

**MIL-STD-406**

1 February 1957

**MILITARY STANDARD**  
**VISUAL INSPECTION STANDARDS**  
**FOR**  
**TERNE PLATE CANS AND**  
**STEEL BOXES USED IN SMALL**  
**ARMS AMMUNITION PACKAGING**



**MIL-STD-406**  
1 February 1957

**OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE  
WASHINGTON 25, D. C.**

**Supply and Logistics**

Visual Inspection Standards for  
Terne plate Cans and Steel Boxes  
Used in Small Arms Ammunition Packaging  
**MIL-STD-406**

1. This standard has been approved by the Department of Defense and is mandatory for use by the Departments of the Army, the Navy, and the Air Force, effective 1 March 1957.
2. In accordance with established procedure, the Standardization Division has designated the Ordnance Corps, the Bureau of Ordnance, and the Air Force, respectively, as Army-Navy-Air Force custodians of this standard.
3. Recommended corrections, additions, or deletions should be addressed to the Standardization Division, Office of the Assistant Secretary of Defense (Supply and Logistics), Washington 25, D. C.

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## FOREWORD

This standard was prepared under the direction of the Office, Chief of Ordnance, to be used to supplement specifications for steel boxes and terne plate cans used in the packaging of small-arms ammunition. It replaces the following publications on the same subject: ORD-SIP-S327, 1 April 1954, and ORD-SIP-S327, Amendment 1, 1 November 1955.

This publication serves to create a military standard which evaluates and illustrates a practical majority of defects assembled as a result of extensive surveys covering box, can and small arms ammunition manufacturing facilities.

The format used retains most of the features of the formats of the publications it replaces because experience has proved that the numbering of illustrations to conform to the numbering of visual defects in the applicable detail specifications, special treatment of indexes and specialized grouping have served to facilitate inspection, training, and general use.

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## 1. SCOPE AND PURPOSE

**1.1 Scope.** This standard provides procedures for determining and evaluating defects in steel boxes and terne plate cans used in the packaging of small-arms ammunition and the standard shall be used as a supplement to pertinent specifications.

**1.2 Purpose.** The purpose of this standard is to—

- a. Create standardization of defect nomenclature and establish the limits of defectiveness for steel box and terne plate can acceptance inspection at vendors' plants, and receiving inspection at ammunition facilities.
- b. Provide visual defect standards for use in connection with acceptance inspection of packed ammunition.
- c. Serve as a visual aid in the training of personnel engaged in the manufacture and inspection of boxes and cans.
- d. Provide visual standards to be used as a guide in the evaluation of the resistance to corrosion of surface treated, painted steel boxes.

## 2. REFERENCED DOCUMENTS

### 2.1 Standards.

MIL-STD-105—Sampling Procedures and Tables for Inspection by Attributes.

## 3. DEFINITIONS

**3.1 General.** Definitions of Standard MIL-STD-105 are applicable.

**3.2 Specific.** For the purpose of this standard the following definitions shall apply:

**3.2.1 Permissible defect.** A condition which, though not desirable from an appearance standpoint, may be permitted for reasons of economy.

**3.2.2 Incidental defect.** A condition least desirable from an appearance standpoint, and the frequency of occurrence of boxes and cans having such defects is limited for acceptable lots by means of an Acceptable Quality Level.

## 4. GENERAL REQUIREMENTS

**4.1 General.** The descriptions and definitions of defects established in this standard are those commonly occurring. Any other defects not listed, present in the lot, shall be reported. If, in the opinion of the Government inspector, the other defects be serious, complete information, recommendations and request for disposition shall be submitted through proper channels.

## 5. DETAIL REQUIREMENTS

### 5.1 Classification.

**5.1.1 Defect grouping.** For convenience in referencing, the defect lists, defect photographs, and color tolerances are grouped as follows:

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## LIST OF DEFECTS

### Boxes, Ammunition, Cal. .30, M19A1, and Cal. .50, M2A1

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1.	Incomplete Manufacture	4
1-A.	Incomplete Latch	4
1-B.	Cover Emboss and/or Embossed Stop Missing	4
1-C.	Hinge Pin Missing	4
1-D.	Gasket Retainer Improperly Flanged	4
1-E.	End Handle Missing	5
2.	Incorrect Assembly	5
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2-D.	Body Hinge Off-Center More Than $\frac{1}{2}$ "	5
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2-Z.	Latch Link Retainer Off-Center More Than $\frac{1}{2}$ "	10
2-AA.	Latch Link Retainer and/or Cover Hinge Not Flush With Cover With Gap Exceeding $\frac{1}{2}$ "	10
2-BB.	Radius Outside Bottom	10
2-CC.	Body Seam on Opposite End	10
3.	Unsatisfactory Workmanship: Burrs, Rough Spots, Sharp Projections, Cracks, Splits, Buckles	10
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NOTE.—In general, except for defects where severity is not pertinent, the illustrations define the following degrees of defectiveness:

“Worst” Permissible

“Worst” Incidental

Example of Major (Minor when applicable).

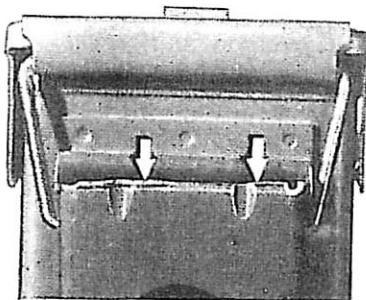
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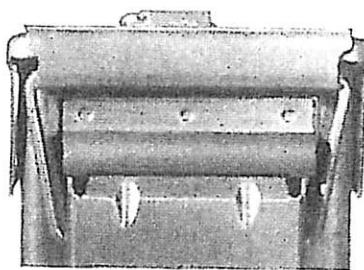
**BOXES, AMMUNITION, CAL. .30, M19A1 AND CAL. .50, M2A1**

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— No. 1. Incomplete Manufacture —

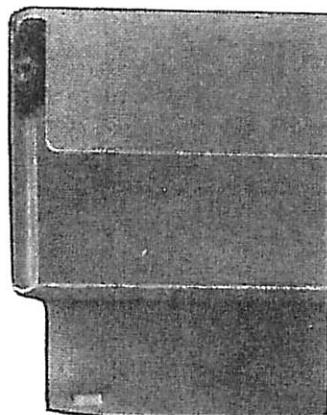


Defect

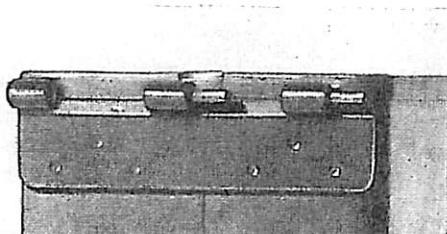


Perfect

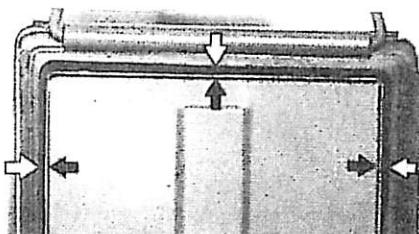
1-A. Incomplete Latch—Major



1-B. Cover Emboss and/or Embossed Stop Missing—Major

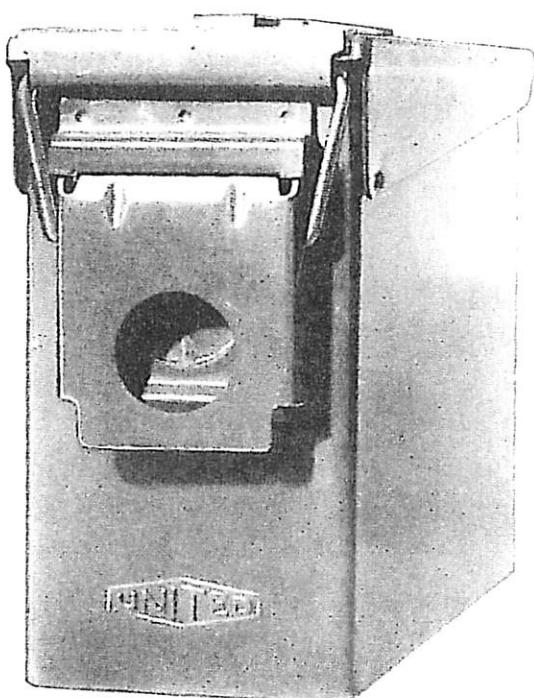


1-C. Hinge Pin Missing—Major



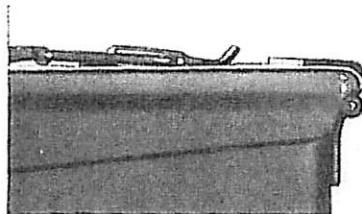
1-D. Gasket Retainer Improperly Flanged—Major

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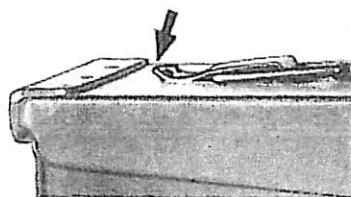


1-E. End Handle Missing—Major

—No. 2. Incorrect Assembly—



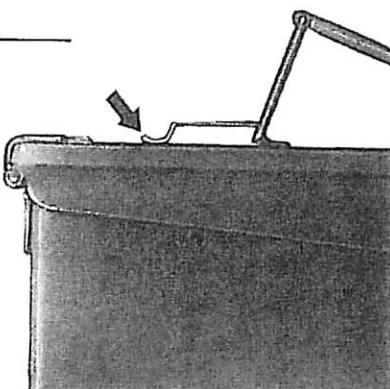
2-A. Major



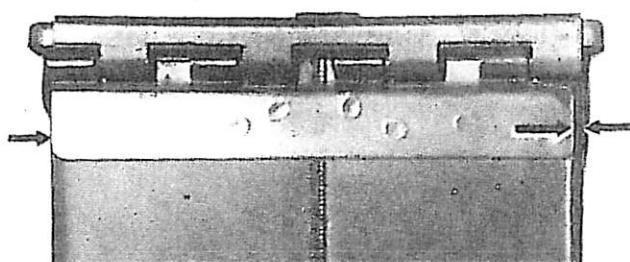
2-B. Incidental

Bent or Malformed Cover Handle Clip

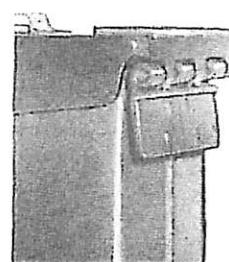
(Incidental or permissible only if clip has no sharp projections and box stacks properly; otherwise major.)



2-C. Permissible



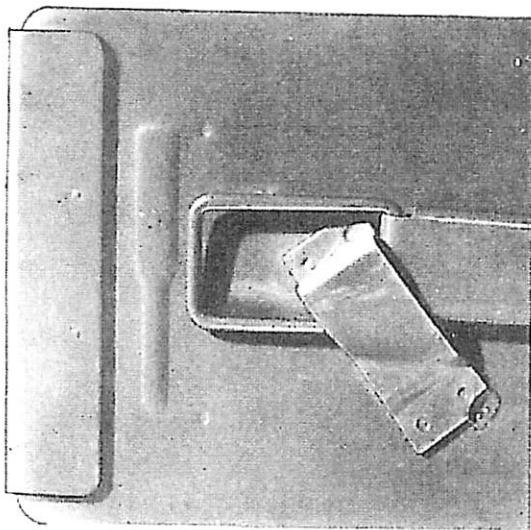
2-D. Body Hinge Off-Center More Than 1/32" —Major  
(Defect is also applicable to cover hinge.)



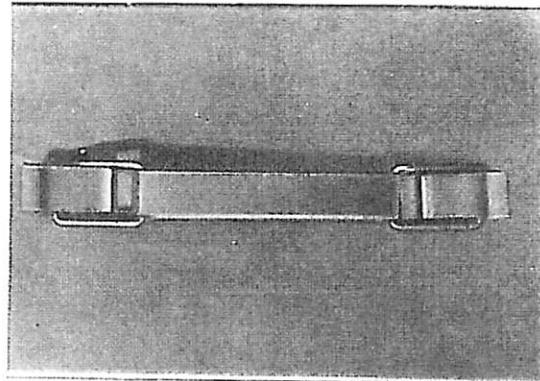
2-E. Incomplete Spot Welding, Hinge—Major

(Body hinge illustrated; defect is also applicable to cover hinge and latch link retainer.)

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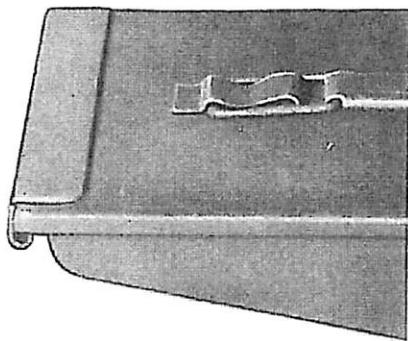


**2-F. Major**

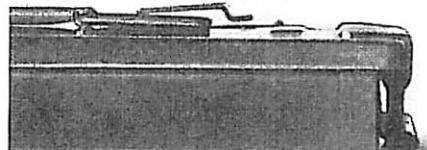


**2-G. Permissible**

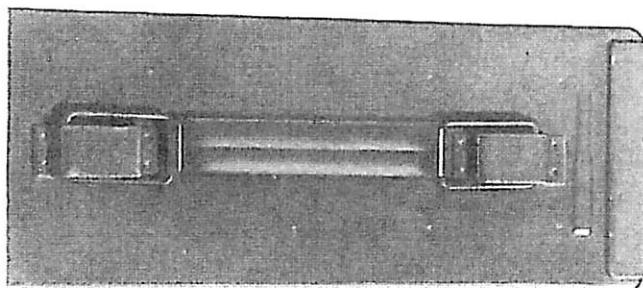
**Cover Handle Clip Misaligned**



**2-H. Cover Handle Clip Deformed—Major**

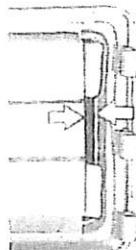
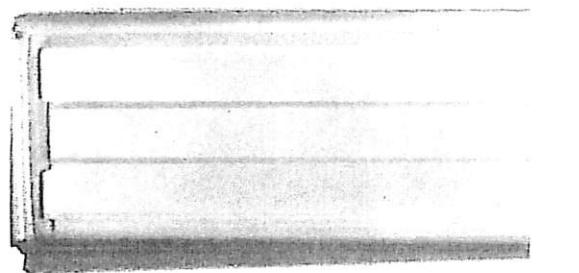


**2-I. Cover Handle Clip Not Welded—Major**



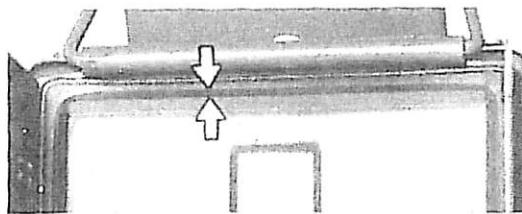
**2-J. Cover Handle Inverted—Incidental**

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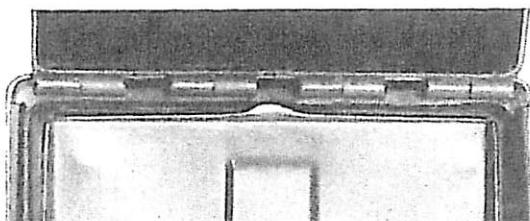
**2-K. Major**

(Both ends of cover assembly illustrated, showing gasket retainer too far to left.)



**2-L. Major**

(Causing poor sealing of gasket on body hem.)



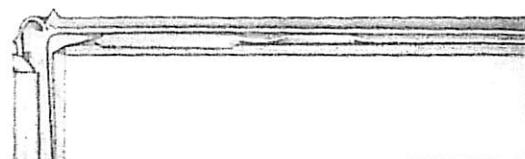
**2-M. Major**

(Gasket retainer located too close to cover hinge, resulting in flange interference with body hem.)

Gasket Retainer Not Centered



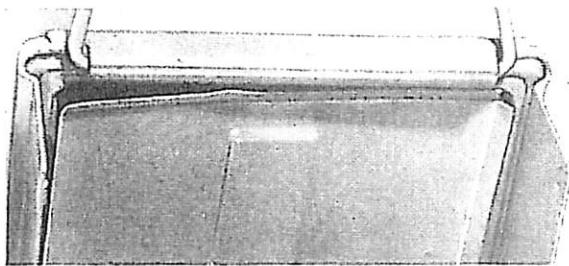
**2-N. End—Major**



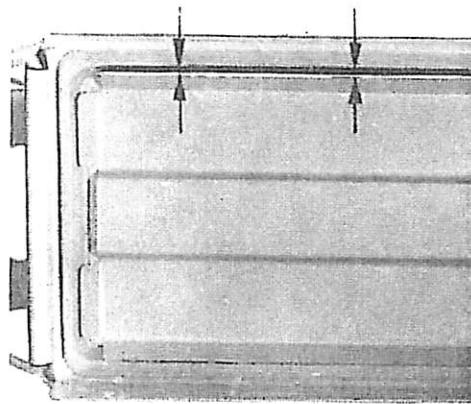
**2-O. Side—Major**

Gasket Out of Retainer

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2-P. Gasket Retainer Loose—Major

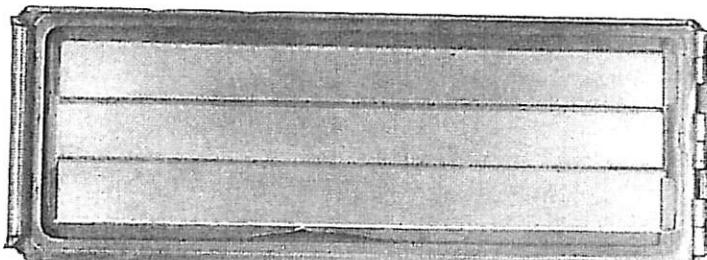


2-Q. Gasket Improperly Seated—Incidental



2-R. Gasket Incorrectly Seated on Body Hem—Incidental

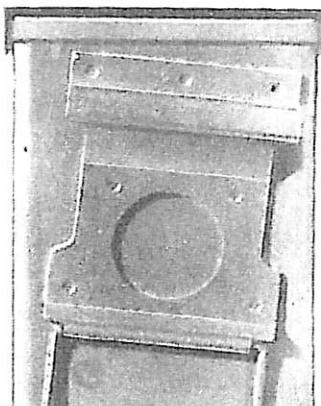
(Gasket retainer centered. Impression of body hem too close to retainer due to unsatisfactory assembly of box.)



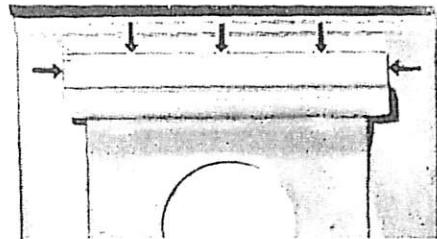
2-S. Gasket Retainer Bent or Not Properly Seated at Hasp End—Incidental

(Two defects are illustrated, either of which defines a defective box.  
Comparable improper seating at hinge end constitutes a major defect.)

