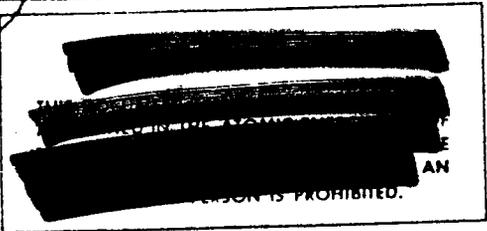


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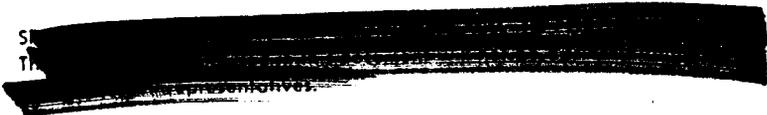
TECHNICAL MANUAL

# Special Weapons Retrofit Order

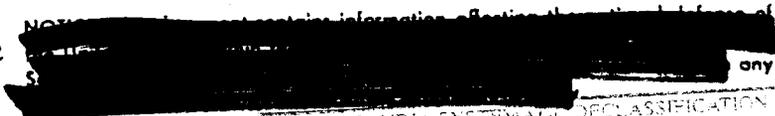
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| SANDIA SYSTEMATIC DECLASSIFICATION REVIEW          |  |
|--|--|
| 1 <sup>st</sup> Review Date: <u>8/28/96</u>        | Determination (Circle Numbers):          |
| Authority: <input checked="" type="checkbox"/> ADD | 1 Classification Retained                |
| Name: <u>W.C. Layne</u>                            | 2 Classification Changed to: <u>U</u>    |
| 2 <sup>nd</sup> Review Date: <u>8-29-96</u>        | 3 Contains no DOR Classified Information |
| Authority: <u>ADD</u>                              | 4 Coordinate With:                       |
| Name: <u>W.C. Layne</u>                            | 5 Contains UCAIT                         |
|  | 6 Comments:                              |

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JAN 1959



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| CLASSIFIED BY: <u>Emelda Seep</u>                 | DATE: <u>9/5/96</u>       |
| PERSON CHANGING MARKING & DATE: <u>W.C. Layne</u> | DATE: <u>9-5-96</u>       |
| PERSON VERIFYING MARKING & DATE:                  |                           |
| AUTHORITY: <u>W.C. Layne</u>                      | RECORD ID: <u>96SN464</u> |
|   | DATE: <u>8-29-96</u>      |

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Washington 25, D. C., 16 April 1957

This publication is issued for the information and guidance of all concerned.

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Manager, Albuquerque Operations  
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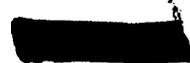


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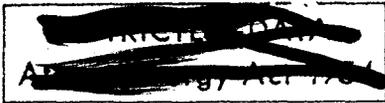
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## SAFETY PRECAUTIONS

During alteration operations, observe the following precautions:

- 1 Wear rubber gloves when using toxic cleaning agents.
- 2 Trichloroethylene is toxic if inhaled in large quantities for extended periods. Be sure that trichloroethylene containers are kept closed except when in actual use. Trichloroethylene will dry the skin of the hands, especially in the vicinity of the fingernails. Avoid contact with the hands.
- 3 Ground the bomb or Cobra before working on it.
- 4 Do not strike sparks near high explosives.
- 5 Be sure that no open flame, lighted cigarette, or other spark potential is present when the bomb is uncovered and opened or when cleaning and/or stenciling operations are being performed.
- 6 Use toxic and/or combustible cleaning agents sparingly and only in well-ventilated areas, free from sparks, open flames, or other sources of ignition.

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Paragraph 1-1 to 1-4

## SECTION 1

### GENERAL

#### 1-1 COMPLIANCE REQUIREMENTS.

1-1.1 BY WHOM WORK WILL BE ACCOMPLISHED. All activities having custody of the affected material. This retrofit will be performed by Naval activity having custody of training item.

1-1.2 WHEN WORK WILL BE ACCOMPLISHED. At a time scheduled by the inspection and repair activity. Air Force organizations will comply with this retrofit order within 120 days after receipt of the parts kits.

1-1.3 MAN-HOURS AND PERSONNEL REQUIRED. It is estimated that 2-man-hours will be required to alter each caster and that 1/4-man-hour will be required to exchange each tiedown strap bolt, exclusive of time required to remove the unit from storage and prepare for rework. It is recommended that a minimum of two persons be assigned each rework team.

1-1.4 FORM ENTRY REQUIREMENTS. Accomplishment of this alteration shall be noted on the Inspection Record Card, Packing Sheets and associated records. Compliance with this order will be reported as directed by applicable service.

1-1.5 PROJECT NUMBER. All military shipping documents and correspondence associated with this retrofit order will cite AFSWP Project Number 40-56.

#### 1-2 PURPOSE.

1-2.1 MK 21 AND MK 36 MOD 0 BOMBS AND MK 36 MOD 1 BOMBS, WAR RESERVE AND TRAINING TYPES.

1-2.1.1 The casters on each H-423 are to be inspected to determine their type. Casters manufactured by the Modern Caster Company utilize welded kingpins, which have in some cases broken out of the top plate due to a poor weldment. Casters manufactured by the Modern Caster Company are to be removed, reworked, and reinstalled on the H-423. The rework consists of replacing the top plate and welded kingpin with a top plate forging in which the kingpin is forged as an integral part.

1-2.1.2 The tiedown strap bolts on each H-423 are to be inspected for a stamped letter "C" or "X" on the top surface of the bolthead. Bolts with unmarked heads are low in tensile strength and are to be replaced with the correct bolts (P/N 827941-00).

1-2.1.3 Appropriate part numbers are to be changed and Alt number 155 will be stenciled in required areas, subsequent to inspection and any required rework.

1-2.2 MK 21 MOD 0 AND MK 36 MOD 0 BOMB MAINTENANCE SPARES.

1-2.2.1 Casters in bomb maintenance spares will be removed, inspected and reworked as required in the same manner as those on the H-423, then repackaged.

1-2.2.2 Tiedown strap bolts in bomb maintenance spares will be removed, inspected and replaced as required, in the same manner as those on the H-423, then packaged.

1-2.2.3 Appropriate part numbers are to be changed and Alt number 155 will be stenciled in required areas, subsequent to inspection and any required rework.

1-2.3 BASE AND MILITARY SPARES.

1-2.3.1 Casters in base and military spares will be inspected and reworked as required in the same manner as those on the H-423.

1-2.3.2 Tiedown strap bolts in base and military spares will be inspected and replaced as required in the same manner as those on the H-423.

#### 1-3 PRODUCTION CHANGE POINT.

1-3.1 The rework described by this retrofit order was accomplished in new production starting February 1957; however, a few Mk 36 Mod 1 bombs not incorporating alt 155 will appear subsequent to this new production.

#### 1-4 WEIGHT AND BALANCE INFORMATION.

The weight and balance change resulting from the instructions contained herein is negligible.

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# SECTION 2 UNCLASSIFIED SUPPLY DATA

## 2-1 PARTS REQUIRED PER EQUIPMENT.

The AEC part numbers given in this document are also applicable to the Army and Navy. Available Air Force stock numbers are listed separately, where required.

2-1.1 PARTS REQUIRED (KIT SUPPLIED). Table I lists the parts kits required to perform this alteration and their applicability. Table II lists the contents of the parts kits.

2-1.1.1 WAR RESERVE MATERIAL. Retrofit material for initial application to war reserve major assemblies in Department of Defense custody will be furnished by AEC to Service Special Weapons Depots, based on requirements stated in Monthly (WR) Mod and Alt Forecast and Status Report. Distribution will be through normal supply channels, in accordance with established priorities. Further distribution will be made by Service Depots in accordance with established service procedures. Delivery of kits is scheduled to begin approximately 1 April 1957 and to continue at the rate of 250 kits per month.

2-1.1.1.1 Retrofit kits for initial application to war reserve major assemblies will be furnished by AEC to AEC Storage Sites, based on requirements stated in Monthly (WR) Mod and Alt Forecast and Status Report. Distribution will be in accordance with established priorities.

2-1.1.1.2 TRAINING MATERIAL. Retrofit kits for initial application to training weapon major assemblies will be furnished automatically, based on stated service requirements, to Service Special Weapons Depots in accordance with existing procedures. Further distribution will be made by the Service Depots in accordance with established service procedures. Air Force organizations will requisition kits from Class 39-D, as stock number 0600-11N-B36-503, citing this technical order as authority. Delivery of kits is scheduled to begin approximately 1 April 1957 and to continue at a rate sufficient to maintain pace with alteration teams.

2-1.2 SIZE, WEIGHT, AND COST OF PARTS KITS. Table III lists the estimated sizes, weights and costs of the parts kits required for compliance with this retrofit order.

2-1.3 PARTS REQUIRED (NOT KIT SUPPLIED). The material listed in table IV is required for compliance with this retrofit order. The material will be requisitioned from appropriate supply activities through normal supply channels. AEC Storage site supply channel for war reserve material is AEC through FC/AFSWP Materiel Control Division (FCMCS). Air Force organization will cite this technical order as authority.

## 2-2 ALTERATION OF SPARES IN STOCK.

### 2-2.1 IDENTIFICATION OF SPARES.

2-2.1.1 MAINTENANCE SPARES. Procedures for the alteration of the Mk 21 Mod 0 and Mk 36 Mod 0 Bomb Maintenance Spares are provided in paragraphs 3-3 and 3-4 respectively.

2-2.1.2 BASE AND MILITARY SPARES. Items in base and military spares that are to be reworked are listed in table V together with required action.

### 2-2.2 PARTS REQUIRED TO ALTER SPARES.

2-2.2.1 MAINTENANCE SPARES. Parts required to alter maintenance spares are supplied in parts kit A and are listed in table II.

2-2.2.2 BASE AND MILITARY SPARES. Parts required to rework items in base and/or military spares are the same as those provided in parts kits A and B. Contents of parts kits A and B are listed in table II.

## 2-3 INSTALLATION TOOLS AND EQUIPMENT.

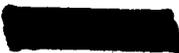
2-3.1 INSTALLATION TOOLS (KIT SUPPLIED). There are no installation tools supplied.

2-3.2 SIZE, WEIGHT, AND COST OF TOOL KITS. Not applicable.

