

SB 740-6730-91-001

DEPARTMENT OF THE ARMY SUPPLY BULLETIN

Storage Serviceability Standardization for USAECOM Materiel

PROJECTION SET, MOTION PICTURE SOUND AS-2(1)

Headquarters, Department of the Army, Washington, D.C.

25 April 1972

	Paragraph	Page
Section I. INTRODUCTION		
Purpose	1	1
scope	2	1
Definitions	3	1
General	4	1
Reporting of supply bulletin improvements	5	2
II. STORAGE AND SPECIAL INSTRUCTIONS		
Preservation, packaging, and packing	6	2
Marking	7	2
Storage	8	2
Disposition of reected materiel	9	2
Appendix A. REFERENCES		2
B. FEDERAL STOCK NUMBERS AND TEST REQUIREMENTS		2
C. PRESERVATION, PACKAGING, AND PACKING		2
D. STORAGE, QUALITY ASSURANCE PROVISIONS		4

Section I INTRODUCTION

1. Purpose.

This bulletin provides a storage serviceability standard which establishes uniform criteria for determining the acceptability of the items designated herein for continued storage and/or issue, on the condition that all specifications and requirements applicable to the items have previously been met at the time of receipt from new procurement, or after repair, overhaul, or rebuild by a CONUS depot maintenance shop.

2. Scope.

This bulletin applies to all activities engaged in the receipt, storage, and issue of Projection Set, Motion Picture, Sound AS-2(1), hereinafter referred to as the projection set, listed in appendix B with the applicable federal stock number (FSN).

3. Definitions.

a. Definitions for the majority of specialized terms used can be found in MIL-STD-109B

b. Definitions for other specialized terms are as follows:

(1) *Storage serviceability standard*. A written procedure providing storage methods and standards and prescribing the necessary requirements for the surveillance of materiel in storage.

(2) *Storage quality level (SQL)*. That quality

level applicable to storage sampling inspection expressed in terms of percent defective or defects per 100 units, whichever is applicable, specified for a given group of defects of a product. It is the maximum allowable accidental departure from specification requirements which can be tolerated.

4. General.

It is the Army's objective to attain and maintain a constant materiel readiness status for materiel in depot stocks. The scope of such an objective is of such magnitude that only general guidelines are provided by chapter 3, section VIII of TM 743-200-1 for the quality evaluation of materiel in the custody of supply and storage activities. This standard supplements TM 743-200-1 by providing a systematic procedure for storage cyclic inspection of projection set specified in paragraph 2 and indicates the limiting degree of deterioration, damage, unsatisfactory storage practices, and other characteristics which are acceptable. It also establishes the basis for identifying materiel requiring segregation, remedial care and preservation, or reclassification action. Applicable requirements of the standard may be used for performing receipt and preshipment quality control inspections.

5. Reporting of Supply Bulletin Improvements. Reporting of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on

DA Form 2028 (Recommended Changes to Publications) and forwarded direct to US Army Electronics Command, ATTN: AMSEL-MA-SNV, Fort Monmouth, NJ 07703.

Section II STORAGE AND SPECIAL INSTRUCTIONS

6. Preservation, Packaging, and Packing.

Preservation, packaging, and packing of projection set shall be level A or C as specified.

7. Marking.

Marking of projection set will be in accordance with MIL-STD-129.

8. Storage.

a. Type. The preferred type of storage environment for projection set is a controlled humidity warehouse or heated warehouse.

b. Age Control. Projection set will be issued on a first-in-first-out (FIFO) basis by date of manufacture, or date of rebuild. The dates can be established from the original government procurement contract number or the rebuild lot number.

c. Shelf Life. Projection set is subject to deterioration during storage and is required to be inspected and tested as specified in appendix D.

d. Precautionary Actions. When projection set is being prepared for storage or issue, be sure that there are enough personnel and sufficient moving apparatus available to eliminate the possibility of damage to the equipment or injury to the personnel.

9. Disposition of Rejected Materiel.

Rejected materiel will be tagged and reclassified into the proper condition code in accordance with AR 725-50. For other than new materiel, all defective units in a lot shall be repaired, or disposition requested in accordance with AMC and depot procedures.