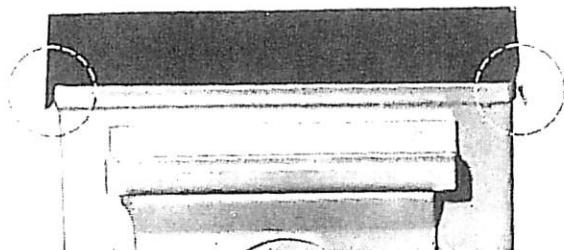
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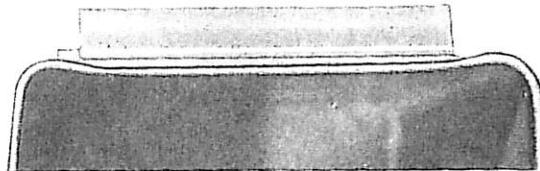
2-T. Hasp Misaligned—Major



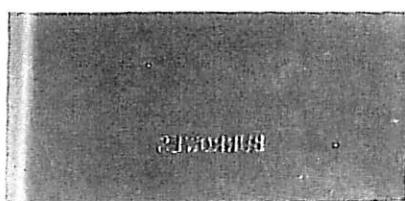
2-U. Hasp Not Welded, Top—Major



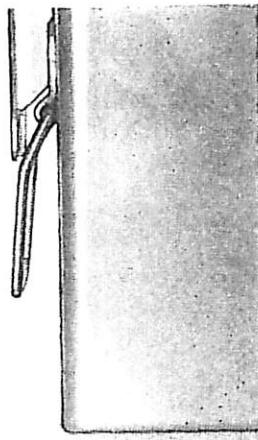
2-V. Embossed Stops Not Engaging Underside of Hem—  
Major



2-W. Front of Body Distorted at Hem—Major

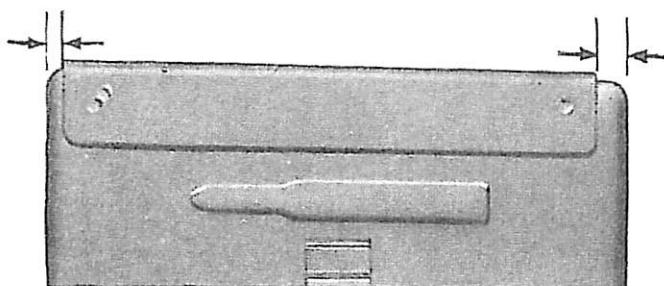


2-X. Manufacturer's Symbol Reversed—Incidental

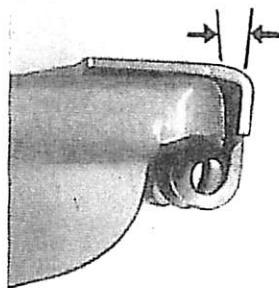


2-Y. End Handle Reversed—Incidental

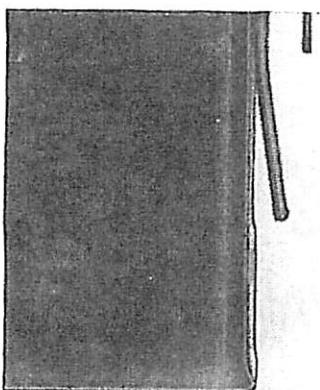
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**2-Z.** Latch Link Retainer Off-Center More Than  $1/32''$ —Incidental



**2-AA.** Latch Link Retainer and/or Cover Hinge Not Flush With Cover With Gap Exceeding  $1/32''$ —Incidental



**2-BB.** Radius Outside Bottom—Permissible

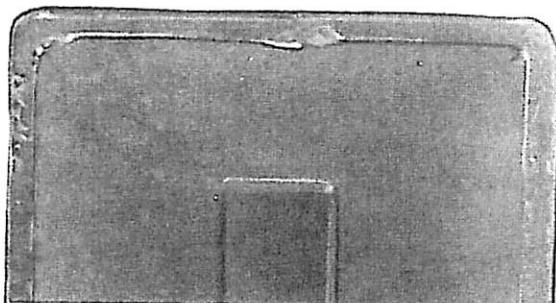
(Not Illustrated)

**2-CC.** Body Seam on Opposite End—Incidental

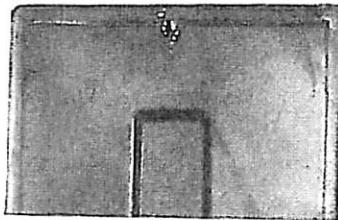
(One or more bottom corners flared, not exceeding  $1/32''$  each corner.)

—**No. 3. Unsatisfactory Workmanship:**—

**Burrs, Rough Spots, Sharp Projections, Cracks, Splits, Buckles**



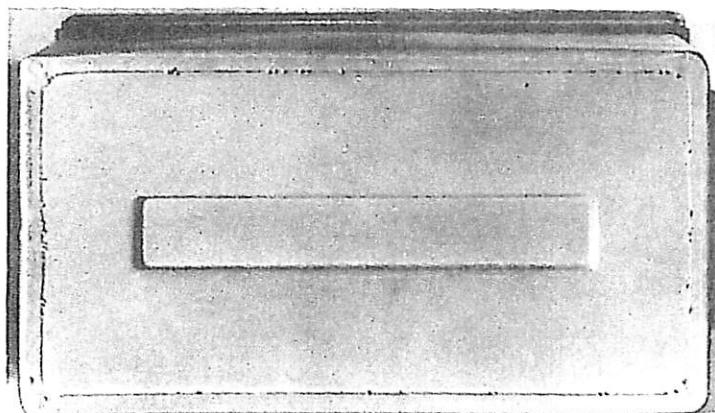
**3-A.** Burred and Sintered Bottom—Major



**3-B.** Burr, Bottom—Incidental

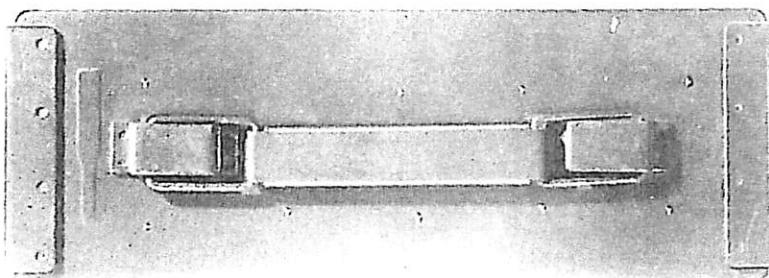
(Incidental only if there are no sharp projections, otherwise major.)

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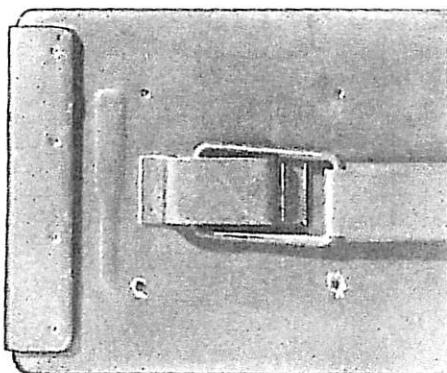
3-C. Burrs, Bottom—Permissible

(Permissible only if there are no sharp projections, otherwise major.)



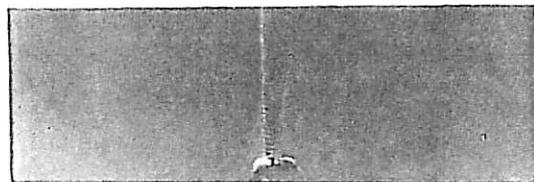
3-D. Burrs, Top—Incidental

(Incidental only if there are no sharp projections, otherwise major.)



3-E. Burrs, Top—Incidental

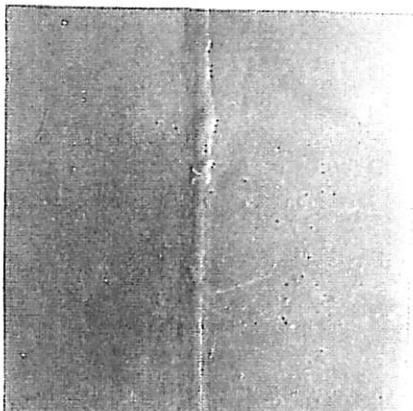
(Weld burns. Incidental only if there are no sharp projections, otherwise major.)



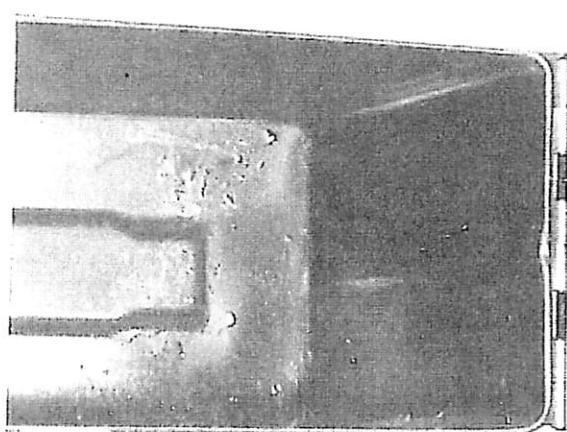
3-F. Burr, Back—Permissible

(Permissible only if there are no sharp projections, otherwise major.)

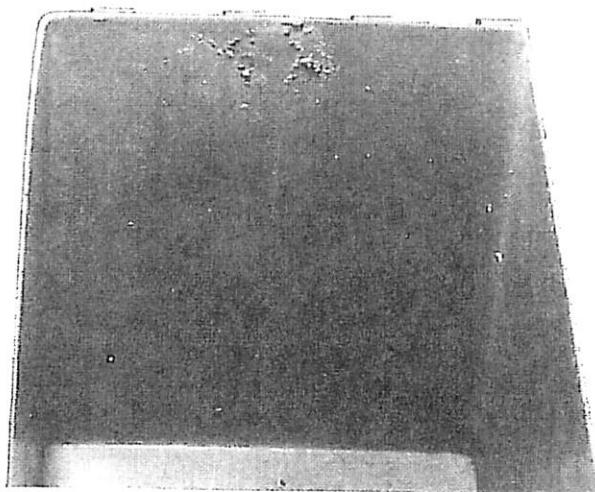
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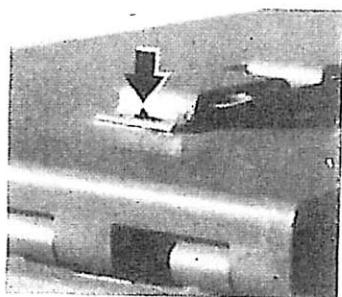
3-G. Rough Spots, Seam End, Exterior—Incidental



3-H. Rough Spots, Inside Bottom—Incidental



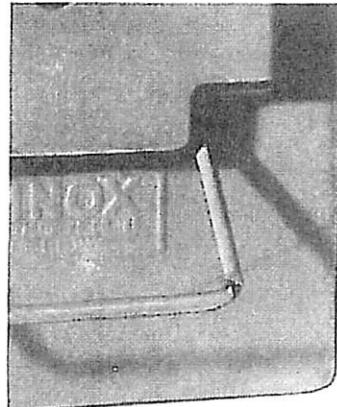
3-I. Rough Spots, Inside—Incidental



3-J. Cover Handle Clip

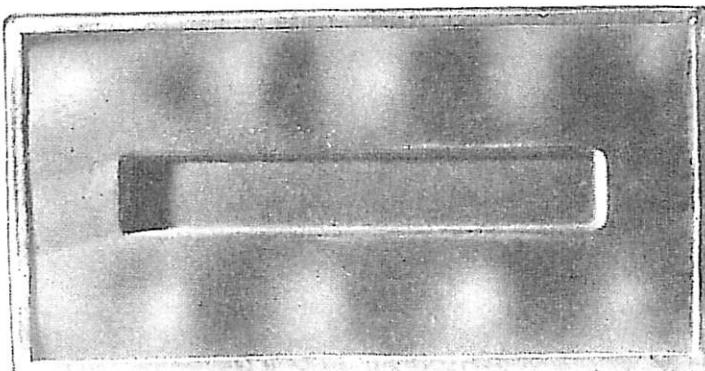
Sharp Projection—Major

(Any sharp projection on box interior or exterior, regardless of location, is a major defect.)

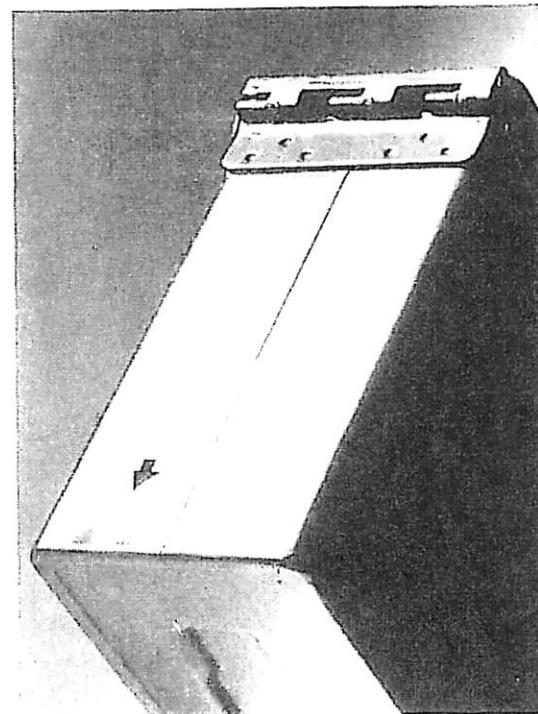


3-K. End Handle

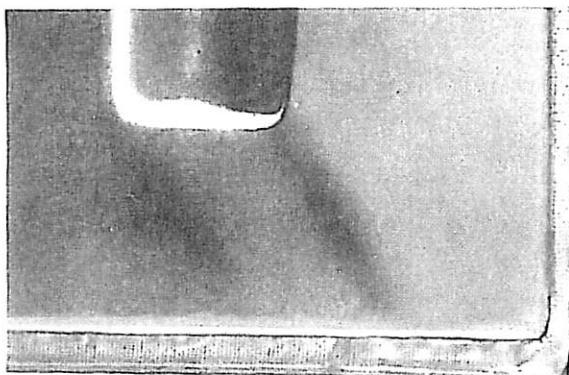
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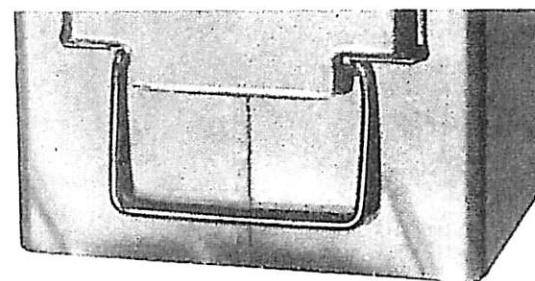
3-L. Incidental



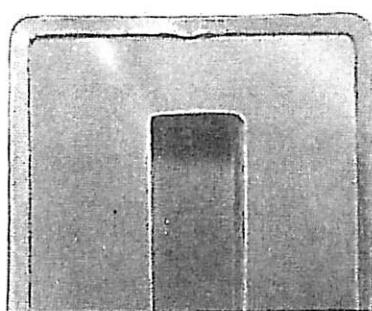
3-O. Permissible



3-M. Incidental

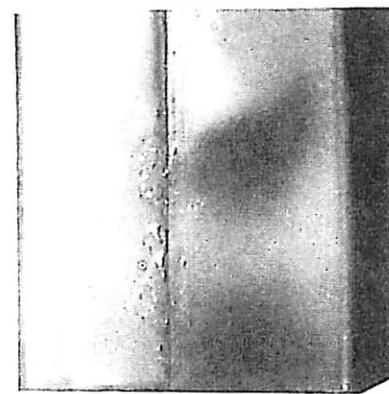


3-P. Permissible  
Buckles, End



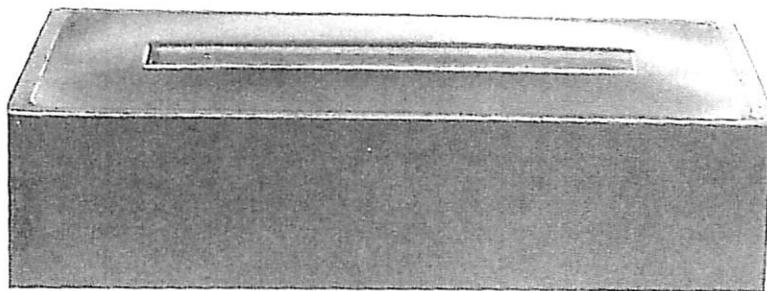
3-N. Permissible  
Buckles, Bottom

(Incidental or permissible if box stacks properly, otherwise major.)

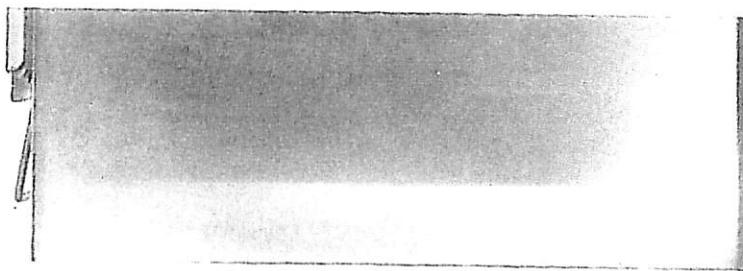


3-Q. Buckles or Rough Spots, Seam End, Exterior—  
Incidental  
(Two defects are illustrated, either of which defines a defective box.)

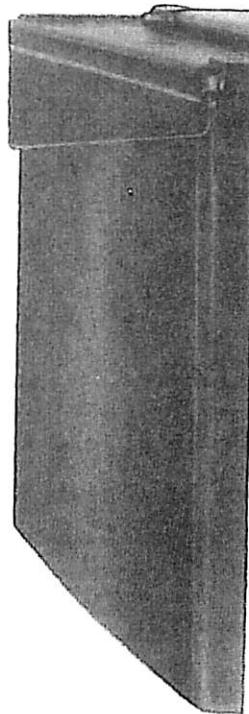
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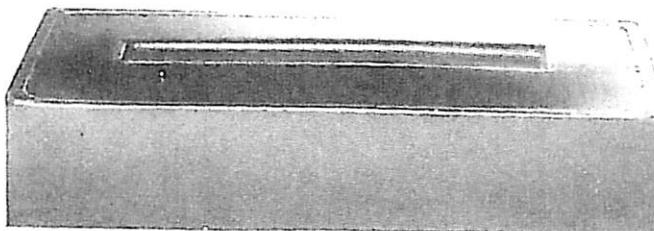
3-R. Convex Bottom—Major



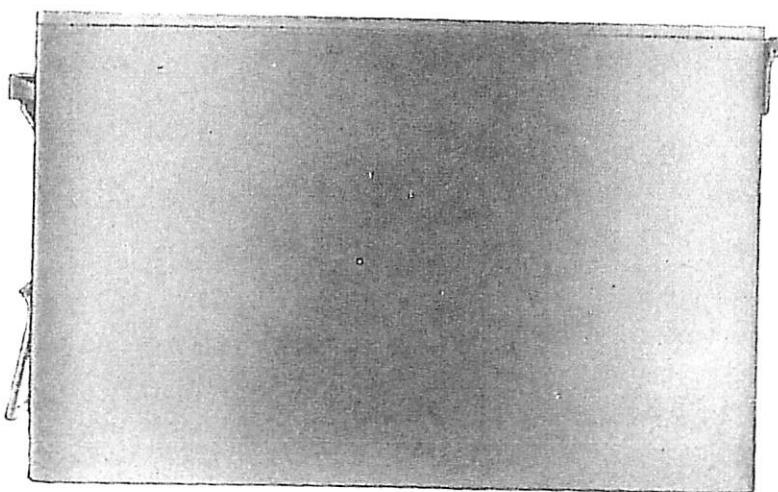
3-S. Incidental  
Buckle, Side



3-T. Permissible

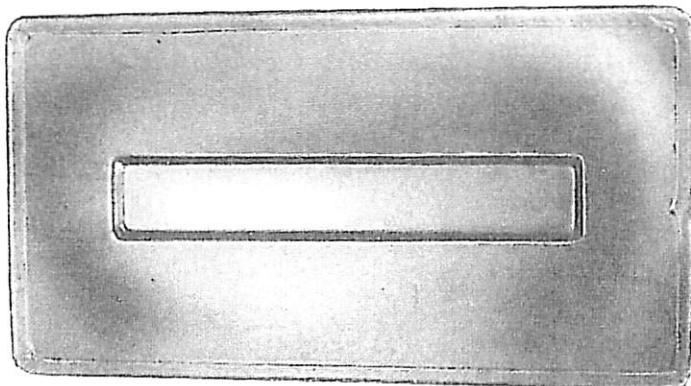


3-U. Buckles and Convex Bottom—Incidental  
(Incidental if box stacks properly, otherwise major. Two defects are illustrated, either of which defines a defective box.)

