# HAND RECEIPT COVERING CONTENTS OF COMPONENTS OF END ITEM (COEI), BASIC ISSUE ITEMS (BII), AND ADDITIONAL AUTHORIZATION LIST (AAL)

#### **FOR**

# IMPROVED FLOAT BRIDGE (RIBBON BRIDGE)

#### **CONSISTING OF**

#### TRANSPORTER

| MODEL CONDEC 2280   | NSN 5420-00-071-5321 |
|---------------------|----------------------|
| MODEL CONDEC 2305   | NSN 5420-01-173-2020 |
| MODEL PACAR 9999    | NSN 5420-01-173-6523 |
| MODEL SOUTHWEST RBT | NSN 5420-01-175-6524 |

#### INTERIOR BAY

| MODEL CONDEC 2282 | NSN 5420-00-071-5322 |
|-------------------|----------------------|
| MODEL SPACE 66981 | NSN 5420-00-175-6526 |
| MODEL CONDEC 2306 | NSN 5420-00-174-8084 |

#### **RAMP BAY**

| MODEL CONDEC 2281 | NSN 5420-00-497-5276 |
|-------------------|----------------------|
| MODEL CONDEC 2307 | NSN 5420-00-173-2022 |
| MODEL SPACE 6698R | NSN 5420-00-173-6525 |

Approved for public release; distribution is unlimited.

\*This manual supersedes TM 5-5420-209-12-HR, dated 24 July 1981.

HEADQUARTERS, DEPARTMENT OF THE ARMY
9 January 1992

TECHNICAL MANUAL TM 5-5420-209-10-HR

# HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D.C., 9 January 1992

#### HAND RECEIPT

COVERING CONTENTS OF COMPONENTS OF END ITEM (COEI),
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| MODEL CONDEC 2282 | NSN 5420 | 0-00-071-5322 |
|-------------------|----------|---------------|
| MODEL SPACE 66981 | NSN 5420 | 0-00-175-6526 |
| MODEL CONDEC 2306 | NSN 5420 | 0-00-174-8084 |

#### **RAMP BAY**

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|--------------------------|-----|------------------|
| <b>MODEL CONDEC 2307</b> | NSN | 5420-00-173-2022 |
| MODEL SPACE 6698R        | NSN | 5420-00-173-6525 |

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#### REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, U.S. Army Troop Support Command, ATTN: AMSTR-MMTS, St. Louis, MO 63120-1798. A reply will be furnished directly to you.

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<sup>\*</sup>This manual Supersedes TM 5-5420-209-12-HR, dated 24 July 1981.

#### SECTION I. INTRODUCTION

**1. SCOPE.** This publication providee an overprinted DA Form 2062 (Hand Receipt) which lists the contents of Components of End Item (COEI), Basic Issue Items (BII), and Additional Authorization (AAL) items related to the Improved Float Bridge (Ribbon Bridge).

#### 2. GENERAL

- a. Section II is the over printed DA Form 2062 which lists the line item entry for systen/end item and the content of COEI, BII, and AAL extracted from TM 5-5420-209-12. The listings consist of exactly the same items and are in the same sequence as those listings in TM 5-5420-209-12.
- b. The overprinted DA Form 2062 will eliminate manual preparation of the form and will assist organizations in inventorying and accounting for property as required by AR 710-2.
- c. Local reproduction of the overprinted DAForm 2062 is authorized. However, organizations will comply with local policies in the reproduction of DA Form 2062 by office copying equipment, field printing plant, or duplicating plant facilities.
- d. Additional copies maybe requisitioned from the U.S. Army Publications Distribution Center, 2800 Eastern Boulevard, Baltimore, MD 21220-2896, in accordance with Chapter 12, AR 25-30.
- **3. EXPLANATION OF BLOCKS AND COLUMNS (DA FORM 2062).** Refer to DA Pam 710-2-1, Chapter 6, for additional information required to complete DA Form 2062.
  - a. From. Enter the organization, unit, section or squad which issues the property.
- b. TO. Enter the Unit Identifier Code (UIC) and the hand receipt file number of the unit/persomel receiving the property.
- c. HAND RECEIPT NUMBER. Enter a locally designated number. Use it to post the location of property in the property book.
- d. END ITEM STOCK NUMBER. Contains the National Stock Number (NSN) of the end item covered by the hand receipt.
  - e. END ITEM DESCRIPTION. Contains the end item short title.
- f. PUBLICATION NUMBER. Contains the TM number of the technical manual containing the operator/crew instructions for the equipment.
  - g. PUBLICATION DATE. Date of the operator/crew technical manual.
  - h.Quantity. Quantity of the end item covered by this hand receipt.
- i. STOCK NUMBER (column a). National stock number of the item described. Items without stock numbers should be requisitioned by Commercial and Government Entity Code (CAGEC) and part number with exception data in accordance with AR 710-2.
- j. ITEM DESCRIPTION (column b). Enter a description of the end item, to include the make or model, and the serial/USA number, followed by item description of COEI, BII, and AAL items. In addition, it will contain the 5-digit Commercial and Government Entity Code (CAGEC), Part Number (P/N), and Used on Code," if applicable.
- k.  $*(column\ c)$ . The accounting requirements code (ARC) is provided here. One of the following ARC's will apply:

#### **NOTE**

The Accounting Requirements Code (ARC) refers to property accountability, not the Recoverability Code (RC). The ARC and the RC are listed in the Army Master Data File (AMDF).

N—Nonexpendable: Items not consumed in use, retaining their identity during use, and requiring that accountabilty be maintained throughout

the life of the item.

**D-Durable:** Nonconsumable components of sets, kits, outfits, and

assemblages; all tools in FSC's 5110,5120, 5130, 5133, 5136, 5140, 5180, 5210, 5220, and 5280; and any other nonconsumable with a price in excess of \$50.00 not already

"N".

Items regardless of type classification or price and which X—Expendable:

are consumed in use. Includes all class 9 repair parts. Items not consumed in use which cost \$50.00 or lees and not

already "N" or "D".

1. SEC (column d). The Contxolled Inventory Item Code (formerlySEC code) is entered here. This is a oneposition code which indicates the security classification, security risks, or pilferage controls required for storage or transportation of assets. Order of precedence for assignment of codes is classified, sensitive, pilferable, unclassfied, as applicable. Codes applicable to this hand receipt areas follows:

> CONTROLLED INVENTORY ITEM CODE SEC CODE

U UNCLASSIFIED PILFERABLE ITEMS

M Handtools and shop equipment

J Pilferable item due at its size, shape and utility, which does not fall under one of the above categories. Pilferage controls maybe designated by the coding activity to items coded U (unclassified) by recording the items to J

m. UI (column e). Unit of Issue. Refer to AR 708-1 and/or CDA Pam 18-1 (Catalog Data Activity) for explanation of abbreviations used in this column.

- n. QTY AUTH (column f). The quantity authorized to be on hand, or part of the end item.
- o. QUANTITY (column g). Actual quantity on hand. Subcolumn.s A through F are to be filled in by the receiving unit/personnel in accordance with DA Pam 710-2-1, chapter 6.
- p. PAGE 1 0F 3 PAGES. Contains page number and total number of pages for the COEI, BII, and AAL portions of the hand receipt. Hand receipt holder will initial each page No. (only when two or more forms are involved). When hand receipt holders change, the old initials will be lined out and the new hand receipt holder will initial each page.

#### 4. AUTHORIZATION DOCUMENTS.

a. Componente of End Item (COEI) are authorized by the applicable Repair Parts and Special Tools List (RPSTL).

- b. Basic Issue Items (BII) are authorized by the applicable operator's manual.
- c. Additional Authorization List (AAL) itims are authorized by appropriate MTOE, TDA, CTA or JTA authorization  ${\tt documents}$ .
- 5. **SPECIAL INFORMATION.** Items coded (.) indicate information is not available.

| * | WHEN USED | AC | Α. |
|---|-----------|----|----|
|   |           |    |    |

HAND RECEIPT, enter Hand Receipt Annex Number

HAND RECEIPT FOR QUARTERS FURNITURE, enter Condition Codes

HAND RECEIPT ANNEX/COMPONENTS RECEIPT, enter Accounting Requirements Code (ARC).