2-3.3 INSTALLATION EQUIPMENT (NOT KIT SUPPLIED). In addition to normal organizational equipment allowances, the tools and equipment listed in table VI are required to perform this alteration. The quantities listed in table VI are minimum quantities required by each operational team performing the retrofit. Total quantities will be requisitioned as required from appropriate supply activities through normal supply channels. After alteration of the equipment has been completed, dispose of the equipment as specified in the table. Air Force organizations will cite this technical order as authority.

## 2-4 DISPOSITION OF REMOVED PARTS.

Table VII lists parts removed in compliance with this alteration order and indicates their disposition. Digital suffixes to AEC part numbers shown in table VII represent the most recent version of the item prior to application of this retrofit order. AEC part numbers of line items to be disposed of will bear the digital suffix shown, or may be one of lower or higher numerical order because of changes. Miscellaneous small standard attaching hardware is not listed and will be disposed of locally.



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SECTION 2

TABLE I

PARTS KITS REQUIRED

| QUANTITY | AEC PART NO. | RM NO.       | NOMENCLATURE | USE  |
|----------|--------------|--------------|--------------|--|
| 1        | 351607-00    | 300269-00/01 | Kit A        | One kit is required to alter each defective caster, whether in Mk 21 or Mk 36 Bomb or BMS, regardless of bomb type.                |
| 1        | 827941-00    | *            | Kit B*       | One bolt is required to replace each defective tiedown strap bolt, whether in Mk 21 or Mk 36 Bomb or BMS, regardless of bomb type. |

\*Kit B consists of one part. This part is to be procured as a line item by part number. For purposes of identification, the stock number of the part is applied to the kit in this retrofit order.

TABLE II

CONTENTS OF PARTS KITS

| QUANTITY |       | NOMENCLATURE                            | AEC PART NO. |
|----------|-------|---|--------------|
| Kit A    | Kit B |   |              |
| 1        | -     | Top Plate, Swivel                       | 830816-00    |
| 1        | -     | Cotter Pin (AN-380-8-8), 1/4 by 2 inch  | 810503-00    |
| 1        | -     | Cotter Pin (AN-380-5-8), 5/32 by 2 inch | 810498-00    |
| 1        | -     | Shim                                    | 135611-00    |
| -        | 1     | Bolt, Machine, 1-14NF-3A                | 827941-00    |

TABLE III

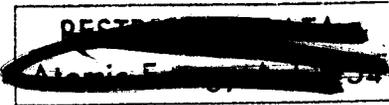
SIZE, WEIGHT, AND COST OF PARTS KITS (ESTIMATED)

| NOMENCLATURE | AEC PART NO. | APPROXIMATE SIZE (inches) | APPROXIMATE WEIGHT (pounds) | ESTIMATED COST |
|--------------|--------------|---------------------------|-----------------------------|----------------|
| Kit A        | 351607-00    | 13 by 9 by 5              | 7                           | \$18.50        |
| Kit B*       | 827941-00    | 1-1/2 by 1-1/2 by 2       | 3                           | 2.00           |

\*See footnote, table I.

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SECTION 2

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TABLE IV **UNCLASSIFIED**  
PARTS REQUIRED (NOT KIT SUPPLIED)

| APPROXIMATE QUANTITY |         |        | AEC UNIT<br>OF ISSUE | NOMENCLATURE                    | AEC<br>PART NO. | AIR FORCE<br>STOCK NO. |
|----------------------|---------|--------|----------------------|---------------------------------|-----------------|------------------------|
| WR BOMB              | TR BOMB | BMS    |                      |                                 |                 |                        |
| 1 oz                 | 1 oz    | 1 oz   | 1 pound              | Grease, Aircraft and Instrument | 809994-00       | 9150-261-8298          |
| 1/2 oz               | 1/2 oz  | 1/2 oz | 1 pint               | Enamel, (OD) (MIL-E-74A)        | 829346-00       | 7300-416765            |
|                      |         |        | 1 pint               | Lacquer, (OD, 3412)             | 945029-00       | 7300-500130            |
| 1 oz                 | 1 oz    | 1 oz   | 1 pint               | Lacquer, yellow                 | 813161-00       | 7300-537150            |
|                      |         |        | 1 pint               | Lacquer, yellow stencil         | 945027-00       | Not Available          |

TABLE V  
SPARES TO BE REWORKED

| BASE<br>SPARES | MILITARY<br>SPARES | NOMENCLATURE             | AEC PART NO. | ACTION*   |
|----------------|--------------------|--------------------------|--------------|---|
| X              | X                  | Bolt, Machine, 1-14NF-3A | 827941-00    | Replace these bolts as required in accordance with procedures in paragraph 3-4. 1. 4.   |
| X              | X                  | Caster, Swivel           | 827871-01    | Inspect all casters (for Mk 21/36) in accordance with procedures in paragraph 3-2. 4. Rework unacceptable casters in accordance with procedures in paragraph 3-2. 6. 3. |

\*Take appropriate action to ensure that reworked casters are not confused with unaltered casters of the same part number.

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TABLE VI

## EQUIPMENT REQUIRED (NOT KIT SUPPLIED)

| QUANTITY |          |     | NOMENCLATURE  | AEC<br>PART NO. | AIR FORCE<br>STOCK NO. | SECURITY<br>CLASSIFI-<br>CATION | DISPOSITION |       |    |
|----------|----------|-----|---|-----------------|------------------------|---------------------------------|-------------|-------|----|
| WR BOMB  | TR BOMB  | BMS |   |                 |                        |                                 | TR          |       | WR |
|          |          |     |   |                 |                        |                                 | AF          | AFSWP |    |
| 10 or 12 | 10 or 12 | -   | Plank, 2-in. by 10 in.<br>by minimum 6 feet,<br>hardwood (for making<br>chocks) | None            | 7200-065000-<br>4558   | Unclas-<br>sified               | 1           | 2     | 3  |

1. Dispose of through normal AF supply channels.
2. Dispose of in accordance with instructions from respective service or AEC.
3. Dispose of in accordance with local instructions.

TABLE VII

## DISPOSITION OF REMOVED PARTS

| QUANTITY       |                |                | NOMENCLATURE   | AEC<br>PART NO. | AIR FORCE<br>STOCK NO. | SECURITY<br>CLASSIFI-<br>CATION | DISPOSITION |       |    |
|----------------|----------------|----------------|--|-----------------|------------------------|---------------------------------|-------------|-------|----|
| WR BOMB        | TR BOMB        | BMS            |  |                 |                        |                                 | TR          |       | WR |
|                |                |                |  |                 |                        |                                 | AF          | AFSWP |    |
| From 0<br>to 4 | From 0<br>to 4 | From<br>0 to 4 | Top Plate, Solid<br>5/8-inch-thick<br>stock, with welded<br>kingpin. | None            | None                   | Unclas-<br>sified               | 2           | 1     | 2  |

1. Dispose of in accordance with instructions from respective service or AEC.
2. Demilitarize, declassify, and dispose of through salvage.

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## SECTION 3

## MODIFICATION DATA

## 3-1 GENERAL.

3-1.1 Application of these procedures accomplishes Alt 155 to the Mk 21 Mod 0, Mk 36 Mod 0, and Mk 36 Mod 1 War Reserve Bombs and to the Mk 21 Mod 0 and Mk 36 Mod 1 Type 3 Training Bombs. Use of these procedures also accomplishes Alt 155 to the Mk 21 Mod 0 and Mk 36 Mod 0 Bomb Maintenance Spares.

3-1.2 All operations shall be in accordance with the specifications contained herein and to the highest grade of professional practices associated with the work.

3-1.3 The disassembly, alteration and reassembly sequence is influenced by differences in established team methods and facilities. Unless otherwise specified, and provided no safety features are violated, the sequence of operation may be adjusted by the using agency or organization to facilitate the alteration.

## CAUTION

Whenever a torque value is required for the tightening of any screws, nuts or bolts during the assembly of components, it will be specified at the appropriate location in the procedures. When "tighten securely" or similar direction is given, and no torque value is designated, exercise care not to overtighten. When no torque is designated and doubt exists as to allowable tightness, the specific torque values given in AEC-AFSWP TP 40-54 may be used as a guide.

3-1.4 Prior to reassembly of the weapon or reinstallation of a component, determine the cleanliness of each part that has been exposed. Inspect the parts carefully and remove dirt, dust, oil, grease, chips or other foreign material. Avoid displacing any wires, cables, or tiedowns when cleaning.

3-1.5 Before installing a replacement part, visually inspect for damage or defective conditions that may have occurred during shipping, storage, or handling.

3-1.6 Refer to AEC-AFSWP TP 35-51 for general cleaning, obliteration, and marking information. Specific marking instruction are included where required, and are to be used in conjunction with the

general marking information in AEC-AFSWP TP 35-51. If the color or size specified for application of a marking on the bomb or BMS does not match the color or size of the marking being changed, use a color or size that will.

### 3-2 ALTERATION PROCEDURES FOR MK 21 MOD 0, MK 36 MOD 0 AND MK 36 MOD 1 WAR RESERVE BOMBS AND FOR MK 21 MOD 0 AND MK 36 MOD 1 TYPE 3 TRAINING BOMBS.

#### 3-2.1 OPENING SECURITY COVER.

3-2.1.1 Unfasten the snap fastener securing the front panel of the security cover to the top panel. Remove the front panel from the work area.

3-2.1.2 Unbuckle the two straps of the top panel. These straps are located beneath the H-423 Bolster Truck.

3-2.1.3 Roll the top panel back to expose the entire front case section of the bomb.

3-2.2 INSPECTION OF TIEDOWN STRAP BOLTS. Inspect the two tiedown strap bolts of the H-423 for the presence of a stamped "C" or "X" on the top surface of the bolthead. Bolts stamped with the "C" or "X" are acceptable.

3-2.3 REPLACEMENT OF TIEDOWN STRAP BOLTS. Bolts not stamped with the "C" or "X" must be replaced, as follows:

3-2.3.1 Remove the self-locking 1-14 hexagon nut and the 1-inch flat washer from the bolt and remove the bolt from the tiedown straps.

3-2.3.2 Obtain the replacement bolt (P/N 827941-00) from the parts kit and install it in place of the removed bolt. Install the 1-inch flat washer and the self-locking 1-14 hexagon nut on the bolt and tighten securely.

3-2.4 INSPECTION OF CASTERS. Casters manufactured by the Modern Caster Company are unacceptable without alteration for use on the H-423. Inspect all four casters on the H-423 to determine the required action.