APPENDIX A REFERENCES

<p>AR 725-50 MIL-P-116 MIL-STD-109B MIL-STD-129D PPP-B-585 PPP-B-601 PPP-B-621 PPP-B-636 PPP-F-320 PPP-T-45 PPP-T-76 QQ-S-781 TM 743-200-1</p>	<p>Requisitioning, Receipt, and Issue Systems Preservation, Methods of Quality Assurance Terms and Definitions Marking for Shipment and Storage Box, Wood, Wirebound Box, Wood, Cleated Plywood Box, Wood, Nail and Lock Corner Box Fiberboard Fiberboard, Corrugated and Solid Sheet Stock Tape, Gummed, Paper Reinforced and Plain Tape, Pressure-Sensitive, Adhesive Paper Strapping Steel, Flat and Seals Storage and Materials Handling</p>
--	--

APPENDIX B FEDERAL NUMBERS AND TEST REQUIREMENTS

Type	FSN	Publication	Test Requirements
Projection Set, Motion Picture, Sound AS-2(1)	6730-663-9813	TM 11-6730-201-10	Paragraphs 22, 23, 23.1, 23.2, 23.3, and 23.4
		TM 11-6730-201-20	Paragraphs 3 and 3.1
		TM 11-6730-201-35	Paragraphs 3-4 through 3-10

APPENDIX C PRESERVATION, PACKAGING, AND PACKING

1. Preservation and Packaging.

Preservation and packaging shall be level A, or C as specified.

a. Level A.

(1) *Cleaning.* Each projection set shall be clean-

ed in accordance with process C-1 of MIL-P-116.

(2) *Drying.* Drying shall be accomplished in accordance with applicable procedure of MIL-P-116.

(3) *Preservation application.* None required.

(4) *Unit packaging.* Unit packaging shall be in

accordance with the methods prescribed in MIL-P-116 as specified herein.

(a) *Technical literature.* Technical literature shall be packaged method 1C-1 of MIL-P-116.

(b) *Belts, bottle assembly, brush, electron tubes, feed reel arm assembly, fuses lamps, lens paper, power card and takeup reel arm assembly.* Place all spares and accessory items securely within the designated spaces provided in the projector and lid. No further packaging will be required.

(c) *Projector, Motion Picture, Sound AQ-2A(1).* Each projector, containing required spares and accessories secured within designated spaces as specified in (b), above shall be packaged individually in accordance with method 1A-14 as follows: Install lids and secure with latches. Place projector cover, BQ-2(1), over the item. Cushion the unit on all surfaces with cells or pads or both fabricated from fiberboard conforming to PPP-F-320, type CF, class domestic, variety SW, grade 275, designed to protect all projections and absorb the shock of impact in handling and transit. Place the cushioned unit within a close-fitting fiberboard box conforming to PPP-B-636, type CF, class domestic, variety SW, grade 275. Close the box with tape conforming to PPP-T-45. Blunt all corners of the box and cover any exterior stapling or stitching with tape conforming to PPP-T-45. Place the box within a close-fitting barrier bag and heat-seal the closure. Place the sealed bag with contents within a close-fitting fiberboard box conforming to PPP-B-636, type CF, class weather-resistant. Cover any interior stapling or stitching of the box with tape conforming to PPP-T-45. Place the technical literature, packaged as specified in (a), above on top of the contents, directly under the lid of the container. Close the box in accordance with the appendix of the box specification.

(d) *Loudspeaker, Dynamic LS-170A//PFP-1.* Each loudspeaker with accessories, shall be packaged individually in accordance with method III as follows: Place the takeup reel in the side compartment in the loudspeaker case. Wind the speaker cable snugly around the four brackets on top of the loudspeaker case. Place the lid on the loudspeaker and secure with latches. Position loudspeaker cover, BQ-3(1), over the case. Cushion the unit on all surfaces with cells or pads or both fabricated from fiberboard conforming to PPP-F-320, type CF, class weather-resistant, variety SW, grade W5c, designed to protect all projections and absorb the shock of impact in handling and transit. Place the cushioned unit within a closefitting fiberboard box conforming to PPP-B-636, type CF, class weatherresistant. Close the box in accordance with the appendix of the box specification.

b. *Level C.* Projection set shall be preserved and packaged in a manner that will afford adequate protection against physical and environmental damage during shipment, handling, and limited intransit storage.

