DEPARTMENT OF THE ARMY TECHNICAL MANUAL

Organizational Field and Depot Maintenance Repair Parts and Special Tool List

BEAM, HOISTING, LIQUID GAS TANK, M1
(FSN 1730-368-6195)

Headquarters, Department of the Army, Washington 25, D.C.
27 March 1963

SECTION I
INTRODUCTION

1. Purpose and Scope

This manual provides a repair parts list for Beam, Hoisting, Liquid Gas Tank, M1. It is to be used by maintenance and supply personnel as a requisitioning reference document. It contains parts authorized to all echelons of maintenance.

Appropriate allowance factors to be used in computing allowance quantities are included.

2. Explanation of Columns

a. Index Number. A number is assigned to each repair part to facilitate indexing and referencing.

b. S, M, R, Code. Source, Maintenance, and Recoverability Codes are assigned in accordance with AR 700-18 as follows:

(1) *Source.* The source code consists of a number which identifies the technical service having supply responsibility for the repair part, and a code symbol which indicates the source from which the repair part may be obtained.

(*a*) Technical services having supply responsibility are identified by the following numbers which constitute the first element of the source code:

3----------Chemical Corps
9----------Ordnance Corps

(b) Code symbol indicating the source of repair parts in the second element of the source code, and is-

Code "P1"--Repair parts which are low mortality parts; procured by technical services, stocked only in and supplied from technical service key depots, and authorized for installation at indicated maintenance echelons.

(2) *Maintenance Code*. The maintenance code consists of a single letter denoting the lowest echelon of maintenance authorized to install or manufacture the repair part--as follows:

O--Organizational Maintenance (1st and 2d echelon)

c. F*ederal Stock Number.* Federal stock numbers are assigned by the Federal Cataloging Pro-

***This manual supersedes TM-3-662-15P, 26 July 1957.**

gram and are to be used in accordance with AR 708-15.

d. Description. The approved Federal item name appears in upper case (capital) letters. Modifiers necessary for proper identification appear in lower case (small) letters.

e. Unit of Issue. The unit of issue for each item listed is indicated in this column.

f. Expendability. The symbol NX indicates that an item is nonexpendable. When no symbol appears, the item is expendable.

g. Quantity per Unit. Quantities listed in this column represent the actual quantity of the repair part used in the group, section, assembly, or subassembly indicated. If a repair part has more than one application, the quantity per unit becomes the total quantity per equipment and is indicated only in the initial appearance of the part. This column remains blank in all subsequent appearances of the repair part. Unless otherwise indicated, the unit of measure applicable to the quantity per unit is the same as the unit of issue.

h. Allowances.

(1) The quantitative allowances for second echelon maintenance represent one prescribed load for a 15-day period for the number of major items supported. Authorized quantities must be on hand or on order at all times.

(2) Major commanders will determine the number of prescribed loads that second echelon units and organizations will carry. Units and organizations authorized additional prescribed loads will multiply the number of equipments supported by the number-of prescribed loads and then use the appropriate equipment density column to obtain the stockage level.

Example:

Number of equipments supported = 30

Number of prescribed loads = $\frac{X3}{90}$

Equipment density 51-100 = X2

Authorized quantity =180

(3) To compute an authorized quantity for third and fourth echelon, multiply the number of equipments supported by the allowance factor and divide this product by 100. The result, rounded to the nearest whole number, is the authorized quantity.

Example:

(*a*) Quantity of equipment supported = 50
Allowance factor = 1.7 per 100
Authorized quantity = $\frac{50 \text{ X } 1.7}{100}$ = .85
This quantity is greater than 0.5 and less than 1.0; therefore, the authorized quantity is 1.

(b) Quantity of equipment supported = 103
Allowance factor = 4.1 per 100
Authorized quantity = $\frac{103 \text{ X } 4.1}{100}$
= 4.223
The decimal portion is less than 0.5; therefore, the authorized quantity is 4.

(5) Allowance numbers in the fifth echelon column represent quantities recommended for the overhaul of 100 major components and/or end items.

(6) An asterisk appearing in an allowance column indicates that the item may be requisitioned for immediate usage by the echelon indicated,. but stockage of the item by that echelon is not initially authorized.

(7) The allowance quantities for a repair part with more than one application are indicated only in the initial appearance of the part.

i. Illustrations. This column contains the figure number of each illustration and the item number of that illustration for indicated repair parts.

3. Abbreviations

The abbreviations used herein are defined as follows:

cad..... cadmium
dia..... diameter
dim..... dimensional
ea ..... each
h ..... high/height
in..... inch(es)
lg..... long/length
min..... minimum
NC ..... American National Course Thread
nom ..... nominal
NX..... nonexpendable
o/a ..... over-all
pltd..... plated

thd .....thread
thk.....thick(ness)
UNC.....Unified National Coarse Thread
w.....wide/width

4. Suggestions and Recommendations

a. Notice of discrepancies and/or suggested changes are requested and encouraged. They should be forwarded through command channels on DA Form 2028 to the Commanding Officer, U.S. Army Chemical-Biological-Radiological Engineering Group, Army Chemical Center, Maryland, ATTN: SMUCE-EDM-1.

b. Suggestions and recommendations for changes to repair parts allocations and allowance factors should include the following minimum data for each repair part concerned:

(1) Stock number.
(2) Nomenclature.
(3) End item in ;which the part is incorporated.
(4) Number of demands in 90 days.
(5) Number of end items supported.
(6) Recommended action and brief justification.

