INIT
			FROM	TO			
1315-00-935-6031-0256 CARTRIDGE, 81 MM: HE, M374,	10P 2-27			SEC AREA	5	15	

Example above, shows the unit turning in 15 rounds of the item.

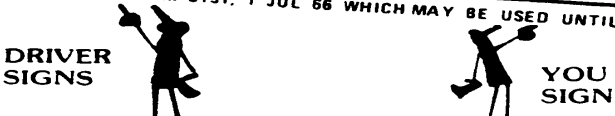
During the inspection, 3 rounds were found unserviceable, and the ammunition Inspector reclassified them as ACC "J"

NSN-DODIC NOMENCLATURE	LOT NO.	ACC	LOCATION		PLTS BXS	TOTAL ROUNDS	INIT
			FROM	TO			
1315-00-935-6031-0256 CARTRIDGE, 81 MM: HE, M374,	10P 2-27	A J		SEC AREA	54	1512	
	10P 2-27				1	3	

To complete the transaction, the unit driver date and sign in the "Signature of the Issuing Checker" block. You date and sign the "Signature of Receiving Checker" block.

DATE 2 JUN 80	SIGNATURE OF ISSUING CHECKER <i>William Jones</i>	DATE 2 JUN 80	SIGNATURE OF RECEIVING CHECKER <i>Robert Smith</i>
------------------	--	------------------	---

REPLACES DA FORM 3151, 1 JUL 66 WHICH MAY BE USED UNTIL EXHAUSTED





Storage Compatibility Groups

TLO



Action:	Identify compatibility groups
Conditions:	In a contemporary operating environment (COE) given ammunition of different compatibility groups
Standards:	Be able to identify which compatibility groups ammunition falls in and which groups are safely compatible for storage together.



Storage Compatibility Groups Codes



A B C D E F G H J K L N S

Ammunition and or explosives are considered "compatible" if they can be stored or transported together without significantly increasing the:

- Probability of an accident
- Magnitude of the effects of such an accident

Official compatibility codes found in the Joint Classification System



Storage Compatibility Groups

Storage Principles



1. Ideal storage generally is not feasible
2. Ammunition and explosives may not be stored together with dissimilar materials
3. Assigned to compatibility groups based on the similarity of characteristics, properties, and accident effects potential
4. ammunition and explosives may be mixed in storage, provided they are compatible
5. Ammunition and explosives in substandard or damaged packaging will be stored separately



Storage Compatibility Groups

Storage Compatibility Mixing Chart



Storage Compatibility Mixing Chart

Group	A	B	C	D	E	F	G	H	J	K	L	N	S
A	X	Z											
B	Z	X	Z	Z	Z	Z	Z					X	X
C		Z	X	X	X	Z	Z					X	X
D		Z	X	X	X	Z	Z					X	X
E		Z	X	X	X	Z	Z					X	X
F		Z	Z	Z	Z	X	Z					Z	X
G		Z	Z	Z	Z	Z	X					Z	X
H								X					X
J									X				X
K										Z			
L													
N		X	X	X	X	Z	Z					X	X
S		X	X	X	X	X	X	X	X			X	X



Storage Compatibility Groups

Storage Compatibility Mixing Chart

(cont)



¹ "X" indicates that these groups may be combined in storage, otherwise, mixing is either prohibited or restricted according to note #2.

² "Z" indicates that, when warranted by operational considerations or magazine nonavailability and when safety is not sacrificed, logical mixed storage of limited quantities of some items of different groups may be approved. These relaxations involving mixed storage shall be approved by the MACOM and are not considered waivers. However, DA shall determine which items within Group K may be stored together and which must be stored separately. Group K requires not only separate storage from other groups but may also require separate storage within the group.

³ Compliance with compatibility criteria is not required for mission essential or operationally necessary quantities of explosives in Class/division 1.4 or 6.1 (excluding toxic chemical munitions); up to 100 lbs. NEW Class/division 1.3; and up to 50 lbs. NEW Class/Division (04)1.2. See paragraph 5-1b for Q-D requirements and additional information concerning small quantities of explosives.

⁴ Equal numbers of separately packaged components of complete rounds of any single type of ammunition may be stored together. When so stored, compatibility is that of the assembled round; for example, WP filler in Group H, HE filler in Groups D, E, or F, as appropriate.

⁵ Ammunition items without explosives that contain substances properly belonging to another U.N. hazard class may be assigned to the same compatibility group as items containing explosives and the same substance, and be stored with them.

⁶ DA may authorize ammunition designated "practice" by National Stock Number (NSN) and nomenclature to be stored with the fully loaded ammunition it simulates.

⁷ The MACOM may authorize the mixing of compatibility groups, except items in Groups A, K, and L, in quantities not exceeding 1,000 lbs. NEW per storage site. This is independent of note #2 and the exception found in paragraph 4-4b.

⁸ For purposes of mixing, all items must be packaged in approved storage/shipping containers. Items shall not be opened for purposes of issuing unpackaged munitions in storage locations. Outer containers may be opened in storage locations for inventorying; for removing munitions still inside an approved inner package in limited amounts, and for magazines storing only hazard division 1.4 items, unpacking, inspecting, and repacking the hazard division 1.4 ammunition.

