

MIL-STD-295 (NOrd)
30 October 1956

MILITARY STANDARD

BILLS OF MATERIALS

PREPARATION OF



MIL-STD-295 (NOrd)
30 October 1956

DEPARTMENT OF THE NAVY
BUREAU OF ORDNANCE
WASHINGTON 25, D.C.

Bills of Materials, preparation of
MIL - STD - 295 (NOrd)

1. This standard has been approved by the Bureau of Ordnance and is published to cover the procedures for the preparation of bills of materials on a product, assembly or sub-assembly produced or manufactured for the Bureau of Ordnance.
2. Recommended corrections, additions or deletions should be addressed to Chief, Bureau of Ordnance, Department of the Navy, Washington 25, D.C.

MIL-STD-295 (NOrd)
30 October 1956

CONTENTS

1. Scope
2. Referenced Documents
3. Definitions
4. General Requirements
 - 4.1 Bureau of the Budget Approval
 - 4.2 Prime Contractor Requests on Subcontractor
 - 4.3 Class A Products
 - 4.4 Class B Products
 - 4.5 Detail Bill of Materials
 - 4.6 Modified Bill of Materials
 - 4.7 Expanded Summary Bill of Materials
 - 4.8 Abbreviated Summary Bill of Materials
 - 4.9 General Instructions
 - 4.10 DD Forms 346 and 347
 - 4.11 Packaging Materials
 - 4.12 Surface Coating Materials
 - 4.13 Weight Guides
 - 4.14 Class B Products
 - 4.15 Contents of a Bill of Materials
 - 4.16 Variations and Revisions
 - 4.17 Weights
 - 4.18 Estimates
5. Detail Instructions
 - 5.1 Use of DD Form 346
 - 5.2 Heading Data on DD Form 346
 - 5.3 Column Data on DD Form 346
 - 5.4 Use of DD Form 347
 - 5.5 Heading Data on DD Form 347
 - 5.6 Column Data on DD Form 347

LIST OF FIGURES

1. Assembly Breakdown
2. Detail Bill of Materials
3. Modified Bill of Materials
4. Expanded Summary Bill of Materials
5. Abbreviated Summary Bill of Materials
6. Packing and Packaging Bill of Materials
7. Subcontracted Parts Bill of Materials
8. Purchased Parts Bill of Materials
9. Government-furnished Property Bill of Materials
10. Prime-Contractor Produced Class B Products Bill of Materials

MIL-STD-295 (NOrd)
30 October 1956

Section I

SCOPE

Bills of Materials permit the Bureau of Ordnance to assist the Department of the Navy and the appropriate civilian agencies in forecasting realistic and accurate material requirements for both current and mobilization planning purposes, and thereby aid in fulfillment of the defense mission.

MIL-STD-295 (NOrd)
30 October 1956

Section 2

REFERENCED DOCUMENTS

This publication prescribes general policies, criteria, and detailed instructions for compiling this data. As illustrated herein, bills of materials are prepared on:

- (1) DD Form 346 (Raw (Basic Processed) and Semi-Fabricated Stock Form).
- (2) DD Form 347 (Bill of Materials for Sub-contracted Parts, Purchased Parts, or Government-furnished Property).

MIL-STD-295 (NOrd)
30 October 1956

Section 3

DEFINITIONS

BILL OF MATERIALS. A statement of the amount of material required for the production or manufacture of a product, assembly or sub-assembly.

CLASS A PRODUCTS OR ITEMS. Those products or items containing controlled materials and not listed in the current official Class B product list. Class A products of the Department of Defense are usually specially designed military end items, specialized components, or parts of either Class A or B products.

CLASS B PRODUCTS OR ITEMS. Those products or items listed in the current official Class B products list. They are normally civilian-type "shelf" items and common components.

CONTROLLED MATERIALS. Steel, copper, aluminum and nickel alloys in the forms and shapes listed in Defense Materials System (DMS) Regulations.

COMPONENT LEAD TIME. The interval expressed in months between the date of shipment of the Government-furnished property, prime-contractor produced Class B product, purchased parts or sub-contracted parts and the date of completion of the procurement item.

DELIVERY DATE. The date when the procurement item is accepted by the Bureau of Ordnance.

MATERIAL CODE NUMBER. The code number assigned by the Department of Defense to basic and/or semiprocessed material. This code is shown in Department of Defense Code List of Materials.

MATERIAL LEAD TIME. The time interval expressed in months between the date of shipment of the materials from the supplier or mill and the date of completion of manufacture of the procurement item.

MATERIAL SPECIFICATION. A material specification symbol or commercial designation conforming to a type such as Federal, MIL, JAN, AMS, ASTM, SAE, AISI, etc., with class, grade or type classification indicated where applicable.

OTHER MATERIALS. Materials other than controlled materials listed in Department of Defense Coded List of Materials.

PROCUREMENT ITEM. The complete end item, equipment or component supplied by the prime contractor under the contract number or purchase order shown.

MIL-STD-295 (NOrd)
30 October 1956

PURCHASED PARTS. For the purpose of preparing Bureau of Ordnance bills of materials, these are finished parts, assemblies and equipments used as component parts of a procurement item which are purchased from a commercial source by the prime contractor or his sub-contractors. These parts include parts produced to satisfy recognized and established industry standards with no proprietary right, or which are widely used in industry but supplied by a specialized manufacturer who retains the proprietary right or certain components normally purchased by the prime contractor from recognized sources which, for the most part, constitute an industry within itself. These parts should include all Class B items of production defined by the current official Class B product list.

