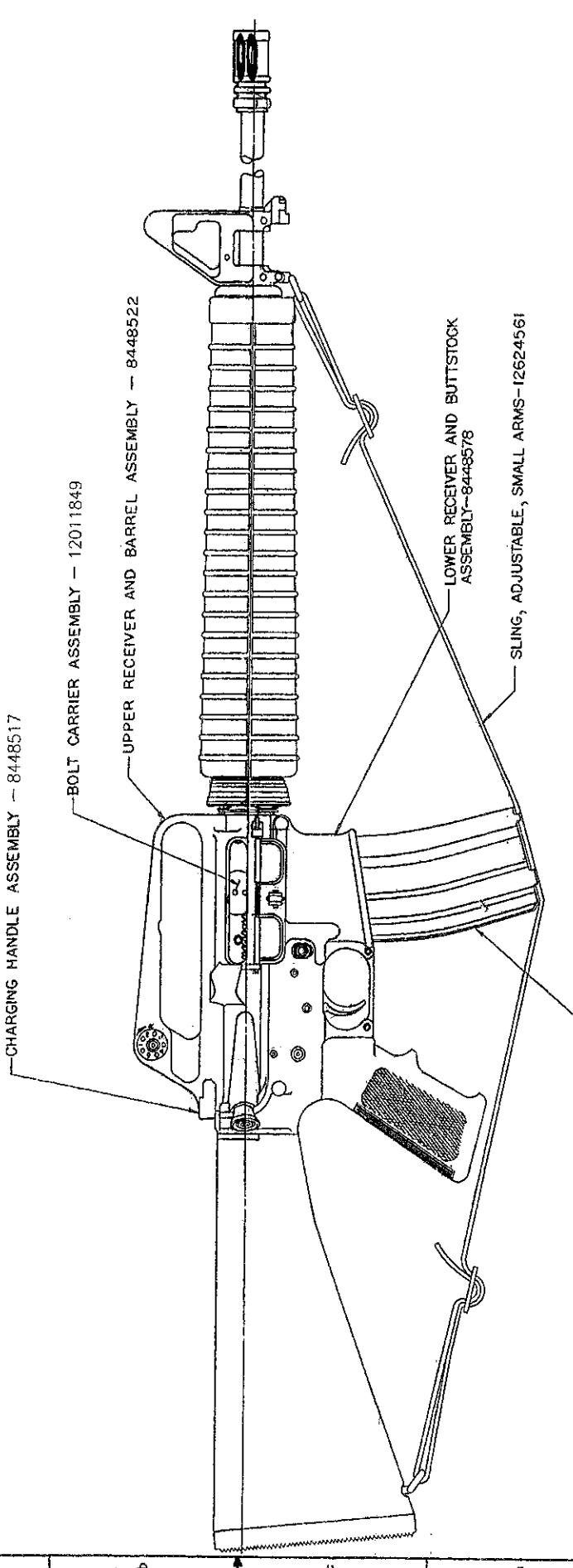


REVISIONS	DATE
L. REDRAW WITH CHANGES NOR 155004/BEG009	580215
M NOR GZ SS057/7292016.	S2/Q30 24/PB
N NOR 155059 971016 (ECP 155000 980126)	580313 JB

NOTES:
1. MIL-R-4587 APPLIES.
2. FOR INFORMATION ONLY.

DRAWING A8448595 INCLUDES THE SUPPORT EQUIPMENT FOR THE RIFLE, MISAL THIS EQUIPMENT IS NOT PACKAGED OR INCLUDED WITH THE M16A1 RIFLE, P/N 8448500.



REVISIONS	DATE
L. REDRAW WITH CHANGES NOR 155004/BEG009	580215
M NOR GZ SS057/7292016.	S2/Q30 24/PB
N NOR 155059 971016 (ECP 155000 980126)	580313 JB

SEE PARTS LIST 8448500

PART NO. 8448500

PRODUCTION DRAWING

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NOTES:

1. ASSEMBLE 8448639 AND 8448640
USING 15 ± 5 INCH LB OF TORQUE BEFORE SWAGING.
2. MIL-W-13855 APPLIES. (A)

SEE PL-8448638

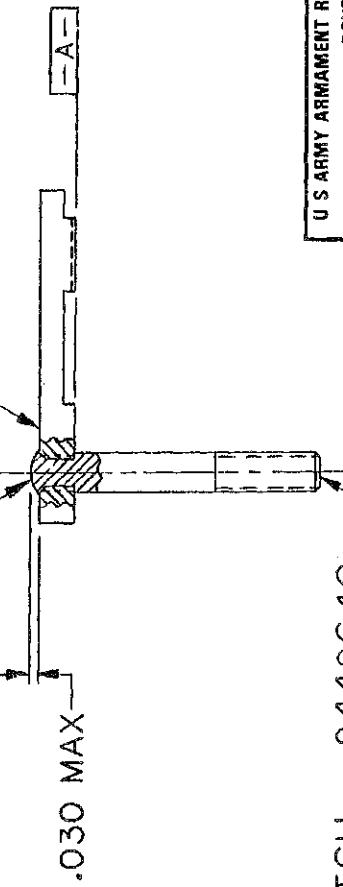
11A1.004

- SHAFT, MAGAZINE CATCH – 8448640
- DISTRIBUTION STATEMENT: FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASOCN-CAR OR HIGHER DOD AUTHORITY 02-06-22.
- | MECHANICAL PROPERTIES | | | | | | | |
|-----------------------|----------|-----------|-------------|--|--|--|--|
| YS | 93900.1 | M4 | | | | | |
| MIN | F9327230 | M231 | | | | | |
| MAX | F8448604 | M16 | | | | | |
| EL2 | F8448578 | M16A1 | | | | | |
| RA | | | | | | | |
| BH | | NEUT ASSY | USED ON | | | | |
| RH | | | APPLICATION | | | | |