2. Packing.

Packing shall be level A, B, or C as specified. Shipping containers for all levels shall be capable of stacking and supporting superimposed loads during shipment and storage without damaging the container(s) or its contents.

a. *Level A.* Projection set, packaged as specified in paragraph 1 above, shall be individually packed within a close-fitting box conforming to PPP-B-601, oversize type; style 4, class 2; or PPP-B-585, style 2 or 3, class 3. Fiberboard boxes being placed directly in the shipping container shall be waterproofed with tape conforming to PPP-T-76, in accordance with the taping requirements of the appendix of the box specification. When the gross weight exceeds 200 pounds, or the container length and width is 48 x 48 x 24 inches or more and the weight exceeds 100 pounds, 3 x 4 inch skids, laid flat shall be applied in accordance with the requirements of the container specification, or if not specified in the specification, in a manner which will adequately support the item and facilitate the use of material handling equipment. Closure and strapping shall be in accordance with the applicable container specification or appendix thereto except that metal strapping shall conform to QQ-S-781, type 1, class B.

b. *Level B.* Projection set, packaged as specified in paragraph 1 above, shall be individually packed within a close-fitting box conforming to PPP-B-601, domestic type; PPP-B-621, style 4, class 1; or PPP-B-585, style 2 or 3, class 3. When the gross weight exceeds 200 pounds, or the container length and width is 48 x 24 inches or more and the weight exceeds 100 pounds, 3 x 4 inch skids, laid flat, shall be applied in accordance with the requirements of the container specification, or if not specified in the specification, in a manner which will adequately support the item and facilitate the use of material handling equipment. Closure and strapping shall be in accordance with the applicable container specification or appendix thereto.

c. *Level C.* Projection set, packaged as specified in paragraph 1 above, shall be packed in shipping containers that comply with federal or military specifications, in a manner that will afford adequate protection to the package and its contents against physical and environmental deterioration and damage, during limited shipment, handling and intransit storage.

APPENDIX D

STORAGE QUALITY ASSURANCE PROVISIONS

1. Index Number.

The four-digit index number of this storage quality assurance provision (SQAP) (reserved for future use in automatic data processing) is to be assigned.

2. Federal Stock Number.

Each item listed in appendix B, with its federal stock number is subject to the provisions of this SQAP.

3. Definitions.

Special terms used in this SQAP are defined as follows:

a. Acceptance Quality Level (AQL). The nominal value expressed in terms of percent defective of defects per 100 units, whichever is applicable, specified for a given group of defects of product. It is the maximum allowable accidental departure from specification requirements which can be tolerated.

b. Storage Quality Level (SQL). That quality level applicable to storage sampling inspection expressed in terms of percent defective or defects per 100 units, whichever is applicable, specified for a given group of defects of a product. It is the maximum allowable accidental departure from specification requirements which can be tolerated.

c. Defect. Any nonconformance of the unit of product with specified requirements.

d. Defective Unit. A unit of product which contains one or more defects.

e. Critical Defect. A defect that judgement and experience indicate is likely to result in hazardous or unsafe conditions for individuals using, maintaining, or depending on the product performance of the tactical function of a major end item, such as a ship, aircraft, tank, missile, or space vehicle.

f. Major Defect. A defect other than critical that could result in failure, or materially reduce the usability of the product for its intended purpose.

g. Minor Defect. A defect that does not materially reduce the usability of the unit of product for its intended purpose, or is a departure from established standards having little bearing on the effective use or operation of the unit.

h. Mechanical-Visual Inspection. An inspection by visual means to observe the item and/or its packaging and packing to detect deficiencies. Mechanical-visual inspection may require disassembly.

i. Technical Inspection. A complete functional inspection, including disassembly, where required, and performance testing and/or laboratory testing.