SECTIONAL II. FUCTIONAL PARTS LIST

Index No.	S, M, R code: Technical service No.	S, M, R code: Source	S, M, R code: Maintenance level	S, M, R code: per 100 Recoverability	Federal stock No.	Description	Unit of Issue	Expendability	Quantity per unit	15-day allowances per equipment density: 2d echelon: 1-20	15-day allowances per equipment density: 2d echelon: 21-50	15-day allowances per equipment density: 2d echelon: 50-100	15-day maintenance allowance equipments: 3rd echelon	15-day maintenance allowance equipments: 4th echelon	Depot maintenance guide per 100 equipments: 5th echelon	Illustration: Figure No.	Illustration: Item No.
1						BEAM, HOISTING, LIQUID GAS TANK, M1.	ea.	NX								1	
						REPAIR PARTS GROUP											
2	3	P1	O		1730-399-7083	ADAPTER, HOISTING, AIRCRAFT, bolted plate type o/a dim, 71/2 in. w, 9 in. h.	ea.		1		*	*	*	*	*	2	7
3	3	P1	O		1730-368-6312	HOOK, HOIST	ea.		2		*	*	*	*	*	2	9
4	9	P1	O		5310-022-0088	NUT, PLAIN, 'HEXAGON, steel, cad. or zinc pltd, 1 in.-8 UNC, 1 1/2 in. w, 55/64 in. thk.	ea.		2		*	*	*	*	*	2	13
5	9	P1	O		5610-022-0087	NUT, PLAIN, HEXAGON; steel cad. or zinc finish, H in.-9 UNC-2B.	ea.		4		*	*	*	*	*	2	2
6	3	P1	O		5310-655-7424	NUT, PLAIN, HEXAGON, steel, ea cad. or zinc finish, 5/8 in.-11 UNC-2B.			4		*	*	*	*	*	2	12
7	9	P1	O		5315-010-3407	PIN, COTTER, steel, plain finish, 3/6 in., 1 in.	ea.		4		*	*	*	*	*	2	1
8	3	P1	O		5315-275-8224	PIN, STRAIGHT, HEADLESS, steel, 21/2 in. lg o/a, 5/8 in. nom dia. both ends chamfered, both ends drilled.	ea.		2		*	*	*	*	*	2	11
9	3	P1	O		5305-988-5350	SCREW, CAP HEXAGON HEAD, carbon steel, cad. or zinc finish, 1 in.-8 UNC-2A, 3 in.	ea.		2		*	*	*	*	*	2	5
10	9	P1	O		5305-042-8697	SCREW, CAP, HEXAGON HEAD, carbon steel, cad. or zinc finish, S in.-11 UNC-2A, 2% in.	ea.		4	*	*	*	*	*	*	2	4
11	3	P1	O		5340-368-6255	SPACER SLEEVE, steel	ea.		4		*	*	*	*	*	2	6
12	3	P1	O		5307-261-2649	STUD, SHOULDERED, steel 7/8 in.-9 UNC or NC. class 2A thd or class 2 fit, 1 1/8 in. min lg full thd, 3 7/8 in. nom lg.	ea.		2		*	*	*	*	*	2	10
13	3	P1	O		5310-809-8540	WASHER, FLAT, ROUND, steel, cad. pltd w/chromate, nom bolt size 15/16 in.	ea.		4		*	*	*	*	*	2	3
						SPECIAL TOOLS GROUP											
						None authorized.											

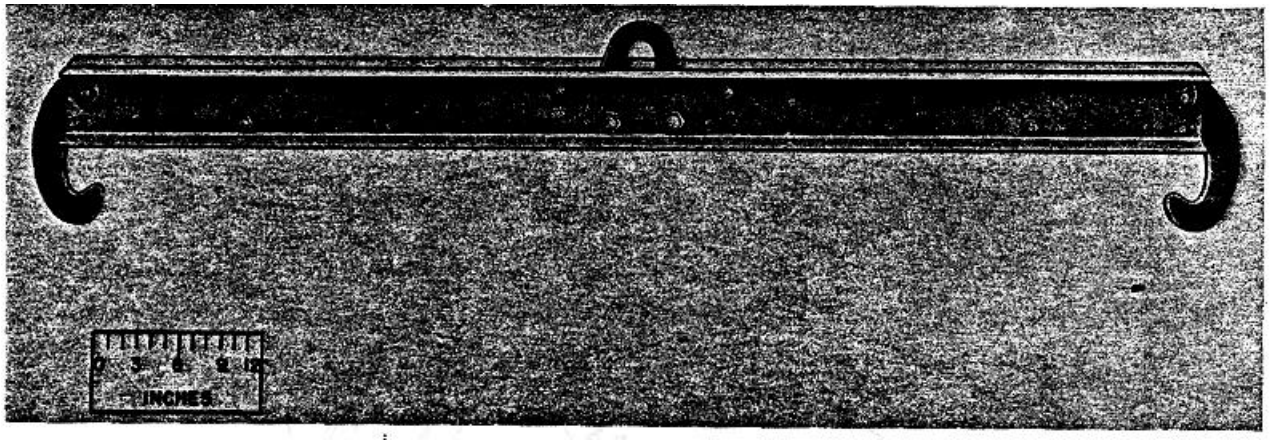

Figure 1. Beam, hoisting, liquid gas tank M1.