SUBCONTRACTOR. The designation of a producer or supplier of assemblies or parts supplemental to the production of a product or procurement item on a prime contract. In general, provision of such items is through the contractual relation between the prime contractor and the subcontractor.

SUBCONTRACTED PARTS. Those parts and assemblies which, for the purpose of preparing bills of materials, are produced by a manufacturer other than the prime contractor in accordance with designs, specifications or directions of the prime contractor. Parts designed especially for the procurement item and supplied by a subcontractor are considered "subcontracted parts" and should include all Class A items of production not produced by prime contractors.

MIL-STD-295 (NOrd)
30 October 1956

Section 4

GENERAL REQUIREMENTS

4.1 BUREAU OF THE BUDGET APPROVAL

DD Forms 346 and 347 have been approved for bills of materials by the Bureau of the Budget pursuant to the Federal Reports Act of 1942. BOB Number 22-R033.1 applies.

4.2 PRIME CONTRACTOR REQUESTS ON SUBCONTRACTOR

Prime contractors should limit their data requests on their subcontractors to the detail required by the Bureau of Ordnance. This limitation does not affect the normal flow of information between prime contractors and subcontractors.

4.3 CLASS A PRODUCTS

When a bill of materials for an "A" product is procured, materials necessary to fabricate "B" products shall not be included. Whether or not any bill of materials calls for a listing of parts, the materials requirements will not include the material necessary to make "B" products.

4.4 CLASS B PRODUCTS

Bills of materials for "B" products shall be purchased only from the manufacturers of those "B" products and shall exclude material data on parts purchased by the manufacturer. Materials data on purchased parts shall be procured only from the manufacturer of such parts.

4.5 DETAIL BILL OF MATERIALS

A Detail Bill of Materials lists on Department of Defense Form 346 all materials required for each individual part of the end item actually fabricated by the prime contractor or its subcontractors. Name of material, form, size and description, specification and quantity of each material and lead time are furnished (separate listings being made of materials for each part). A listing of all subcontracted, purchased and Government-furnished parts is provided on Department of Defense Form 347. The Bureau may specify that certain standard parts or minor subassemblies not be listed.

MIL-STD-295. (NOrd)
30 October 1956

4.6 MODIFIED BILL OF MATERIALS

A Modified Bill of Materials lists all materials required for each significant part and for consolidations of insignificant parts, or an end item, actually fabricated by the prime contractor or its subcontractors. Name of part or consolidations, materials, form, size, description, specification, lead time, quantities and a listing of significant subcontracted, purchased and Government-furnished parts are provided.

4.7 EXPANDED SUMMARY BILL OF MATERIALS

The Expanded Summary Bill of Materials is a listing of the total quantities of each material required for parts actually fabricated by the prime contractor or its subcontractors. In addition, this bill shall list all the purchased, subcontracted or Government-furnished parts. Name of material, form, size and description, quantity, specification and lead time for each material are furnished, but shall not be broken down by parts. In some cases the Bureau of Ordnance may specify that materials for parts be reported individually.

4.8 ABBREVIATED SUMMARY BILL OF MATERIALS

The Abbreviated Summary Bill of Materials summarizes the total gross quantities of each material (exclusive of purchased parts) required for fabrication by the prime contractor or its subcontractors. Only name, form, lead time and quantity of material are normally required. Other materials data are given only if specifically requested by the Bureau of Ordnance. The Bureau may specify the materials to be reported or may limit reporting to controlled materials only. Materials are not broken down by parts, and a parts listing is not provided.

4.9 GENERAL INSTRUCTIONS

A properly prepared bill of materials from a given manufacturer represents an accurate picture of the total quantitative requirements necessary for the production of a procurement item. In order for a bill of materials to be of the utmost value, it is necessary that the following generalized and, further, more detailed instructions be adhered to as closely as possible.

4.10 DD FORMS 346 AND 347

DD Forms 346 and 347 are available at the local Naval Inspector's Office. Bills of Materials may be prepared on machine tabulations. If so prepared, the necessary information as outlined in the succeeding instructions must be included. DD Forms 346 and 347 may be reproduced by contractors using heading blocks similar to those on the forms, and including all applicable columns.

MIL-STD-295 (NOrd)
30 October 1956

4.11 PACKAGING MATERIALS

Use DD Form 346. Include the quantity of each material required for packaging and packing of one complete procurement item or one normal shipping unit. When the normal shipping unit contains more or less than one procurement item, the number or fraction of items contained shall be stated on the first line of the form. Packaging and packing materials shall be properly identified by name and applicable Governmental specification numbers or commercial standards. If no packaging is used, a notation to this effect shall be included. Materials requirements for packaging and packing should be listed on a separate DD Form 346.

4.12 SURFACE COATING MATERIALS

Materials required for coating, galvanizing, plating, etc., which are reflected as a part or content of the product, will not be listed as such. Application of the materials, however, will be clearly indicated by reference to the listing of the item to which the process applies. Use DD Form 346, filling in heading data suitable for identification. Show quantity of each coating material required for one complete procurement item, or show quantity in such form as to be reducible to one basic unit over a specific production quantity. Identify coating materials by name and applicable specification number. Coating materials may be estimated on shop usage. The processing materials used in the production of the item, but not incorporated in the item, such as cutting oils, washing and degrease solutions, etc., will not be included.

4.13 WEIGHT GUIDES

The following should be used as a guide toward indicating weight; decimal points will be aligned vertically:

<u>Weight (Lb.)</u>	<u>No. of decimal places</u>
0 - .999	3
1 - 9.99	2
10 - 99.9	1
100 - and over	0

4.14 CLASS B PRODUCTS

For the purpose of preparing bills of materials, class B product determination is made on the basis of information listed in the current class B product list, unless otherwise instructed by the Bureau.