4. Specifications, Technical Manuals, and Other Documents.

The following documents, of the latest issue in effect contain inspection and testing information, data and

instructions applicable to these quality assurance provisions:

Publication	Title
DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (types 7, 8, and 9), Supply Bulletins, and Lubrication Orders
DA Pam 310-7	U.S Army Equipment Index of Modification Work Orders
AR 725-50	Requisitioning, Receipt, and Issue System
MIL-P-11268	Parts, Materials and Processes Used in Electronic Communications Equipment
MIL-M-13231	Marking of Electronic Items
MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-108	Definitions of and Basic Requirements for Enclosures for Electric and Electronic Equipment
MIL-STD-252B	Wired Equipment, Classification of Visual and Mechanical Defects
MIL-STD-454	Standard General Requirements for Electronic Equipment
MIL-STD-461	Electromagnetic Interference Characteristics Requirements for Electronic Equipment
MIL-STD-726	Packaging Requirement Code
MIL-STD-810	Environmental Test Methods
TB 750-236	Calibration Requirements for the Maintenance of Army Material
TB SIG 355-1	Depot Inspection Standard for Repaired Signal Equipment
TB SIG 355-2	Depot Inspection Standard for Refinishing Repaired Signal Equipment
TB SIG 355-3	Depot Inspection Standard for Moisture and Fungus Resistant Treatment
TB SIG 355-4	Depot Inspection Standard for Balancing Rotating Parts and Assemblies.
TM 11-6730-201-10	Operators Manual Projection Set, Motion Picture, Sound AS-2(1)
TM 11-6730-201-20	Organizational Maintenance Manual Including Repair Parts and Special Tool Lists: Projection Set, Motion Picture, Sound AS-2(1)
TM 11-6730-201-35	Direct Support, General Support, and Depot Maintenance Manual Including Repair Parts and Special Tool Lists: Projection Set, Motion Picture, Sound AS-2(1)
TM 38-750	The Army Maintenance Management System (TAMMS)

5. Other Directives.

Publication	Title
AR 795-17	General Policies and Principles for Furnishing Army Material on a Grant Aid Basis
AR 795-204	General Policies and Principles for Furnishing Defense Articles and Service on a Sale or Loan Basis

6. Inspection Criteria.

a. Lot Criteria.

(1) *Lot definition.* A lot is defined as a group of like items from which a sample is to be drawn and inspected to determine conformance with the acceptability criteria. The following are examples:

(a) A group of like items in storage, which were received in a shipment, for the following identical markings:

- 1 Purchase order number.
- 2 Date packaged or packed.
- 3 Depot certification stamp and date.

(b) A group of like items repaired or rebuilt by the Maintenance Division in one production run.

(2) *Lot formation.* The items shall be assembled into identifiable lots. Each lot shall, as far as practicable, consist of units of product of a single type, grade, class, size, and composition manufactured, repaired, or rebuilt at the same time and stored under the same conditions. It is recommended that equipments from different limited production buys be placed in different lots and that the equipment serial numbers, by limited production buy, be used as lot information criteria.

(3) *Lot size.* The lot size is the total number of individual like items in the lot that is to be inspected.

b. Sampling Procedure.

(1) *Sample selection.* Select samples of material in a way which will assure that each unit in the lot has an equal chance of being selected. Biased methods, such as selecting items from the same position in a container, pallets, or stacks; taking items all from one location; or selecting items that appear defective, will not be used.

(2) *Sample size.* Use table I of MIL-STD-105D, General Inspection Level II, to obtain the sample size using the storage quality levels shown in (3) below.

(3) *Storage quality levels (SQL).*

(a) Mechanical-visual inspection: critical SQL 1.0 percent; major SQL 2.5 percent; minor SQL 10 percent.

(b) Electrical: critical SQL 1.0 percent; major SQL 2.5 percent.

(c) Preservation, packaging, packing, and marking: major SQL 4.0 percent; minor SQL 10 percent.