REVISIONS			
REV	ZONE	CTR	DESCRIPTION
A			REDRAWN FROM COLT'S DRAWING C61604 REV A
B			SEE ERR HQR 20778 B NOR W9S2009 80-02-13
C			C NOR G1S2018 91-07-08 NOR G2S3059 920716
D			D NOR G2S3060 920630

- NOTES:
1. ASSEMBLE 8448639 AND 8448640
USING 15 ± 5 INCH LB OF TORQUE BEFORE SWAGING.
 2. MIL-W-13855 APPLIES. (A)
- SWAGE TO FORM HEAD AND LOCK ASSEMBLY.
SWAGED HEAD MUST BE SMOOTH AND SYMMETRICAL

PLATE, MAGAZINE CATCH –
8448639



U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

SIZE	CODE IDENT NO.	DRAWING NO.	CODE IDENT NO.	CURRENT
B	19204	8448638	19200	19200

ARMAMENT RESEARCH & DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

PARTS LIST
DOCUMENT/PART NUMBER PL-9349119
BUTTSTOCK ASSEMBLY, STOWAGE D 9349119
CHANGE CONTROL NUMBER W253258

PND	QTY	UNIT	FSCH NO.	PART OR IDENTIFYING NO	DRAWING/DOCUMENT NUMBER	SIZE	NOMENCLATURE OR DOCUMENT TITLE	SUP LST
1	1	19204	8448652	C 8448652	SWIVEL			
1	1	19204	8448653	C 8448653	HINGE			
1	1	19204	8448655	B 8448655	9 IN SCREW, SWIVEL			
1	1	9349120		D 9349120	BUTTSTOCK			
1	1	9349121		J 9349121	BUTT PLATE ASSEMBLY			
1	1	9349130		J 9349130	CDR ASSEMBLY, THUMB LATCH	X		
1	1	9331380		C 9381380		X		

TOTAL NUMBER OF SHEETS 1

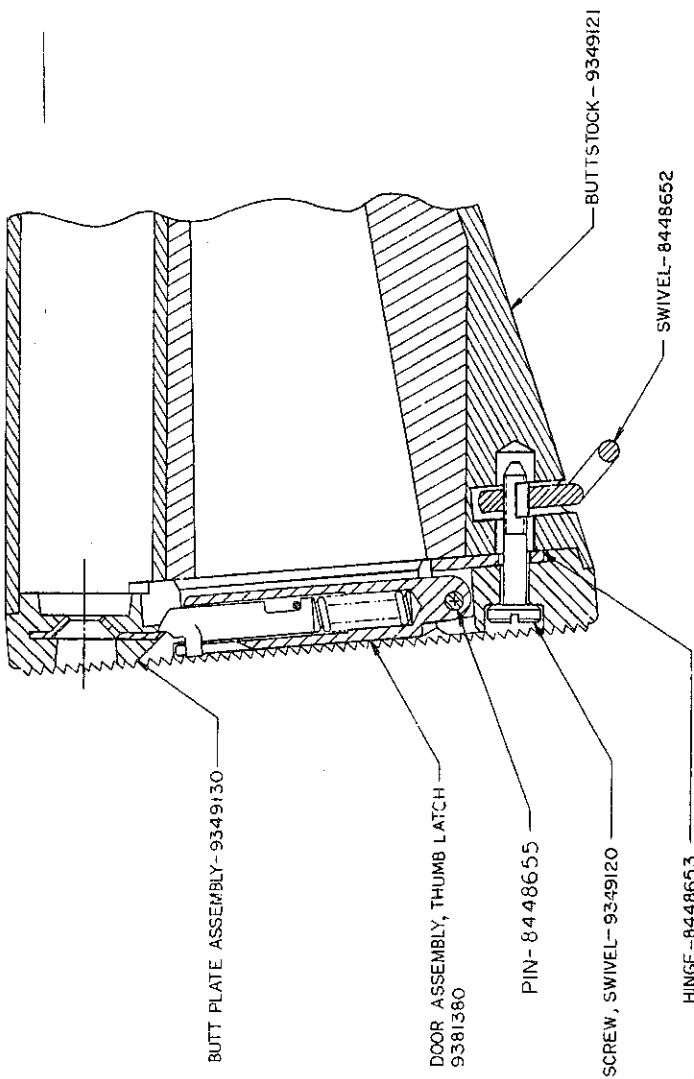
CURRENT FSCH NO. 19200 - ORIGINAL FSCH NO. 19200
AUTHENTICATION-*R. H. A.*

REV. DATE 04 SEP 84
REVISION LETTER B
SHEET 1
ORIG. DATE 14 JUN 82

AR - AS REQUIRED, ALT - ALTERNATE, OPT - OPTIONAL, SD - SELECTION OPTIONAL

CHARTERED MEMBER OF THE LABORATORY **7-20, 8**

NOTES:—
1—SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.



