

MIL-B-12841B
18 February 1970
SUPPLEMENTING
MIL-P-12841A(ORD)
22 September 1960

MILITARY SPECIFICATION
BASIC ISSUE ITEMS FOR MILITARY VEHICLES,
CARRIAGES AND EQUIPMENT;
PREPARATION FOR SHIPMENT AND STORAGE OF

This specification is mandatory for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 This specification provides the general requirements for preservation, packaging, packing, marking, and stowage of Basic Issue Items (BII) for shipment and storage.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

SPECIFICATIONS

Federal

QQ-S-781	- Steel Strapping, Flat.
PPP-B-585	- Boxes, Wood, Wirebound.
PPP-B-601	- Boxes, Wood, Cleated-Plywood.
PPP-B-621	- Boxes, Wood, Nailed and Lock-Corner.
PPP-B-636	- Box, Fiberboard.
PPP-B-640	- Boxes, Fiberboard, Corrugated, Triple-Wall.
PPP-E-540	- Envelopes; Water-Resistant, for Packing List and Shipping Documents.
PPP-P-320	- Fiberboard; Corrugated and Solid, Sheet Stock (Container Grade), and Cut Shapes.
PPP-P-700	- Protector, Packing List.

PBC-PACK

MIL-B-12941B**Military**

- MIL-P-116** - Preservation, Methods of.
- MIL-B-40642** - Box, Fiberboard, Corrugated, Triple Wall, 1,000-Pound Capacity.
- MIL-B-43291** - Boxes: Fiberboard; Corrugated, Double-Wall, Weather Resistant.

STANDARDS**Military**

- MIL-STD-105** - Sampling Procedures and Tables for Inspection by Attributes.
- MIL-STD-129** - Marking for Shipment and Storage.
- MIL-STD-794** - Parts and Equipment, Procedures for Packaging and Packing of.
- MIL-STD-1186** - Cushioning, Anchoring, Bracing, Blocking, and Waterproofing; with Appropriate Test Methods.

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

UNIFORM CLASSIFICATION COMMITTEE**Uniform Freight Classification Rules**

(Application for copies should be addressed to the Uniform Classification Committee, 202 Union Station, 516 W. Jackson Blvd., Chicago, Ill. 60606.)

AMERICAN TRUCKING ASSOCIATIONS, INC.**National Motor Freight Classification Rules**

(Application for copies should be addressed to the American Trucking Associations, Inc., 1616 P Street, NW Washington, D. C. 20036.)

3. REQUIREMENTS

3.1 First packed BII. The first packed BII shall be inspected as specified in 4.1.1. This sample BII shall meet the applicable requirements specified herein.

3.1.1 First BII stowed on, in or under vehicle, carriage and equipment. The first complete BII stowed on, in or under vehicle carriage, and equipment shall be inspected as specified in 4.1.2. This sample BII stowed on, in or under vehicle, carriage, and equipment shall meet the applicable requirements specified herein.

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3.2 Preservation and packaging. Preservation and packaging of BII shown on BII lists (see figure 1) shall be level A or C as specified in the contract or order (see 6.2).

3.2.1 Level A.

3.2.1.1 Repair parts, tools, fire-control items and other equipment. Repair parts, tools, hand tools, fire-control items and other equipment shown on applicable BII list shall be preserved and packaged in accordance with the level A requirements of the individual document for the specified item; or MIL-STD-794 for Air Force use.

3.2.1.1.1 Publications. Publications and technical manuals including equipment log book and record forms shall be packaged in accordance with method IC-1 of MIL-P-116.

3.2.1.1.2 Portable fire extinguishers. Unless otherwise specified (see 6.2), portable fire extinguishers shall be packaged in fiberboard boxes conforming to style RSC, class weather resistant, grade W5c of PPP-B-636. Box closures shall be in accordance with the taping requirements of the appendix to the box specification.

3.2.1.2 Consolidation of unit packages. Small unit packages shall be consolidated in a box conforming to style RSC, class weather-resistant, grade W5c of PPP-B-636. Cube of the box shall not exceed one and one-half cubic feet. Closure shall be in accordance with the taping requirements of the appendix to the box specification.