(d) The acceptance or reject number for the above SQLs shall be the same as those shown for comparable quality levels (AQLs) in table IIA of MIL-STD-105D.

c. Inspection Requirements. For electrical inspection, refer to appendix B. The following mechanical-visual inspection shall be performed:

(1) Inspect case for physical damage, condition, and finish.

(2) Inspect all controls and switches for proper operation and loose or missing hardware.

(3) Inspect all connectors, plugs, and cord receptacles for condition and damage.

(4) Inspect cabling and wiring for potential short circuits, cuts, breaks, fraying, deterioration, kinks,

and strain.

(5) Inspect solder connections for missing solder, cold solder, insufficient solder, excessive solder, and improper wrap.

(6) Inspect for illegible, incorrect, or missing markings.

(7) Inspect for corrosion, dirt, moisture, and fungus.

(8) Inspect all parts and hardware for damage and condition.

d. Defect Classification.

(1) *Mechanical-Visual.*

(a) *Critical.* Refer to the definition of a critical defect as specified in *e* above.

(b) *Major.*

1 Damage due to handling or storage (crushed, deformed, or broken).

2 Soldering: defects as listed in MIL-STD-252B.

3 Solderless connectors: defects as listed in MIL-STD-252B.

4 Cabling and wiring: defects as listed in MIL-STD-252B.

5 Fastening Hardware and assembly defects as listed in MIL-STD-252B.

6 Foreign objects: defects as listed in MIL-STD-252B.

7 Potential short circuits: defects as listed in MIL-STD-252B.

8 Finish: defects as listed in MIL-STD-252B.

9 Marking: defects as listed in MIL-STD-252B.

10 Parts: defects as listed in MIL-STD-252B.

11 Contacts: defects as listed in MIL-STD-252B.

12 Plating: painting or MFP missing.

13 Dimensional: a dimensional defect which directly affects interchangeability, assembly, or operation.

(c) *Minor.*

1 Soldering: defects as listed in MIL-STD-252B.

2 Solderless connectors: defects as listed in MIL-STD-252B.

3 Cabling and wiring: defects as listed in MIL-STD-252B.

4 Hardware: defects as listed in MIL-STD-252B.

5 Finish: defects as listed in MIL-STD-252B.

6 Marking: defects as listed in MIL-STD-252B.

7 Parts: defects as listed in MIL-STD-252B.

8 Contacts: defects as listed in MIL-STD-252B.

(2) *Electrical.*

(a) *Critical.* Refer to the definition of a critical defect, 3e above.

(b) *Major.* Any electrical defect, other than critical, that does not meet the requirements specified for each item shall be considered a major defect.

(c) *Minor.* None. All electrical defects shall be considered critical or major, as applicable.

(3) *Packaging and marking, major.*

(a) Use of improper or defective material.

(b) Quantity in unit package not as specified.

(c) Incorrect packaging method applied.

(d) Cushioning or padding omitted.

(e) Cushioning or padding inadequate for the protection of the barrier material from projections, sharp edges, or other similar features of the item.

(f) Cushioning inadequate for the physical and mechanical protection of the item.

(g) Unsealed, punctured, or improperly sealed barrier bag, wrap, or envelope.

(h) Stock number omitted, incorrect, or illegible.

(i) Nomenclature omitted, incorrect, or illegible.

(j) Different stock numbered items in the same unit package.

(4) *Packaging and marking, minor.*

(a) Item not properly blocked or braced within the unit package to prevent movement.

(b) Packaging material damaged.

(c) Conforming or cushioning wraps are not snug fitting and contain voids.

(d) Air not expelled from barrier prior to sealing.

(e) Any item of marking information other than (3) (h), (i), and (j) listed above under major defects, omitted, incorrect, or illegible.

(5) *Packing and marking, major.*

(a) Use of improper or defective material.

(b) Quantity in pack not as specified.

(c) Gross weight in excess of specified amount.

(d) Box closure not as specified.

(e) Type, grade, class, and style of the shipping container not as specified.

(f) Strapping omitted (when required).

(g) Strapping inadequate or incorrectly applied (when required).