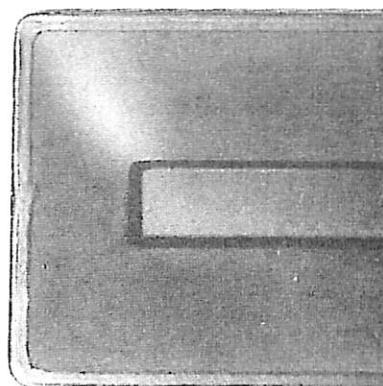


3-V Pronounced Convexity, Side—Major

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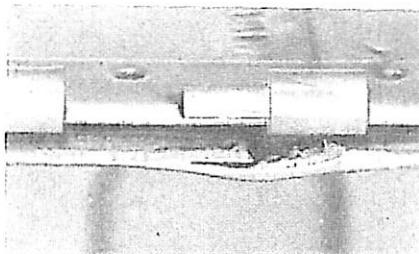


3-W. Major

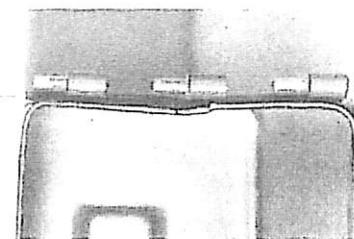


3-X. Incidental

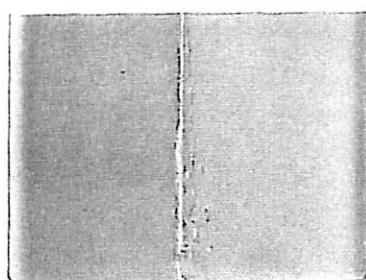
Concave Bottom



3-Y. Split Hem at Seam Weld—Major

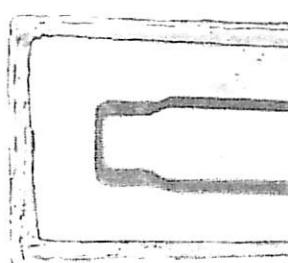


3-Z. Offset Seam Weld—Major



3-AA. Rough Seam Edge—Major

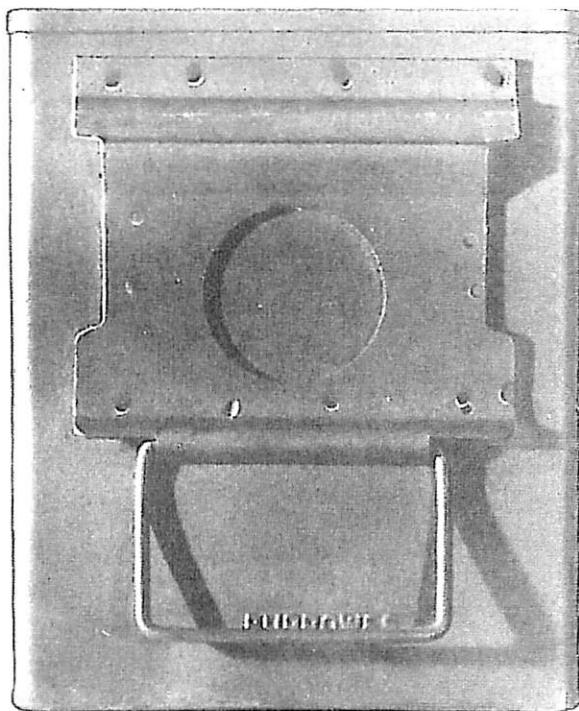
(Illustration also shows improperly turned bottom flange at seam weld, which is a major defect.)



3-BB. Rough Bottom Mash Weld—Incidental

(Incidental only if there are no sharp projections, otherwise major.)

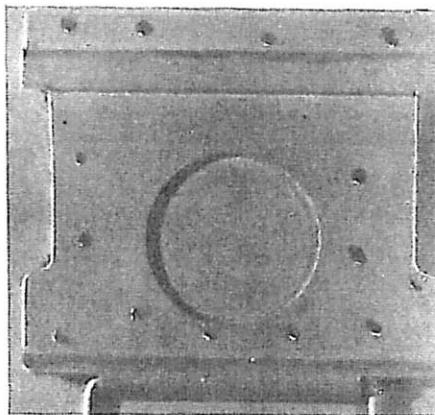
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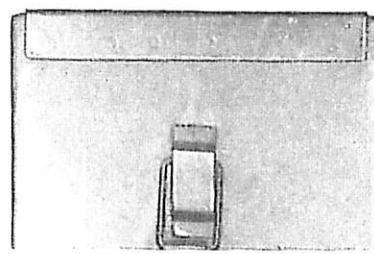
3-CC. Incidental

Improper Weld Pattern, Hasp

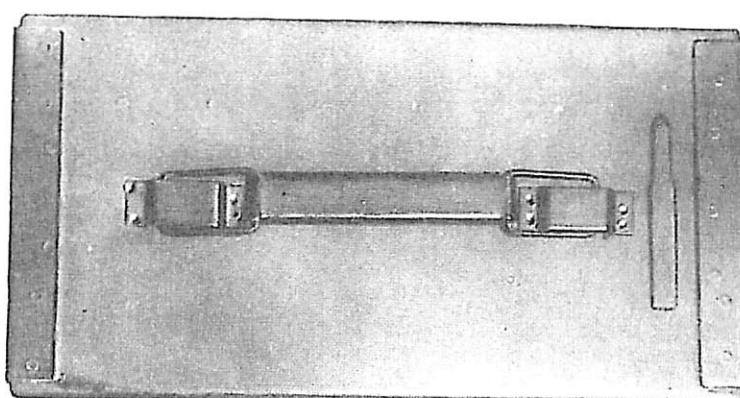
(Box shall be included in inspection Sample B and subjected to hasp weld strength test. Defect is major if test is unsatisfactory, otherwise incidental. Box also shall be considered a defective in Sample B if it fails the strength test.)



3-DD. Incidental

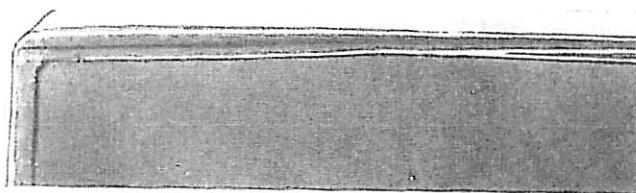


3-EE. Weld Pattern, Hinge—Permissible  
(Cover hinge illustrated but comparable  
improper weld pattern on body hinge or  
latch link retainer is also permissible.)



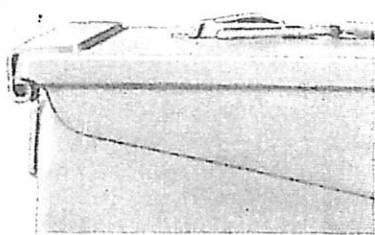
3-FF. Weld Pattern, Cover Handle Clips—Permissible

(Box shall be included in inspection Sample B and subjected to pertinent weld and assembly strength test. Defect is major if test is unsatisfactory, otherwise permissible. Box also shall be considered a defective in Sample B if it fails the pertinent weld and assembly strength test.)

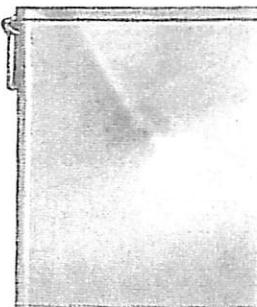


3-GG. Double Seam, Bottom—Major

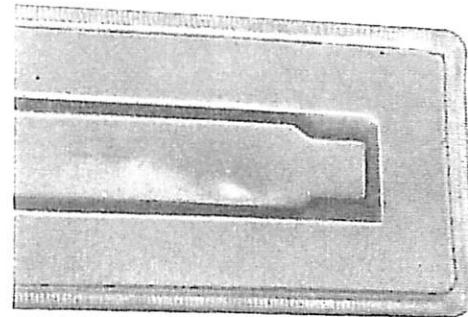
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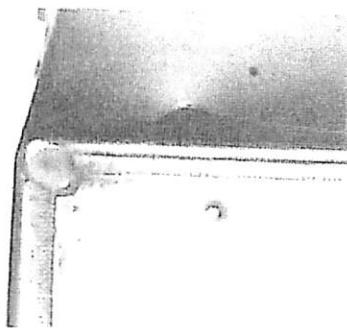
3-HH. Bent Cover Handle Clip  
—Incidental  
(Incidental if box stacks properly,  
otherwise major.)



3-II. Major

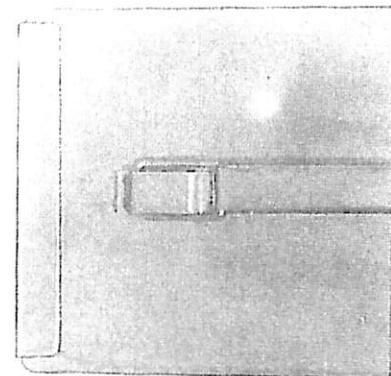


3-JJ. Incidental

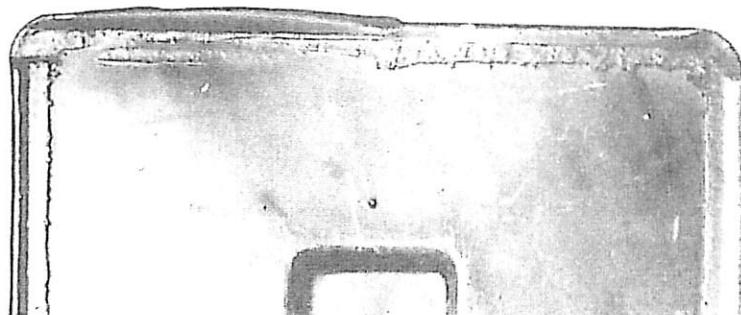


3-KK. Incidental

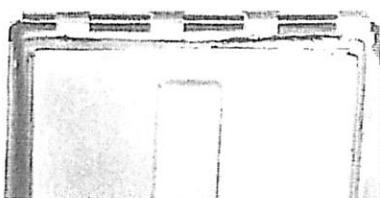
Dents  
(Defect is incidental only if box stacks properly, otherwise major.)



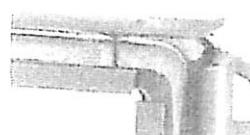
3-LL. Incidental



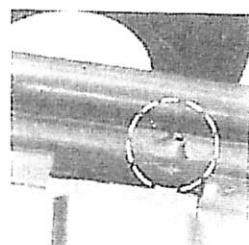
3-MM. Bulge—Major



3-NN. Split—Major

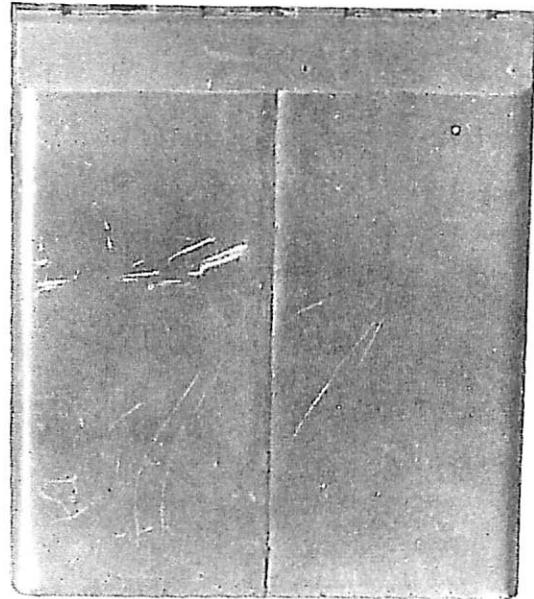


3-OO. Cut—Major  
Gasket Defects

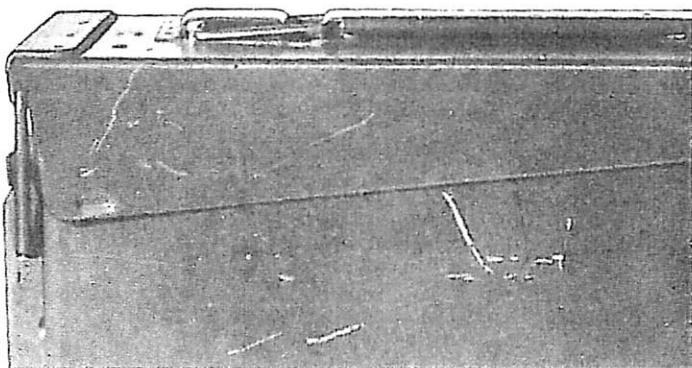


3-PP. Gas Pocket—Major

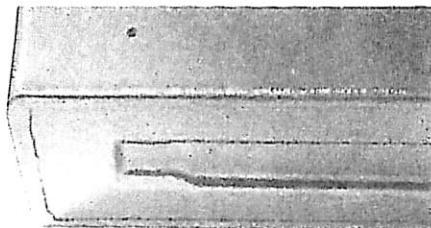
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3-QQ. Incidental



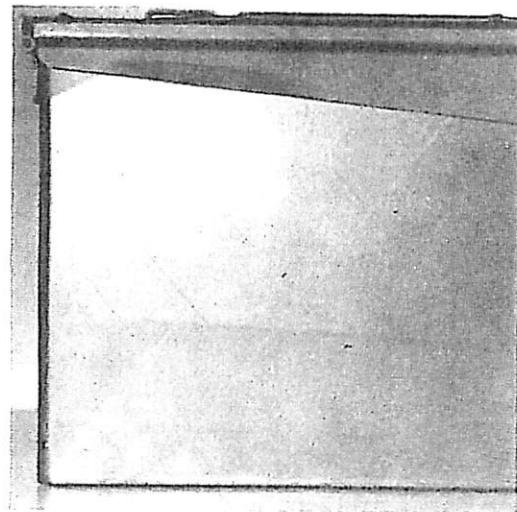
3-RR. Incidental



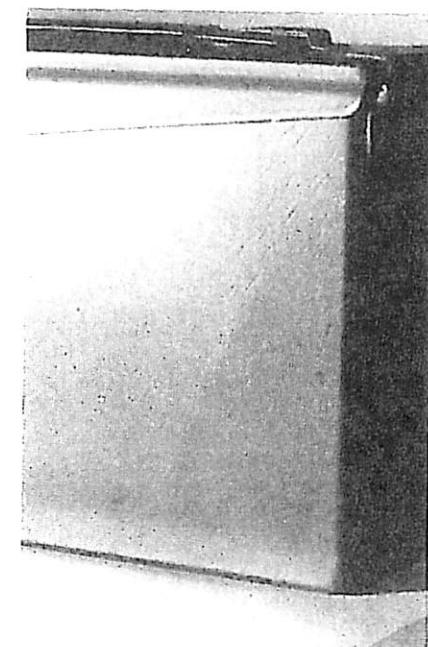
3-SS. Permissible

Scratches

(Bottom Edge)



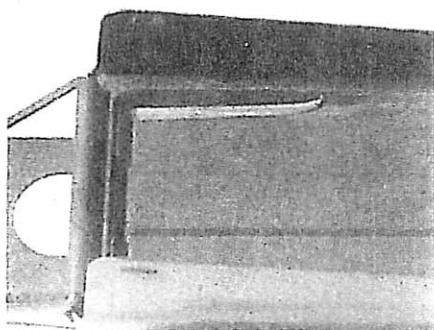
3-TT. Incidental



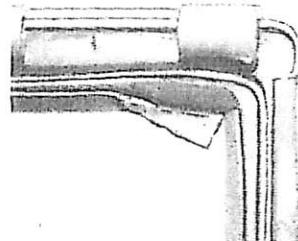
3-UU. Permissible

Stress Marks

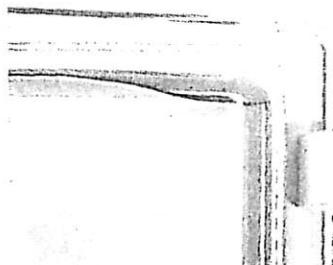
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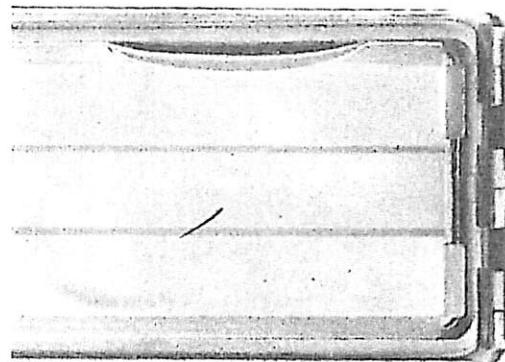
3-VV. Major



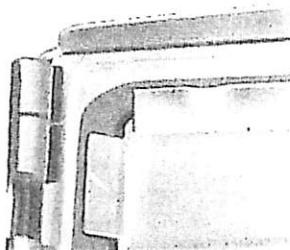
3-WW. Incidental



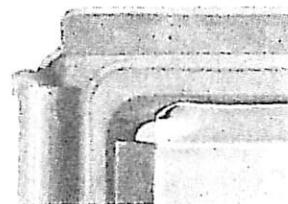
3-XX. Incidental



3-YY. Incidental



3-ZZ. Permissible



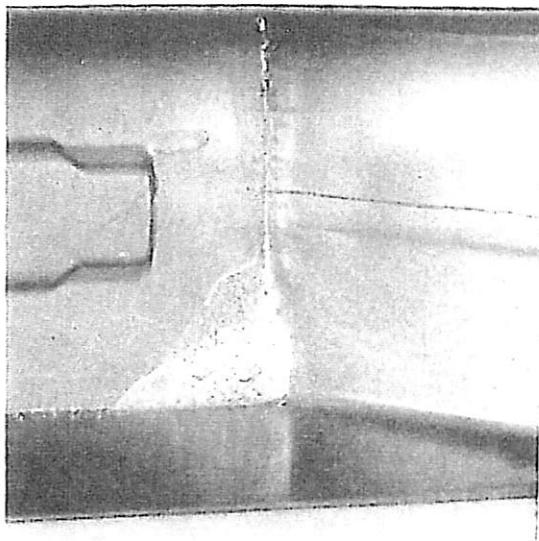
3-AAA. Permissible

**Bent Gasket Retainer**

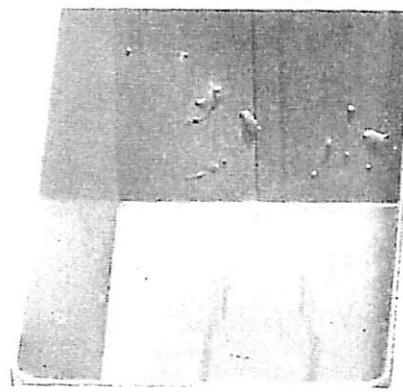
(Defect is permissible or incidental only if there are no sharp projections. See 3-J and 3-K.)