MIL-STD-295 (NOrd)
30 October 1956

4.15 CONTENTS OF A BILL OF MATERIALS

Each of the following will constitute a section of a bill of materials. The Bureau will specify those sections that are to be prepared, which will constitute a complete or partial bill of materials.

a. Detail bill of materials arranged numerically by Department of Defense code and then numerically by part number within each Department of Defense code (On DD Form 346).

b. Modified bill of materials arranged numerically by Department of Defense code and then numerically by part number within each Department of Defense code (on DD Form 346) for each significant part. Insignificant parts should be grouped together at the end of each Department of Defense code.

c. Expanded summary bill of materials arranged numerically by Department of Defense code (on DD Form 346).

d. Abbreviated summary bill of materials arranged numerically by Department of Defense code (on DD Form 346).

e. List of subcontracted class A parts (on DD Form 347).

f. List of purchased parts (Class B products) (on DD Form 347).

g. List of Government-furnished property (on DD Form 347).

h. List of prime-contractor produced Class B products (on DD Form 347).

It should be noted that paragraphs e, f, g and h of this section are always to be included with the applicable type of bill of materials, a, b, c or d.

4.16 VARIATIONS AND REVISIONS

Abnormal variation, temporary substitution, or experimental material requirements shall not be reflected in bills of materials. Periodic reviews of the scrap and rejection allowance shall be made and the resulting changes included in the gross weights in the revisions submitted.

4.17 WEIGHTS

If the weight of castings is reported, this weight shall be less any material known to be recycled, as the same alloy in the form of foundry returns (gates, risers, scrapped castings, etc.). For reporting forgings, indicate the billet weight, not the weight of the finished forging. For reporting extrusions, indicate the weight of raw stock used, not the finished extrusion weight.

4.18 ESTIMATES

The contractor may estimate the gross weight of materials when it is extremely difficult to obtain actual weights. Such estimates shall be identified by appending the letter "E" to the weights.

MIL-STD-295 (NOrd)
30 October 1956

Section 5

DETAIL INSTRUCTIONS

5.1 USE OF DD FORMS 346

DD Form 346 (figs. 1-6) will be used in preparing detail, modified, expanded summary, and abbreviated summary bills of materials. Materials listed on DD Form 346 will include the material required to produce Class A products and exclude class B products and Government-furnished property. Each procurement item shall be reported on a separate DD Form 346 (or more as required). A major assembly is one which, with its associated parts, performs a complete and specific function in the operation of the ordnance item, e.g., the ammunition hoist of a 5"/38 gun mount.

5.2 HEADING DATA ON DD FORM 346

a. Type of bill of materials. Specify the type of bill of materials, i.e., detail, modified, expanded summary, or abbreviated summary.

b. Date. Insert day, month, and year on which the bill of materials is submitted.. When revisions are submitted, the altered form will bear the date of submission of the revisions and the word "Revised" above the date.

c. Page number and number of pages. In the heading of each page, fill in the page number, numbering each page consecutively within each major assembly section and showing on each page the total number of pages in that section,

d. Procurement item and model. Insert the name of the procurement item for which the bill of materials is prepared and the major assembly of that item. The model number should be the mark and mod of the procurement item.

e. Specification. Insert the specification or designation number applicable to the procurement item.

f. Prime contractor and address. Insert name or designation of the facility preparing the bill, street address, city and state in the appropriate spaces.

g. SCC number. Not required.

h. Index number. Not required.

i. Contract number. Insert the NOrd number of the item for which the bill of materials is being prepared.

MIL-STD-295 (NOrd)
30 October 1956

j. Material for () procurement item(s) with finished weight of. Insert "1" unless the weight of procurement items is exceptional (in such case, use some multiple of 10, e.g., 10,000, 1/10, 1/100) and insert finished weight of the basic quantity of procurement item(s) furnished above. Exclude in this weight the weight of the packaging material.

k. Approved by. Insert signature and title of an official of the prime contractor or his legal representative who certifies to the correctness of the bill of materials.

5.3 COLUMN DATA

a. Part name (col. a1). Enter here the Government-approved noun name of the individual part. Federal item names and Federal item identification data should be used wherever available. In this connection, attention is invited to FED-STD-5, "Standard Guides for Preparation of Item Descriptions by Government Suppliers." The "noun name" is the normally accepted descriptive name of the part, with the noun and indexing portion of the description first, followed by the descriptive adjectives.

b. Federal stock number, part number or drawing number (col. a2). Enter here either the Federal stock number, part number, or Bureau of Ordnance drawing number with preference to the latter. The number used should be identified. If none of the above numbers are available, enter the manufacturers part number and identify as such.

c. Number for assembly in equipment (col. a3). Enter here the number of the individual component parts required for each item multiplied by number of units cited in "Material for () procurement item(s) with finished weight of _____," J, above, excluding spares.

d. Number for spares (col. a4). Not required.

e. Name of material (col. b1). State the name of the basic processed or raw material, such as aluminum, copper, lumber, carbon steel, alloy steel, stainless steel, wool, etc., as listed in the most recent Department of Defense Coded List of Materials.

f. Form (col. b2). Insert the descriptive commercial form in which the material is ordered. For example, if the material listed in the preceding column is carbon steel, this column should break down the steel requirements of Defense Coded List of Materials, such as castings, forgings, extrusions, hot-rolled bars, etc. The form given should correspond with the last stage of processing (before machining or finishing) shown in the Department of Defense Coded List of Materials.