3.2.2 Level C. For Army purchase, the BII shall be preserved and packaged in accordance with the requirements specified for level A, except that, when known shipment and storage conditions would support elimination or modification of the BII level A requirements in level C shipments of the vehicle, carriage and equipment, reduced preservation and packaging requirements may be utilized. If BII level C preservation and packaging requirements are inadequate, and if reduced level A requirements have not been provided by the procuring activity, proposed requirements shall be submitted to the responsible procuring activity for review and acceptance. For Navy purchases, level C minimum preservation and packaging shall be in accordance with 3.2.2.1 through 3.2.2.4

3.2.2.1 Repair parts, tools, fire-control items and other equipment. Repair parts, tools, hand tools, fire-control items and other equipment shown on applicable BII list shall be preserved and packaged in accordance with the level C requirements of the individual documents for the specified item; or MIL-STD-794 for Air Force use.

3.2.2.2 Publications. Publications and technical manuals including equipment log books and record forms shall be packaged in sealed waterproof bags or wraps.

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3.2.2.3 Portable fire extinguishers. Portable fire extinguishers shall be individually packaged in corrugated fiberboard boxes having a minimum 275 pound manufacturers certificate.

3.2.2.4 Consolidation of unit packages. Small unit packages shall be consolidated in a corrugated fiberboard box having a minimum 350 pound manufacturers certificate.

3.3 Packing. Packing shall be level A, B, or C, as specified in the contract or order (see 6.2).

3.3.1 Level A.

3.3.1.1 Basic issue items. The BII shall be packed in exterior containers conforming to style A of PPP-B-601 (overseas type), or class 2, style 2 or 4 of PPP-B-621, except top (see 3.3.1.1.3). When the vehicle carriage, or equipment preservation requirements specify stowage of containers in closed cabs, vans, closed hulls, turrets, or under vehicle protective closures; containers conforming to styles 2 or 3 of PPP-B-585, class optional, V3c or V3s of PPP-B-636, class 2, style G of PPP-B-640, or MIL-B-43291, may be used. Gross weight and size limitations of exterior containers shall not exceed the limitations of the applicable container specification. Closure and strapping shall conform to the requirements of the specification used.

3.3.1.1.1 Packing procedure. Pioneer tools, heavy material or equipment and fire extinguishers shall be placed in the bottom of exterior container and arranged, cushioned, blocked, and braced in a manner to prevent movement and damage within the container.

3.3.1.1.2 Publications. Publications and technical manuals, except equipment log book and record forms, packaged as specified in 3.2.1.1.1, shall be packed in the same exterior container with repair parts, tools, and equipment and placed on top of the contents. The equipment log book and record forms shall be securely attached in or on the vehicle, carriage or equipment.

3.3.1.1.3 Container top. Container top for PPP-B-601 and PPP-B-621 boxes shall be constructed from minimum 1/2 inch thick, 5 ply plywood sheathing, bonded with exterior type glue.

3.3.1.1.4 Blocking and bracing. Blocking and bracing shall be in accordance with MIL-STD-1186.

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3.3.1.1.5 Skids and pallet bases. The PPP-B-585, PPP-B-601 and PPP-B-621 containers exceeding 250 pounds gross weight shall be provided with skids in accordance with the requirements of the specification used. PPP-B-640 containers exceeding 250 pounds shall be provided with pallet bases conforming to MIL-B-40642.

3.3.1.2 Quantity and size of containers. The quantity and size of exterior containers shall be kept to a minimum. Dimensions of containers shall be governed by the stowage space available in or on each specific vehicle, carriage, and equipment or open top railroad car. Dimensions of containers shall be such that addition of BII containers to the loaded vehicle, carriage, or equipment shall not increase the cube. Stowed containers shall permit loading to the full capacity of the transportation medium. When size of items permit, container sizes shall be such as to permit stowage beneath vehicle with clearance accommodation for vehicle movement while in transit.

3.4 Level B. For Army purchases, the BII shall be packed as specified in 3.3.1.1. For Navy purchases, the BII shall be packed as specified in 3.3.1.1 except that domestic type containers shall be used.

3.5 Level C. For Army purchases, the BII shall be packed in accordance with the requirements specified for level A, except that when known shipment and storage conditions would support elimination of modification of the BII level A requirements in level C shipments of the vehicle, carriage and equipment, reduced packing requirements may be utilized. If BII level C packing requirements are inadequate, and if reduced level A requirements have not been provided by the procuring activity, proposed requirements shall be submitted to the responsible procuring activity for review and acceptance. For Navy purchases, the BII shall be packed in a manner to insure carrier acceptance and safe delivery at destination. Containers and packing shall comply with Uniform Freight Classification Rules or National Motor Freight Classification Rules (see 2.2).

3.6 Marking.

3.6.1 Unit packages and PPP-B-636 boxes with two or more unit packages. In addition to any special marking required by the contract or order (see 6.2), each unit and PPP-B-636 box with two or more unit packages shall be marked in accordance with MIL-STD-129 and as follows:

Federal stock number
(FSN).