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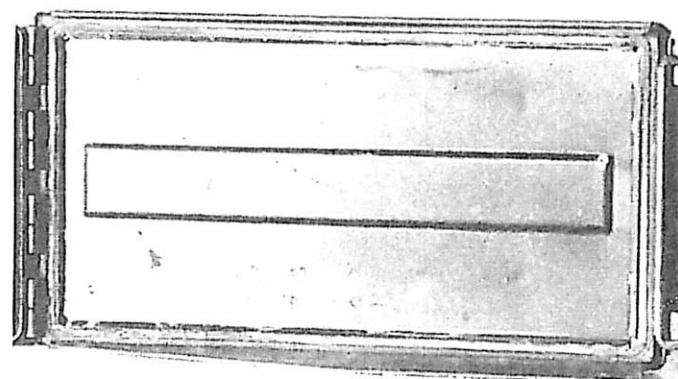
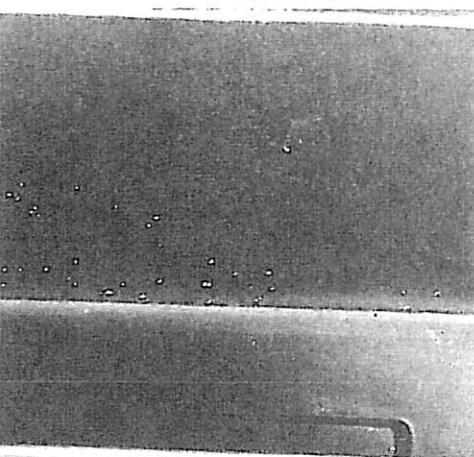
—No. 4. Unsatisfactory Workmanship:—  
Chips, Dirt, Grease, Other Foreign Material, Other Defects Excluding Rust



4-A. Minor



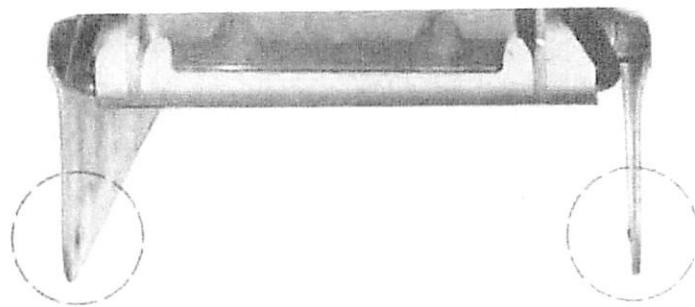
4-B. Incidental



4-F. Foreign Material, Gasket and Gasket Retainer—Minor

4-C. Permissible  
Foreign Material, Interior  
(Defect includes imbedded as well as surface adhering  
foreign material.)

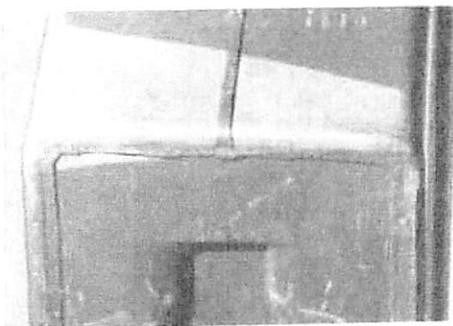
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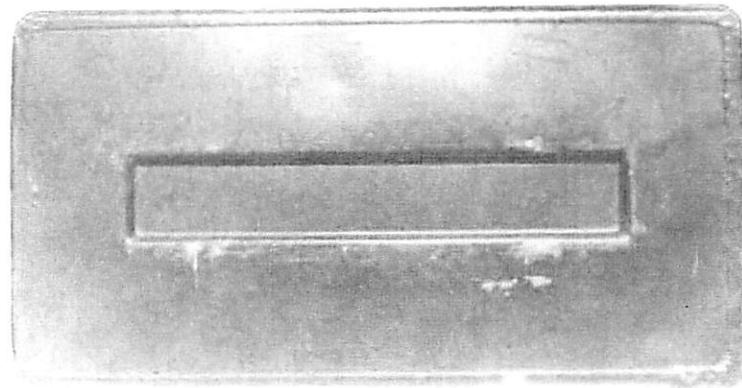
4-G. Shallow Embossed Stops—Permissible

(Permissible only if both stops engage body hem, otherwise minor.)

—No. 5. Paint Defects: Incomplete or Inadequate Coverage and Rust—



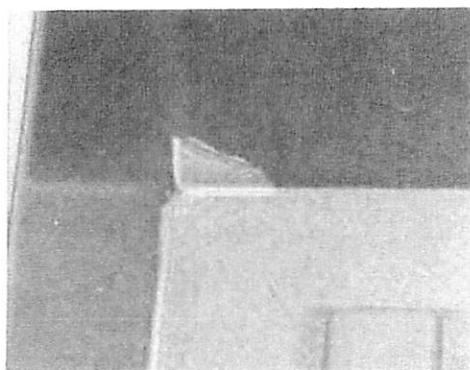
5-A. Major



5-B. Incidental

Incomplete Coverage, Exterior

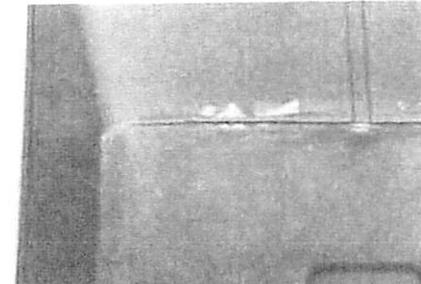
(No permissible incomplete coverage on exterior of body or cover except slight scratches such as illustrated in 3-SS. Any degree of incomplete coverage, exceeding permissible, up to  $\frac{1}{4}$  square inch is incidental. The  $\frac{1}{4}$  square inch allowance is applicable to either a single spot or the sum of several spots.)



5-C. Incidental

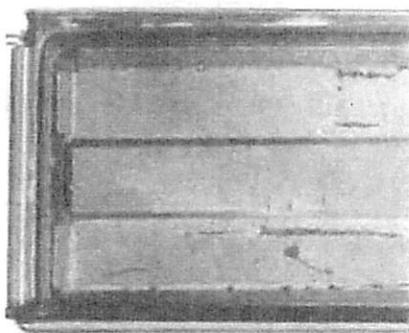
Incomplete Coverage, Interior

(Incomplete coverage exceeding  $\frac{1}{4}$  square inch, either a single spot or the sum of several spots, is a major defect.)



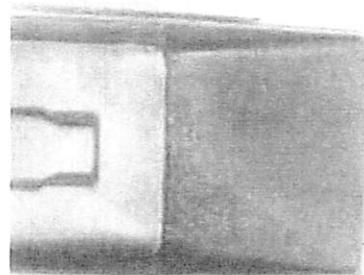
5-D. Permissible

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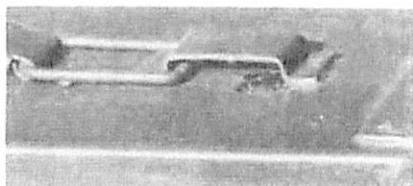
5-E. Gasket Retainer—Major

Rust, Interior



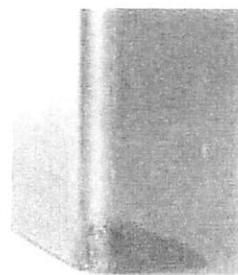
5-F. Body—Major

(Any amount of rust on interior shall be considered a major defect.)



5-G. Under Cover Handle Clip—Incidental

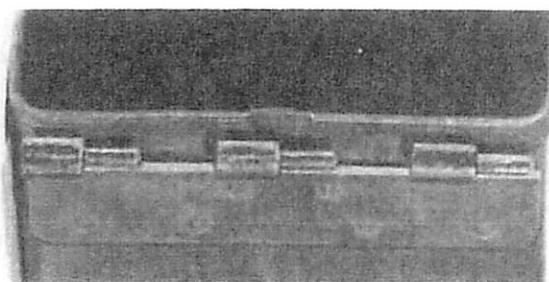
Rust, Exterior



5-H. Body—Incidental

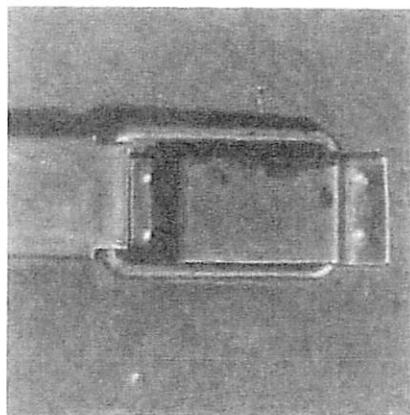
(Hardware excluded. See 5-I and 5-J.)

(Rust up to  $\frac{1}{4}$  square inch incidental, either a single spot or the sum of several spots—cover or body. Rust exceeding  $\frac{1}{4}$  square inch—major.)



5-I. Hinge—Incidental

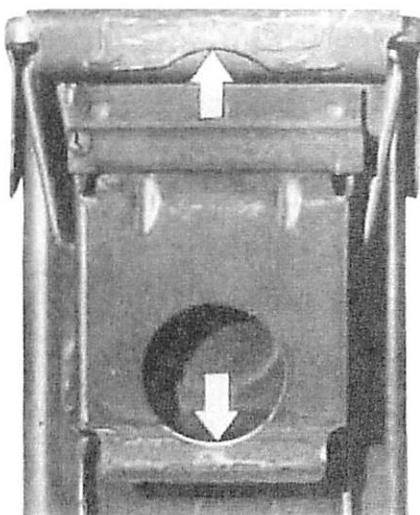
Rust, Hardware



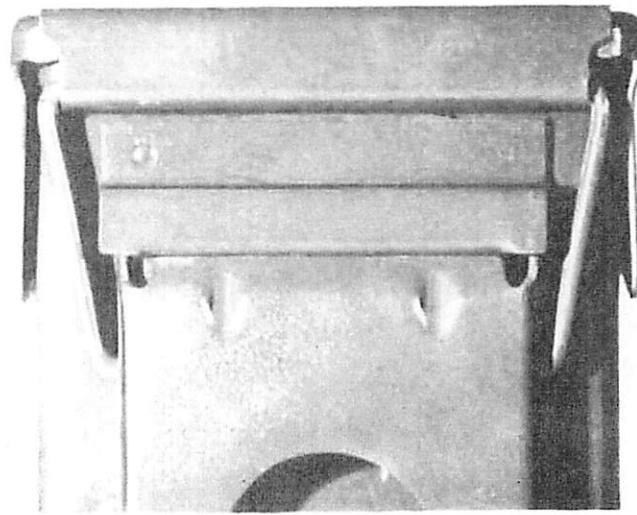
5-J. Cover Handle Clip—Incidental

(Rust on any hardware greater than amount shown is a major defect.)

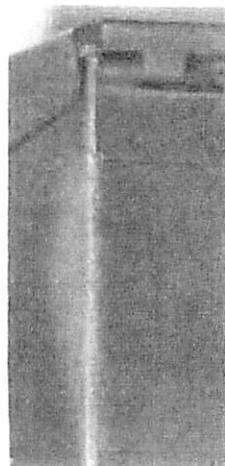
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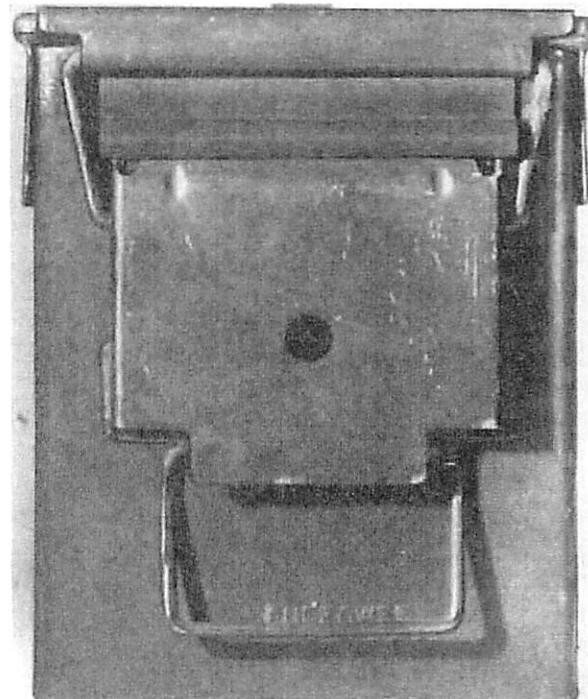
5-K. Latch—Major



5-L. Hasp and Latch—Incidental



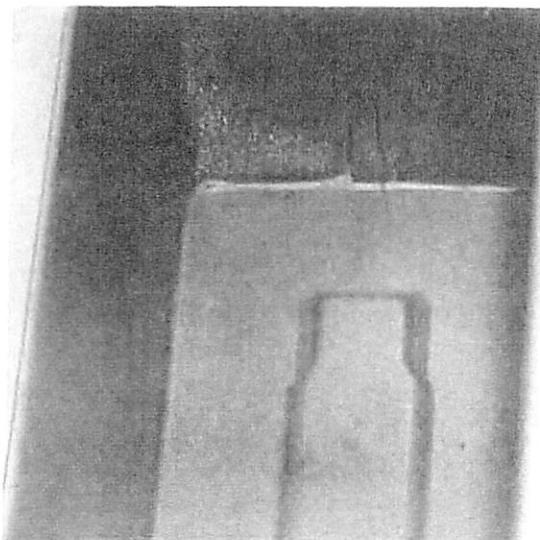
5-M. Outside Corner—Incidental



5-N. Front, Exterior—Incidental

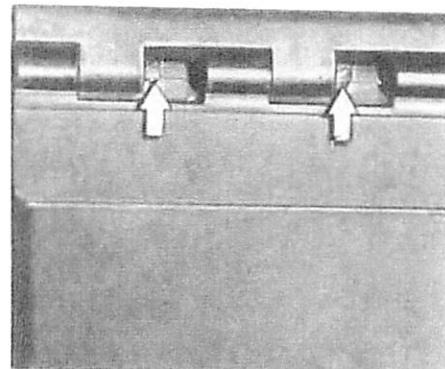
(Incomplete and inadequate coverage both illustrated, either of which defines a defective box.)

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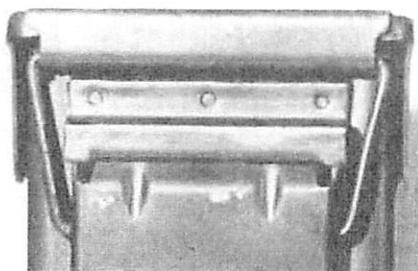


5-O. Inside—Incidental

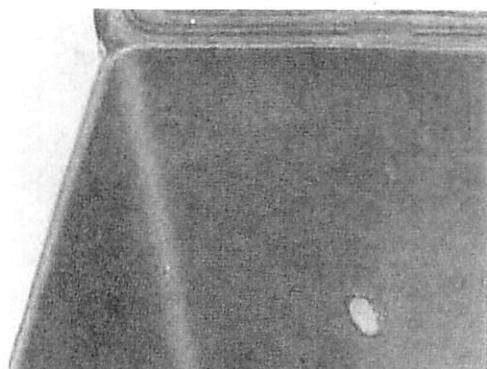
Inadequate Coverage



5-P. Body Hem—Permissible



5-Q. Bare Spots, Latch—Permissible



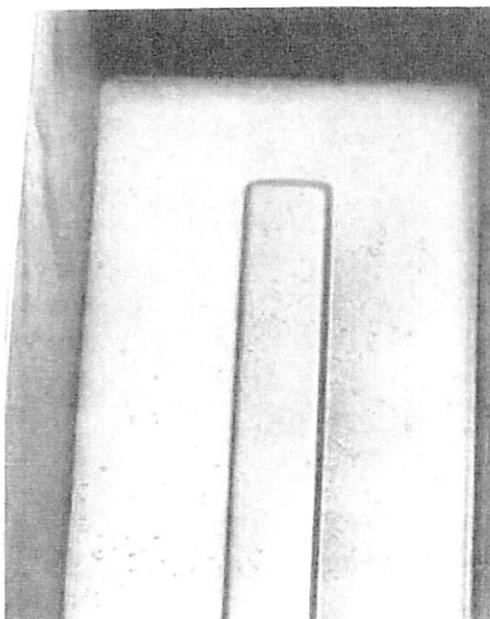
5-R. Inadequate Coverage—Permissible

(Broken Blister)

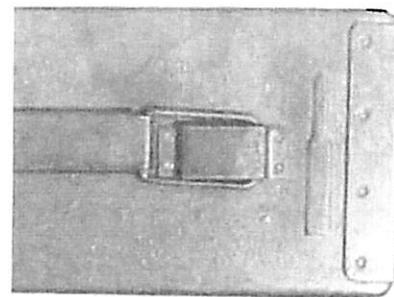
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—No. 6. Paint Defects:

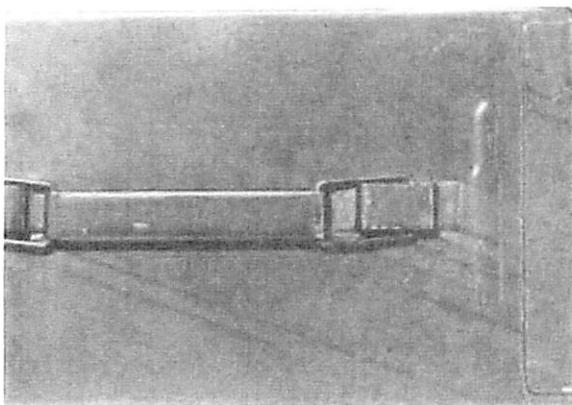
Surface Imperfection, Excessive Paint, Paint Not Dry