MIL-STD-295 (NOrd)

30 October 1956

g. Size and description (col. b3). List the physical measurements of the materials such as length, width, thickness, diameter, etc., which are normally purchased or used for making a given part. More than one measurement (such as ft. and lb. may be called for. For castings, forgings, and extrusions list the drawing number, name and address of the casting, forging or extrusion manufacturer

h. Specification (col. b4). Enter the applicable symbol in terms of a standard specification or commercial designation, such as Federal, MIL, JAN, SAE, AISI or AMS, etc., with type, grade, or class when applicable. When no standard specification or commercial designation is applicable, the specification under which the material is procured, or the contractor's specification, will be listed. When a specification covers more than one type, grade, class, or other classification, complete identification must be furnished. In the absence of standard specifications or commercial designations, and a manufacturer's specifications are used, a copy of these specifications shall be submitted with, and as a part of, the initial submission of the bill of materials.

i. Unit of measure (col. b5). Enter here the unit of measure to be used, such as pounds of metals, board feet of lumber, pounds for leather, and all others in accordance with units outlined in Department of Defense Coded List of Materials, but in no instance use a ton as a unit of measure.

j. Quantity (net) (col. b6). This column will be completed only as required by the Bureau of Ordnance.

k. Quantity (gross)(col. b6).

- (1) Detail or modified bill of materials. Enter the amount of material (expressed in terms of the unit of measure cited in col. b5) necessary to produce the finished parts listed in column a3. This includes processing losses, rejections, culls, testing and spoilage. Do not include rejected material to be returned to the vendor or material for parts that are normally made from scrap or offal.
- (2) Summary-type of bill of materials. List the total amount of material of a given shape or form required to fabricate all prime-contractor and subcontractor manufactured parts for the procurement item(s). All parts which are part-number and design controlled by the prime contractor and subcontractor will ordinarily fall in this category. This quantity includes processing losses, rejections, or other computable losses. Do not include rejected materials to be returned to the vendors or materials for parts that are normally made from scrap or offal.

MIL-STD-295 (NOrd)
30 October 1956

l. Lead time (mo) (col. b7). Enter the elapsed time in months from the required date of shipment of the material from the supplier to the date of completion (not delivery) of the procurement item. Omit any allowances for inventory buildup. In estimating lead time, assume that the material will be shipped on the date requested. In the detail and modified bills of materials, the material lead time should be shown for each part listed. In the summary type bill of materials, the average material lead time should be entered for the item shown.

m. Form and shape code (col. c1). Enter here the form and shape code arranged numerically as given in Department of Defense Coded List of Materials.

n. Size and description code, and chemical equivalent code, (cols. c2 and c3). This column will be left blank.

5.4 USE OF DD FORM 347

DD Form 347 (figs. 7-10) should be completed to include all:

- a. Subcontracted parts (class A Products).
- b. Purchased parts (class B products).
- c. Government-furnished property.
- d. Prime-contractor produced class B products.

A separate sheet will be used for each of the foregoing types, a, b, c and d above.

5.5 HEADING DATA FOR DD FORM 347

a. Bills of materials for. In this section, it is important that the proper block be marked with an "X". Prime-contractor produced class B products should be listed separately and be annotated in this block.

b. Date. Insert day, month and year on which the bill of materials is submitted. When revisions are submitted, the altered form will bear the date of submission of the revisions and the word "Revised" above the date.

c. Page number and number of pages. In the heading of each page, fill in the page number, numbering each page consecutively within each section and showing on each page the total number of pages in the section. All pages within a section of the bill of materials shall be numbered consecutively so that a section can be renumbered separately.

d. Index number. Leave blank.

e. Procurement item and model. Insert the name of the item and major assembly for which the bill of materials is prepared. The model number should be the mark and mod designation of the item for which the bill of materials is being prepared.

MIL-STD-295 (NOrd)
30 October 1956

f. Contract number. Insert the NOrd number of the item for which the bill of materials is being prepared.

g. Prime contractor (name). Enter the name of the facility preparing this bill under the contract referred to in the preceding paragraph.

5.6 COLUMN DATA FOR DD FORM 347

a. Part number (col. a). Enter here either the Federal stock number, part number or Bureau of Ordnance drawing number with preference to the latter. The number used should be identified. If none of the above numbers are available, enter the manufacturer's part number and identify as such. List Government standard parts by stock number or part number in numerical sequence.

b. Part name, type, model, and other identifying information (col. b). Insert information which will identify the item as clearly as possible and in accordance with standard FED-STD 5. Federal item names and Federal item identification data should be used wherever available. Use noun name followed by functional description of the part. For example, "Valve, control, four-way hydraulic."

c. A or B product (col. c). Insert A or B to indicate classification of part as an A or B product under the Defense Materials System. At the contractor's option, he may subdivide his "Purchased Parts" into a A product group and a B product group in lieu of coding of each item.

d. Quantity of parts per procurement item (col. d).

(1) Net. Enter here the exact number of parts contained in the item for which the bill of material is being prepared.

(2) Gross. Enter the sum of the net quantity per item plus the estimated loss due to wastage, rejection, spoilage, etc.

e. Weight each (col. e). Enter the estimated finished weight (to the nearest significant figure, not to exceed three digits to the right of the decimal point). The weight should be that weight of one finished item only.

f. Lead time (col. f). Lead time should be stated in months from the required date of shipment of the listed part from the supplier to the date of completion of the item for which the bill of materials is being prepared. Do not include any allowance for inventory buildup. In estimating lead time, assume that the products will be shipped on the date requested.

g. Name and address of manufacturer (col. g). Insert the name and address of the principal manufacturer of the part, or his authorized code symbol. List the name of the parent firm first, then the division or plant specifically performing delivery of the part, or both. The address shall be that of the division or plant supplying the part. A code may be used to show manufacturers, if a key is furnished.

h. For Government use (col. h). Leave blank.