(Required only on packages with
single item or multiple items
with the same FSN.)

Item description.

(PPP-B-636 boxes with two or more
unit packages shall be marked
"ASSORTED BII" in lieu of item
description.)

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Quantity and unit of
issue.(Required only on packages with
single item or multiple items
with the same FSN.)

3.6.2 Marking exterior containers. In addition to any special marking required by the contract or order (see 6.2), each exterior container shall be marked in accordance with MIL-STD-129 and as follows:

Federal stock number

(Of the major item to which
the BII is related.)Vehicle USA registration
number(Required only on sets with BII
shortages and when match-marking
is required.)

Item description

(Containers with multiple items
with different FSN shall be marked
"ASSORTED BII".)

3.6.2.1 Special handling markings. The following special handling markings shall be applied, when required, on the exterior containers in accordance with the applicable requirements of MIL-STD-129.

Fragile items

Arrows

Center of balance and sling points

Use no hooks

Load bearing areas

3.6.3 Communication equipment marking. Markings on interior packages and exterior containers shall be retained for identification purposes. When such markings are obscured or obliterated, consolidated containers shall be marked as follows:

"Associated parts for _____ in _____."
radio vehicle

3.6.4 Packing list. Packing lists conforming to figure 1 shall be provided for exterior containers containing multiple items with different FSN.

3.6.4.1 Single container. Two completed packing lists shall be provided. One copy shall be placed in an envelope conforming to class 1 of PPP-E-540, closed, and placed inside the container on top of the contents. The other copy shall be placed in the same type envelope and securely attached to the outside of the container.

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3.6.4.2 Two or more containers. Two completed packing lists shall be provided for each container. One copy shall be placed in an envelope as specified in 3.6.4.1 and placed inside each container. The other copy for each container shall be placed in the same type envelope and securely attached to the outside of number 1 container.

3.6.4.3 Packing list protector. For overseas shipments, the envelope on the outside of containers stowed in exposed locations shall be covered with a packing list protector conforming to PPP-P-700. Care shall be exercised not to deface the packing list.

3.7 Stowage of BII. When specified (see 6.2), containers shall be arranged in a manner to provide clearance for sling cables, lifting eyes, and vehicle protective closures. Containers shall be stowed with the container top up. Containers without skids shall be placed on 1 by 4 inch wood cleats when stowed in exposed locations that do not provide ventilation between the containers and vehicle, carriage, and equipment, and in between containers when stacking is required. Cleats shall be secured in a manner that will prevent shifting and damage to contacting surfaces. For CONUS shipment, containers shall be placed on the floor of the transportation medium, with clearance accommodation for vertical movement of vehicle, when space under the vehicle is utilized.

3.7.1 Strapping. Exterior containers shall be securely strapped in or on the vehicle, carriage, and equipment or open top railroad car for domestic shipment with minimum 3/4 inch strapping conforming to type I, class B of QQ-S-781. Strapping shall be applied lengthwise and girtwise on BII containers stowed on saddles or racks. Fiberboard conforming to PPP-F-320 shall be used under strapping that is in contact with painted surfaces of the item. Containers shall be blocked as required to prevent any movement.

3.8 Storage of BII. Storage of BII containers shall be in accordance with 3.8.1 or 3.8.2, as applicable.

3.8.1 Sheltered storage. The BII containers stowed in or on vehicle, carriage, and equipment, which are placed in sheltered (not exposed to elements) areas at destination, shall remain in place with the vehicle, carriage, and equipment.

3.8.2 Unsheltered storage. The BII containers stowed in exposed locations on the vehicle, carriage, and equipment, which are placed in unsheltered areas, shall be removed and placed inside warehouses or other structures.

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or

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order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to insure supplies and services conform to prescribed requirements.

4.1.1 First packed BII. Inspection of the first packed BII (see 3.1) shall consist of the examination specified in 4.4.1 and test specified in 4.5.1.

4.1.2 First stowed BII. Inspection of the first stowed BII (see 3.1.1) shall consist of the examination specified in 4.4.2.

4.2 Quality conformance inspection.

4.2.1 Lot.

4.2.1.1 Production packed BII lot. A lot for production packed BII shall consist of all exterior containers during an identifiable production period and submitted at one time for inspection.

4.2.1.2 Production stowed BII lot. A lot for production stowed BII shall consist of all vehicles, carriages, and equipment with containers stowed in place during an identifiable production period and submitted at one time for inspection.