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Paragraph 3-2.4.1 to 3-2.6.1

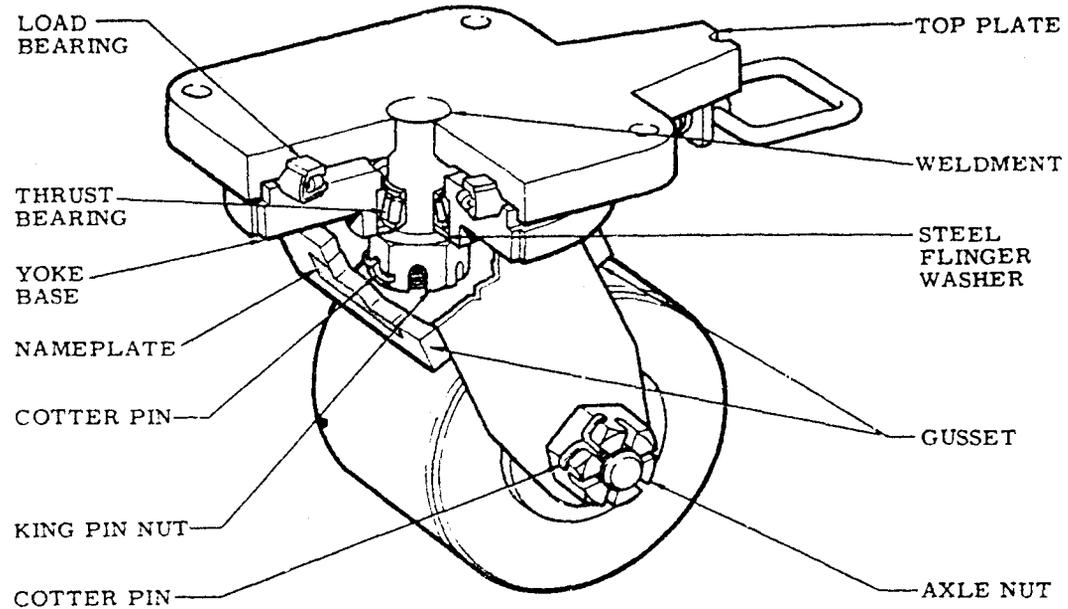


Figure 3-1 Caster (P/N 827871-01) Before Alteration

#### NOTE

The swivel lock plate of each caster protrudes through the supports (bolsters) at the front or rear of the H-423.

3-2.4.1 A caster that has a top plate and swivel lock plate fabricated from one piece of stock (not welded) approximately 5/8 inch thick is unacceptable (figure 3-1).

3-2.4.2 A caster that has a welded swivel lock plate approximately 5/16 inch thick is acceptable (figure 3-2).

#### 3-2.5 ACTION RESULTING FROM CASTER INSPECTION.

3-2.5.1 If all casters on the H-423 are acceptable, proceed directly to paragraph 3-2.8, omitting all intervening paragraphs.

3-2.5.2 If any caster on the H-423 is unacceptable, proceed directly to paragraph 3-2.6.

#### 3-2.6 REMOVAL, ALTERATION, AND REINSTALLATION OF CASTERS.

##### 3-2.6.1 PLACING H-423 AND BOMB ON CHOCKS.

3-2.6.1.1 If the towbar is attached to the H-423, remove the pins securing it in place and remove the towbar. Reinstall the pins in the holes in the H-423. Move the towbar from the work area.

3-2.6.1.2 Position the H-420 Sling Spreader over the bomb, by means of an overhead hoist with a capacity of no less than 8 tons.

3-2.6.1.3 Orient the H-420 so that the short leg is toward the front of the bomb.

3-2.6.1.4 Attach the H-488 Multiple Leg Sling to the clevis of the H-420, as shown in figure 3-3.

3-2.6.1.5 Connect the four legs of the H-488 to the straddle carrier brackets of the H-423 as shown in figure 3-3, making sure to hook the sling in place so that the cable does not pass on the outside of the frame straps.

3-2.6.1.6 Align the hoist so that the legs of the H-488 are in a vertical position. Hoist the bomb high enough to permit placement of two 8- to 10-inch-thick chocks in the position shown in figure 3-3.

#### NOTE

The chocks specified in paragraphs 3-2.6.1.6 and 3-2.6.1.7 are to be made of hardwood. They may be fabricated from five or six 2 by 10-inch planks no less than 6 feet long which are to be securely fastened together.

3-2.6.1.7 Place the two 8- to 10-inch-thick chocks under the H-423 in the position shown in figure 3-3, making sure the chocks extend beyond both the front and rear of the H-423 structure.

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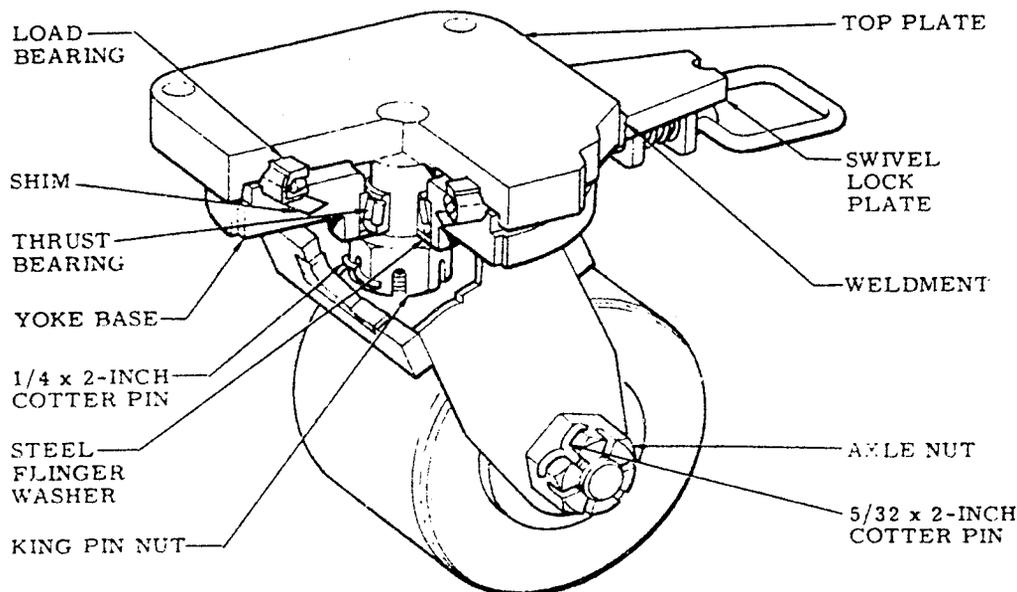


Figure 3-2 Caster (P/N 827871-01) After Alteration

3-2.6.1.8 Lower the bomb and H-423 into the position shown in figure 3-3, making sure the H-423 rests securely on both chocks.

3-2.6.2 REMOVAL OF CASTERS. Remove the four bolts and 5/8-inch-diameter lockwashers securing each unacceptable caster to the H-423 and remove each unacceptable caster.

3-2.6.3 ALTERATION OF CASTERS. Alter each unacceptable caster in accordance with the following procedures.

3-2.6.3.1 Remove the cotter pin from one of the axle nuts and remove the axle nut.

3-2.6.3.2 Push the axle out and remove the axle and wheel from the legs of the caster.

3-2.6.3.3 Remove the cotter pin from the kingbolt nut and remove the nut and washer.

3-2.6.3.4 Remove the top plate, load bearing, and thrust bearing from the yoke base (figure 3-1), taking care not to drop the bearings.

#### NOTE

Save all items of the caster except the cotter pins and top plate.

3-2.6.3.5 Obtain the brass shim (P/N 135611-00) from the parts kit and place the shim in the load bearing cavity on the top of the yoke base (figure 3-2).

3-2.6.3.6 If necessary, clean the load bearing and thrust bearing in accordance with procedures in AEC-AFSWP TP 35-51, using any applicable method that will not damage the equipment.

3-2.6.3.7 Grease the load bearing and the thrust bearing, packing them with aircraft and instrument grease (P/N 809994-00).

3-2.6.3.8 Install the load bearing on top of the shim in the load bearing recess (figure 3-2).

3-2.6.3.9 Obtain the top plate (P/N 830816-00) from the parts kit and install it in the position shown in figure 3-2. Hold the top plate to the yoke base and invert the caster.

3-2.6.3.10 Insert the thrust bearing as shown in figure 3-2. Install the washer and nut on the kingpin and tighten snugly. Back the nut off just the amount required to permit the caster to swivel under hand pressure, then align one notch in the castellated nut with the cotter pin hole in the kingpin.

3-2.6.3.11 Obtain the 1/4 by 2-inch cotter pin (P/N 810503-00) from the parts kit and install it in accordance with procedures in AEC-AFSWP TP 40-54.

3-2.6.3.12 Place the wheel between the legs of the caster. Align the axle holes and install the axle.

3-2.6.3.13 Place the axle nut on the axle and tighten it securely. Back the axle nut off just the amount required to allow the wheel to rotate under hand pressure and then align one notch in the castellated nut with one of the cotter pin holes in the axle. Wheel must rotate under hand operation.