HAND RECEIPT NUMBER

| STOCK NUMBER      | ITEM DESCRIPTION                                             | *   | SEC      | UI | QTY<br>AUTH | g QUANTITY |   |          |   |   |   |  |  |
|-------------------|--------------------------------------------------------------|-----|----------|----|-------------|------------|---|----------|---|---|---|--|--|
| <i>a</i> .        | Ь                                                            | (   | d        | ľ  | /           | A          | В | С        | D | E | F |  |  |
|                   | BII CONTINUED                                                |     |          |    |             |            |   |          |   |   |   |  |  |
|                   |                                                              |     |          |    |             |            |   |          |   |   |   |  |  |
| 5120-00-277-1236  | Wrench, Open End GGG-W-636 (81348) UOC: BWH, CYJ, DBE,       | (D) |          |    | 1           |            |   |          |   |   |   |  |  |
|                   | DTN, Stored in Vehicle OVE Box                               |     |          |    |             |            |   |          |   |   |   |  |  |
| 5420-01-045-1770  | Pin, Latch Assembly 13218E4360 (97403) UOC: BWJ, BWK, CYH,   | (E) |          |    | 1           |            |   |          |   |   |   |  |  |
|                   | CYG, DBF, DBG, Stored in Vehicle OVE Box                     |     |          |    |             |            |   |          |   |   |   |  |  |
| 4020-00-968-1357  | Rope, Fibrous, Nylon MIL-R-17343 (81349) UOC: BWH, BWJ,      | (E) |          |    | 1           |            |   |          |   |   |   |  |  |
|                   | BWK, CYH, CYG, CYJ, DBE, DBF, DBG, DTN, Stored in OVE Box    |     |          |    |             |            |   |          |   |   |   |  |  |
| 4020-00-106-9361  | Rope, Fibrous, Manila MIL-R-24059 (81349) UOC: BWH, BWJ,     | (E) |          |    | 1           |            |   |          |   |   |   |  |  |
|                   | BWK, CYH, CYG, CYJ, DBE, DBF, DBG, DTN, Stored in Vehicle    |     |          |    |             |            |   |          |   |   |   |  |  |
|                   | OVE Box                                                      |     |          |    |             |            |   |          |   |   |   |  |  |
| 7510-00-889-3494  | Binder, Looseleaf MIL-B-43064 (19207)                        | (E) |          |    | 1           |            |   |          |   |   |   |  |  |
| TM5-5420-209-12   | Technical Manual, Operator and Unit Maintenance, Improved    | (E) |          |    | 1           |            |   |          |   |   |   |  |  |
|                   | Float Bridge (Ribbon Bridge)                                 |     |          |    |             |            |   |          |   |   |   |  |  |
| TM5-2090-200-12&P | Technical Manual, Operator and Unit Maintenance, Cradle,     | (E) |          |    | 1           |            |   |          |   |   |   |  |  |
|                   | Bridge Erection Boat                                         |     |          |    |             |            |   |          |   |   |   |  |  |
| TM9-2320-260-10   | Technical Manual, Operator, Truck, 5 Ton, 6 X 6, M809 Series | (E) |          |    | 1           |            |   |          |   |   |   |  |  |
| TM9-2320-272-10   | Technical Manual, Operator and Unit Maintenance Truck,       | (E) |          |    | 1           |            |   |          |   |   |   |  |  |
|                   | 5 Ton, 6 X 6, M939 Series                                    |     |          |    |             |            |   |          |   |   |   |  |  |
|                   |                                                              |     | <u> </u> |    |             |            |   |          |   |   |   |  |  |
|                   |                                                              |     |          |    |             |            |   | <u> </u> |   |   |   |  |  |