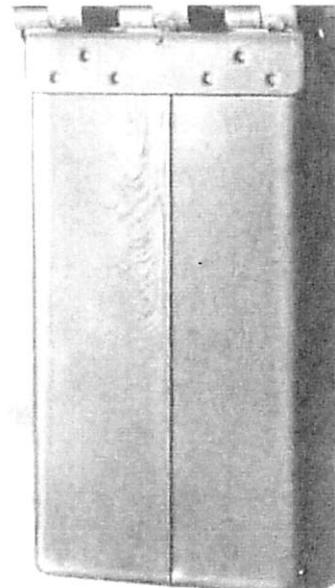
6-A. Inside Bottom—Incidental



6-B. Cover—Incidental

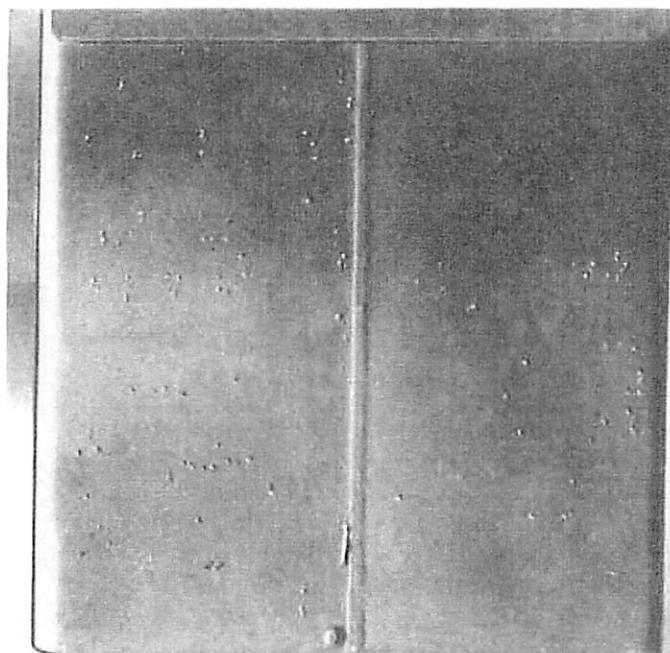


6-C. Cover—Permissible



Surface Imperfection

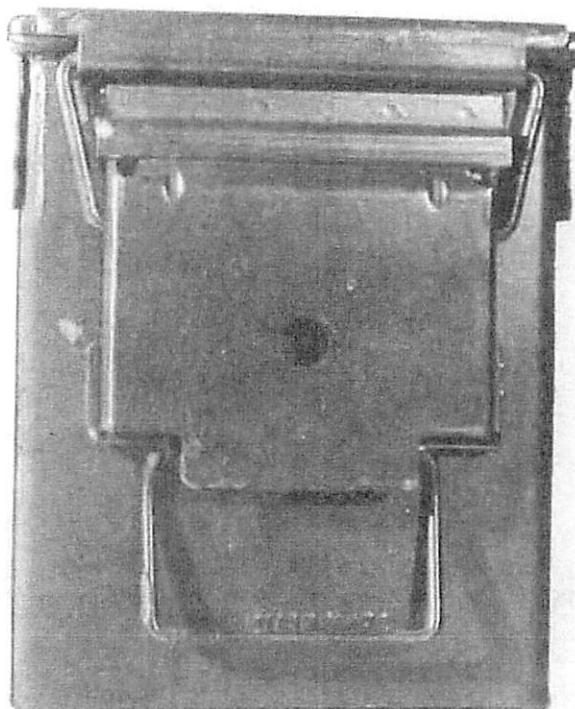
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6-E. Roughness, Interior or Exterior Body—Permissible



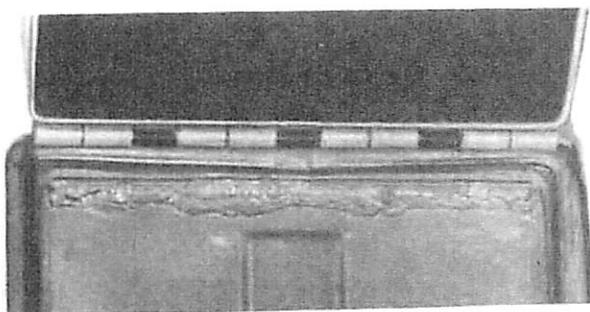
6-F. Minor



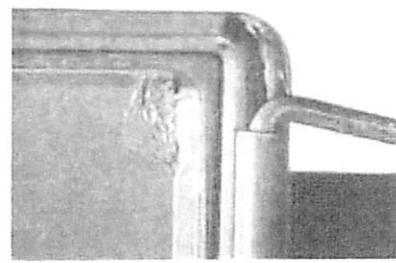
6-G. Minor

Blisters, Interior or Exterior

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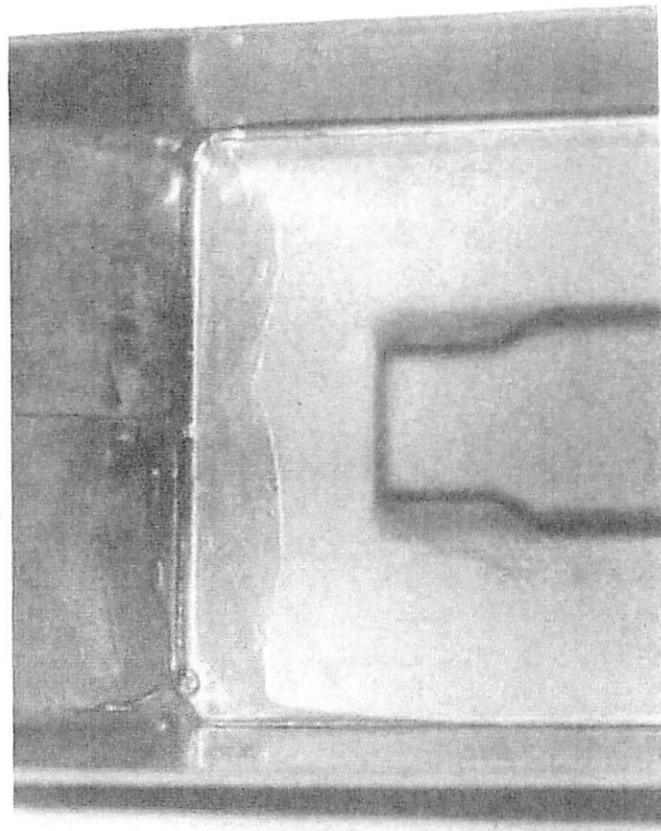


6-H. Minor



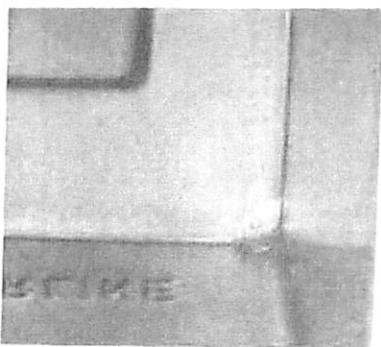
6-I. Permissible

Excessive Point, Gasket Retainer

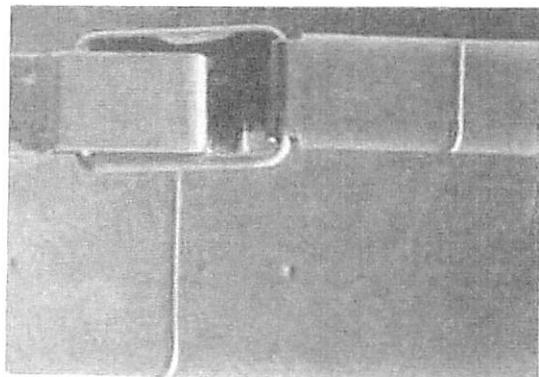


6-J. Permissible

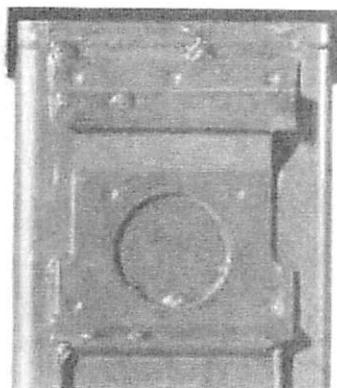
MIL-STD-406  
1 February 1957



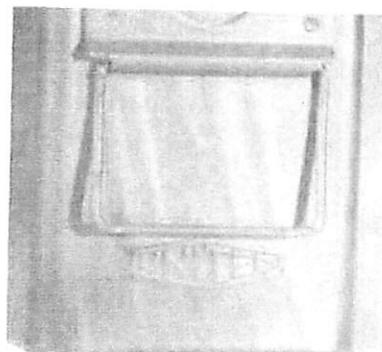
6-K. Permissible  
Excessive Paint, Interior



6-L. Cover and/or Handle—Permissible

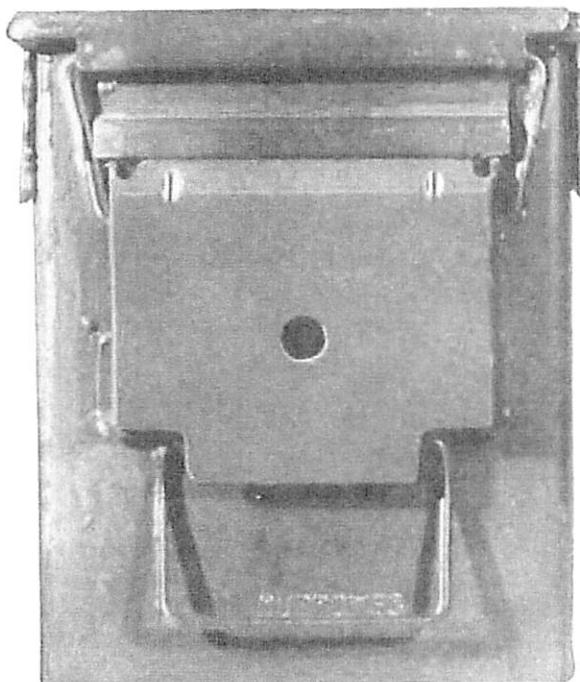


6-M. Hardware and Adjacent Box Areas—Permissible  
Excessive Paint

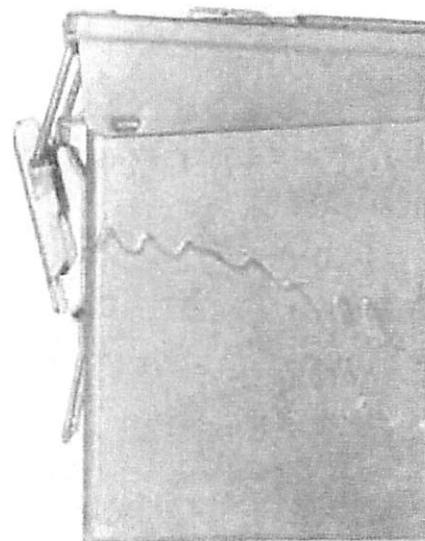


6-N. Paint Appearance—Permissible

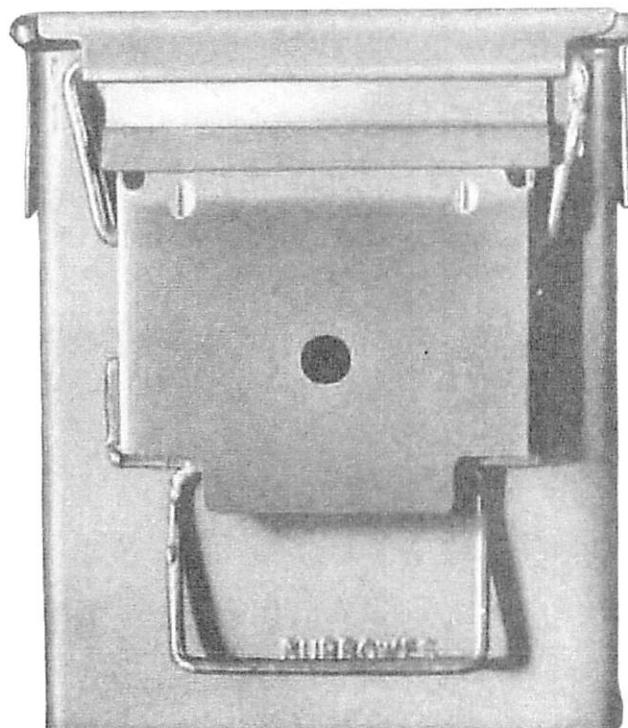
MIL-STD-406  
1 February 1957



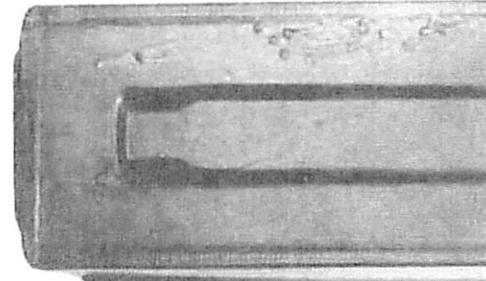
6-O. Minor



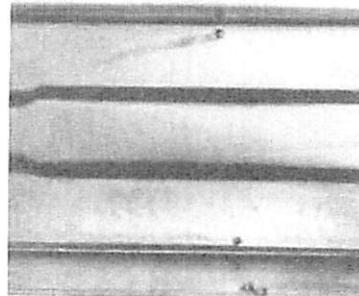
6-P. Minor



6-Q. Incidental



6-R. Incidental  
(Incidental if box stacks properly, otherwise minor.)



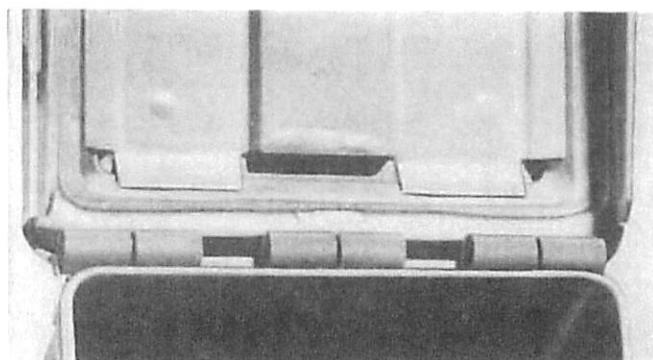
6-S. Incidental

Point Runs

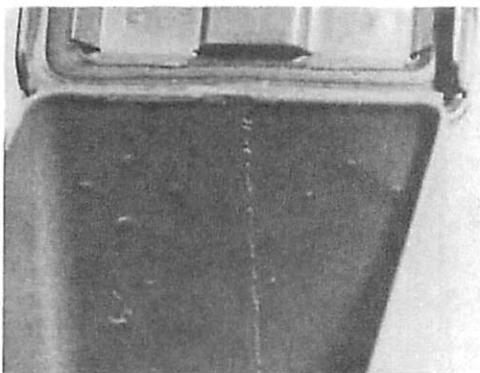
**MIL-STD-406**  
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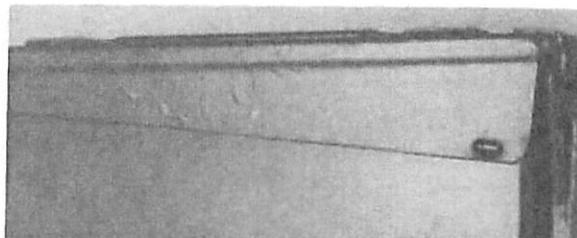
6-T. Incidental



6-U. Permissible



6-V. Permissible

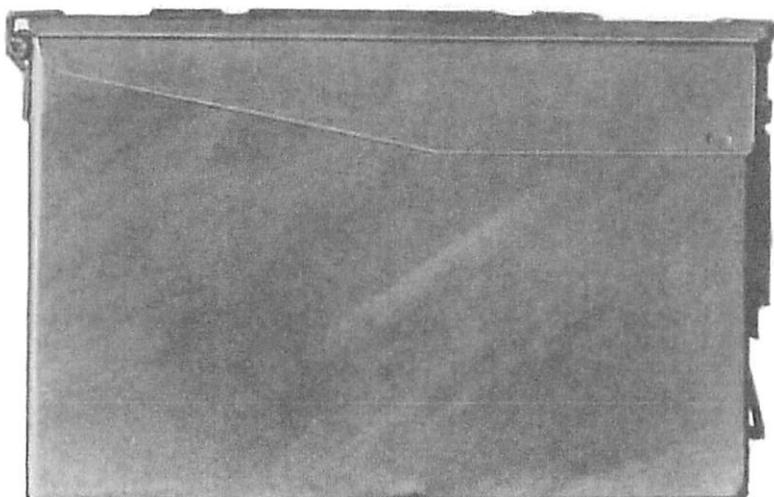


6-W. Permissible

(Note impressions of body hinge weld pattern which are  
not to be considered as paint runs.)

Paint Runs

(If runs are soft, defect is minor.)