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Paragraph 3-2.6.3 to 3-2.9

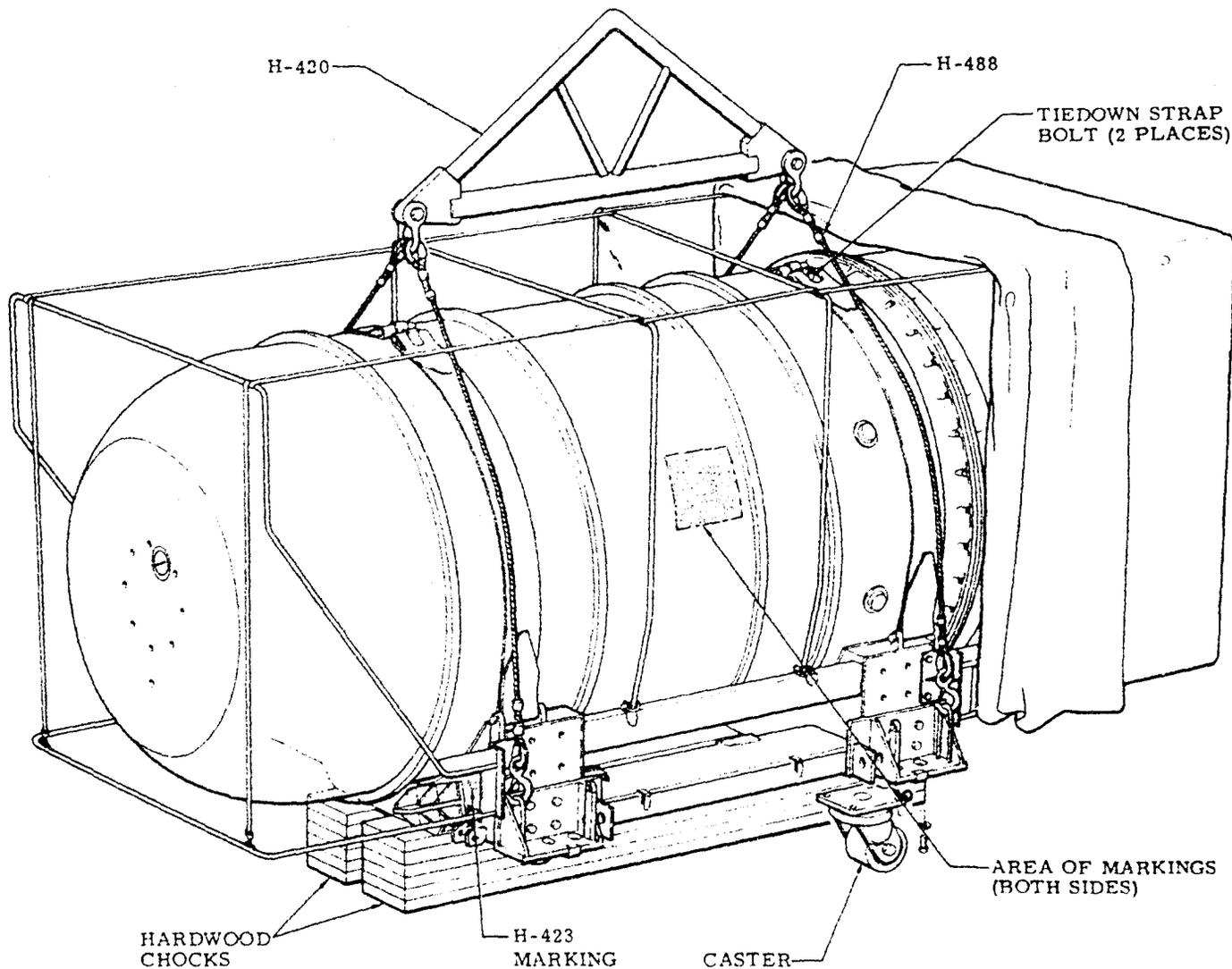


Figure 3-3 H-423 and Bomb Placed on Chocks

3-2.6.3.14 Obtain the 5/32 by 2-inch cotter pin (P/N 810498-00) and install it in accordance with procedures in AEC-AFSWP TP 40-54.

3-2.6.4 INSTALLATION OF ALTERED CASTERS. Position the caster on the H-423 (figure 3-3) and align the four bolt holes. Install the four bolts and lock-washers and tighten them securely.

### 3-2.7 REMOVAL OF CHOCKS.

3-2.7.1 Hoist the bomb just enough to permit removal of the two chocks and remove the chocks from beneath the H-423.

3-2.7.2 Lower the bomb and H-423 to the floor. Unhook the four cable legs from the H-423 and move the H-488 and H-420 out of the way. If desired, remove the H-488 and H-420 from the overhead hoist.

### 3-2.8 H-423 MARKING PROCEDURES.

3-2.8.1 Locate the H-423 part number "320055-XX" appearing in the vicinity shown in figure 3-3.

3-2.8.2 Using yellow stencil lacquer and 1/2-inch-high characters, stencil rework part number "4" beneath the first digit on the extreme left of the H-423 part number. If one or more rework part numbers are already present, apply rework part number "4" to the right of the existing rework number(s), and separate from previous number(s) by a comma.

3-2.9 BOMB STENCILING PROCEDURES. Using yellow stencil lacquer and characters approximately the same height as those present, stencil the following information on each side of the bomb in the vicinity shown in figure 3-3.

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TABLE VIII

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## REWORK PART NUMBERS TO BE APPLIED UNDER PACKAGE AND MK-MOD-ALT PART NUMBERS

| BOMB TYPE                    | BASIC PACKAGE AND MK-MOD-ALT PART NO. | CORRESPONDING REWORK PART NO. TO BE APPLIED |
|------------------------------|---------------------------------------|---|
| Mk 21 Mod 0, War Reserve     | 300140-XX                             | 2   |
| Mk 21 Mod 0, Training Type 3 | 300171-XX                             | 3   |
| Mk 36 Mod 0, War Reserve     | 300267-XX                             | 1   |
| Mk 36 Mod 1, War Reserve     | 300269-XX                             | 1   |
| Mk 36 Mod 1, Training Type 3 | 300262-XX                             | 1   |

3-2.9.1 ALT NUMBER. Stencil the Alt number "155" to the right of the ALTS heading or, of other Alt numbers are present, apply Alt number "155" to the right of the last Alt number, and separate from the last number by a comma.

**NOTE**

The package part number does not appear on some units, in which case, omit the procedures in paragraph 3-2.9.2.

3-2.9.2 PACKAGE PART NUMBER. Stencil the appropriate rework part number specified in table VIII under the first digit on the extreme left of the package part number. If one or more rework part numbers are already present, apply the rework part number to the right of the existing rework part number(s) and separate from previous number(s) by a comma.

3-2.9.3 MK-MOD-ALT PART NUMBER. Stencil the appropriate rework part number specified in table VIII under the first digit on the extreme left of the Mk-Mod-Alt part number. If one or more rework part numbers are already present, apply the rework part number to the right of the existing rework part number(s) and separate from previous number(s) by a comma.

**NOTE**

The date does not appear on some units, in which case, omit the procedures in paragraph 3-2.9.4.

3-2.9.4 DATE. Using olive drab enamel or lacquer, obliterate the existing date. Stencil the current month and year in place of the obliterated date.

3-2.10 REPACKAGING.

3-2.10.1 Pull the front end of the top panel of the security cover forward so that the arrows are positioned approximately at the center of the framework.

3-2.10.2 Place the front panel in position with the arrow on the upper end pointing toward the arrow on the top panel. Snap the front panel to the top panel. Fold the lower end of the front panel under the assembly and snap in place.

3-2.10.3 Pass the two long straps underneath the H-423 outside of the H-423 cross member and the tool box, and secure with the buckles on the opposite side.

3-2.10.4 As required, position the towbar on the front bolster of the H-423 and align the holes. Insert the two pins in the two holes.

3-2.11 SECURITY COVER STENCILING PROCEDURES. Using yellow stencil lacquer and characters approximately the same height as those present, stencil the following information on each side and each end of the security cover.

3-2.11.1 ALT NUMBER. Stencil the Alt number "155" to the right of the ALTS heading or, of other Alt numbers are present, apply Alt number "155" to the right of the last Alt number, and separate from the last number by a comma.

3-2.11.2 PACKAGE PART NUMBER. Stencil the appropriate rework part number specified in table VIII under the first digit on the extreme left of the package part number. If one or more rework part numbers are already present, apply the rework part number to the right of the existing rework part number(s) and separate from previous number(s) by a comma.

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Paragraph 3-2.11.3 to 3-3.2.4

3-2.11.3 MK-MOD-ALT PART NUMBER. Stencil the appropriate rework part number specified in table VIII under the first digit on the extreme left of the Mk-Mod-Alt part number. If one or more rework part numbers are already present, apply the rework part number to the right of the existing rework part number(s) and separate from previous number(s) by a comma.

3-2.11.4 DATE. Using olive drab enamel or lacquer, obliterate the existing date. Stencil the current month and year in place of the obliterated date.

### 3-3 ALTERATION PROCEDURES FOR MK 21 MOD 0 BOMB MAINTENANCE SPARES.

3-3.1 UNPACKAGING CONTAINERS BMS 1/12, MAINT 1 PKG 1/7; AND BMS 8/12, MAINT 2 PKG 1/5.

3-3.1.1 Remove the security seal from the container. Remove the bolt and nut securing the clamping ring to the container. Remove the clamping ring and cover.

3-3.1.2 Remove bound hair wadding and packages from the container as required to remove the swivel caster package (P/N 827871-01, 827397-01, 827873-01, or 827878-01) and the package containing two bolts (P/N 827941-00).

#### NOTE

If there is any doubt as to the acceptability or identification of a wrapped caster, unwrap it and inspect it in accordance with procedures in paragraph 3-2.4.1 and 3-2.4.2.

3-3.1.3 Check the part number on the package containing the caster. If the part number is 827871-01, the caster is unacceptable and must be removed from the wrapping. Rework unacceptable casters in accordance with procedures in paragraph 3-2.6.3. Rewrap the caster in (noncorrosive) creped wrapping paper and mark the parcel, in accordance with procedures in AEC-AFSWP TP 35-51.

3-3.1.4 Remove the two bolts from the package and inspect them for the presence of a stamped "C" or "X" on the top surface of the bolthead. Bolts stamped with the "C" or "X" are acceptable. Bolts not stamped with the "C" or "X" are not acceptable and must be replaced with bolts (P/N 827941-00) provided in the parts kit. Wrap the two bolts stamped "C" or "X" in (VCI treated) packaging paper or packaging envelope and mark the parcel in accordance with procedures in AEC-AFSWP TP 35-51.

3-3.2 REPACKAGING PROCEDURES.

3-3.2.1 MATERIAL REQUIRED. Packaging materials for the Mk 21 Mod 0 BMS are specified in table IX.

3-3.2.2 ITEMS TO BE PACKED. Inventory items to be packed against the current packing sheets. Associate current packing sheets with the container in accordance with procedures in AEC-AFSWP TP 35-51.

3-3.2.3 DETAIL PROCEDURES.

3-3.2.3.1 Repackage the items in containers BMS 1/12 and 8/12, using sufficient bound hair wadding to prevent excess movement.

3-3.2.3.2 Insert two 16-unit bags of desiccant and one humidity indicator card in each container. Close and seal each container in accordance with procedures in AEC-AFSWP TP 35-51.

3-3.2.4 MK 21 MOD 0 BMS STENCILING PROCEDURES. Using yellow stencil lacquer and 1/2-inch-high characters, stencil the following information on the containers specified.

#### NOTE

Markings appear in several locations on each container. Make revisions to the appropriate marking at each location.