REVISIONS	DESCRIPTION	DATE	APPROVAL
STN	PRODUCTION RELEASE	02/01/14	REL-04-
	ERFW22015	04/01/10	04/01/10
S	NORW553149,B3-11-14	04/01/10	04/01/10
B	NORW553149,B3-12-15	04/01/10	04/01/10
C	NORW553059,B3-11-15	05/01/02	05/01/02
D	NORW553059,B3-11-15	05/01/02	05/01/02
E	NORW553040,B3-11-15	07/10/15	07/10/15

E NOR W558004/B6204B90215
D NORW5501275106 87107

SEE SEPARATE PARTS LIST - 934919

PART NO. 934919

U.S. NAVY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801		COMPLETION DATE OF CHAMBER 8-10-06-09	
		CHAMBER NO. D-19200	
NO. 1 MECHANICAL PROPERTIES		UHMW POLY	
NO. 2 THERMOCOUPLES OR THERMO- PIEZOS		DEW POINT	
NO. 3 FUNCTIONS & ACCESSORIES		DEW POINT	
NO. 4 TEST ASSET		DEW POINT	
APPLICATION		DEW POINT	
BUTT STOCK ASSEMBLY, STOWAGE			
FSCM NO. 9349119			
SHEET 1 OF 1			

NOTES:-
1-MIL-W-13855 APPLIES.

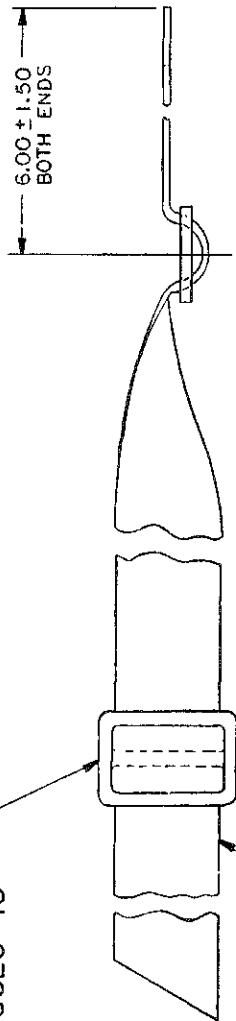
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REVISIONS

REV	DESCRIPTION	DATE	APPROVAL
-	PRODUCTION RELEASE	86-01-24	S JF 1/86
-	ERR W50107		
A	NORG15945/910429	910605 GHS SR P	
B	NOR LT752000 970214	970306 JB	

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PART NO. 12624561

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MF	ZONE	LETR	REVISIONS	DATE	APPROVAL
			REDRAWN FROM COLTS DRAWING C61582 REV B	27 APR 70	
	A	(3)	SEE ERR HQR 20778	6 OCT 72	RE
	B	NOR	W9S2009 80-02-13	80-05-16	RE
	C	NOR	W6S0085 / 86-07-24	89-03-14	RE
	D	NOR	G1S2018 91-07-08	91-10-11	R RE
	E	NOR	6253059 920716 (ECP G2S3060 920630)	92-08-11	AJL
	F	NOR	G3S3116 931130	940317	RE

NOTES:-

- 1.- STEEL CMPSN 4130 OR 41L40 ASTM A322. OR ASTM A331
- 2.- FINISH 125° EXCEPT AS NOTED.
- 3.- BREAK ALL SHARP EDGES
0.0 MAX.
- 4.- ALL DIAMETERS $\oplus 0.006$ DIA
- 5.- MIL-W-13855 APPLIES.

CSK $60^{\circ} \pm 4^{\circ}$ INCL
TO 2.25 DIA

DISTRIBUTION STATEMENT: FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASOCNCAR OR HIGHER DOD AUTHORITY: 92-06-22.

CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES $\pm 2^{\circ}$ 3 PLACE DECIMALS $\pm .005$ 2 PLACE DECIMALS $\pm .001$ MATERIAL:	DATE 27 APR 1970	U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201
YS MIN		PREF ECG & SRE	
YS MAX	9390011 M4	CHK	RETAINER,
EL2	C8448605 M16	ENGR	BUFFER
RA	C8448579 M16A1	SUBMITTED F.O. O'Flaherty	SIZE CODE IDENT NO. DRAWING NO. B 19204 8448582
B-H	NEXT ASSY USED ON	FINAL PROTECTIVE FINISH APPROVED C.J. Henney	SCALE 5/1 SHEET 1 OF 1
	APPLICATION		CDI

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AMSW Form 403B, 29 Jul 69

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NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.

2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDTN CH900. HOLD AT 900° F ± 10° FOR ONE HOUR. AIR COOL.

3. MIL-W-13855 APPLIES.

4. BREAK SHARP EDGES .003+.012.

WIRE DIAMETER ————— COIL DIAMETER (OD) ————— FREE LENGTH ————— TOTAL COILS ————— DIRECTION OF HELIX ————— LOAD AT COMPRESSED LENGTH OF .490 ————— LOAD AT COMPRESSED LENGTH OF SPRING RATE ————— SOLID LENGTH ————— TYPE OF ENDS ————— MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

.0220 ± .0005
.180 ± .003
.940 REF
.14 REF
OPTIONAL
3.0 LB ± .3 LB
.335 MAX
CLOSED

CURRENT DESIGN ACTIVITY
FSCM NO. 19204
U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER

PART NO. 8448583
DOVER, NEW JERSEY 07801

DEPT OF THE ARMY
U.S. ARMY WEAPONS COMMAND

ROCK ISLAND, ILLINOIS, 61201
SPRING,

BUFFER RETAINER

SIZE CODE IDENT NO. DRAWING NO.
B 19204 8448583
SCALE — 1 OF 1

MF	ZONE	LTR	REVISIONS		DATE	APPROVED
			REPLACES	REV A W/ CHANGE		
S	M	B	SEE ERR HQR 20778		6 OCT 72	KB
		C	NOR W250011 / 32-04-13 TECPW250034 / 32-07-15 TECPW35320 / 83-07		83-11-04	✓
		D	NORGIS2018 91-07-08		91-10-11	✓

SPRING, HELICAL, COMPRESSION

B8448583

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NOTES:

1. WIRE, STEEL, CARBON,
SPRING, MUSIC,
ASTM-A228.
2. STRESS RELIEVE: HOLD AT
 $475^{\circ}\text{F} \pm 25^{\circ}$ FOR 30 MINUTES.
AIR COOL.
3. MIL-W-13855 APPLIES.
4. BREAK SHARP EDGES
 $.003 \pm .012$.