| HAND RECEIPT/ANNEX NUMBER For use of this form, see DA PAM 710-2-1. The proponent agency is ODCSLOG. |                                                                                                      |                                                                | FROM:                                      |              | TO:       |          |     |               |                  |     |          | HAI    | ND RECE | IPT NUI | MBER |  |
|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------|--------------|-----------|----------|-----|---------------|------------------|-----|----------|--------|---------|---------|------|--|
| FOR<br>ANNEX/CR<br>ONLY                                                                              | OR END ITEM STOCK NUMBER END ITEM DESCRIPTION PUBLICATION NUMBER PUBLICATION NUMBER TM 5-5420-209-12 |                                                                |                                            |              |           |          |     |               | ication<br>May 1 | _   | QUANTITY |        |         |         |      |  |
|                                                                                                      | STOCK NUMBER                                                                                         |                                                                | ITEM DESCRIPTION                           |              |           | *        | SEC | UI            | QTY<br>AUTH      | g   |          | ITMAUC | ΤΥ      |         |      |  |
|                                                                                                      | <i>a</i> .                                                                                           |                                                                | <i>b</i>                                   |              |           | C.       | d.  | е.            | f.               | _ ^ | В        | С      | D       | E       | F    |  |
|                                                                                                      |                                                                                                      |                                                                | ADDITIONAL AUTHORIZATION I                 | LIST (AAL)   |           | <u> </u> |     |               | ļ                |     |          |        |         |         | L    |  |
| 4                                                                                                    | 1930-00-288-1511                                                                                     | Adapt                                                          | ter, Grease Gun, MIL-L-4387, Type 4, Clas  | s 2 (81349)  | UOC:      | (D)      |     |               | 1                |     |          |        |         |         |      |  |
|                                                                                                      |                                                                                                      | BW                                                             | YH, BWK, BWJ, CYH, CYG, CYJ, DBE, D        | BF, DBG, D   | OTN,      |          |     |               |                  |     |          |        |         |         |      |  |
|                                                                                                      |                                                                                                      | Sto                                                            | red in Vehicle OVE Box                     |              |           |          |     |               |                  |     |          |        |         |         |      |  |
| •                                                                                                    | 1930-00-253-2478                                                                                     | Greas                                                          | se Gun, Type 1, MIL-G-3859 (81349) UOC     | BWH, BW      | K, BWJ,   | (D)      |     | <del></del> - | 1                |     |          |        |         |         |      |  |
|                                                                                                      |                                                                                                      | CYH, CYG, CYJ, DBE, DBF, DBG, DTN, Stored in OVE Box           |                                            |              |           |          |     |               |                  |     |          |        |         |         |      |  |
|                                                                                                      | 5140-00-772-4142                                                                                     | Bag, Tool, Cotton Duck, 10 X 20 in. with Flap, 2-3-170 (81337) |                                            |              |           | (E)      |     |               | 1                |     |          |        |         |         |      |  |
|                                                                                                      |                                                                                                      | UOC: BWH, CYJ, DBE, DTN, Stored in Vehicle OVE Box             |                                            |              |           |          |     |               |                  |     |          |        |         |         |      |  |
|                                                                                                      | 5120-00-316-9217                                                                                     | Wrench, Wheel Stud Nut, Str Dbl Socket, Type 2, Size 1, No. 2  |                                            |              | . 2       | (D)      |     |               | 1                |     |          |        |         |         |      |  |
|                                                                                                      |                                                                                                      | Length, MIL-W-43105 (81349) UOC: BWH, CYJ, DBE, DTN,           |                                            |              |           |          |     |               |                  |     |          |        |         |         |      |  |
|                                                                                                      |                                                                                                      | Sto                                                            | red in Vehicle OVE Box                     |              |           |          |     |               |                  |     |          |        |         |         |      |  |
|                                                                                                      | 5120-00-223-7398                                                                                     | Pliers                                                         | , Combination, Slip-Joint, Straight Nose w | Cutter, 10 i | nch Long, | (D)      |     |               | 1                |     |          |        |         |         |      |  |
|                                                                                                      |                                                                                                      | MS                                                             | 15382-2 (96906) UOC: BWH, CYJ, DBE, DT     | N, Stored in | Tool Bag  |          |     |               |                  |     |          |        |         |         |      |  |
|                                                                                                      | 5120-00-222-8852                                                                                     | Screw                                                          | driver, Flat Tip, Hvy Duty, Plastic Hdl, ¼ | inch Tip,    |           | (D)      |     |               | 1                |     |          |        |         |         |      |  |
|                                                                                                      |                                                                                                      | 4 in                                                           | nch Bld, 7 ¾ inch Long, MS15219-1 (96906   | UOC: BW      | H, CYJ,   |          |     |               |                  |     |          |        |         |         |      |  |
|                                                                                                      |                                                                                                      | DB                                                             | E, DTN, Stored in Tool Bag                 |              |           |          |     |               |                  |     |          |        |         |         |      |  |

\* WHEN USED AS A:

HAND RECEIPT, enter Hand Receipt Annex Number

HAND RECEIPT FOR QUARTERS FURNITURE, enter Condition Codes

HAND RECEIPT ANNEX/COMPONENTS RECEIPT, enter Accounting Requirements Code (ARC).