DEPARTMENT OF DEFENSE RAW (BASIC PROGRESS) AND SEMI-FABRICATED STOCK FORM				TYPE OF BILL OF MATERIALS (Specify)				DATE 10 June 1956		PAGE NO 1		NO OF PAGES 1		Form Approved Budget Bureau No. 22-8033-1	
PRINCIPAL ITEM AND MODEL 3"/50 MOUNT Mk 0 Mod 0				SPECIFICATION MIL-SPEC 10000				PRIME CONTRACTOR NAME WILDOIT CORPORATION				ADDRESS 1234 MAIN STREET			
ITEM NUMBER		MODEL NUMBER		CONTRACT NUMBER NORD-25000		UNIT PRICE FOR 1 FINISHED WEIGHT		APPROVED BY <i>John Jones</i> JOHN JONES - Chief Engineer				MIDWAY 21, NEW YORK			
COMPONENT PARTS				BASIC MATERIAL INFORMATION										CODING	
LINE NUMBER	PART NAME	GOVERNMENT STOCK NUMBER PART NUMBER OR DRAWING NUMBER	NUMBER FOR		NAME OF MATERIAL	FORM	SIZE AND DESCRIPTION	SPECIFICATION	UNIT OF MEASURE	QUANTITY DS		LEAD TIME (Wks)	FORM AND SHAPE CODE	SIZE AND DESCRIPTION CODE	CHEMICAL EQUIVALENT CODE
			ASSEMBLY IN EQUIP.	CON- CURRENT SPARES						NET	GROSS (Include Rejections)				
a1	a2	a3	a4	a5	b1	b2	b3	b4	b5	b6	b7	b8	b9	b10	b11
1	THE FOLLOWING BILL OF MATERIALS ON THE 3"/50 GUN MOUNT, Mk 0, Mod 0 IS BROKEN DOWN INTO THESE MAJOR ASSEMBLIES:														
2	1. GUN - Mk 1, Mod 1														
3	2. HOUSING - Mk 1, Mod 2														
4	3. GAS EJECTOR - Mk 1, Mod 3														
5	4. CARRIAGE - Mk 2, Mod 1														
6	5. SLIDE - Mk 2, Mod 2														
7	6. STAND - Mk 2, Mod 3														
8	7. SHIELD - Mk 3, Mod 1														
9	8. ELEVATING GEAR - Mk 3, Mod 2														
10	9. ELEVATION POWER DRIVE - Mk 3, Mod 3														
11	10. TRAINING GEAR - Mk 4, Mod 1														
12	11. TRAINING POWER DRIVE - Mk 4, Mod 2														
13	12. AMMUNITION HOIST - Mk 5, Mod 1														
14	13. FIRE CONTROL EQUIPMENT -														
15															
16															
17															
18															
19															
20															
21															
22															
23															

DD FORM 346

REPLACES DD FORMS 346 AND 346-1, 1 SEP 50 WHICH ARE OBSOLETE.

Figure 1.