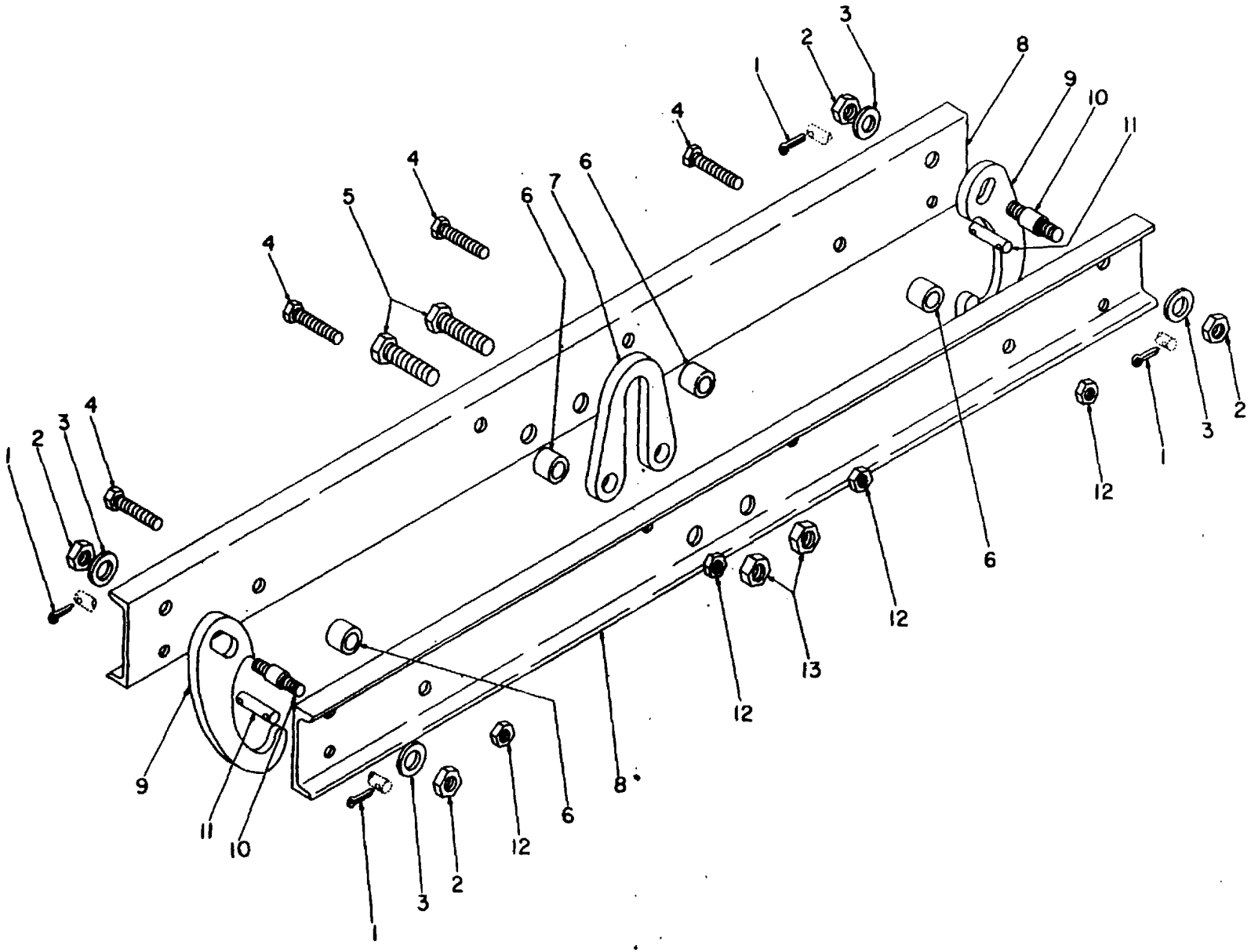

Figure 2. Beam repair parts.

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Dep. (OS) (5)
Army Dep. (5)
USA CBR Agcy (5)
USA CBR Engr Gp (15)
USA Trans Tml Comd (1)
Army Tml (1)
POE (1)
USAOSA (2)
Arsenals (3)
Cml Proc Dist (3)
PG (1)
Units org under fol TOE (3 cy ea.)
3-32
3-36.
3-47
3-67
3-117
3-500 (Tin AA-AC)

NG: State AG (3); units-,same as Active Army.
USAR: None.
For explanation of abbreviations used see AR 320-50.

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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 decagram = 10 grams = .35 ounce
1 hectogram = 10 decagrams = 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	29,573	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)

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

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