⁹ Articles of compatibility Groups B and F shall each be segregated in storage from articles of other compatibility groups by means which are effective in preventing propagation of those articles.

¹⁰ If dissimilar HD 1.6, SCG N munitions are mixed together and have not been tested to ensure nonpropagation; the mixed munitions are considered to be HD 1.2, SCG D for purposes of transportation and storage. When mixing SCG N munitions with SCGs B through G, see chapter 5, paragraph 5-2f through 5-2i about changing quantity-distance (QD) class/divisions.

¹¹ For storage purposes, fuzes assigned to SCG D are also compatible with fuzes assigned to SCG B.



Captured Ammunition TLO



Action:	Conduct CEA Operations
Conditions:	CEA has been discovered and you have the ability to obtain all necessary equipment/resources to process and transport the CEA.
Standards:	Process and transport CEA if required to ASA IAW SOP and safe ammunition handling procedures.



Captured Ammunition **Conduct Deliberate Mission** **Planning**



1. Ensure all key leaders are involved in the planning process.
2. Ensure soldiers are trained
3. EOD support
4. Coordinate transportation and packaging requirements
5. Medical
6. Linguist support.
7. Security support
8. Convoy route from CEA site to storage facility
9. Safe disposal area
10. Communications plan
11. Recon if possible
12. Conduct risk assessment
13. Catastrophic event plan.



Captured Ammunition On-Site Execution



1. Establish a security perimeter.
2. Conduct communications check with higher command and medical support.
3. Safety briefing
4. EOD inspection
5. Trained personnel supervise the packaging and loading of the CEA
6. Inspect blocking, bracing and securing munitions
7. Conduct Convoy briefing
8. Notify higher headquarters



Captured Ammunition Cautions and Guidance



- Improvised Explosive Devices (IED) and Unexploded Ordnance (UXO) are not classified as CEA
- EOD personnel on-site
- SURVEY THE AREA!
- Take booby trap precautions
- Do not use any radio or broadcasting devices
- Take precautions against static electricity
- Wear Personal Protective Equipment (PPE)
- Handle carefully
- No smoking within 50 feet
- Turn vehicle engines off
- Fire extinguisher in vehicle
- White phosphorus/incendiary munitions
- Limit personnel
- Excess vehicles located in a designated parking area
- Medical and supervisory personnel
- Beware of snakes and insects
- Clear path for loading



Captured Ammunition Categorization



Extremely Unsafe Ammo:

- Handling and transportation is not recommended
- Conducted by or under the direct supervision of EOD
- Transportation requirements determined by EOD
- Do not transport items from other ammo transportation categories



Captured Ammunition Categorization (cont)



Unsafe Ammo:

- May be stored
- Route: gentle curves and be fairly smooth
- Limit speed
- Minimum crew
- Minimal handling
- Not be transported in tactical vehicles
- No personnel in cargo area
- Trailer prepared for transportation of CEA
- Pull with enclosed armored vehicle
- Do not use pivot or neutral steering
- Do not transport items from other ammo transportation categories
- Route selection



Captured Ammunition Categorization (cont)



SAFE Ammo:

- Evaluated by qualified ammunition inspectors prior to issue for use
- Tactical truck may be used to move the small arms ammunitions
- Do not transport items from other ammo transportation categories



Captured Ammunition Vehicle Selection



Prime Movers:

- Armored vehicles
- M113 family of vehicles (FOV)..
- The Bradley Fighting Vehicle (BFV) certified to safely tow only one trailer
- Field Artillery Ammunition Supply Vehicle (FAASV) may be used
- Do not use the Abrams or M88
- Do Not use any tactical wheeled Army motor vehicle



Captured Ammunition Preparation and Loading



Transport of Boxed CEA

Secure boxed CEA with web straps so it cannot move forward, backward, or side-to-side. Keep in mind that when stopping, the force acting on the boxes will try to move them forward.

Transport of Unpacked

Cardboard dividers protect primers and fuzes

BOX

Sand-lined box Cardboard dividers

Pallet upside down

Place large cylindrical object on upside down pallet – use web straps to secure item.

Place the object between the skids of the pallet.

50 cal box



Maintain Combat Load (CL) TLO



Action:	Maintain a units Combat Load
Conditions:	In a contemporary operating environment (COE), identify procedures to properly maintain a units ammunition combat load.
Standards:	Properly identify and maintain ammunition combat load.



Maintain Combat Load (CL) Total Ammunition Management System (TAMIS)



TAMIS (LOCAL) - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://test.tamis.org/logon/home.aspx
Go Links

TAMIS
Total Ammunition Management Information System

Home My Account Logon Level Support Help Print Logout

Manage Requirements Manage Authorizations Develop Forecast Create e581 Reports

TAMIS at-a-glance FY 2007

Requirements
3 5 4 2 5 5 7 6

Authorizations
3 7 6 4 1 4 2 1 9

SubAuthorizations
3 6 1 9 6 2 3 1 3

Forecasts **Expenditures**
182,454,070 7,888,709

Alerts And Notifications

Welcome RSENKBILE6...
Logon Level: HQ-DEPT OF ARMY MUNITIONS MANAGEMENT OFFICE
Logon Date: Tuesday, May 22, 2007
Logon Time: 13:54:13.2887521

Broadcast **News**

Procurement of Non-Standard Munitions [5/18/2007]
In accordance with AR 5-13 and Title 10 U.S. Code organizations are not authorized to expend Operations & Maintenance (O&M) funds for munitions. ...