3-3.2.4.1 PACKAGE PART NUMBER, CONTAINERS 1/12 and 8/12. Stencil rework part number "2" beneath the first digit on the extreme left of the package part number "340254-XX". If one or more rework part numbers are already present, apply rework part number "2" to the right of the existing rework number(s) and separate from previous number(s) by a comma.

#### NOTE

P/N (part number) stenciling is found on new production. S/N (stock number) stenciling is found on older items and is an acceptable alternate.

3-3.2.4.2 MK-MOD-ALT PART NUMBER, ALL BMS CONTAINERS. Stencil rework part number "1" beneath the first digit on the extreme left of the Mk Mod-Alt part number "300185-XX". If one or more rework part numbers are already present, apply rework part number "1" to the right of the existing rework number(s) and separate from previous number(s) by a comma.

3-3.2.4.3 ALT NUMBER, ALL BMS CONTAINERS. Stencil the Alt number "155" to the right of the ALT heading or, if other Alt numbers are present, apply Alt number "155" to the right of the last Alt number and separate from the last number by a comma.

3-3.2.4.4 DATE, ALL OPENED BMS CONTAINER. Using olive drab enamel or lacquer, obliterate the existing date. Stencil the current month and year in place of the obliterated date.

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TABLE IX

LIST OF PACKAGING MATERIAL FOR MK 21 MOD 0 BOMB MAINTENANCE SPARES\*

| DESCRIPTION  | QUANTITY      |
|--|---------------|
| AN Container, 19-Gallon (without humidity indicator)   | 4             |
| Drum, Metal, 55-Gallon   | 3             |
| Drum, Metal, 35-Gallon (without humidity indicator)  | 1             |
| Box, Style 2, Wooden, with quick-release latches, fabricated in accordance with procedures in AEC-AFSWP TP 35-51, size: 63 inches long by 32 inches wide by 9 inches high, inside dimension. | 2             |
| Desiccant, Activated (16-unit bag)   | 24            |
| Desiccant, Activated (8-unit bag)  | 2             |
| Desiccant, Activated (2-unit bag)  | 26            |
| Indicator, Humidity, Card (rectangular)  | 38**          |
| Indicator, Humidity, Card (round)  | 2***          |
| Envelope, Packaging (VCI) (5 L by 3 W)   | 150****       |
| Envelope, Packaging (VCI) (6 L by 4 W)   | 95****        |
| Envelope, Packaging (VCI) (9 L by 6 W)   | 15****        |
| Wadding, Bound Fiberglass  | 50 sq ft****  |
| Wadding, Bound Hair (1-inch thick)   | 150 sq ft**** |
| or   |               |
| Wadding, Bound Hair (2-inch thick)   | 150 sq ft**** |
| Paper, Packaging, (VCI treated)  | 100 sq ft**** |
| Barrier Material, Waterproofed, Flexible (VCI)   | 120 sq ft**** |
| Barrier Material, Paper, Noncorrosive (crepe)  | 80 sq ft****  |
| Tape, Pressure-Sensitive Adhesive (masking) (2-in. W)  | 100 sq ft**** |
| RSC style boxes, fabricated from 200 psi corrugated fiberboard, in accordance with procedures in AEC-AFSWP TP 35-51, size in inches (inside dimensions):                                     |               |
| 8 L by 6 W by 5 H  | 2             |
| 6-1/2 L by 5-1/2 W by 4-1/2 H  | 2             |
| 9 L by 6 W by 5 H  | 2             |
| 16 L by 16 W by 6 H  | 2             |
| 22 L by 10 W by 6 H  | 2             |
| 8 L by 6-1/2 W by 5-1/2 H  | 2             |

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Paragraph 3-4 to 3-4.1.4

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TABLE IX  
(continued)

| DESCRIPTION   | QUANTITY    |
|---|-------------|
| 15 L by 13-1/2 W by 4 H   | 2           |
| 40 L by 14 W by 7 H   | 2           |
| 62 L by 16 W by 5 H   | 2           |
| 10-1/2 L by 6 W by 4-1/2 H  | 12          |
| 18-1/2 L by 12-1/2 W by 36 H  | 1           |
| 8-1/2 L by 3-3/4 W by 3-3/4 H   | 1           |
| Sleeves, fabricated from barrier material, moisture-vaporproof, flexible, in accordance with procedures in AEC-AFSWP TP 35-51, size in inches:  |             |
| 22 W inside dimension by 53 long  | 2           |
| 23 W inside dimension by 74 long  | 2           |
| Paper, Greaseproof  | 2 sq ft**** |
| <p>*The listed materials are for original packaging. The complete list of material is given here to allow for replacement of materials not normally replaced during field repackaging, but which may be damaged during unpackaging, inspection, or other handling. Refer to AEC-AFSWP TP 35-51 for part numbers and unit of issue of packaging material and acceptable alternates.</p> <p>**If the window on the H-194 Container is rectangular, the quantity required is 40.</p> <p>**To be used only if the window on the H-194 Container is round.</p> <p>****Material amounts are approximate and should be adjusted with requirements. Use sufficient material, however, to insure adequate packaging.</p> |             |

### 3-4 ALTERATION PROCEDURES FOR MK 36 MOD 0 BOMB MAINTENANCE SPARES.

procedures in paragraph 3-2.4.1 and 3-2.4.2.

#### 3-4.1 UNPACKAGING BMS 1/8.

3-4.1.1 Remove the security seal from the container. Remove the bolt and nut securing the clamping ring to the container. Remove the clamping ring and cover.

3-4.1.2 Remove bound hair wadding and packages from the container as required to remove the swivel caster package (P/N 827871-01, 827397-01, 827873-01, or 827878-01) and the package containing two bolts (P/N 827941-00).

#### NOTE

If there is any doubt as to the acceptability or identification of a wrapped caster, unwrap it and inspect it in accordance with

3-4.1.3 Check the part number on the package containing the caster. If the part number is 827871-01, the caster is unacceptable and must be removed from the wrapping. Rework unacceptable casters in accordance with procedures in paragraph 3-2.6.3. Rewrap the caster in (noncorrosive) creped wrapping paper and mark the parcel, in accordance with procedures in AEC-AFSWP TP 35-51.

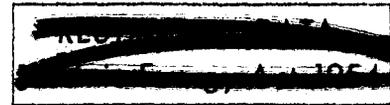
3-4.1.4 Remove the two bolts from the package and inspect them for the presence of a stamped "C" or "X" on the top surface of the bolthead. Bolts stamped with the "C" or "X" are acceptable. Bolts not stamped with the "C" or "X" are not acceptable and must be replaced with bolts (P/N 827941-00) provided in the parts kit. Wrap the two bolts stamped "C" or "X" in VCI treated packaging paper or packaging envelope and mark the parcel, in accordance with procedures in AEC-AFSWP TP 35-51.

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Paragraph 3-4.2 to 3-4.2.4

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3-4.2 REPACKAGING PROCEDURES.

3-4.2.1 MATERIAL REQUIRED. Packaging materials for the Mk 36 Mod 0 BMS are specified in table X.

3-4.2.2 ITEMS TO BE PACKED. Inventory items to be packed against the current packing sheets. Associate current packing sheets with the container in accordance with procedures in AEC-AFSWP TP 35-51.

3-4.2.3 DETAIL PROCEDURES.

3-4.2.3.1 Repackage the items in BMS 1/8, using sufficient bound hair wadding to prevent excess movement.

3-4.2.3.2 Insert two 16-unit bags of desiccant and one humidity indicator card in the container. Close and seal the container in accordance with procedures in AEC-AFSWP TP 35-51.

3-4.2.4 MK 36 MOD 0 BMS STENCILING PROCEDURES. Using yellow stencil lacquer and characters approximately 1/2 inch high, stencil the following information on the containers specified.

NOTE

Markings appear in several locations on each container. Make revisions to the appropriate marking at each location.

3-4.2.4.1 PACKAGE PART NUMBER, BMS 1/8. Stencil rework part number "1" beneath the first digit on the extreme left of the package part number. If one or more rework part numbers are already present, apply rework part number "1" to the right of the existing rework number(s) and separate from previous number(s) by a comma.

NOTE

P/N (part number) stenciling is found on new production. S/N (stock number) stenciling is found on older items and is an acceptable alternate.

3-4.2.4.2 MK-MOD-ALT PART NUMBER, ALL BMS CONTAINERS. Stencil rework part number "1" beneath the first digit on the extreme left of the Mk-Mod-Alt part number "300264-00". If one or more rework part numbers are already present, apply rework part number "1" to the right of the existing rework number(s) and separate from previous number(s) by a comma.

3-4.2.4.3 ALT NUMBER, ALL BMS CONTAINERS. Stencil the Alt number "155" to the right of the ALTS heading or, if other Alt numbers are present, apply Alt number "155" to the right of the last Alt number, and separate from the last number by a comma.

3-4.2.4.4 DATE, BMS 1/8. Using olive drab enamel or lacquer, obliterate the existing date. Stencil the current month and year in place of the obliterated date.