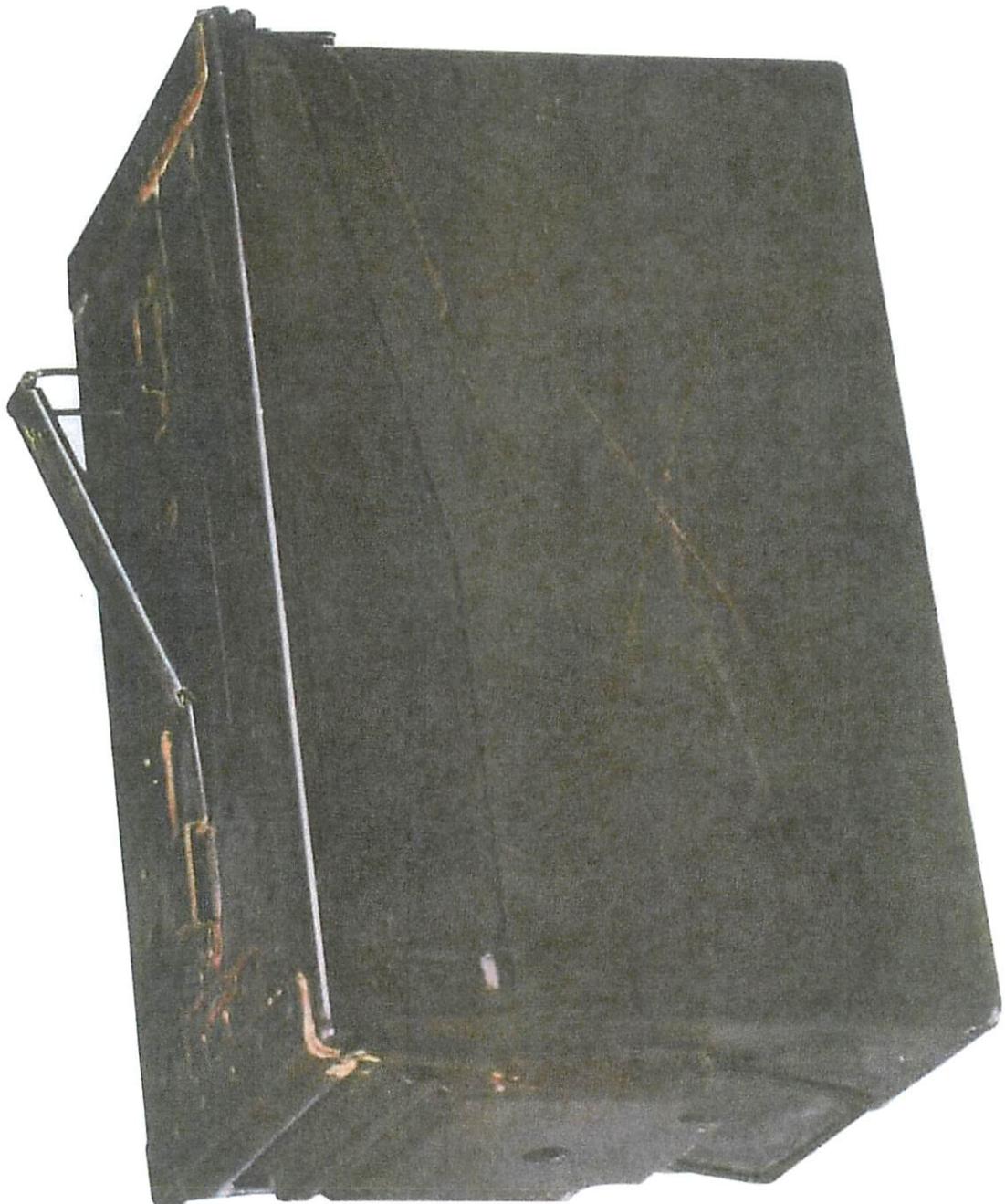
6-X. Incomplete Paint Agitation—Incidental

**MIL-STD-406**  
1 February 1957



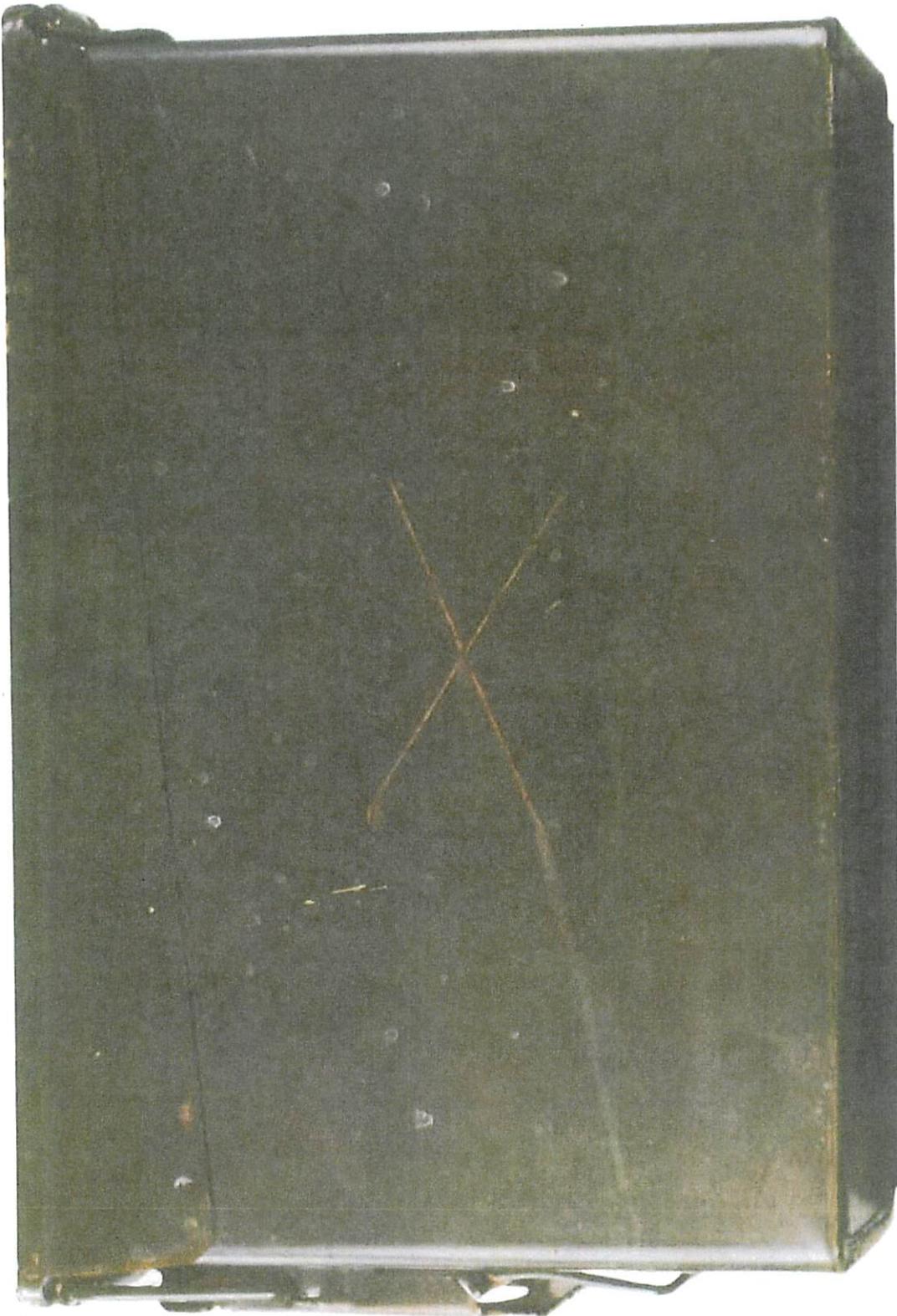
"WORST" PERMISSIBLE DEGREE OF RUST AFTER CORROSION RESISTANCE TEST

**MIL-STD-406**  
1 February 1957



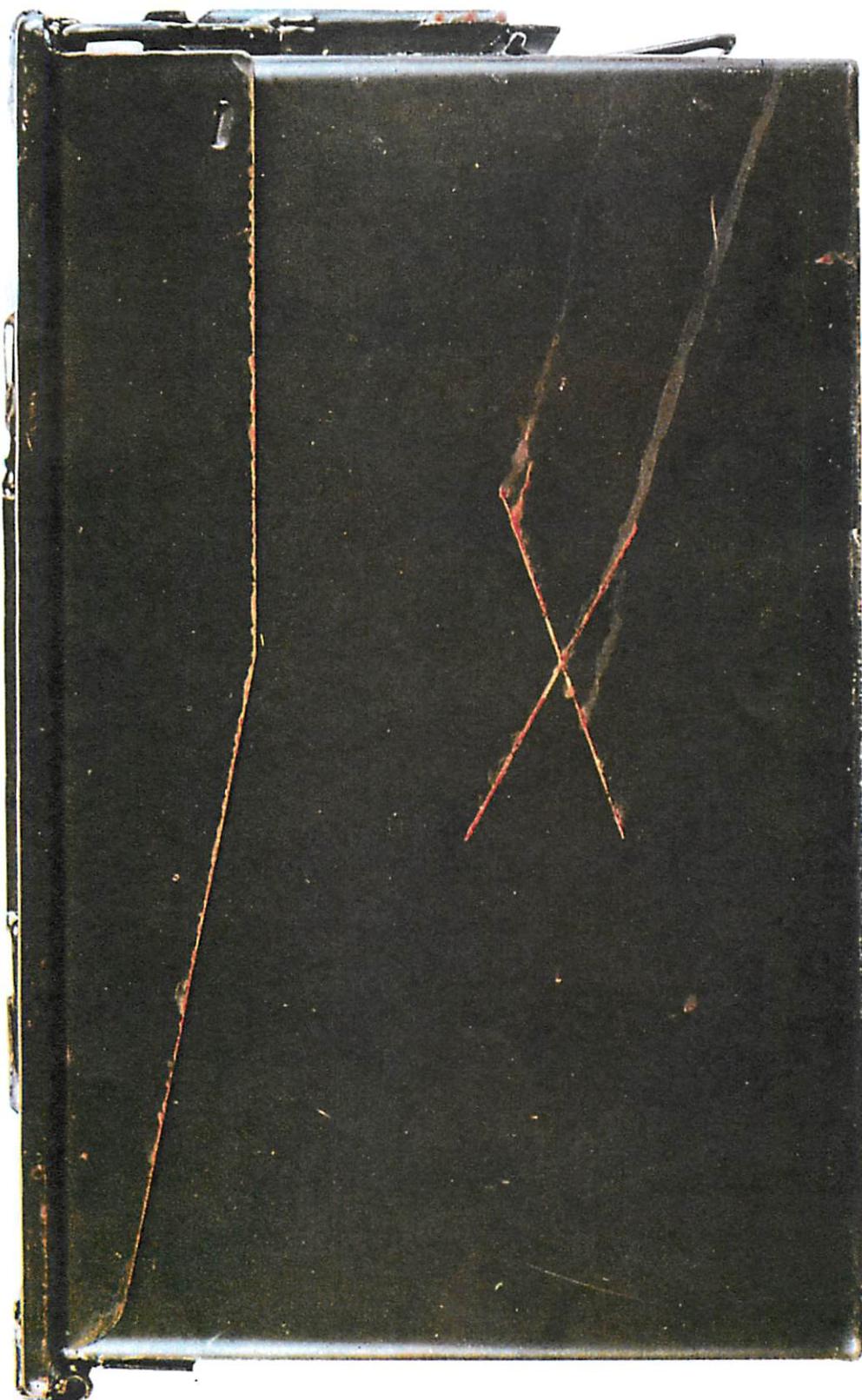
"WORST" PERMISSIBLE DEGREE OF RUST AFTER CORROSION RESISTANCE TEST

**MIL-STD-406**  
1 February 1957

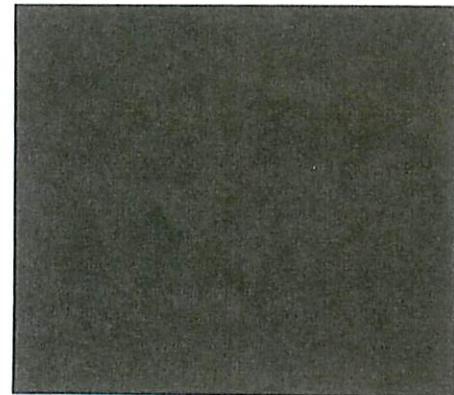
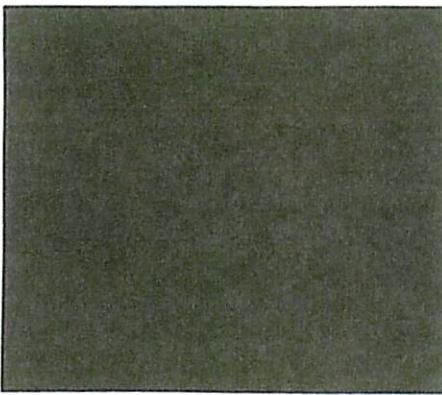
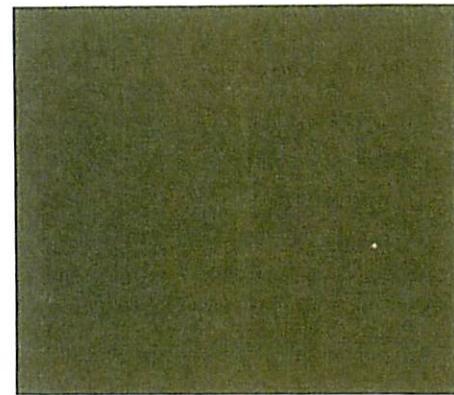
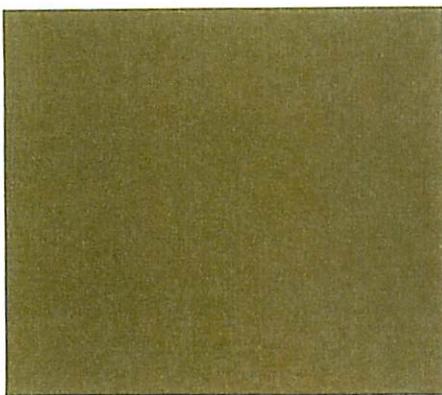


"WORST" PERMISSIBLE DEGREE OF RUST AFTER CORROSION RESISTANCE TEST

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"WORST" PERMISSIBLE DEGREE OF RUST AFTER CORROSION RESISTANCE TEST



#### Color Tolerances

(Paint chips show permissible variation in color from that specified-Semi-Gloss Green No. 2430, Federal Specification TT-C-595.)

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## LIST OF DEFECTS

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<p>NOTE.—In general, except for defects where severity is not pertinent, the illustrations define the following degrees of defectiveness:</p> <p>“Worst” Permissible          “Worst” Incidental          Example of Major (Minor when applicable).</p>		

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CANS, AMMUNITION, UNIVERSAL, M20 AND M21

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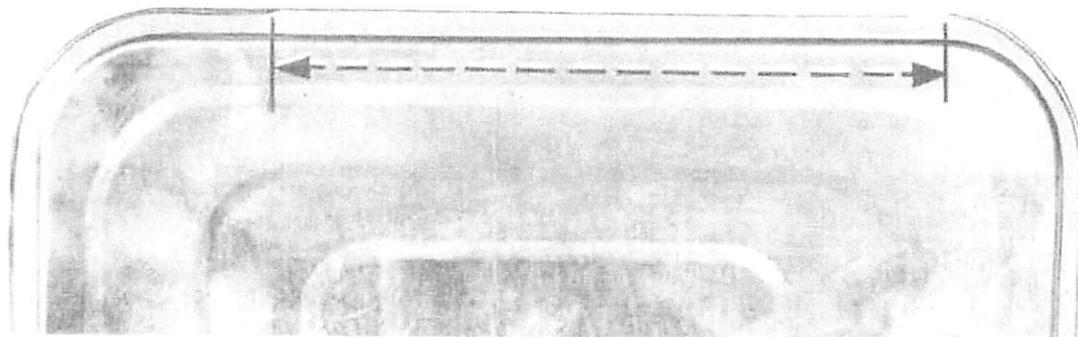
**BOTTOM COVER**

—No. 1. Absence of Lining Compound or Presence  
of Skip One Inch or More in Length—



1-A. Skip One Inch or More in Length—Major

—No. 2. Absence of Curl or Grossly Incorrect Curl—

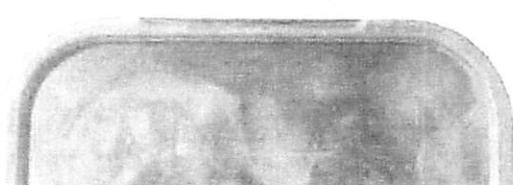


2-A. Absence of Curl—Major

(Insufficient metal in blank to form curl. Defect is major regardless of length.)



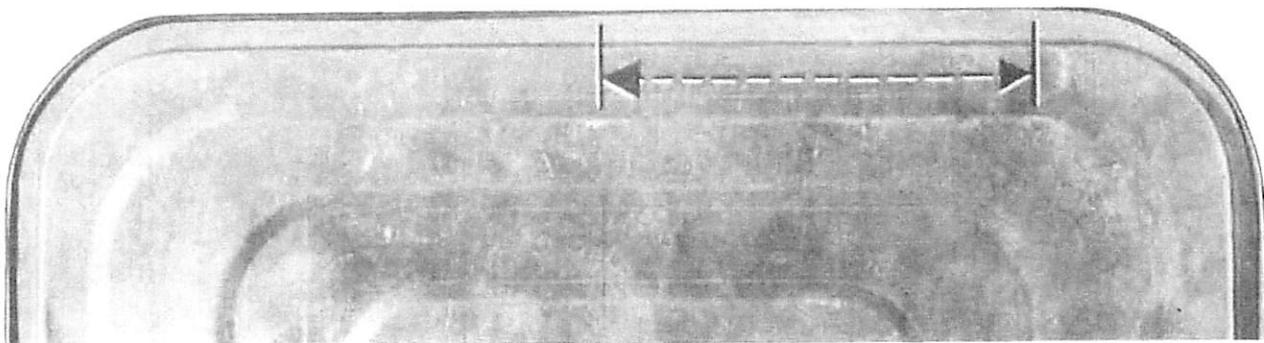
2-B. Major



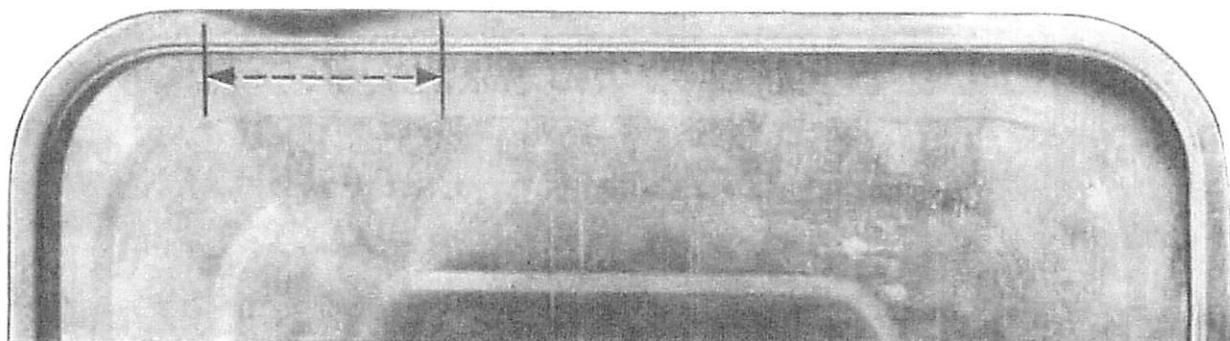
2-C. Major

Grossly Incorrect Curl

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2-D. (Bottom View)—Major

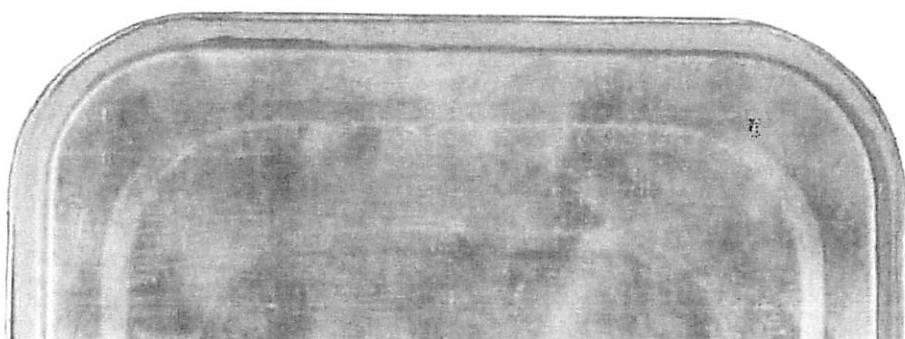


2-E. (Top View)

(Area marked indicates only presence of defect. Judgment as to length of defective curl is to be made from reverse side of cover as indicated in 2-D.)

**Grossly Incorrect Curl**

(Up to one and one-half inches per bottom cover is an incidental defect. Defect, regardless of length, is major on corners.)