	5	4	3	2	1
D					
C					
B					
A					

	5	4	3	2	1

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER 0.0400
COIL DIAMETER (OD) 0.41
FREE LENGTH AFTER SETTING 1.13 REF
TOTAL COILS 9 REF
DIRECTION OF HELIX OPTIONAL
LOAD AT COMPRESSED LENGTH OF .630 4.0 LB ± 4 LB
LOAD AT COMPRESSED LENGTH OF OPEN 405 MAX
SPRING RATE TYPE OF ENDS OPEN
SOLID LENGTH 405 MAX
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572.
EXCEPT PARAGRAPH 3.4.3 SHALL NOT APPLY.

CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY WEAPONS COMMAND
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PACIFICART ARSENAL, NEW JERSEY 07065-5000

PART NO. 8448540

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO.	DEPT OF THE ARMY
YS	TOLERANCES:	DATE	U.S. ARMY WEAPONS COMMAND
MIN	ANGLES: <u>3 PLACE DECIMALS ± .005</u>	27 APR 70	ROCK ISLAND, ILLINOIS, 61201
MAX	2 PLACE DECIMALS ± .01	PREP <u>T. Turner</u>	
EL2	MATERIAL: <u>Steel</u>	CHK <u>G. Beale</u>	
RA	SEE NOTE 1	ENGR <u>O. Elbe</u>	
BH		SUBMITTED <u>D. Cole</u>	
RH		APPROVED <u>K. J. Harvey</u>	

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NOT BE REPRODUCED, COPIED OR USED IN WHOLE OR IN PART, DIRECTLY OR MADE AVAILABLE
TO OTHERS, EXCEPT PURSUANT TO AUTHORIZED CONTRACTS, IN WHICH CASE, THIS NOTICE MAY BE
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TO THE CONTRACTING OFFICE OR OTHER GOVERNMENT OFFICE FROM WHICH IT WAS ISSUED
OR DESTROYED IN ACCORDANCE WITH INSTRUCTIONS NEEDED BY THE RESPONSIBLE CONTRACTING
OFFICER UNLESS CONTRACTUAL AGREEMENTS TO THE CONTRARY ARE MADE.

NOTE:
1. FINISH 12⁵/₄ EXCEPT AS NOTED.
2. FILLET RADI. .10.
3. ALL DIAMETERS TO BE \odot (A) O.D. A.

4. ALL DIMENSIONS APPLY BEFORE FINISH
UNLESS OTHERWISE SPECIFIED.

5. FINISH MIL-A-8625, TYPE III, CLASS 2,
FILM THICKNESS .0010±.0002, FINISH SHALL BE
LUSTERLESS (FLAT), APPROX. BLACK, NO. 37036, TABLE IX
BUT NOT LIGHTER THAN GRAY, NO. 36076, TABLE VIII OF
FED-STD-595, AND SEAL WITH 5% AQUEOUS SOLUTION
OF SODIUM DICROMATE IN ACCORDANCE WITH
PARAGRAPH 3.8.2 ABRASION RESISTANCE.
THE ANODIC COATING LOSS SHALL NOT
EXCEED 20 MILLIGRAMS WHEN SUB-
JECTED TO A 5,000 CYCLE TEST.

6. MASK THREADS, APPLY DRY FILM
LUBRICANT TO BOTH INTERIOR AND
EXTERIOR .0002/.0005
FILM THICKNESS, USE MIL-L-
46010 CURED AT 300°/325° F
FOR 2 HOURS OR EVERLUBE 626
OR 6265 CURED AT 275° ± 25°F
FOR ONE HOUR.

7. BREAK SHARP EDGES .005+.010
UNLESS OTHERWISE SPECIFIED.
8. MIL-W-13855 APPLIES.

$\frac{1}{4}$ -28 UNF-2B MODIFIED -AFTER FINISH
MINOR DIA .2160/.2200 MODIFIED
PITCH DIA .2268/.2311
MAJOR DIA .2500 MIN

$\frac{3}{16}$ -16 UN-2A AFTER FINISH
MAJOR DIA .11860/.11766
PITCH DIA .11454/.11403
MINOR DIA .11093 MAX
MEASUREMENT OVER
.0395 WIRE = 12098/.12047

$\frac{3}{16}$ -16 UN-2A
O.D. MAX UNDERCUT
PERMISSIBLE, ALL
AROUND
63°
1.00 DIA

.115 DIA-.010
[-A-]

.005 MAX UNDERCUT
PERMISSIBLE, ALL AROUND
1.00 MAX

[-A-]

.100 DIA±.003

.100 X 45°±2° CHAMFER

O.D. OR OPTIONAL

1.320
1.050 DIA

CSINK 90° INCL TO
1.050 DIA

1.050 DIA

.03 R

.031 R±.010
.63°
.500 MAX

.130 +.005
-.010

.468
-.11

.03 R

.03 X 45°±2°
CHAMFER

.06 R

.031 R±.010
.63°
.500 MAX

.130 +.005
-.010

.468
-.11

.03 R

.03 X 45°±2°
CHAMFER

.06 R

.031 R±.010
.63°
.500 MAX

.130 +.005
-.010

.468
-.11

.03 R

.03 X 45°±2°
CHAMFER

.06 R

.031 R±.010
.63°
.500 MAX

.130 +.005
-.010

.468
-.11

.03 R

.03 X 45°±2°
CHAMFER

.06 R

.031 R±.010
.63°
.500 MAX

.130 +.005
-.010

.468
-.11

.03 R

.03 X 45°±2°
CHAMFER

.06 R

.031 R±.010
.63°
.500 MAX

.130 +.005
-.010

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-.11

.03 R

.03 X 45°±2°
CHAMFER

.06 R

.031 R±.010
.63°
.500 MAX

.130 +.005
-.010

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.03 R

.03 X 45°±2°
CHAMFER

.06 R

.031 R±.010
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CHAMFER

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NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH) COLD DRAWN, ASTM A313.