DEPARTMENT OF DEFENSE RAW (CRATIC PROCESSING) AND SEMI-FABRICATED STOCK FORM					TYPE OF BILL OF MATERIALS MODIFIED (Specify)					DATE 10 June 1956		PAGE NO 1		NO OF PAGES 4		Form Approved Budget Bureau No. 27-2033-1			
REQUIREMENT ITEM AND MODEL 3"/50 MOUNT Mk-O Mod-O AMMUNITION HOIST					SPECIFICATION MIL-SPEC 10000					PRIME CONTRACTOR NAME WILDOIT CORPORATION					ADDRESS 1234 MAIN STREET				
ITEM NUMBER		ITEM NUMBER		ITEM NUMBER		ITEM NUMBER		ITEM NUMBER		ITEM NUMBER		ITEM NUMBER		ITEM NUMBER		ITEM NUMBER			
CONTRACT NUMBER		CONTRACT NUMBER		CONTRACT NUMBER		CONTRACT NUMBER		CONTRACT NUMBER		CONTRACT NUMBER		CONTRACT NUMBER		CONTRACT NUMBER		CONTRACT NUMBER			
NORD- 25000		NORD- 25000		NORD- 25000		NORD- 25000		NORD- 25000		NORD- 25000		NORD- 25000		NORD- 25000		NORD- 25000			
COMPONENT PARTS					BASIC MATERIAL INFORMATION														
LINE NUMBER	PART NAME	DRAWING NUMBER	NUMBER FOR		NAME OF MATERIAL	FORM	SIZE AND DESCRIPTION	SPECIFICATION	UNIT OF MEASURE	QUANTITY DATA			FORM AND SHAPE CODE	SIZE AND DESCRIPTION CODE	CHEMICAL EQUIVALENT CODE				
			ASSEM. IN EQUIP.	COMP. CURRENT SPARES						NET	GROSS (Include Defections)	LEAD TIME (Wk)							
a1	a2	a3	a4	a5	b1	b2	b3	b4	b5	b6	b7	b8	b9	b10	b11				
1	Cradle, Pawl	500009	2		Steel	Cast	Steel Casting Company	SAE 1020	Lbs.		462.8	4	1211						
2	Adapter	500003	1		Steel	Bar	1 5/8" rd. CR	QQ-S-633	Lbs.		.654	2	1221						
3	Cover	500004	4		Steel	Bar	1 1/4" X 3/8" CR	A-194-51 Gr.1	Lbs.		2.00	3	1221						
4	Pilot, Sleeve	500005	1		Steel	Bar	1 1/4" X 3/8" CR	A-194-51 Gr.1	Lbs.		1.56	1	1221						
5	Connector	500006	1		Steel	Bar	1 1/4" X 3/8" CR	A-194-51 Gr.1	Lbs.		1.60	2	1221						
6	Shaft	500014	2		Steel	Bar	2 1/4" rd. CR	SAE 1025	Lbs.		1.24	2	1221						
7			3		Steel	Bar	1 1/2" rd. CR	AISI C1020	Lbs.		.700	2	1221						
8			2		Steel	Bar	5/8" rd. CR	MIL-S-11310A	Lbs.		.510	2	1221						
9	Ring, Retaining	500011	1		Steel	Tubing	4.500 O.D. - 3.500 I.D.	SAE 1042	Lbs.		2.05	2	1240						
10			4		Steel	Tubing	2.750 O.S. - 2.250 I.D.	A-194-51 Gr.1	Lbs.		1.46	3	1240						
11			2		Steel	Tubing	2.625 O.D. - 1.500 I.D.	AISI-C 1043	Lbs.		1.72	2	1240						
12	Plate, Bearing	500013	1		Steel	Plate	1/2" Th.	SAE 1020	Lbs.		5.20	2	1251						
13	Plate, Rear	500015	2		Steel	Plate	1/2" Th.	SAE 1020	Lbs.		11.7	1	1251						
14	Base	500017	1		Steel	Plate	3/4" Th.	SAE 1015	Lbs.		21.4	3	1251						
15	Plate, Top	500018	1		Steel	Plate	5/8" Th.	AMS 5060 B	Lbs.		18.6	2	1251						
16	Gunsat, Right	500021	1		Steel	Plate	3/8" Th.	SAE 1020	Lbs.		7.50E	2	1251						
17	Gunsat, Left	500022	1		Steel	Plate	3/8" Th.	SAE 1020	Lbs.		7.00E	2	1251						
18	Bracket, Mounting	500029	4		Alloy Steel	Forging	American Iron Corporation	AISI 8660	Lbs.		69.3	4	1301						
19	Spacer	500043	1		Alloy Steel	Bar	1/2" X 1 1/4"	QQ-S-624(-2)	Lbs.		4.50	2	1321						
20	Sleeve, Drive	500052	2		Alloy Steel	Bar	1/2" X 1 1/4"	QQ-S-624(-2)	Lbs.		10.4	2	1321						
21			2		Alloy Steel	Bar	3/4" X 1 3/8"	A331-50T	Lbs.		2.40	2	1321						
22					Alloy Steel	Tubing	1.625 O.D. X 1.000 I.D.	MIL-S-11487	Lbs.		2.67	2	1340						
23					Alloy Steel	Plate	1/2" Th.	QQ-S-626	Lbs.		8.75	2	1351						

DD FORM 346 REPLACES DC FORMS 346 AND 346-1, 1 SEP 50 WHICH ARE OBSOLETE.

Figure 3.

DEPARTMENT OF DEFENSE RAW (BASIC PROCESSING) AND SEMI-FABRICATED STOCK FORM				TYPE OF BILL OF MATERIALS (Specify)				SUMMARY (Expanded)		DATE	PAGE NO	NO OF PAGES	Form Approved Budget Bureau No. 22-R033.1		
PROCUREMENT ITEM AND MODEL 3"/50 MOUNT Mk-O Mod-O - AMMUNITION HOIST				SPECIFICATION MIL - SPEC 10000				PRIME CONTRACTOR - NAME WILDOIT CORPORATION		ADDRESS: 1234 MAIN STREET					
CONTRACT NUMBER NOrd- 25000		MATERIAL FOR FINISHED WEIGHT OF		1. PROCUREMENT ITEM WITH 10,000		APPROVED BY (Signature) JOHN JONES - Chief Engr.		MIDWAY 21, NEW YORK							
COMPONENT PARTS				BASIC MATERIAL INFORMATION						CODING					
LINE NUMBER	PART NAME	DRAWING NUMBER	NUMBER FOR		NAME OF MATERIAL	FORM	SIZE AND DESCRIPTION	SPECIFICATION	UNIT OF MEASURE	QUANTITY DS		LEAD TIME (Wk)	FORM AND SHAPE CODE	SIZE AND DESCRIPTION CODE	CHEMICAL EQUIVALENT CODE
			ASSEM. IN EQUIP.	CONV. CURRENT SPARES						NET	GROSS (Include Project Allow)				
1	Cradle, Pawl	500009	2		Steel	Cast	Steel Casting Company	SAE 1020	Lbs.	462. E	4	1211			
2					Steel	Bar	1 1/2" rd. CR	AISI C1020	Lbs.	.700	2	1221			
3					Steel	Bar	1 5/8" rd. CR	QQ-S-633	Lbs.	.654	2	1221			
4					Steel	Bar	1 1/4" I 3/8" CR	A-194-51 Gr.1	Lbs.	5.16	2	1221			
5					Steel	Bar	5/8" rd. CR	MIL-S-11310A	Lbs.	.510	2	1221			
6					Steel	Bar	2 1/4 rd. CR	SAE 1025	Lbs.	1.24	2	1221			
7					Steel	Tubing	4.500 O.D. - 3.500 I.D.	SAE 1042	Lbs.	2.05	2	1240			
8					Steel	Tubing	2.750 O.D. - 2.250 I.D.	A194-51Gr.1	Lbs.	1.46	3	1240			
9					Steel	Tubing	2.625 O.D. - 1.500 I.D.	AISI - C1043	Lbs.	1.72	2	1240			
10					Steel	Plate	1/2" Th.	SAE 1020	Lbs.	16.9	2	1251			
11					Steel	Plate	3/4" Th.	SAE 1015	Lbs.	21.4	3	1251			
12					Steel	Plate	5/8" Th.	AMS 5060 B	Lbs.	18.6	2	1251			
13					Steel	Plate	3/8" Th.	SAE 1020	Lbs.	14.5E	2	1251			
14	Bracket, Mounting	500029	4		Alloy Steel	Forging	American Iron Corporation	AISI B660	Lbs.	68.3	4	1301			
15					Alloy Steel	Bar	3/4 I 1 3/8"	A331-50 T	Lbs.	2.40	2	1321			
16					Alloy Steel	Bar	1/2" I 1 1/4"	QQ-S-624(-2)	Lbs.	14.9	2	1321			
17					Alloy Steel	Tubing	1.625 O.D. - 1.000 I.D.	MIL-S-11487	Lbs.	2.67	2	1340			
18					Alloy Steel	Plate	1/2" Th.	QQ-S-626	Lbs.	8.75	2	1351			
19	Bushing	500104	1		Stainless Steel	Casting	Steel Casting Company	SAE 51440C	Lbs.	31.1	4	1411			
20					Copper	Rod	7/8" Dia.	SAE B8	Lbs.	1.48	2	1512			
21	Bushing	500686	3		Copper	Casting	Cuprous Manufacturing Company	AMS 4614D	Lbs.	8.21	6	1540			
22	Link Connector	500072	2		Aluminum	Casting	Metals Foundry Incorporated	SAE 310	Lbs.	12.9	3	1651			
23	Arc Guide	500115	2		Aluminum	Casting	Metals Foundry Incorporated	SAE 310	Lbs.	13.8	4	1651			