(h) Items not adequately blocked, braced, or cushioned within the shipping container to prevent movement or damage.

(i) Shipping documents or packing list omitted.

(j) Stock number omitted, incorrect, or illegible.

(k) Nomenclature omitted, incorrect, or illegible.

(l) Marking of quantities of items in pack omitted, incorrect, or illegible.

(m) Destination marking omitted, incorrect, or illegible.

(n) Special marking or labeling (when required) omitted, incorrect, or illegible.

(o) Overseas code marking (when required) omitted, incorrect, or illegible.

(6) *Packing and marking, minor.*

(a) Unsealed carton.

(b) Defective taping or sealing of carton.

(c) Any other box defect which may be considered minor by definition of MIL-STD-105.

(d) Any item of required marking information other than (5) (j) through (o) listed above under major defects, omitted, incorrect, or illegible.

f. *Calibration of Measuring and Test Equipment.* All measuring and test equipment shall have been calibrated and certified within its prescribed period, in accordance with TB 750-236, before use. Certification shall be affixed in such a way as to preclude any altering or tampering.

g. *Storage Inspection Records.* Results of inspections and tests shall be recorded on data sheets and a copy attached to each unit.

7. *Inspection Frequency.*

a. Controlled humidity warehouse: 60 months.

b. Heated warehouse: 36 months.

c. Unheated warehouse: 18 months.

8. *Type of Storage.*

Controlled humidity warehouse or heated warehouse.

9. *Other Instructions.*

a. *Rejected Lots.* Each rejected lot shall be tagged and reclassified into the proper condition code in accordance with AR 725-50. For other than new material, all defective units in a lot shall be repaired, or disposition requested in accordance with AMC and depot procedures.

b. *Repackaging of Samples Inspected.* Restore the packaging of the samples inspected and accepted to the level of the lot which the samples were drawn.

10. *Special Requirements.*

If the subject items are allocated for Foreign Military Sales, Grant Aid, or Loan, the following additional requirements must be met.

a. *Policies and Special Conditions.*

Publication	Title
AR 795-17	General Policies and Principles for Furnishing Army Material on a Grant Aid Basis.
AR 795-204	General Policies and Principles for Furnishing Defense Articles and Services on a Sale or Loan Basis.
DD Form 1513	Offer and Acceptance.

NOTE

Special terms, conditions, and agreements with the customer country and shown on the DD Form 1513 must be complied with as well as any special instructions from the responsible commodity command.

b. *Basic Issue List Items (BILI)*. BILI deck, normally furnished to the depots by USAECOM BILI Office, Lexington Blue Grass Army Depot, Lexington, KY., office symbol AMSEL-MA-AM-IL, shall be used.

c. *Level A Packaging and Packing*. Level A packaging and packing is mandatory for Foreign Military Sales and Grant Aid shipments.

d. *Depot Documentation*. Depot documentation of final acceptance shall be furnished the ECOM quality check team before ECOM inspection.

By Order of the Secretary of the Army:

Official:

VERNE L. BOWERS,
Major General, United States Army,
The Adjutant General.

W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.

Distribution:

Active Army:

CNGB (1)
ACSC-E (2)
USAARENBD (1)
USACDCCEA (1)
USACDCCEA (Ft Huachuca) (1)
AMC (1)
CONARC (5)
ARADCOM (2)
OS Maj Comd (4)
USASTRATCOM (2)
LOGCOMD (3)
ECOM (3)
MICOM (3)
TECOM (3)
MUCOM (3)
MECOM (3)
WECOM (3)

Armies (2)
Corps (2)
USAESC (40)
USARV (5)
Army Dep (2) except
SAAD (50)
LBAD (20)
TOAD (20)
LEAD (7)
ANAD (10)
ATAD (10)
Gen Dep (2)
Sig Sec, Gen Dep (5)
Sig Dep (12)
Units org under fol TOE:
11-158 (1)

ARNG & USAR: None.

For explanation of abbreviations used, see AR 310-50.

END

10-16-82

DATE



DEPARTMENT OF THE ARMY

MICROFORM
TEST TARGET