2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDTN CH900. HOLD AT 900°F ± 10° FOR 1 HOUR. AIR COOL.

3. MIL-W-13855 APPLIES.

4. BRAKE SHARP EDGES .003+.012.

MF ZONE	LTR	REVISIONS		DATE	APPROVED
		REPLACES	REV A W/ CHANGE		
A	B	SEE ERR HQR 20778		6 OCT 72	LJ
C	NOR W9S2009	80-02-13		80-05-16	JAT, JF
D	NDP W250001	/ 82-04-13		63-11-07	JF
E	NDP W250034	/ 82-07-15			
	NDP W353120	/ 83-07-07			
E	NOR G182018	91-07-08		91-10-11	RSS

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER	0290 ± .0005
COIL DIAMETER (O.D.)	298 ± .007
FREE LENGTH	1.5 REF
TOTAL COILS	8 REF
DIRECTION OF HELIX	OPTIONAL
LOAD AT COMPRESSED LENGTH OF .470	5.64 LB ± .56 LB
LOAD AT COMPRESSED LENGTH OF	
SPRING RATE	270 MAX
SOLID LENGTH	CLOSED
TYPE OF ENDS	
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572	

**U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801**

PART NO.	CURRENT	FSCM NO.
8448637	19200	

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	DEPT. OF THE ARMY
YS	9390011	M 4	ANGLES ± 3 PLACE DECIMALS ± .005	27 APR 70	U.S. ARMY INFANTRY ROCK ASSAULT WEAPONS: COMMAND RIFLE, ASSAULT RIFLE, & CARBON
MIN	F 9327230	M 2.31	2 PLACE DECIMALS ± .005	PREP P. Verner J. G. Johnson	SPRING, MAGAZINE CATCH
MAX	F 8448604	M 16	MATERIAL	CHK D. L. Johnson	
EL2	F 8448578	M 16 A1		ENGR G. E. Colle J. Brown	
RA				SUBMIT TO	
BH				SEE NOTE 1	
RH	15N 84.5 MIN	USED ON	FINAL PROTECTIVE FINISH	SIZE	CODE IDENT NO. DRAWING NO.
		APPLICATION	APPROVED	B	19204 8448637

4

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3

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NOTE:

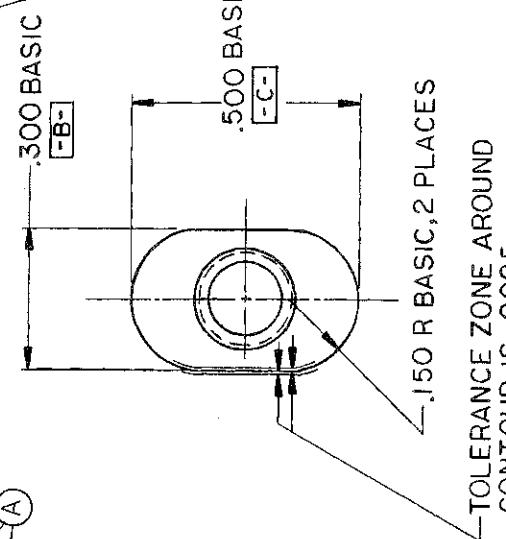
1. FINISH 125/.
2. ALL DIMENSIONS APPLY BEFORE FINISH.
3. FINISH: MIL-A-8625, TYPE 3, CLASS 2, FILM THICKNESS .0010 ± .0002. FINISH SHALL BE LUSTERLESS (FLAT), APPROX BLACK, NO. 37038, TABLE IX, BUT NOT LIGHTER THAN GRAY, NO. 36076, TABLE VIII OF FED-STD-595, AND SEAL.
4. MIL-W-13855 APPLIES.

C

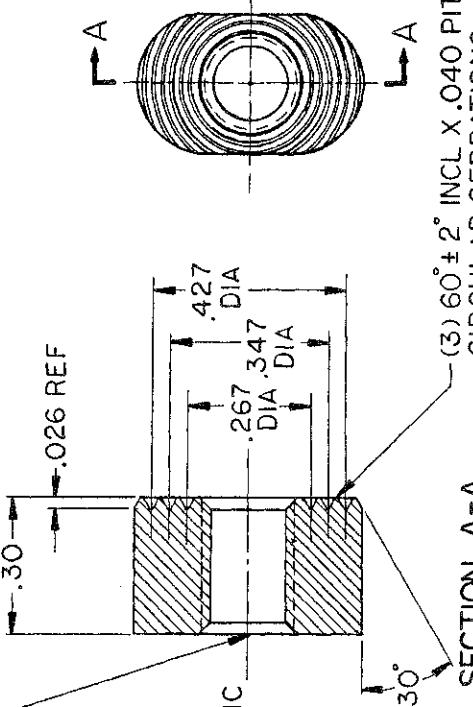
B

A

CSK BOTH ENDS $90^\circ \pm 4^\circ$ TO .25 DIA +.015.
THREAD DIMENSIONS AFTER FINISH
TO CONFORM TO 10-32 UNF-2B
MINOR DIA .156/.164
PITCH DIA .1697/.1736
MAJOR DIA .190 MIN.
 \oplus B.010 TOTAL
 \oplus C.010 TOTAL



TOLERANCE ZONE AROUND CONTOUR IS .0025.