PAGE 3 OF 4 PAGES.

| STOCK NUMBER     | ITEM DESCRIPTION                                                  | *        | SEC      |    | UI<br>e. | QTY<br>AUTH | A . | В        | QUANTI | Г        | E | 1 |
|------------------|-------------------------------------------------------------------|----------|----------|----|----------|-------------|-----|----------|--------|----------|---|---|
| а                | h.                                                                | С.       | u.       | -  | +        | <u> </u>    |     | -        | ٦      |          | - |   |
|                  | AAL CONTINUED                                                     |          |          |    | -        | _           |     |          | -      | <u> </u> | _ |   |
|                  |                                                                   |          |          |    |          |             |     |          |        |          | _ |   |
| 5120-00-227-7338 | Screwdriver, Ft, Hvy Dty, Steel Hdl, W/Wood Insr, Sq Bld, 1/2     | (D)      |          | i. | 1        |             |     |          |        |          |   |   |
|                  | inch Wd Tip 5 inch Bld, 9 ½ inch Lg, MS15220-5 (96906)            |          |          |    |          |             |     |          |        |          |   |   |
|                  | UOC: BWH. CYJ, DBE, DTN, Stored in Tool Bag                       |          |          |    |          |             |     |          |        |          |   |   |
| 5120-00-234-8912 | Screwdriver, Cross Tip, Phillips #3, Plastic Hdl, 6 inch Blade,   | (D)      |          |    | 1        |             |     |          |        |          |   |   |
|                  | 10 1/8 inch Long MS15224-6 (96906) UOC: BWH, CYJ, DBE,            |          |          |    |          |             |     |          |        |          |   |   |
|                  | DTN, Stored in Tool Bag                                           |          |          |    |          |             |     |          |        |          |   |   |
| 5120-00-449-8083 | Wrench, Adjustable, Open End, Hvy Duty, 9 1/2 to 10 1/2 inch LOA. | (D)      |          |    | 1        |             |     |          |        |          |   |   |
|                  | Type 1, Class 1, GGG-W-631 (81348) UOC: BWH, CYJ, DBE, DT         | I,       |          |    |          |             |     |          |        |          |   |   |
|                  | Stored in Tool Bag                                                |          |          |    |          |             |     |          |        |          |   |   |
| 5315-00-782-1019 | Wrench, (Key), Drain Plug, Str Bar, ½ inch Sq. 2 ½ inch LG        | (D)      |          |    | ı        |             |     |          |        |          |   |   |
|                  | MS52066-543 (96906) UOC: BWH, CYJ, DBE, DTN. Stored in            |          |          |    |          |             |     |          |        |          |   |   |
|                  | Tool Bag                                                          |          |          |    |          |             |     |          |        |          |   |   |
| 5120-00-224-4047 | Hammer, Hand, Machinist's Ball-Peen, 2 Lb, Type 2, Class 1.       | (D)      |          |    | 1        |             |     |          |        |          |   |   |
|                  | Style A, GGG-H-86 (81348) UOC: BWH, CYJ, DBE, DTN, Stored         |          |          |    |          |             |     |          |        |          |   |   |
|                  | in Tool Bag                                                       |          |          |    |          |             |     |          |        |          |   |   |
|                  |                                                                   |          |          |    |          |             |     |          |        |          | • |   |
|                  |                                                                   |          |          |    |          |             |     |          |        |          |   |   |
|                  |                                                                   |          |          |    |          |             |     |          |        |          | • |   |
|                  |                                                                   | <b>†</b> | <b>†</b> |    |          |             |     | <b> </b> | 1      |          |   |   |

By Order of the Secretary of the Army:

GORDON R. SULLIVAN

General, United States Army Chief of Staff

Official: Metter A. Samellar

MILTON H. HAMILTON

Administrative Assistant to the Secretary of the Army

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FROM. (PRINT YOUR UNIT'S COMPLETE ADDRESS) PFC JOHN DOE COA 3 & ENGINEER BN FT. LEGNERDWOOD, MA L DATE SENT