DPSEC Notice [5/18/2007]
SAFEGUARDING OUR SENSITIVE MUNITIONS INFORMATION IS VITAL TO SUCCESS IN BOTH ACCOMPLISHING OUR MISSION AND PROTECTING THE LIVES OF OUR SOLDIERS. ...

Windows XP Service Pack 2 Quick Reference Guide [5/18/2007]
We have added a new Quick Reference Guide (QRG) in .pdf format for Windows XP Service Pack 2 users. A new button for this QRG has been added in the black frame to the left of the TAMIS-R Welcome Scre...

Closing of ASP 8 in Weilerbach, Germany [5/11/2007]
1. Effective 1 July 2007, all units receiving Class V support from ASP 8 in Weilerbach, Germany will be redirected to the new ASP 9 at Reserve Storage Activity Miesau (RSAM) in Miesau, Germany.

Help
[Getting Started](#)

How to...
[Use Requirements](#)
[Authorize](#)
[Forecast](#)
[Create e581](#)
[Retrieve Reports](#)
[Create Custom Reports](#)
[Contact Support](#)

Training
[Training Schedule](#)
[Request Training](#)

Online Customer Support
[Create New Support Ticket](#)
[Check Ticket Status](#)
[Support Ticket Manager](#)
[Contact Support](#)

System Administration
[Hierarchy Manager](#)
[DODIC Manager](#)



Maintain Combat Load (CL)

Types of Combat Load



To-Accompany-Troops (TAT)

- Can be carried by or accompanies the soldier
- Can be uploaded on a combat vehicle
- Can be uploaded on organic transportation

Non-TAT

- Cannot accompany the soldier.
- Cannot be loaded in or on unit combat vehicles.
- Cannot be loaded on unit transport vehicles.



Maintain Combat Load (CL)

Calculate Combat Load



- HQDA G3 generates standard factors to support the Army Combat Load requirements.
- Units modify calculation based on mission and weapons density changes.
- Using TAMIS (Requirements Module) the ACOMs, ASCCs & DRUs express their Combat Load requirements to HQDA G-3 for validation.
(TAMIS sub-module).
- Units auto-generate and store ABL e581 in TAMIS
(under development).
- Recall e581 & electronically submit.



Maintain Combat Load (CL)

Combat Load Basis



- Munitions DODICS/Quantities.
- War Requirements (WARREQ).
- TRADOC Munitions Combat Load Study.
- New munitions developments.
- Weapon Systems/Personnel.
- MTOE.
- Basis of Issue Plan (BOIP).
- Commander's Input.



Maintain Combat Load (CL) CL Accountability



CL not on-hand

- DA Form 581 prepared based on approved ABL.
- DA Form 581 document number posted to the property book.
- Listed on property book by DODIC.
- Property book shows ABL items as “on-request”.

CL on-hand

- Items on-hand posted to the property book.
- Will not be used for training.
- Items will be inventoried monthly.
- Any ABL not on-hand still handled IAW procedures above.



Maintain Combat Load (CL) Required Supply Rate



Required Supply Rate - is defined as the amount of ammunition, expressed in rounds per weapon per day, estimated to be required to sustain operations of any designated forces without restriction for a specified period of time



Maintain Combat Load (CL) Controlled Supply Rate



Controlled Supply Rate - is the rate of ammunition consumption that can be supported, considering supplies, transportation, and facilities available, for a given period.



Maintain Combat Load Controlled Supply Rate Terms



Stockage objective
Safety level
Balance on hand
Due ins
Due outs
Weapon density
Distribution time



Maintain Combat Load Controlled Supply Rate Calculations



Determine if a CSR is required using the formula

- If the balance on hand minus the due outs is greater than the safety level no CSR is required.
- If the balance on hand minus the due outs is less than the safety level a CSR is required.
- You can never issue out of the safety level without the Theater Commanders approval.

Determine the CSR using the formula

- The (balance on hand minus the safety level) divided by the (weapon density and number of days to next resupply and distribution in the theater).
- CSRs are always rounded down and expressed in rounds per weapon per day.



Maintain Combat Load

Controlled Supply Rate Calculations



Balance on hand is 500,000 rounds, safety level is 200,000 rounds. Due outs for the next thirty days is 400,000 rounds. The weapon density is 100 weapons and no due ins are scheduled until 30 days from now.

BOH 500,000 minus D/OUTs 400,000 = 100,000

SL is 200,000 Yes a CSR is required.

CSR formula is:

$$\frac{\text{BOH } 500,000 \text{ minus SL } 200,000}{(\text{WD } 100 \times \text{DTR } 30)} = \frac{300,000}{3,000} = 100 \text{ CSR}$$