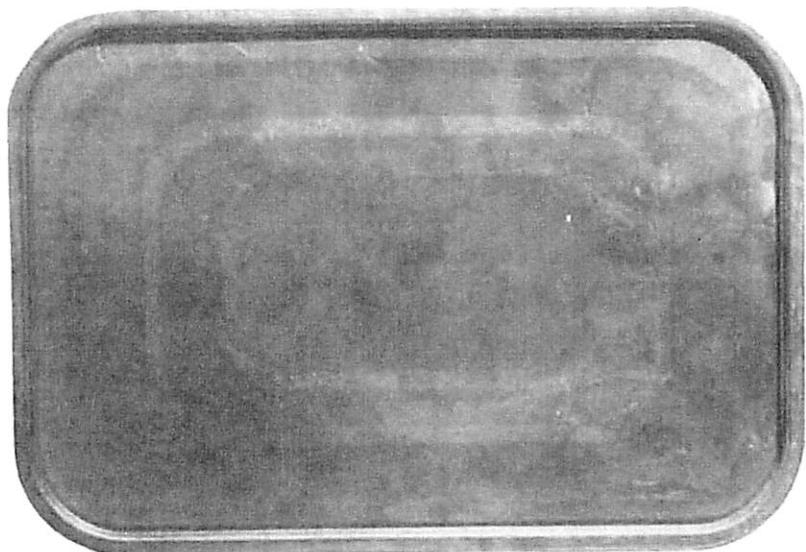


2-F. Partially Formed Curl—Permissible

(Defect is shown on right corner. Permissible on all four corners.)

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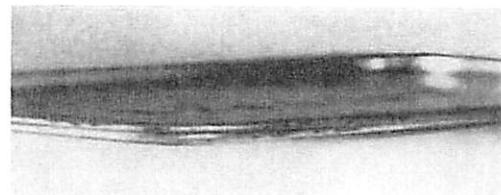
—No. 3. Chips, Dirt, Grease or Other Foreign Material—



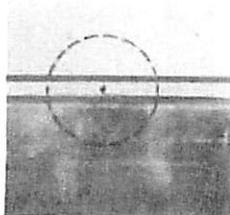
3-A. Dirt, Either Side—Minor



3-B. Spattered Lining Compound, Interior or Exterior—  
Permissible



3-C. Rust—Incidental



3-D. Incidental

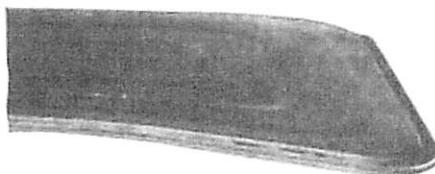
Imbedded Chip



3-E. Incidental

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—No. 4. Burrs, Dents or Buckles—



4-A. Minor



4-B. Incidental

Buckle



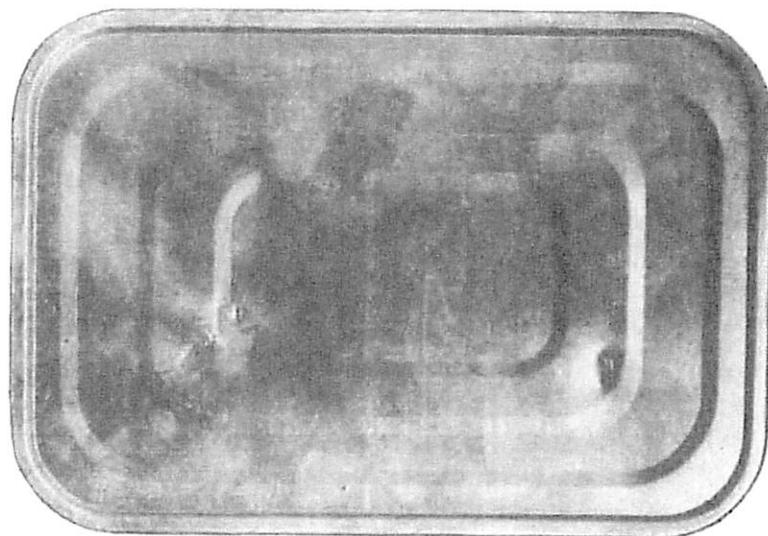
4-C. Minor



4-D. Incidental

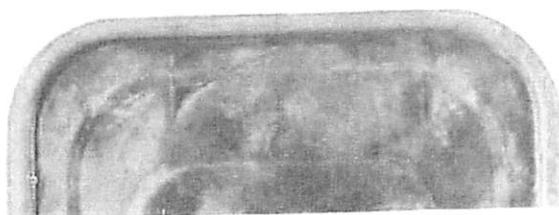
Dented Curl

(Incidental only if opening is greater than maximum body flange width shown on drawings.)



4-E. Dents—Minor

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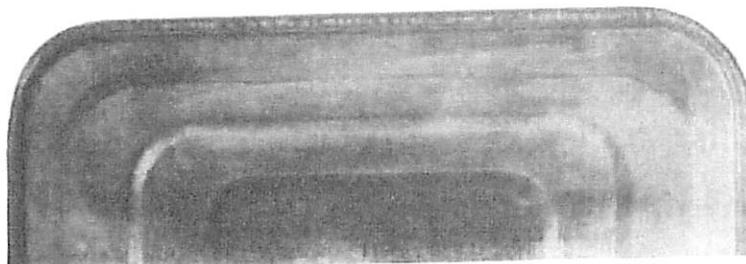


4-F. Dent—Permissible

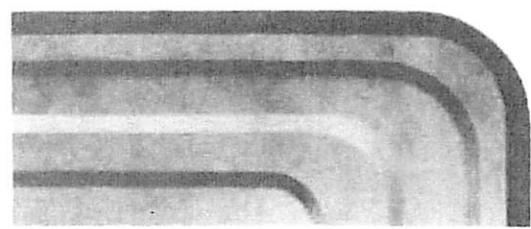


4-G. Small Buckles on Radius—Permissible  
(All four corners)

—No. 5. Lining Compound Containing Skips—  
Less Than One Inch in Length; Excessive Overlap, Incomplete or Inadequate Coverage

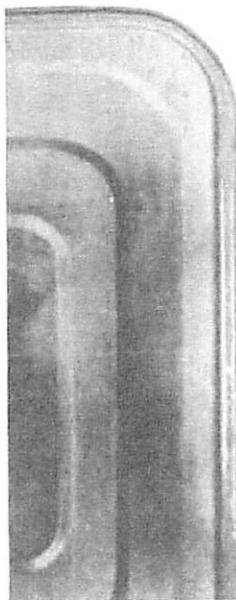


5-A. Minor

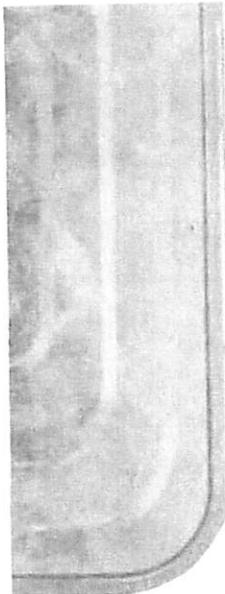


5-B. Permissible

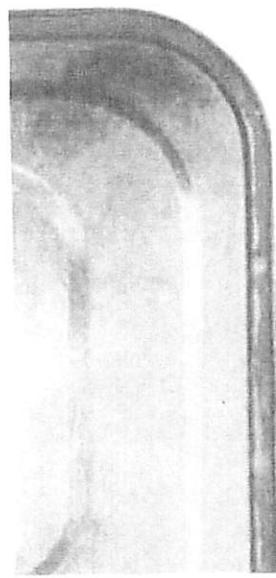
Inadequate Lining Compound



5-C. Minor

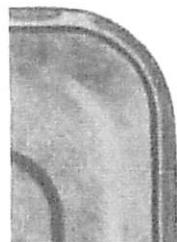


5-D. Minor



5-E. Permissible

Incomplete Lining Compound

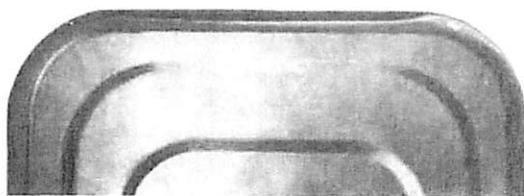


5-F. Lining Compound Containing  
Skips

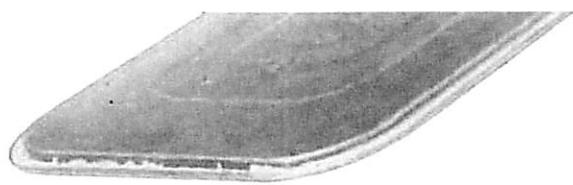
Less Than One Inch in Length—  
Minor

(5-E illustrates "worst" permissible condition and may be present on one or more areas of a bottom cover. A condition more pronounced than that shown in 5-E, but where the incompleteness of coverage is confined to inside edge of flange and not more than half the width of the finished flange, shall be considered an incidental defect provided that the cover be included as an assembled can component in the airtightness test sample and the assembly be satisfactory. Assembly shall also be considered as defective in the airtightness test if it fails the test.)

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5-G. Minor

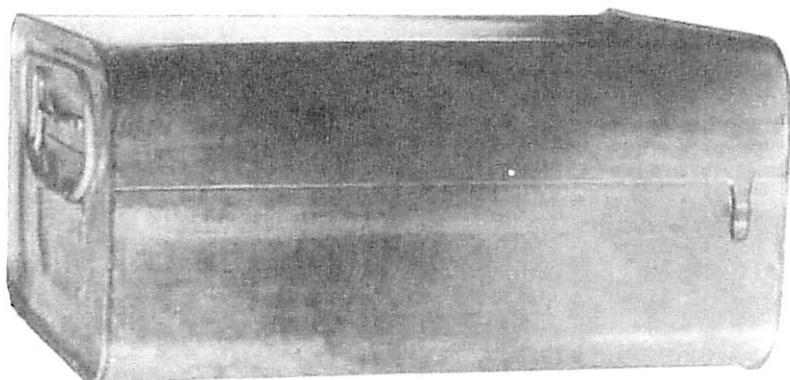


5-H. Permissible

Excessive Overlap

### **ASSEMBLY, ONE END OPEN**

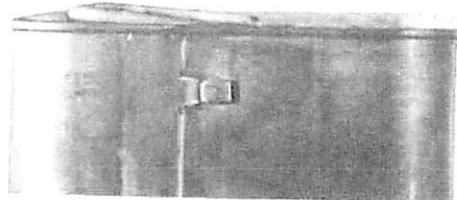
—No. 10. Missing or Incorrectly Positioned Component—



10-A. Top on Wrong End—Major

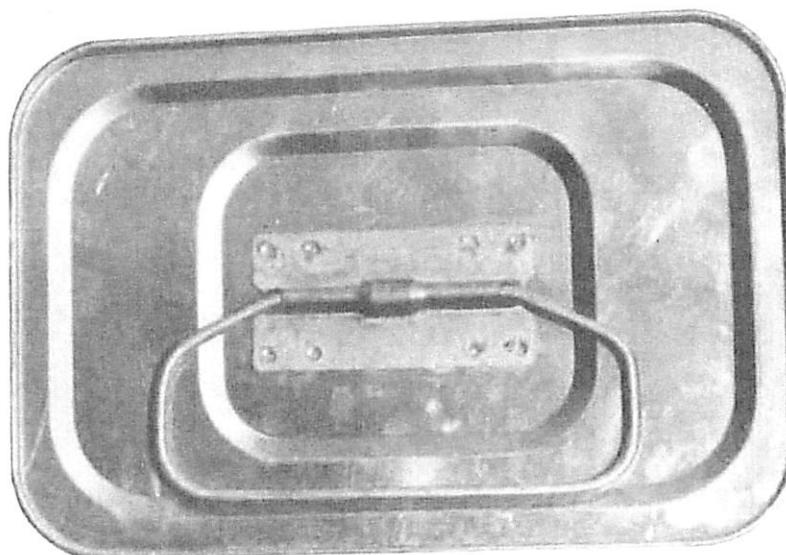


10-B. Incorrectly Positioned Tear Strip Tongue—Major

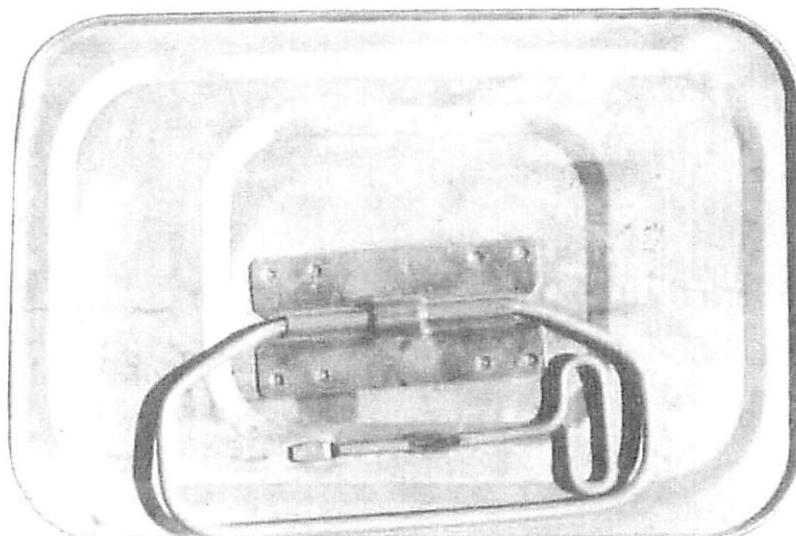


10-C. Bent Tear Strip Tongue—Major

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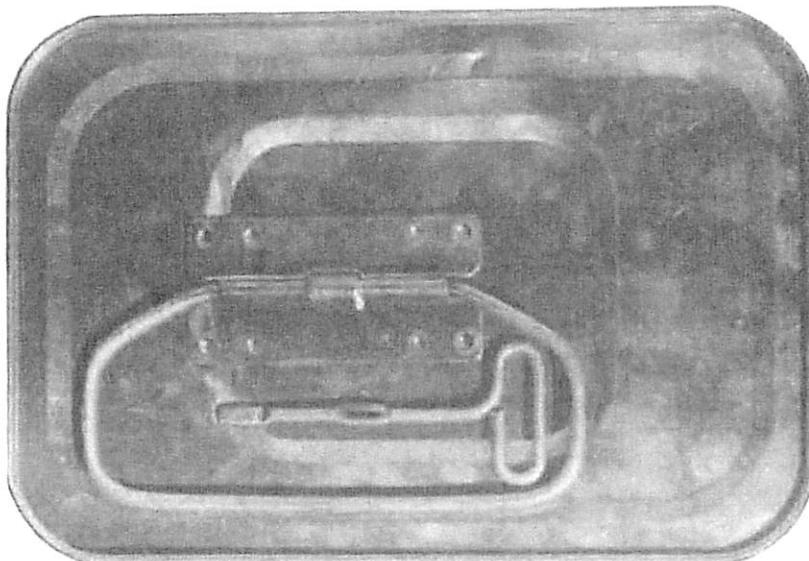


10-D. Missing Key—Major

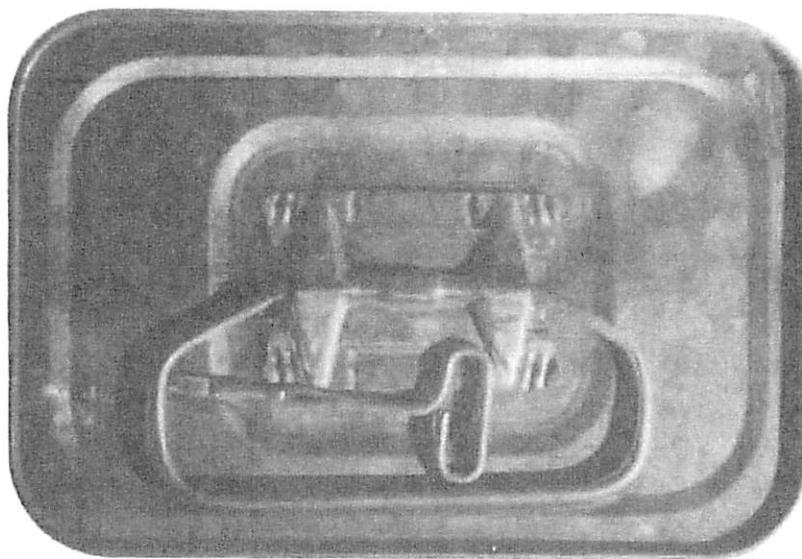


10-E. Incorrectly Positioned Handle and Cleat Assembly, and Key—Major

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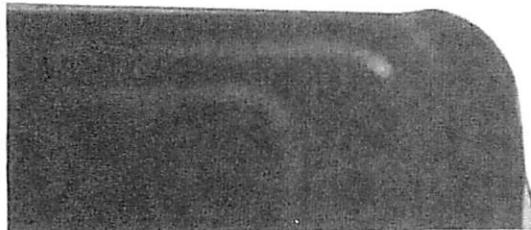
10-F. Incorrectly Positioned Handle and Cleat Assembly, and Key—Major



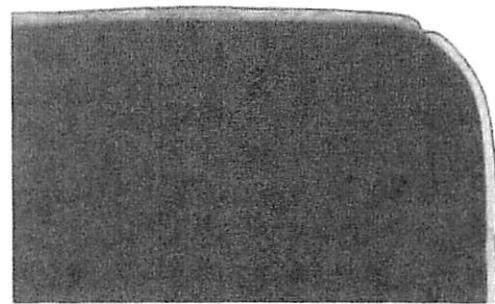
10-G. Incorrectly Positioned Key—Major

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—No. 11. Absence of Flange or Grossly Incorrect Flange—

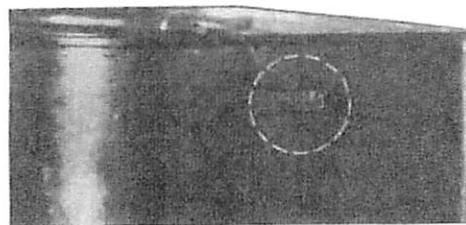


11-A. Absence of Flange—Major



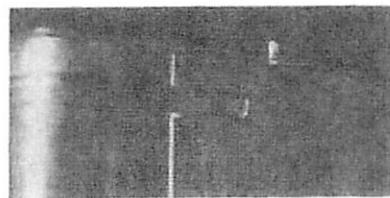
11-B. Grossly Incorrect Flange—Major

—No. 12. Chips, Dirt, Grease and Other Foreign Material—



12-A. Excessive Solder, Tear Strip Tongue—Minor

(Defect is permissible only if thickness of tongue with solder  
is less than minimum key slot.)