PUBLICATION NUMBER

TEAR ALONG PERFORATED LINE

PUBLICATION DATE Q January 1992 PUBLICATION TITLE

| TM 5.      | -5420-2        | 209-10-  | HR    | 9 January 1992   Improved Float Bridge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------|----------------|----------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BE EXAC    |                | OINT WHE |       | IN THIS SPACE TELL WHAT IS WRONG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| PAGE<br>NO | PARA-<br>GRAPH | FIGURE   | TABLE | AND WHAT SHOULD BE DONE ABOUT IT:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4          | 1-1            |          |       | In line 6 g paragraph 2-10 The                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|            | a              |          |       | The second of the second for                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|            |                |          |       | manual states the engine has                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|            |                |          |       | 6 Cylenders. The engine on my                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|            |                |          |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|            |                |          |       | set only has 4 Cylinders.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|            |                |          | ł     | clarge the manual to show L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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|            |                | •        |       | Cylinder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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|            | ŀ              | ., ,     | •     | Callant 16 on figure 4-3 is<br>pointing at a bolt. In key                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| BI         | 1              | 4-3      |       | to kelt in key                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| 1          |                |          |       | to figure 4-3, item 16 is celled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| /25        |                |          | ]     | 19 on figure B-16 ky NSN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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#### The Metric System and Equivalents

#### Linear Measure

1 centimeter = 10 millimeters = .39 inch 1 decimeter = 10 centimeters = 3.94 inches 1 meter = 10 decimeters = 39.37 inches 1 dekameter = 10 meters = 32.8 feet 1 hectometer = 10 dekameters = 328.08 feet 1 kilometer = 10 hectometers = 3,280.8 feet

#### Weights

1 centigram = 10 milligrams = .15 grain 1 decigram = 10 centigrams = 1.54 grains 1 gram = 10 decigram = .035 ounce 1 dekagram = 10 grams = .35 ounce 1 hectogram = 10 dekagrams = 3.52 ounces 1 kilogram = 10 hectograms = 2.2 pounds 1 quintal = 100 kilograms = 220.46 pounds 1 metric ton = 10 quintals = 1.1 short tons

#### Liquid Measure

1 centiliter = 10 milliters = .34 fl. ounce 1 deciliter = 10 centiliters = 3.38 fl. ounces 1 liter = 10 deciliters = 33.81 fl. ounces 1 dekaliter = 10 liters = 2.64 gallons 1 hectoliter = 10 dekaliters = 26.42 gallons 1 kiloliter = 10 hectoliters = 264.18 gallons

#### Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile -

#### Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

### **Approximate Conversion Factors**

| To change     | To                 | Multiply by    | To change          | To            | Multiply by |
|---------------|--------------------|----------------|--------------------|---------------|-------------|
| inches        | centimeters        | 2.540          | ounce-inches       | newton-meters | .007062     |
| feet          | meters             | .305           | centimeters        | inches        | .394        |
| yards         | meters             | .914           | meters             | feet          | 3.280       |
| miles         | kilometers         | 1.609          | meters             | yards         | 1.094       |
| square inches | square centimeters | 6.451          | kilometers         | miles         | .621        |
| square feet   | square meters      | .093           | square centimeters | square inches | .155        |
| square yards  | square meters      | .836           | square meters      | square feet   | 10.764      |
| square miles  | square kilometers  | 2.590          | square meters      | square yards  | 1.196       |
| acres         | square hectometers | .405           | square kilometers  | square miles  | .386        |
| cubic feet    | cubic meters       | .028           | square hectometers | acres         | 2.471       |
| cubic yards   | cubic meters       | .765           | cubic meters       | cubic feet    | 35.315      |
| fluid ounces  | milliliters        | <b>29</b> ,573 | cubic meters       | cubic yards   | 1.308       |
| pints         | liters             | .473           | milliliters        | fluid ounces  | .034        |
| quarts        | liters             | .946           | liters             | pints         | 2.113       |
| gallons       | liters             | 3.785          | liters             | quarts        | 1.057       |
| ounces        | grams              | 28.349         | liters             | gallons       | .264        |
| pounds        | kilograms          | .454           | grams              | ounces        | .035        |
| short tons    | metric tons        | .907           | kilograms          | pounds        | 2.205       |
| pound-feet    | newton-meters      | 1.356          | metric tons        | short tons    | 1.102       |
| pound-inches  | newton-meters      | .11296         |                    |               |             |

### Temperature (Exact)

| ۰F | Fahrenheit  | 5/9 (after      | Celsius     | °C |
|----|-------------|-----------------|-------------|----|
|    | temperature | subtracting 32) | temperature |    |

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