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 AUTHORITY: AEC-1954

TP B36-503

UNCLASSIFIED SECTION

TABLE X

## LIST OF PACKAGING MATERIAL FOR MK 36 MOD 0 BOMB MAINTENANCE SPARES\*

| DESCRIPTION  | QUANTITY |
|--|----------|
| AN Container, 167-cubic-inch (without humidity indicator)  | 1        |
| AN Container, 19-gallon (without humidity indicator)   | 2        |
| Drum, Metal, 55-Gallon   | 1        |
| Drum, Metal, 30-Gallon   | 1        |
| Drum, Metal, 35-Gallon   | 1        |
| Box, Style 2, Wooden, with quick-release latches, fabricated in accordance with procedures in AEC-AFSWP TP 35-51, size in inches (inside dimensions):        |          |
| 63 L by 32 W by 12 H   | 1        |
| 42 L by 35 W by 6 H  | 1        |
| Container, Style RSC, fabricated from 200-psi corrugated fiberboard in accordance with procedures in AEC-AFSWP TP 35-51, size in inches (inside dimensions): |          |
| 7-1/2 L by 6-1/2 W by 4 H  | 1        |
| 24 L by 8 W by 4 H   | 1        |
| 7 L by 4-1/4 W by 4 H  | 1        |
| 14 L by 10-1/2 W by 6 H  | 1        |
| 17 L by 8-3/4 W by 5-1/4 H   | 1        |
| 8 L by 6 W by 5 H  | 1        |
| 7-1/2 L by 5-1/2 W by 7 H  | 1        |
| 12 L by 10 W by 2-1/4 H  | 1        |
| 5 L by 2 W by 2 H  | 2        |
| 40 L by 14 W by 7 H  | 1        |
| 62 L by 16 W by 5 H  | 1        |
| 34 L by 11-1/2 W by 2 H  | 1        |
| 41 L by 34 W by 5 W  | 1        |
| 18-1/2 L by 12-1/2 W by 25 H   | 1        |
| 4 L by 4 W by 4 H  | 1        |

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Change 1

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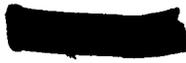
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TABLE X  
(continued)

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| DESCRIPTION   | QUANTITY     |
|---|--------------|
| Sleeves, fabricated from barrier material, moisture-vaporproof, flexible, in accordance with procedures in AEC-AFSWP TP 35-51, size in inches:  |              |
| 22 W inside dimension by 53 L   | 1            |
| 23 W inside dimension by 74 L   | 1            |
| 15 W inside dimension by 41 L   | 1            |
| 40 W inside dimension by 52 L   | 1            |
| 5 W inside dimension by 12 L  | 2            |
| Desiccant, Activated (4-unit bag)   | 1            |
| Desiccant, Activated (16-unit bag)  | 13           |
| Desiccant, Activated (2-unit bag)   | 14           |
| Desiccant, Activated (8-unit bag)   | 2            |
| Desiccant, Activated (1-unit bag)   | 2            |
| Indicator, Humidity, Card (rectangular)   | 22           |
| Bag, Plastic (5 L by 3 W)**   | 130***       |
| Bag, Plastic (6 L by 4 W)**   | 90 ***       |
| Bag, Plastic (9 L by 6 W)**   | 8 ***        |
| Wadding, Bound Hair (1 in. thick)<br>or<br>Wadding, Bound Hair (2 in. thick)  | 125 sq ft*** |
| Adhesive, Rubber (EC-226)   | As required  |
| Tape, Textile   | 2 ft***      |
| Paper, Wrapping, Tissue   | 1 sq ft***   |
| Barrier Material, Greaseproof, Flexible (grade A, heavy duty)   | 1 sq ft***   |
| Indicator, Humidity, Card (round)   | 1****        |
| Container, Style RSC, fabricated from 400-psi corrugated fiberboard in accordance with procedures in AEC-AFSWP TP 35-51.<br>Size: 5-3/4 inches long by 2-1/2 inches wide by 2-1/2 inches high, inside dimension | 2            |
| Paper, Packaging (VCI treated)  | 80 sq ft***  |
| Barrier Material, Waterproofed, Flexible (VCD)  | 109 sq ft*** |

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TABLE X  
(continued)

| DESCRIPTION   | QUANTITY    |
|---|-------------|
| Barrier Material, Paper, Noncorrosive (crepe)         | 60 sq ft*** |
| Tape, Pressure-Sensitive Adhesive (masking) (1 in. W) | 80 sq ft*** |
| Wadding, Bound Fiberglass                             | 40 sq ft*** |

\*The listed materials are for original packaging. The complete list of material is given here to allow for replacement of materials not normally replaced during field repackaging, but which may be damaged during unpackaging, inspection, or other handling. Refer to AEC-AFSWP TP 35-51 for part numbers, unit of issue of packaging material, and acceptable alternates.

\*\*Place a piece of packaging paper (VCI treated) in each plastic bag. The size of the packaging paper must be approximately one-half the surface area of one side of the bag. For example, a 4- by 6-inch bag must contain a piece of packaging paper approximately 2 by 6 inches, or 3 by 4 inches.

\*\*\*Material amounts are approximate and should be adjusted with requirements. Use sufficient material, however, to insure adequate packaging.

\*\*\*\*To be used only if the window of the H-194 is round.

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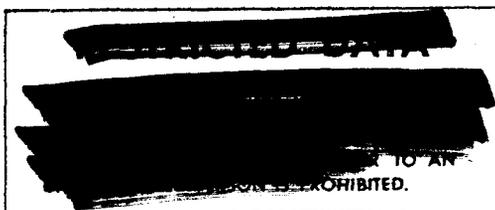
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TECHNICAL MANUAL

3427-1

# Special Weapons Retrofit Order

Alteration Order No. 155 to the:

- Mk 21 Mod 0, Mk 36 Mod 0, and Mk 36 Mod 1 War Reserve Bombs
- Mk 21 Mod 0 and Mk 36 Mod 1 Type 3 Training Bombs
- Mk 21 Mod 0 and Mk 36 Mod 0 Bomb Maintenance Spares

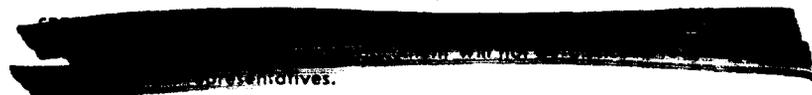
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AEC-AFSWP TP B36-503  
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## TECHNICAL MANUAL

# Special Weapons Retrofit Order

Alteration Order No. 155 to the:

- Mk 21 Mod 0, Mk 36 Mod 0, and Mk 36 Mod 1 War Reserve Bombs
- Mk 21 Mod 0 and Mk 36 Mod 1 Type 3 Training Bombs
- Mk 21 Mod 0 and Mk 36 Mod 0 Bomb Maintenance Spares

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Paragraph 3-2.6.3 to 3-2.9

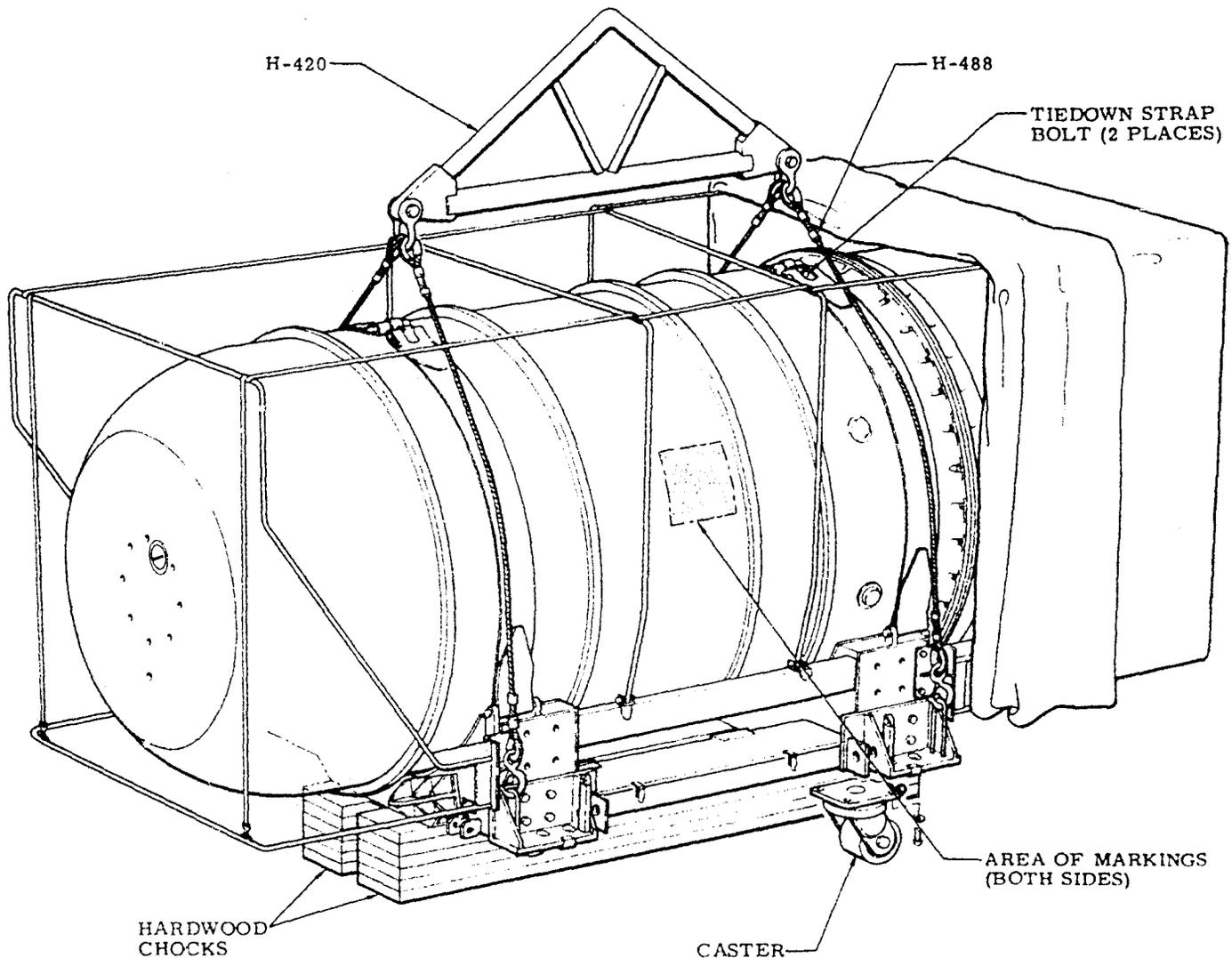


Figure 3-3 H-423 and Bomb Placed on Chocks

3-2.6.3.14 Obtain the 5/32 by 2-inch cotter pin (P/N 810498-00) and install it in accordance with procedures in AEC-AFSWP TP 40-54.

3-2.6.4 INSTALLATION OF ALTERED CASTERS. Position the caster on the H-423 (figure 3-3) and align the four bolt holes. Install the four bolts and lockwashers and tighten them securely.

#### 3-2.7 REMOVAL OF CHOCKS.

3-2.7.1 Hoist the bomb just enough to permit removal of the two chocks and remove the chocks from beneath the H-423.

3-2.7.2 Lower the bomb and H-423 to the floor. Unhook the four cable legs from the H-422 and move the H-488 and H-420 out of the way. If desired, remove the H-488 and H-420 from the overhead hoist.

#### 3-2.8 H-423 MARKING PROCEDURES.

3-2.8.1 Locate the H-423 part number "320055-XX" appearing in the vicinity shown in figure 3-3.

3-2.8.2 Using yellow stencil lacquer and 1/2-inch-high characters, stencil rework part number "4" beneath the first digit on the extreme left of the H-423 part number. If one or more rework part numbers are already present, apply rework part number "4" to the right of the existing rework number(s), and separate from previous number(s) by a comma.