DD FORM 346

PLACES DD FORM 346 AND 346-1, 1 SEP 60 WHICH ARE OBSOLETE.

Figure 4.

DEPARTMENT OF DEFENSE				SUPPLEMENT (Abbreviated)				DATE		NO. OF PAGES		FORM APPROVED	
NAME (BASIC PERMISSIONS) AND SEMI-FABRICATED STOCK FORM				SPECIFICATION				10 June 1956		1		Budget Bureau No. 31-0033-1	
31/50 MOUNT M6-O Mod-O - APPROPRIATION HOIST				MIL SPEC 10000						ADDRESS		1234 MAIN STREET	
MATERIAL FOR 1				MATERIAL FOR 2									
10000 - 25000				10,000 lbs.								HIGHWAY 21, NEW YORK	
COMMENTS PARTS				BASIC MATERIAL INFORMATION				QUANTITY		CODING			
PART NAME	CONVENTION NUMBER PART NUMBER OR ORDERING NUMBER	NUMBER FOR	MATERIAL	FORM	SIZE AND DESCRIPTION	SPECIFICATION	UNIT MEASURE	QUANTITY		FORM AND DESCRIPTION CODE	SIZE AND DESCRIPTION CODE	CHEMICAL ELEMENT CODE	
								NET	GROSS (include rejections)				
1	51	42	Steel	Cast		B4	Lbs.	452.8	4	1211		C3	
2			Steel	Bar			Lbs.	8.26	2	1221			
3			Steel	Tubing			Lbs.	5.23	2	1240			
4			Steel	Plate			Lbs.	71.4	2	1251			
5			Alloy Steel	Forging			Lbs.	68.3	4	1301			
6			Alloy Steel	Bar			Lbs.	17.3	2	1321			
7			Alloy Steel	Tubing			Lbs.	2.67	2	1340			
8			Alloy Steel	Plate			Lbs.	8.75	2	1351			
9			Stainless Steel	Casting			Lbs.	31.1	4	1411			
10			Copper	Rod			Lbs.	1.48	2	1512			
11			Copper	Casting			Lbs.	8.21	6	1540			
12			Aluminum	Casting			Lbs.	26.7	4	1651			
13			Aluminum	Tubing			Lbs.	19.3	2	1680			
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Figure 5.

DD FORM 346 APR 52 346 REFLECTS ON FORMS 346 AND 346-1, 1 SEP 50 WHICH ARE OBSOLETE

[illegible]

DEPARTMENT OF DEFENSE					DATE		PAGE NUMBER		NUMBER OF PAGES		Form Approved Budget Bureau No. 22-8023-1	
BILL OF MATERIALS FOR <input checked="" type="checkbox"/> SUB-CONTRACTED PARTS <input type="checkbox"/> PURCHASED PARTS <input type="checkbox"/> GOVERNMENT-FURNISHED PROPERTY					10 June 1956		1		1			
ORDER NUMBER		ACQUISITION ITEM		MODEL		CONTRACT NUMBER		PRIME CONTRACTOR (Name)				
		39/50 MOUNT - AMMUNITION HOIST		MK-O Mod-O		Mord- 25000		WILDOIT CORPORATION				
LINE NUMBER	PART NUMBER	PART NAME, TYPE, MODEL, AND OTHER IDENTIFYING INFORMATION	QTY REQD	QUANTITY OF PARTS PER EQUIPMENT ITEM		WEIGHT EACH	LEAD TIME (Wks.)	NAME AND ADDRESS OF MANUFACTURER	FOR GOVERNMENT USE			
				NET	GROSS (incl. loss, etc.)							
1	501000	Plunger	A	2	3	.470	3	XYZ MACHINE COMPANY, MIDWAY, N.Y.				
2	501007	Pinion, reduction	A	4	6	3.84	2	XYZ MACHINE COMPANY, MIDWAY, N.Y.				
3	501022	Gear, worm	A	2	3	2.55	2	XYZ MACHINE COMPANY, MIDWAY, N.Y.				
4	501032	Piston	A	1	2	1.29	3	EASTERN LATH PRODUCTS, MIDWAY, N.Y.				
5	501035	Clevis	A	30	36	2.06	1	DOE FORGINGS INCORPORATED, MIDWAY, NY				
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DD FORM 347 JUL 52 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

Figure 7.