4.3 Sampling for production packed BII examination. Samples for packing examination shall be selected in accordance with level S-1 of MIL-STD-105, using the single sampling plan.

4.3.1 Sampling of production stowed BII examination. Samples for stowing examination shall be selected in accordance with level S-3 of MIL-STD-105, using the single sampling plan.

4.3.2 Sampling for testing production packed BII. Samples for testing production packed BII shall be selected from each lot (see 4.2.1.1) that has passed the examination specified in 4.4.1. Samples shall be selected at the rate of two per month or two of each 100, whichever occurs first.

4.4 Examination.

4.4.1 Packing examination. Production packed BII selected as specified in 4.3 shall be examined using the defects specified in table I. The acceptable quality level (AQL) 4.0 shall be used for basis of percent defective.

4.4.2 Stowing examination. Production stowed BII selected as specified in 4.3.1 shall be examined using the defects specified in table II. The AQL 4.0 shall be used for basis of percent defective.

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4.4.3 Failure. Failure of the first packed and first stowed BII to pass inspection specified in 4.4.1 and 4.4.2 shall be cause for rejection and refusal to continue acceptance by the Government, until objective evidence has been provided by the supplier, that corrective action has been taken to eliminate the conditions which cause rejection.

4.5 Tests.

4.5.1 Packed BII. Samples selected in accordance with 4.3.2 shall be tested by the supplier. Tests on packed BII shall consist of the packing tests of MIL-STD-1186.

4.5.1.1 Failure. Failure of the samples to pass the specified tests shall be cause for the Government to refuse to accept subsequent packed BII until it has been proved to the satisfaction of the Government that cause of nonconformance revealed by the test, has been corrected.

5. PREPARATION FOR DELIVERY

This section is not applicable to this specification.

6. NOTES

6.1 Intended use. The intended use of this specification is as follows:

- (a) In conjunction with the individual packaging requirements for the specific item.
- (b) For general packing and stowing requirements.
- (c) For marking requirements.

6.2 Ordering data. Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Selection of applicable level of preservation and packaging (see 3.2) and applicable level of packing (see 3.3).
- (c) If portable fire extinguishers are designated as vehicle installed items, without packing (see 3.2.1.1.2).

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- (d) Any special marking required (see 3.6.1 and 3.6.2).
- (e) If stowage of HII as prescribed is required (see 3.7).

Custodians:

Army - AT
Navy - YD
Air Force - 84

Preparing activity:

Army - AT
Project No. PACK-0032

Review activities:

Army - EL, GL, MI, MU, SM, WC

User Activities:

Navy - MC, SA

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BII PACKING LIST

Nomenclature (vehicle, carriage, equipment) _____

Box No. _____

Packaged and Packed by _____

for contract _____ in accordance with MIL-B-

12841 and BII list _____ dated _____

Sheets _____ through _____ with revisions as

follows:

ITEM NO.	FSN AND DESCRIPTION	QTY	REMARKS
1			*Substitute
2			Authority:
3			
4			
5			
6			
7			

*Denotes deviations such as BII shortages, substitutions, and deletions.

Authority for deviation is shown in remarks column.

Figure 1. Packing List

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Table I. Defects for packing

Defects	Boxes Wood	Boxes Fiberboard
Container not as specified (3.3.1.1)	X	X
Weight and size limitations exceeds limitations of specification used (3.3.1.1)	X	X
Closure and strapping not in accordance with specification used (3.3.1.1)	X	X
Packing procedure not as specified (3.3.1.1.1)	X	X
Publications and manuals not packed as specified (3.3.1.1.2)	X	X
Container top not as specified (3.3.1.1.3)	X	
Blocking and bracing not as specified (3.3.1.1.4)	X	X
Skids and pallet bases not as specified (3.3.1.1.5)	X	X
Quantity and size of container not kept to a minimum (3.3.1.2)	X	X
Marking not as specified (3.6)	X	X
Packed items not in accordance with packing list (3.6.4)	X	X
Packing list missing (3.6.4.1 and 3.6.4.2)	X	X
Packing list protector missing (3.6.4.3)	X	

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Table II. Defects for stowage

Defects	Boxes Wood	Boxes Fiberboard
Fiberboard containers not stowed as specified (3.3.1.1)		X
Containers stowed in a manner which increases overall cube (3.7)	X	
Containers stowed in a manner which obstructs slings cables, lifting eyes, and vehicle pro- tective closures (3.7)	X	X
Container not stowed with the container top up (3.7)	X	X
Wood cleats missing (3.7)	X	
Strapping not as specified (3.7.1)	X	X