3-2.9 BOMB STENCILING PROCEDURES. Using yellow stencil lacquer and characters approximately the same height as those present, stencil the following information on each side of the bomb in the vicinity shown in figure 3-3.

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TABLE VIII

## REWORK PART NUMBERS TO BE APPLIED UNDER PACKAGE AND MK-MOD-ALT PART NUMBERS

| BOMB TYPE                    | BASIC PACKAGE AND MK-MOD-ALT PART NO. | CORRESPONDING REWORK PART NO. TO BE APPLIED |
|------------------------------|---------------------------------------|---|
| Mk 21 Mod 0, War Reserve     | 300140-XX                             | 2   |
| Mk 21 Mod 0, Training Type 3 | 300171-XX                             | 3   |
| Mk 36 Mod 0, War Reserve     | 300267-XX                             | 1   |
| Mk 36 Mod 1, War Reserve     | 300269-XX                             | 1   |
| Mk 36 Mod 1, Training Type 3 | 300262-XX                             | 1   |

3-2.9.1 ALT NUMBER. Stencil the Alt number "155" to the right of the ALTS heading or, if other Alt numbers are present, apply Alt number "155" to the right of the last Alt number, and separate from the last number by a comma.

## NOTE

The package part number does not appear on some units, in which case, omit the procedures in paragraph 3-2.9.2.

3-2.9.2 PACKAGE PART NUMBER. Stencil the appropriate rework part number specified in table VIII under the first digit on the extreme left of the package part number. If one or more rework part numbers are already present, apply the rework part number to the right of the existing rework part number(s) and separate from previous number(s) by a comma.

3-2.9.3 MK-MOD-ALT PART NUMBER. Stencil the appropriate rework part number specified in table VIII under the first digit on the extreme left of the Mk-Mod-Alt part number. If one or more rework part numbers are already present, apply the rework part number to the right of the existing rework part number(s) and separate from previous number(s) by a comma.

## NOTE

The date does not appear on some units, in which case, omit the procedures in paragraph 3-2.9.4.

3-2.9.4 DATE. Using olive drab enamel or lacquer, obliterate the existing date. Stencil the current month and year in place of the obliterated date.

3-2.10 REPACKAGING.

3-2.10.1 Pull the front end of the top panel of the security cover forward so that the arrows are positioned approximately at the center of the framework.

3-2.10.2 Place the front panel in position with the arrow on the upper end pointing toward the arrow on the top panel. Snap the front panel to the top panel. Fold the lower end of the front panel under the assembly and snap in place.

3-2.10.3 Pass the two long straps underneath the H-423 outside of the H-423 cross member and the tool box, and secure with the buckles on the opposite side.

3-2.10.4 As required, position the towbar on the front bolster of the H-423 and align the holes. Insert the two pins in the two holes.

3-2.11 SECURITY COVER STENCILING PROCEDURES. Using yellow stencil lacquer and characters approximately the same height as those present, stencil the following information on each side and each end of the security cover.

3-2.11.1 ALT NUMBER. Stencil the Alt number "155" to the right of the ALTS heading or, if other Alt numbers are present, apply Alt number "155" to the right of the last Alt number, and separate from the last number by a comma.

3-2.11.2 PACKAGE PART NUMBER. Stencil the appropriate rework part number specified in table VIII under the first digit on the extreme left of the package part number. If one or more rework part numbers are already present, apply the rework part number to the right of the existing rework part number(s) and separate from previous number(s) by a comma.

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Paragraph 3-2.11.3 to 3-3.2.4

3-2.11.3 MK-MOD-ALT PART NUMBER. Stencil the appropriate rework part number specified in table VIII under the first digit on the extreme left of the Mk-Mod-Alt part number. If one or more rework part numbers are already present, apply the rework part number to the right of the existing rework part number(s) and separate from previous number(s) by a comma.

3-2.11.4 DATE. Using olive drab enamel or lacquer, obliterate the existing date. Stencil the current month and year in place of the obliterated date.

### 3-3 ALTERATION PROCEDURES FOR MK 21 MOD 0 BOMB MAINTENANCE SPARES.

3-3.1 UNPACKAGING CONTAINERS BMS 1/12, MAINT 1 PKG 1/7; AND BMS 8/12, MAINT 2 PKG 1/5.

3-3.1.1 Remove the security seal from the container. Remove the bolt and nut securing the clamping ring to the container. Remove the clamping ring and cover.

3-3.1.2 Remove bound hair wadding and packages from the container as required to remove the swivel caster package (P/N 827871-01, 827397-01, 827873-01, or 827878-01) and the package containing two bolts (P/N 827941-00).

3-3.1.3 Check the part number on the package containing the caster. If the part number is 827871-01, remove the caster from the wrapping and rework the caster in accordance with procedures in paragraph 3-2.6.3. Rewrap the caster in (noncorrosive) creped wrapping paper and mark the parcel, in accordance with procedures in AEC-AFSWP TP 35-51.

3-3.1.4 Remove the two bolts from the package and inspect them for the presence of a stamped "C" or "X" on the top surface of the bolthead. Bolts stamped with the "C" or "X" are acceptable. Bolts not stamped with the "C" or "X" are not acceptable and must be replaced with bolts (P/N 827941-00) provided in the parts kit. Wrap the two bolts stamped "C" or "X" in (VCI treated) packaging paper or packaging envelope and mark the parcel in accordance with procedures in AEC-AFSWP TP 35-51.

### 3-3.2 REPACKAGING PROCEDURES.

3-3.2.1 MATERIAL REQUIRED. Packaging materials for the Mk 21 Mod 0 BMS are specified in table IX.

3-3.2.2 ITEMS TO BE PACKED. Inventory items to be packed against the current packing sheets. Associate current packing sheets with the container in accordance with procedures in AEC-AFSWP TP 35-51.

### 3-3.2.3 DETAIL PROCEDURES.

3-3.2.3.1 Repackage the items in containers BMS 1/12 and 8/12, using sufficient bound hair wadding to prevent excess movement.

3-3.2.3.2 Insert two 16-unit bags of desiccant and one humidity indicator card in each container. Close and seal each container in accordance with procedures in AEC-AFSWP TP 35-51.

3-3.2.4 MK 21 MOD 0 BMS STENCILING PROCEDURES. Using yellow stencil lacquer and 1/2-inch-high characters, stencil the following information on the containers specified.

#### NOTE

Markings appear in several locations on each container. Make revisions to the appropriate marking at each location.

3-3.2.4.1 PACKAGE PART NUMBER, CONTAINERS 1/12 and 8/12. Stencil rework part number "2" beneath the first digit on the extreme left of the package part number "340254-XX". If one or more rework part numbers are already present, apply rework part number "2" to the right of the existing rework number(s) and separate from previous number(s) by a comma.

#### NOTE

P/N (part number) stenciling is found on new production. S/N (stock number) stenciling is found on older items and is an acceptable alternate.

3-3.2.4.2 MK-MOD-ALT PART NUMBER, ALL BMS CONTAINERS. Stencil rework part number "1" beneath the first digit on the extreme left of the Mk-Mod-Alt part number "300185-XX". If one or more rework part numbers are already present, apply rework part number "1" to the right of the existing rework number(s) and separate from previous number(s) by a comma.

3-3.2.4.3 ALT NUMBER, ALL BMS CONTAINERS. Stencil the Alt number "155" to the right of the ALT heading or, if other Alt numbers are present, apply Alt number "155" to the right of the last Alt number and separate from the last number by a comma.

3-3.2.4.4 DATE, ALL BMS CONTAINERS. Using olive drab enamel or lacquer, obliterate the existing date. Stencil the current month and year in place of the obliterated date.

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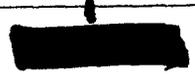


TABLE IX

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LIST OF PACKAGING MATERIAL FOR MK 21 MOD 0 BOMB MAINTENANCE SPARES\*

| DESCRIPTION  | QUANTITY      |
|--|---------------|
| AN Container, 19-Gallon (without humidity indicator)   | 4             |
| Drum, Metal, 55-Gallon   | 3             |
| Drum, Metal, 35-Gallon (without humidity indicator)  | 1             |
| Box, Style 2, Wooden, with quick-release latches, fabricated in accordance with procedures in AEC-AFSWP TP 35-51, size: 63 inches long by 32 inches wide by 9 inches high, inside dimension. | 2             |
| Desiccant, Activated (16-unit bag)   | 24            |
| Desiccant, Activated (8-unit bag)  | 2             |
| Desiccant, Activated (2-unit bag)  | 26            |
| Indicator, Humidity, Card (rectangular)  | 38**          |
| Indicator, Humidity, Card (round)  | 2***          |
| Envelope, Packaging (VCI) (5 L by 3 W)   | 150****       |
| Envelope, Packaging (VCI) (6 L by 4 W)   | 95****        |
| Envelope, Packaging (VCI) (9 L by 6 W)   | 15****        |
| Wadding, Bound Fiberglass  | 50 sq ft****  |
| Wadding, Bound Hair (1-inch thick)   | 150 sq ft**** |
| or   |               |
| Wadding, Bound Hair (2-inch thick)   | 150 sq ft**** |
| Paper, Packaging, (VCI treated)  | 100 sq ft**** |
| Barrier Material, Waterproofed, Flexible (VCI)   | 120 sq ft**** |
| Barrier Material, Paper, Noncorrosive (crepe)  | 80 sq ft****  |
| Tape, Pressure-Sensitive Adhesive (masking) (2-in. W)  | 100 sq ft**** |
| RSC style boxes, fabricated from 200 psi corrugated fiberboard, in accordance with procedures in AEC-AFSWP TP 35-51, size in inches (inside dimensions):                                     |               |
| 8 L by 6 W by 5 H  | 2             |
| 6-1/2 L by 5-1/2 W by 4-1/2 H  | 2             |
| 9 L by 6 W by 5 H  | 2             |
| 16 L by 16 W by 5 H  | 2             |
| 22 L by 10 W by 6 H  | 2             |
| 8 L by 5-1/2 W by 5-1/2 H  | 2             |



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Paragraph 3-4 to 3-4.1.4

TABLE IX  
(continued)

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| DESCRIPTION   | QUANTITY    |
|---|-------------|
| 15 L by 13-1/2 W by 4 H   | 2           |
| 40 L by 14 W by 7 H   | 2           |
| 62 L by 16 W by 5 H   | 2           |
| 10-1/2 L by 6 W by 4-1/2 H  | 12          |
| 18-1/2 L by 12-1/2 W by 36 H  | 1           |
| 8-1/2 L by 3-3/4 W by 3-3/4 H   | 1           |
| Sleeves, fabricated from barrier material, moisture-vaporproof, flexible, in accordance with procedures in AEC-AFSWP TP 35-51, size in inches:  |             |
| 22 W inside dimension by 53 long  | 2           |
| 23 W inside dimension by 74 long  | 2           |
| Paper, Greaseproof  | 2 sq ft**** |
| <p>†The listed materials are for original packaging. The complete list of material is given here to allow for replacement of materials not normally replaced during field repackaging, but which may be damaged during unpackaging, inspection, or other handling. Refer to AEC-AFSWP TP 35-51 for part numbers and unit of issue of packaging material and acceptable alternates.</p> <p>**If the window on the H-194 Container is rectangular, the quantity required is 40.</p> <p>**To be used only if the window on the H-194 Container is round.</p> <p>****Material amounts are approximate and should be adjusted with requirements. Use sufficient material, however, to insure adequate packaging.</p> |             |

### 3-4 ALTERATION PROCEDURES FOR MK 36 MOD 0 BOMB MAINTENANCE SPARES.

3-4.1 UNPACKAGING CONTAINERS BMS 1/11, MAINT 1 PKG 1/8; AND BMS 9/11, MAINT 2 PKG 1/3.