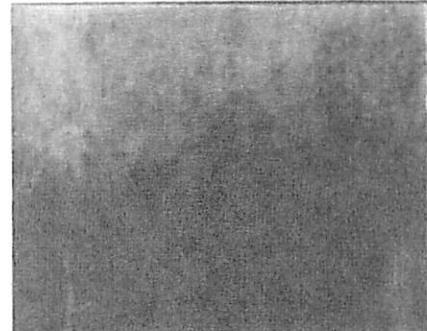


12-B. Metal Chip in Rolled Seam—Minor



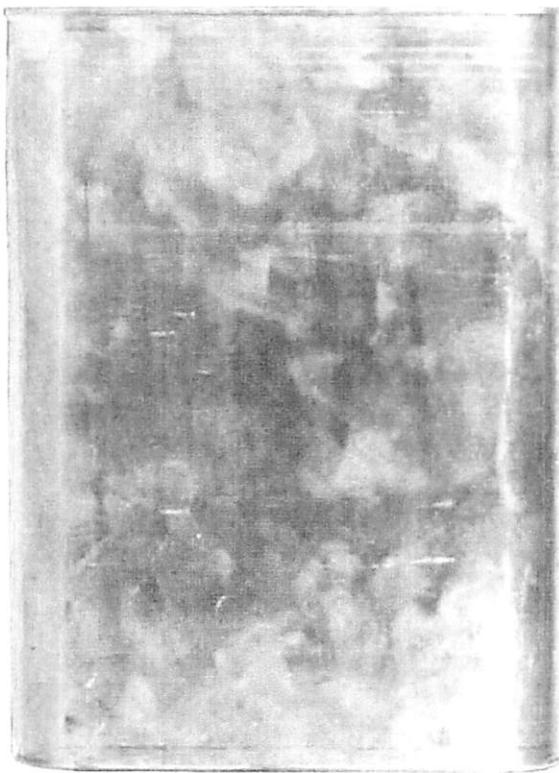
12-C. Grease—Minor

(Interior or Exterior)

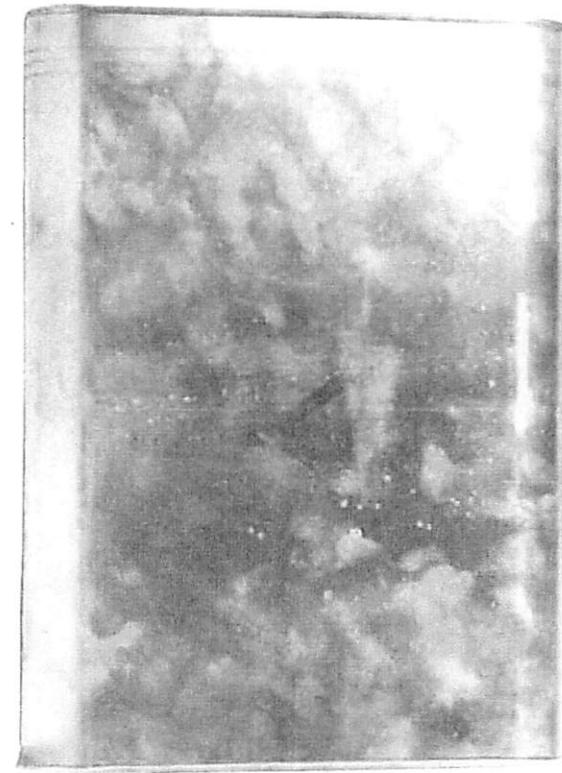


12-D. Foreign Material, Interior—Minor

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**12-E. Incidental**

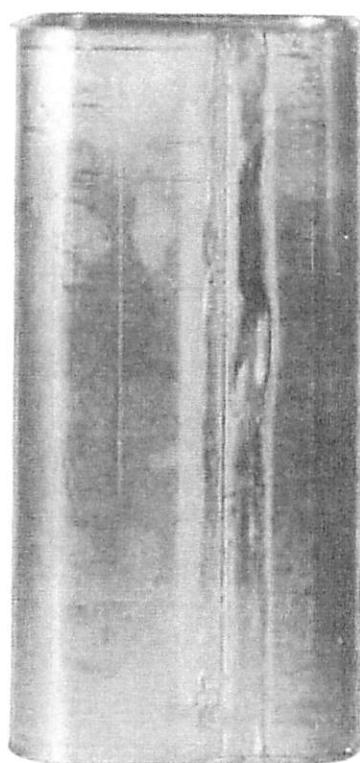


**12-F. Incidental**

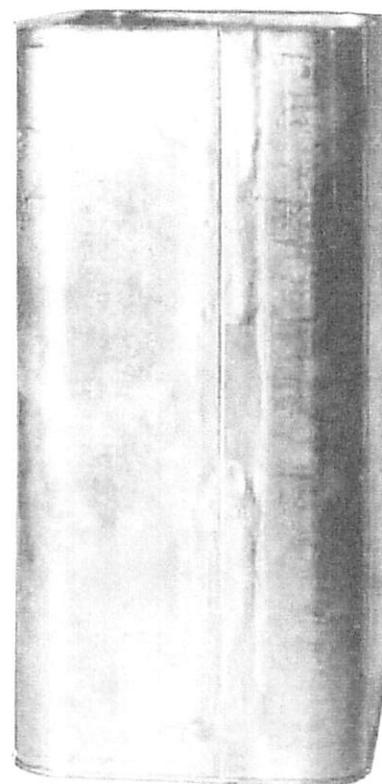
Foreign Material, Exterior

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—No. 13. Burrs, Dents, Buckles or Deformed Flanges—

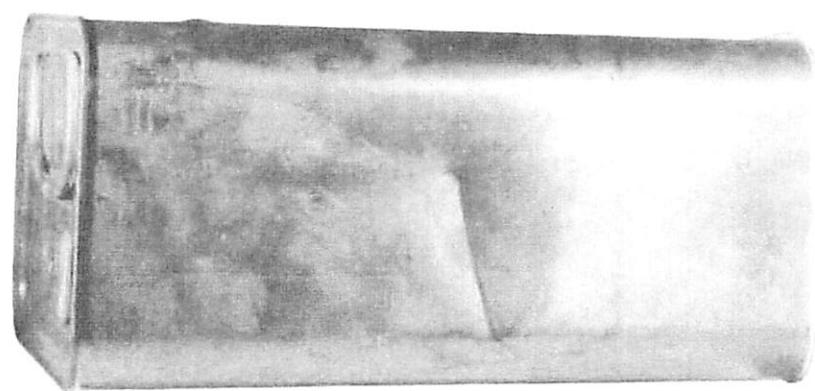


13-A. Incidental



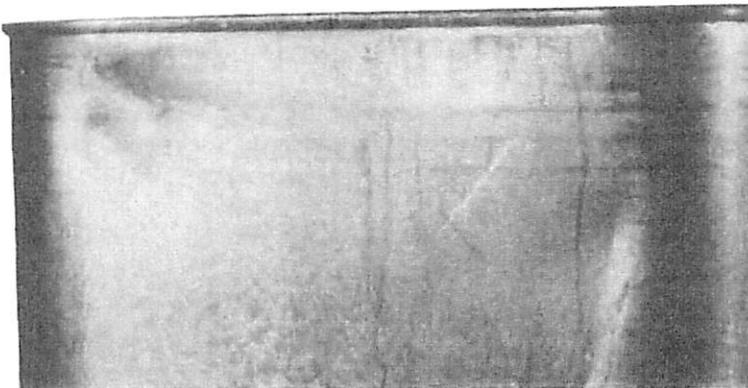
13-B. Permissible

Excessive Solder, Side Seam



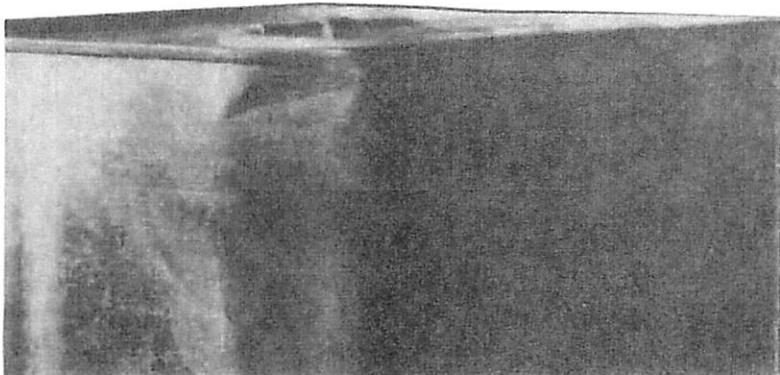
13-C. Minor

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13-D. Minor

(Minor only if on tear strip as shown; if not on tear strip, defect is permissible.)

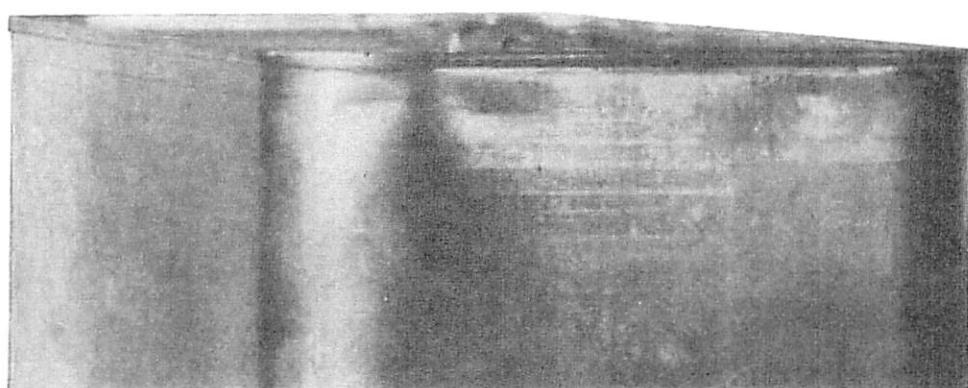


13-E. Incidental

(Incidental only if not on tear strip as shown; if on tear strip, defect is minor.)



13-F. Permissible

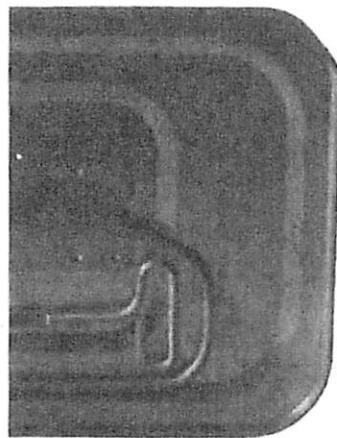


13-G. Permissible

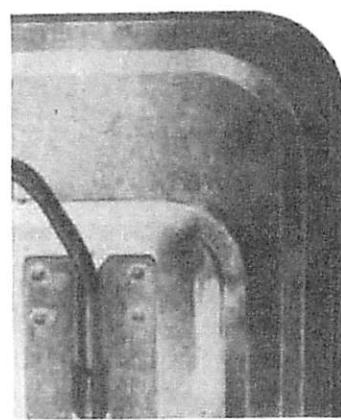
(Permissible only if not on tear strip as shown; if on tear strip, defect is minor.)

Dent

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13-H. Corner—Minor

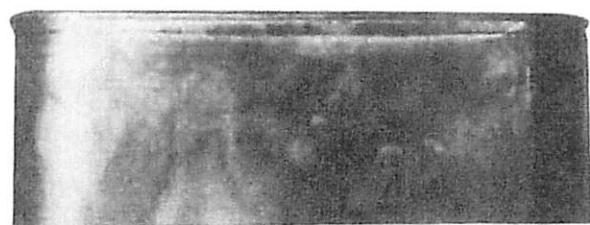


13-I. Top—Permissible

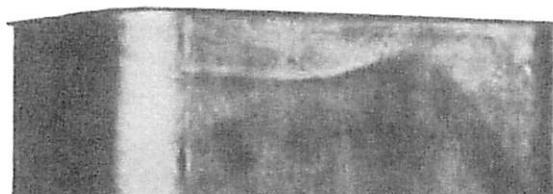
Dent



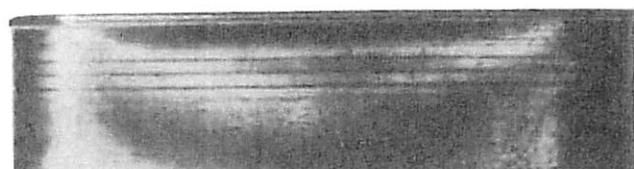
13-J. Minor



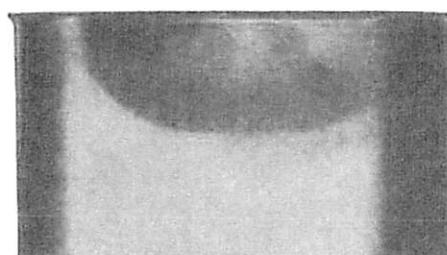
13-M. Minor



13-K. Incidental

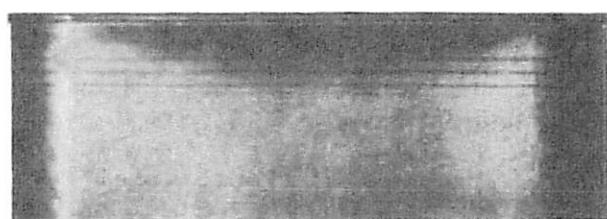


13-N. Incidental



13-L. Incidental

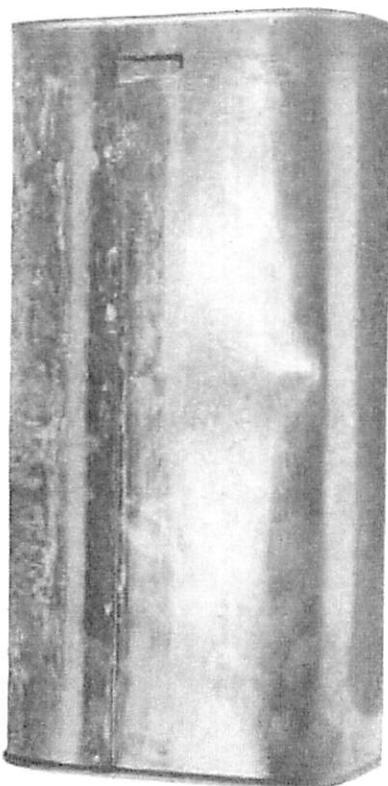
Buckle



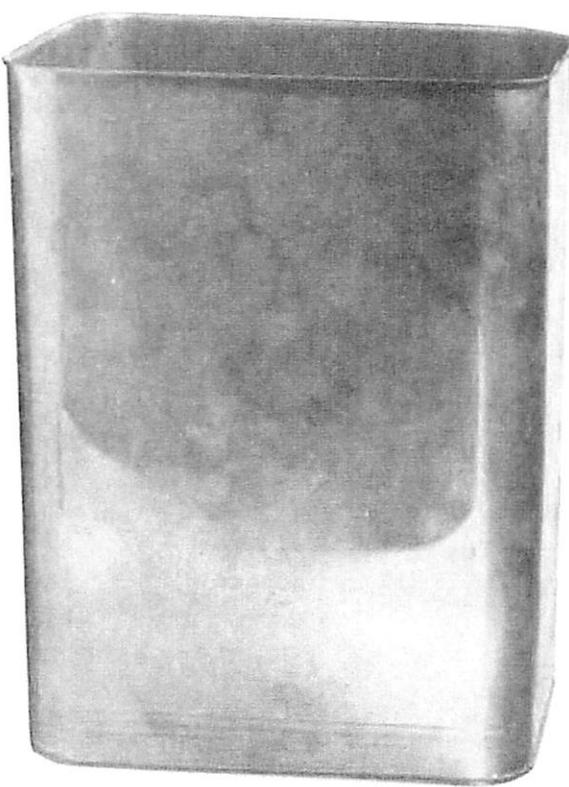
13-O. Permissible

Buckle

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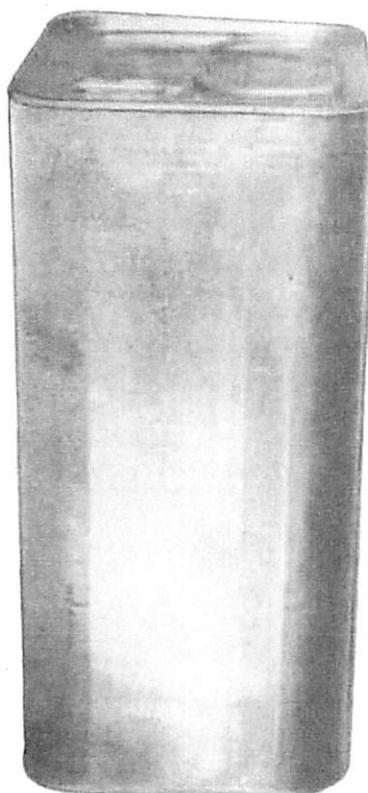


13-P. Minor

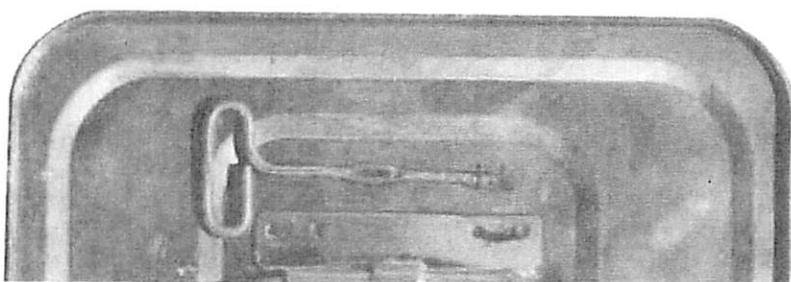


13-Q. Permissible

Buckle

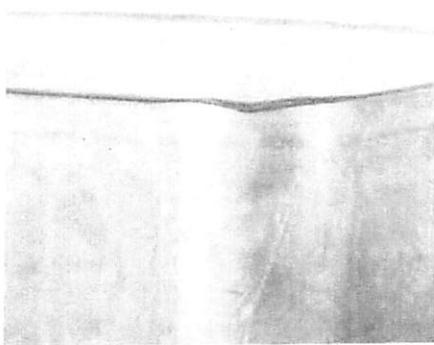


13-R. Fluting—Permissible

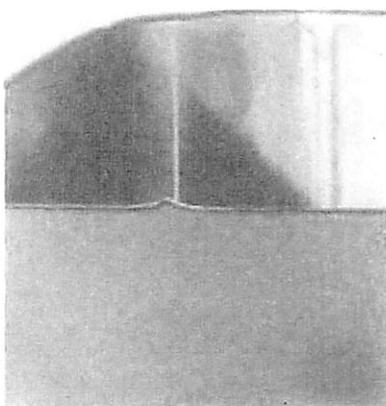


13-S. Weld Burns—Minor

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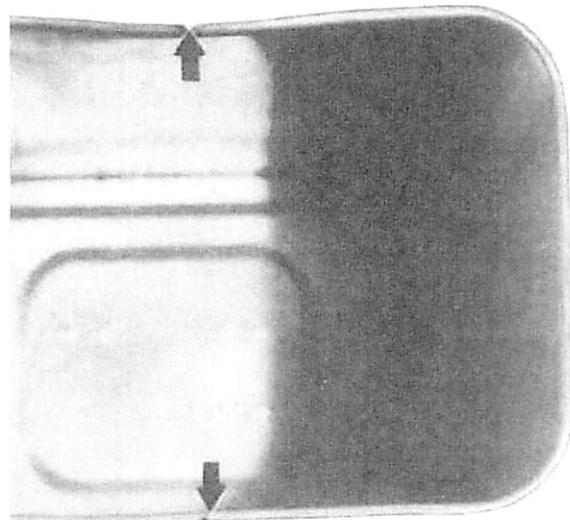
13-T. Minor



13-U. Minor



3-V. Incidental



13-W. Permissible

**Deformed Flange**

(Note 13-T which illustrates a deformed flange on a corner radius. The defect in that location, although less pronounced than 13-V, is classified minor because it is more likely to result in airtightness failure.)

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