SECTION A-A

C 8448636 B

C

B

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		REVISIONS		
MF	ZONE/LTR	DESCRIPTION	DATE	APPROVED
		REDRAWN FROM COLT'S DRAWING DRAWING B62496 REV A	27 APR 70	
M	-	(3) SEE ERR HQR 20778	6 OCT 72	J.P. Schleifer
	B	NOR W952009 80-02-13	80-05-16	J.P. Schleifer
	C	NORGOS3102/900528	301022	#5 PBS
D		NORGIS2016 91-02-08	91-03-11	RR-SL
E		NOR G6S2008 960328	960523	RLV

D

E

C

B

A

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND DOVER, NEW JERSEY 07801		CODE IDENT NO. 19200
DEPT. OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201		
CIRCUM T CODE IDENT NO. 19200		
BUTTON, MAGAZINE RELEASE		
SIZE CODE IDENT NO. DRAWING NO. C 19204 8448636		
APPROVED J.D. Henney		
SCALE 5/1 SHEET 1 OF 1 CDI		

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO.
VS MAX	VS MIN	ANGLES ° 1 PLACE DECIMALS ± .005 2 PLACES DECIMALS ± .01	
EL2			DATE 27 APR 1970
KA			PREPARED J.P. Schleifer
BH			CHECKED J.P. Schleifer
RH			ENGINEERED J.P. Schleifer
			SUBMITTED J.P. Schleifer
			APPROVED J.P. Schleifer
			NEXT ASSY USED ON
			APPLICATION

QUALITY ASSURANCE PROVISIONS (QAP) - (CONTINUATION SHEET)
(DARCOM-R 702-10)

3. NOTICE: RESTRICTED AS TO USE AND DISCLOSURE (see page 1)

PART III. INSPECTION REQUIREMENTS

TABLE I. CLASSIFICATION OF QUALITY CONFORMANCE CHARACTERISTICS

100% examination shall be performed for critical characteristics unless otherwise stated. Examination for major and minor characteristics shall be performed in accordance with the classification of quality conformance characteristics contained herein. Inspection Level II shall be used and individual AQL's applied in accordance with MIL-STD-105.

<u>CLASS</u>	<u>CHARACTERISTIC</u>	<u>AQL OR 100%</u>	<u>INSPECTION METHOD</u>
<u>CRITICAL:</u>	None defined		
<u>MAJOR:</u>			
101.	.590 Length	0.65	SMTE
102.	.460 Width	0.65	SMTE
<u>MINOR:</u>			
201.	Hardness	1.5	SMTE
202.	.116 Height .279R (ref)	1.5	SMTE
203.	.010 Maximum mismatch .125R (4 places)	1.5	Visual
204.	AA63 Surface roughness	1.5	ANSI-B36.1
205.	Defective protective coating	1.5	Visual
206.	Workmanship (See MIL-W-63150)	2.5	Visual

PART IV. CERTIFICATION PROVISIONS

The certification provisions of MIL-W-63150 for Certificate of conformance shall apply. Certification of Conformance are required for the following:

<u>NUMBER</u>	<u>CHARACTERISTIC</u>	<u>TEST DATA TO COMPLY WITH</u>
301	Material	Dwg. 8448536, Note 1
302	Phosphate Coating	DOD-P-16232
303.	Supplementary Oil	MIL-L-3150 & FED-STD-791

PART V. TEST METHODS AND PROCEDURES

None Required

16. REVISION SYMBOL AND DATE	E841126	F880218	G920910			ORIG CODE IDENT 19204	CAGE CODE 19200
							10. QAP NO. 8448536
							14. PAGE NO. 3

QUALITY ASSURANCE PROVISIONS (QAP) - (CONTINUATION SHEET)
(DARCOM-R 702-10)

3. NOTICE: RESTRICTED AS TO USE AND DISCLOSURE (see page 1)

SPECIFICATIONS

MIL-L-3150	Lubricating Oil, Preservative, Medium
DOD-P-16232	Phosphate Coatings, Heavy, Manganese or Zinc Base (For Ferrous Metals)
MIL-W-63150	Weapons and Support Material, Standard Quality Assurance Provisions
ANSI-B46.1	Surface Texture (Surface Roughness, Waviness & Lay)

PART II. QUALITY PROVISIONS

1. Responsibility for Inspection. Unless otherwise specified in the contract, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

2. First Article Inspection.

2.1 Submission. Unless otherwise specified in the contract, a first article sample consisting of five (5) QAP items shall be submitted for inspection, testing and approval in accordance with the terms of the contract. As determined by the Government, the sample items may be subjected to any or all of the examinations and tests specified in this QAP and be inspected for compliance with any of the requirements.

2.2 Rejection. If any sample item fails to comply with any of the applicable requirements, the first article sample shall be rejected. The Government reserves the right to terminate inspection upon any failure to comply with any of the requirements.

3. Quality Conformance Inspection.

3.1 Quality Conformance Inspection shall consist of inspection of all characteristics contained in Part III "Inspection Requirements" and Part IV "Certification Provisions" of this QAP.

3.1.1 All other quality characteristics not specifically listed herein are subject to inspection under the contractor's quality or inspection system.