3-4.1.1 Remove the security seal from the container. Remove the bolt and nut securing the clamping ring to the container. Remove the clamping ring and cover.

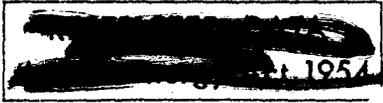
3-4.1.2 Remove round hair wadding and packages from the container as required to remove the swivel caster package (P/N 827871-01, 827397-01, 827873-01, or 827878-01) and the package containing two bolts (P/N 827941-00).

3-4.1.3 Check the part number on the package containing the caster. If the part number is 827871-01, remove the caster from the wrapping and rework the caster in accordance with procedures in paragraph 3-2.6.3. Rewrap the caster in (noncorrosive) creped wrapping paper and mark the parcel, in accordance with procedures in AEC-AFSWP TP 35-51.

3-4.1.4 Remove the two bolts from the package and inspect them for the presence of a stamped "C" or "X" on the top surface of the bolthead. Bolts stamped with the "C" or "X" are acceptable. Bolts not stamped with the "C" or "X" are not acceptable and must be replaced with bolts (P/N 827941-00) provided in the parts kit. Wrap the two bolts stamped "C" or "X" in (VCI treated) packaging paper or packaging envelope and mark the parcel, in accordance with procedures in AEC-AFSWP TP 35-51.

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Paragraph 3-4.2 to 3-4.2.4

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3-4.2 REPACKAGING PROCEDURES.

3-4.2.1 MATERIAL REQUIRED. Packaging materials for the Mk 36 Mod 0 BMS are specified in table X.

3-4.2.2 ITEMS TO BE PACKED. Inventory items to be packed against the current packing sheets. Associate current packing sheets with the container in accordance with procedures in AEC-AFSWP TP 35-51.

3-4.2.3 DETAIL PROCEDURES.

3-4.2.3.1 Repackage the items in containers BMS 1/11 and 9/11, using sufficient bound hair wadding to prevent excess movement.

3-4.2.3.2 Insert two 16-unit bags of desiccant and one humidity indicator card in each container. Close and seal each container in accordance with procedures in AEC-AFSWP TP 35-51.

3-4.2.4. MK 36 MOD 0 BMS STENCILING PROCEDURES. Using yellow stencil lacquer and characters approximately 1/2 inch high, stencil the following information on the containers specified.

NOTE

Markings appear in several locations on each container. Make revisions to the appropriate marking at each location.

3-4.2.4.1 PACKAGE PART NUMBER, CONTAINERS 1/11 AND 9/11. Stencil rework part number "1" beneath the first digit on the extreme left of the package part number. If one or more rework part numbers are already present, apply rework part number "1" to the right of the existing rework number(s) and separate from previous number(s) by a comma.

NOTE

P/N (part number) stenciling is found on new production. S/N (stock number) stenciling is found on older items and is an acceptable alternate.

3-4.2.4.2 MK-MOD-ALT PART NUMBER, ALL BMS CONTAINERS. Stencil rework part number "1" beneath the first digit on the extreme left of the Mk-Mod-Alt part number "300264-00". If one or more rework part numbers are already present, apply rework part number "1" to the right of the existing rework number(s) and separate from previous number(s) by a comma.

3-4.2.4.3 ALT NUMBER, ALL BMS CONTAINERS. Stencil the Alt number "155" to the right of the ALTS heading or, if other Alt numbers are present, apply Alt number "155" to the right of the last Alt number, and separate from the last number by a comma.

3-4.2.4.4 DATE, ALL BMS CONTAINERS. Using olive drab enamel or lacquer, obliterate the existing date. Stencil the current month and year in place of the obliterated date.

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UNCLASSIFIED SECTION 3

TABLE X

## LIST OF PACKAGING MATERIAL FOR MK 36 MOD 0 BOMB MAINTENANCE SPARES\*

| DESCRIPTION   | QUANTITY |
|---|----------|
| AN Container, 167-cubic-inch (without humidity indicator)   | 1        |
| AN Container, 19-gallon (without humidity indicator)  | 3        |
| Drum, Metal, 55-Gallon  | 1        |
| Drum, Metal, 30-Gallon  | 1        |
| Drum, Metal, 35-Gallon  | 1        |
| Drum, Metal, 27.5-Gallon  | 1        |
| Box, Style 2, Wooden, with quick-release latches, fabricated in accordance with procedures in AEC-AFSWP TP 35-51, size in inches (inside dimensions):   |          |
| 63 L by 32 W by 12 H  | 2        |
| 42 L by 35 W by 6 H   | 1        |
| RSC Style Boxes, fabricated from 200 psi corrugated fiberboard in accordance with procedures in AEC-AFSWP TP 35-51, size in inches (inside dimensions): |          |
| 7-1/2 L by 6-1/2 W by 4 H   | 2        |
| 24 L by 8 W by 4 H  | 1        |
| 7 L by 4-1/4 W by 4 H   | 2        |
| 14 L by 10-1/2 W by 6 H   | 2        |
| 17 L by 8-3/4 W by 5-1/4 H  | 2        |
| 8 L by 6 W by 5 H   | 2        |
| 7-1/2 L by 5-1/2 W by 7 H   | 2        |
| 12 L by 10 W by 2-1/4 H   | 2        |
| 5 L by 2 W by 2 H   | 4        |
| 40 L by 14 W by 7 H   | 2        |
| 62 L by 16 W by 5 H   | 2        |
| 34 L by 11-1/2 W by 2 H   | 1        |
| 41 L by 34 W by 5 W   | 1        |
| 18-1/2 L by 12-1/2 W by 26 H  | 1        |
| 4 L by 4 W by 4 H   | 2        |

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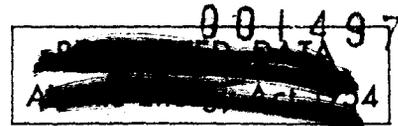


TABLE X  
(continued)

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| DESCRIPTION  | QUANTITY                     |
|--|------------------------------|
| Sleeves, fabricated from barrier material, moisture-vaporproof, flexible, in accordance with procedures in AEC-AFSWP TP 35-51, size in inches:   |                              |
| 22 W inside dimension by 53 L  | 2                            |
| 23 W inside dimension by 74 L  | 2                            |
| 15 W inside dimension by 41 L  | 2                            |
| 40 W inside dimension by 52 L  | 1                            |
| 5 W inside dimension by 12 L   | 4                            |
| Desiccant, Activated (4-unit bag)  | 2                            |
| Desiccant, Activated (16-unit bag)   | 16                           |
| Desiccant, Activated (2-unit bag)  | 15                           |
| Desiccant, Activated (8-unit bag)  | 4                            |
| Desiccant, Activated (1-unit bag)  | 4                            |
| Indicator, Humidity, Card (rectangular)  | 31                           |
| Bag, Plastic (5 L by 3 W)**  | 150***                       |
| Bag, Plastic (6 L by 4 W)**  | 95***                        |
| Bag, Plastic (9 L by 6 W)**  | 15***                        |
| Wadding, Bound Hair (1 in. thick)<br>or<br>Wadding, Bound Hair (2 in. thick)   | 150 sq ft***<br>150 sq ft*** |
| Adhesive, Rubber (EC-226)  | As required                  |
| Tape, Textile  | 4 ft***                      |
| Paper, Wrapping, Tissue  | 1 sq ft***                   |
| Barrier Material, Greaseproof, Flexible (grade A, heavy duty)  | 1 sq ft***                   |
| Indicator, Humidity, Card (round)  | 1****                        |
| Style RSC, Box, fabricated from 400-psi solid fiberboard, in accordance with procedures in AEC-AFSWP TP 35-51.<br>Size: 5-3/4 inches long by 2-1/2 inches wide by<br>2-1/2 inches high, inside dimension | 4                            |
| Paper, Packaging (VCI treated)   | 100 sq ft***                 |
| Barrier Material, Waterproofed, Flexible (VCI)   | 120 sq ft***                 |

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SECTION 3

TABLE X  
 (continued)

| DESCRIPTION   | QUANTITY     |
|---|--------------|
| Barrier Material, Paper, Noncorrosive (crepe)   | 80 sq ft***  |
| Tape, Pressure-Sensitive Adhesive (masking) (1 in. W)   | 100 sq ft*** |
| Wadding, Bound Fiberglass   | 50 sq ft***  |
| <p>*The listed materials are for original packaging. The complete list of material is given here to allow for replacement of materials not normally replaced during field repackaging, but which may be damaged during unpackaging, inspection, or other handling. Refer to AEC-AFSWP TP 35-51 for part numbers, unit of issue of packaging material, and acceptable alternates.</p> <p>**Place a piece of packaging paper (VCI treated) in each plastic bag. The size of the packaging paper must be approximately one-half the surface area of one side of the bag. For example, a 4- by 6-inch bag must contain a piece of packaging paper approximately 2 by 6 inches, or 3 by 4 inches.</p> <p>***Material amounts are approximate and should be adjusted with requirements. Use sufficient material, however, to insure adequate packaging.</p> <p>****To be used only if the window of the H-194 is round.</p> |              |

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