DEPARTMENT OF DEFENSE						DATE	PAGE NUMBER	NUMBER OF PAGES	Form Approved Budget Bureau No. 33-8033-1
BILL OF MATERIALS FOR <input type="checkbox"/> SUB-CONTRACTED PARTS <input checked="" type="checkbox"/> PURCHASED PARTS <input type="checkbox"/> GOVERNMENT-FURNISHED PROPERTY						10 June 1956	1	1	
PROJECT NUMBER		PROCUREMENT ITEM	MODEL	CONTRACT NUMBER		PRIME CONTRACTOR (Name)			
		3rd/50 MOUNT - AMBULANCE HOIST	Mk-O Mod-O	ORD- 25000		WILDOLT CORPORATION			
LINE NO	PART NUMBER	PART NAME, TYPE, MODEL, AND OTHER IDENTIFYING INFORMATION	UNIT	QUANTITY OF PARTS PER PROCUREMENT ITEM		WEIGHT EACH	LEAD TIME (Wks.)	NAME AND ADDRESS OF MANUFACTURER	FOR GOVERNMENT USE
				WT	CORRS (Inch) (Etc. etc.)				
1	500769	Gasket	R	12	21	1.014	2	Stoplenk Company, Midway, New York	
2	500781	Valve, plunger	R	14	6	6.20	2	United Valve Corporation, Midway, NY	
3	500792	Valve, directional	R	3	4	5.60	3	United Valve Corporation, Midway, NY	
4	500815	Gear, spur	R	2	3	3.19	3	ABC Gear Works, Midway, New York	
5	500823	Solenoid	R	1	2	1.58	6	Electro, Incorporated, Midway, NY	
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DEPARTMENT OF DEFENSE										DATE		PAGE NUMBER		NUMBER OF PAGES		Form Approved Budget Bureau No. 22-8033-1	
BILL OF MATERIALS FOR <input type="checkbox"/> SUB-CONTRACTED PARTS <input type="checkbox"/> PURCHASED PARTS <input checked="" type="checkbox"/> GOVERNMENT-FURNISHED PROPERTY										10 June 1956		1		1			
PROJECT NUMBER		PROCUREMENT ITEM		MODEL		CONTRACT NUMBER		PRIME CONTRACTOR (Name)									
		3"/50 MOUNT - AMMUNITION HOIST		Mk-O Mod-O		NOrd- 25000		WILDOIT CORPORATION									
LINE NO.	PART NUMBER	PART NAME, TYPE, MODEL, AND OTHER IDENTIFYING INFORMATION	A OR B C	QUANTITY OF PARTS PER PROCUREMENT ITEM		WEIGHT EACH	LEAD TIME (Hrs.)	NAME AND ADDRESS OF MANUFACTURER	FOR GOVERNMENT USE								
				NET	GROSS (Incl. Taxes, etc.)												
1	LD 502914	Power Drive, Elevation Mk 3/3	A	1	1	1500.	12	HOF, MIDWAY, NEW YORK									
2	LD 506248	Power Drive, Train Mk-4/2	A	1	1	2400.	14	NOP, MIDWAY, NEW YORK									
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DD FORM 347 PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE.

Figure 2.

BILL OF MATERIALS FOR		DEPARTMENT OF DEFENSE		GOVERNMENT-FURNISHED PROPERTY		DATE		PAGE NUMBER		NUMBER OF PAGES		FORM APPROVED Budget Bureau No. 23-2033-1	
SUB-CONTRACTED PARTS		PURCHASED PARTS		CONTRACTOR PROVIDED PARTS		10 June 1956		1		1			
PART NAME, TYPE, MODEL, AND OTHER IDENTIFYING INFORMATION		QUANTITY OF PARTS		WEIGHT EACH		LEAD TIME (Wks.)		NAME AND ADDRESS OF MANUFACTURER		FOR GOVERNMENT USE			
PART NAME, TYPE, MODEL, AND OTHER IDENTIFYING INFORMATION		QUANTITY OF PARTS		WEIGHT EACH		LEAD TIME (Wks.)		NAME AND ADDRESS OF MANUFACTURER		FOR GOVERNMENT USE			
PART NAME, TYPE, MODEL, AND OTHER IDENTIFYING INFORMATION		QUANTITY OF PARTS		WEIGHT EACH		LEAD TIME (Wks.)		NAME AND ADDRESS OF MANUFACTURER		FOR GOVERNMENT USE			
M 300 - 4582	Motor, Electric, 3 HP	1	1	1780.	9	Willdolt Corporation, Electric Div., Midway, New York							
R 6862	Relay	6	6	4.10	3	Willdolt Corporation, Electric Div., Midway, New York							
T 9043	Transformer	2	2	18.7	3	Willdolt Corporation, Electric Div., Midway, New York							
<p>* The Part Numbers noted on this sheet are from the Willdolt Corporation's catalog of stock items.</p>													

Figure 10.