16. REVISION SYMBOL AND DATE	E841126	G920910	ORIG CODE IDENT 19204			CAGE CODE 19200
			10. QAP NO. 8448536	14. PAGE NO. 2		

QUALITY ASSURANCE PROVISIONS (QAP)
(DARCOM-R 702-10)

1. COMMAND AGENCY:

U. S. ARMY ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
 PICATINNY ARSENAL, N.J. 07806-5000

2. THESE QAP'S FORM PART OF DRAWING/SPECIFICATION 8448536 AS SPECIFIED IN THE CONTRACT.
INSPECTION SHALL BE CONDUCTED AS SPECIFIED HEREIN AND IN ACCORDANCE WITH REFERENCED DOCUMENTS.

3.

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Unless otherwise specified herein or in the contract, the provisions of MIL-W-63150 shall apply and are made part of this detail QAP.

PART I. LIST OF APPLICABLE DOCUMENTS

DRAWINGS

B8448536 Spring, Rear Sight

STANDARDS

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

FED-STD-791 Lubricants, Liquid Fuels & Related Products, Methods of Testing

DISTRIBUTION STATEMENT F. Further distribution only as directed by ASQNC-AR or higher DoD authority 92-06-22.

REVISIONS

4. RELEASE NUMBER	50625	W2S0015	G7S3140	W6S0120				
5. DATE	750430	841126	880218	920910				
4. RELEASE NUMBER								
5. DATE								
REVISION STATUS OF SHEETS	6. REVISION G	G	G					
	7. SHEET 1	2	3					
6. REVISION								
7. SHEET								
8. QAP FOR: Spring, Rear Sight - used on M16/M16A1 Rifle							ORIG CODE IDENT 19204	CAGE CODE 19200
9. SUBMITTED BY	<i>TJZ Cull</i>						10. QAP NO.: 8448536	
11. DATE: 700528	12. APPROVED: <i>R.Lee</i>		13. RELEASE NO. 05105		14. PAGE NO.: 1	15. NO. OF PAGES: 3		

PARTS LIST	PL-8448638	ROCK ISLAND ARSENAL	REV. DATE 16 APR 76		
DOCUMENT/PART NUMBER	B 8448638	ROCK ISLAND IL	REVISION LETTER A		
CATCH. MAGAZINE			SHEET 1		
CHANGE CONTROL NUMBER	76Y0018	AUTHENTICATION-	ORIG. DATE 27 APR 70		
FND	QTY	UNIT CODE	PART OR DRAWING/DOCUMENT	NOMENCLATURE OR DOCUMENT TITLE	SUP LST
NO.	REQ	MEAS	ID	IDENTIFYING NO.	SIZE NUMBER
1				C 8448639	PLATE, MAGAZINE CATCH
				C 8448640	SHAFT, MAGAZINE CATCH
TOTAL NUMBER OF SHEETS 1					

AR - AS REQUIRED, ALT - ALTERNATE, OPT - OPTIONAL, SO - SELECTION OPTIONAL

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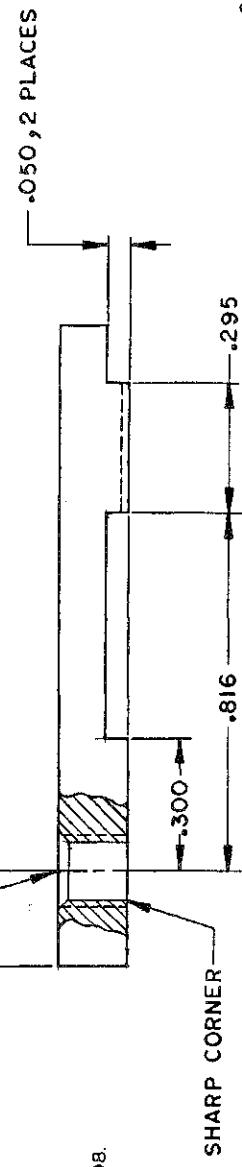
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NOTES:

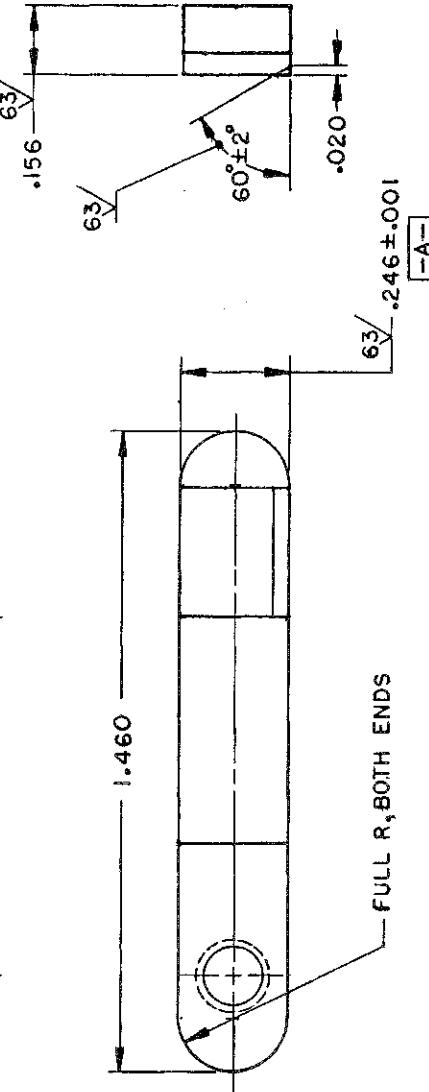
1. FINISH $125/125$ EXCEPT AS NOTED.
2. BREAK ALL SHARP EDGES .005 + .005 EXCEPT AS NOTED.
3. CARBURIZE .010 TO .015 TOTAL CASE DEPTH. $.220 \pm .003$
4. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED. \Rightarrow A
5. MIL-W-13855 APPLIES.
6. MATERIAL: STEEL, CMPSN 1018, PER ASTM-A108.
ALTERNATE MATERIAL: STEEL, AISI 8620 PER
ASTM-A322 OR ASTM-A505.

90° C SINK TO .180 DIA + .005
ONE SIDE ONLY
TAP THRU 8-32 UNC-2B THREAD
MINOR DIA .130 / .139
PITCH DIA .1437 / .1475
MAJOR DIA .1640 MIN
 \equiv A .005 TOTAL

(A)



SHARP CORNER



REVISONS	DESCRIPTION	DATE APPROVED
MF	ZONE LTR	REDRAWN FROM COLT'S DRAWING
26		27 APR 70
C		
M	A	C61605 REVISION B
		4/25/70
		SEE ERR HQR 20778
	B	NOR W 952002 80-02-15
		80-05-16
		REF 54
D		91-10-11
		REF 54
	C NOR G3S2018 91 07 08	
	D NOR G3S3100 931025	931217
	E NOR G633034 960523	960703
		FET

CURRENT DESIGN ACTIVITY	CODE	CONTRACT NO.
DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PIATTSVILLE ARSENAL, NEW JERSEY 07806-5000		

PLATE, MAGAZINE
CATCH

SIZE	CODE IDENT NO	DRAWING NO.
C	19204	8448639

SHEET 5 / 1

CDI

(A)

UNLESS OTHERWISE SPECIFIED		CONTRACT NO.
TO ENCLAS		
ANGLES		
2 PLACE DECIMALS $\pm .005$		
2 PLACE DECIMALS $\pm .005$		
MATERIAL		
EL2	8448638 M4	DATE 27 APR 1970
RA	B8448638 M231	PREPARED BY <i>G.A.</i>
RH	B8448638 M16	CHEKED BY <i>J.W.</i>
RH 15N099	SEE NOTE 6	ENGINEERED BY <i>J.W.</i>
		SUBMITTED BY <i>J.W.</i>
		APPROVED BY <i>P.B. Sherry</i>
		APPLIED BY <i>C.J. Henney</i>

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NOTES :—

D 1—SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.
2—MATERIAL :—

A. SCREW — STEEL WIRE OR ROD, CMPSN 1010 THRU
1018 OR 1018, SPEC. ASTM A108.

B. ELEMENT — MUST MEET THE PERFORMANCE REQUIREMENTS
OF MIL-F-18240 CONFIGURATION A OR B PATCH. LOCATION
OF ELEMENT SHALL BE WITHIN THE DIMENSIONAL
LIMITATIONS OF STANDARD MS 15981.

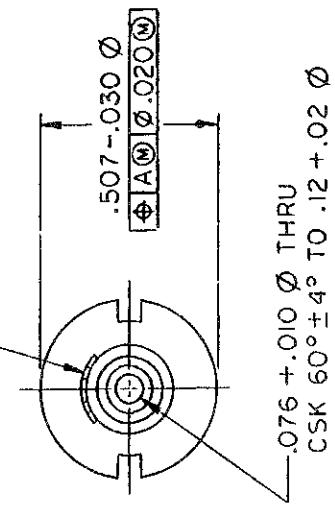
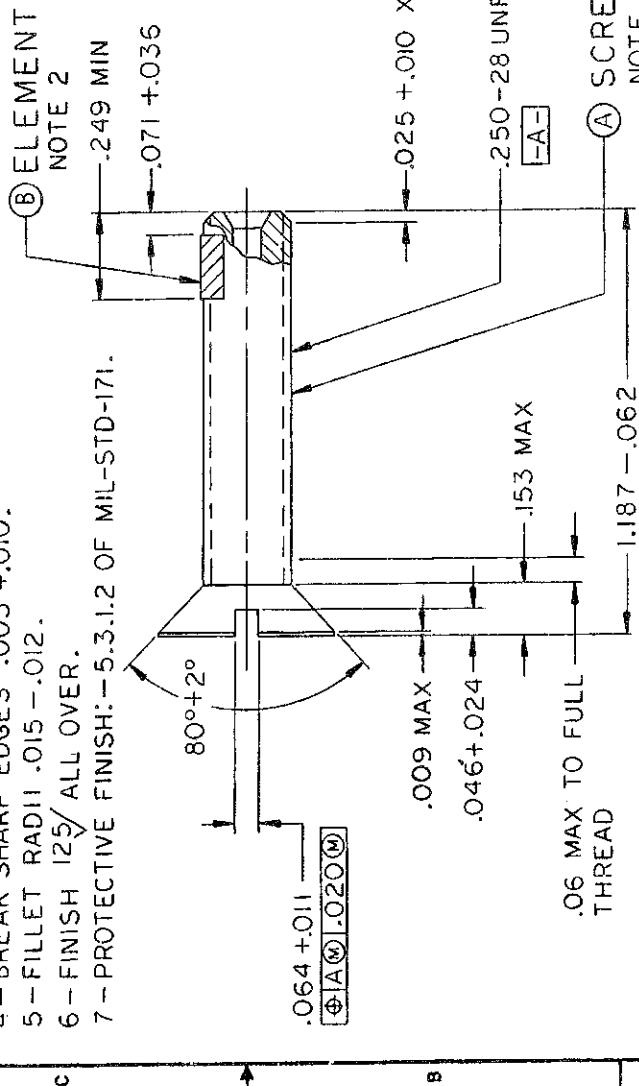
C 3—COVERAGE OF ELEMENT TO BE 90° MIN OF THREADED DIA.
RANDOM RADIAL LOCATION OF ELEMENT.

4—BREAK SHARP EDGES .005 +.010.

5—FILLET RADI 1 .015 — .012.

6—FINISH 125/ ALL OVER.

7—PROTECTIVE FINISH:— 5.3.1.2 OF MIL-STD-171.



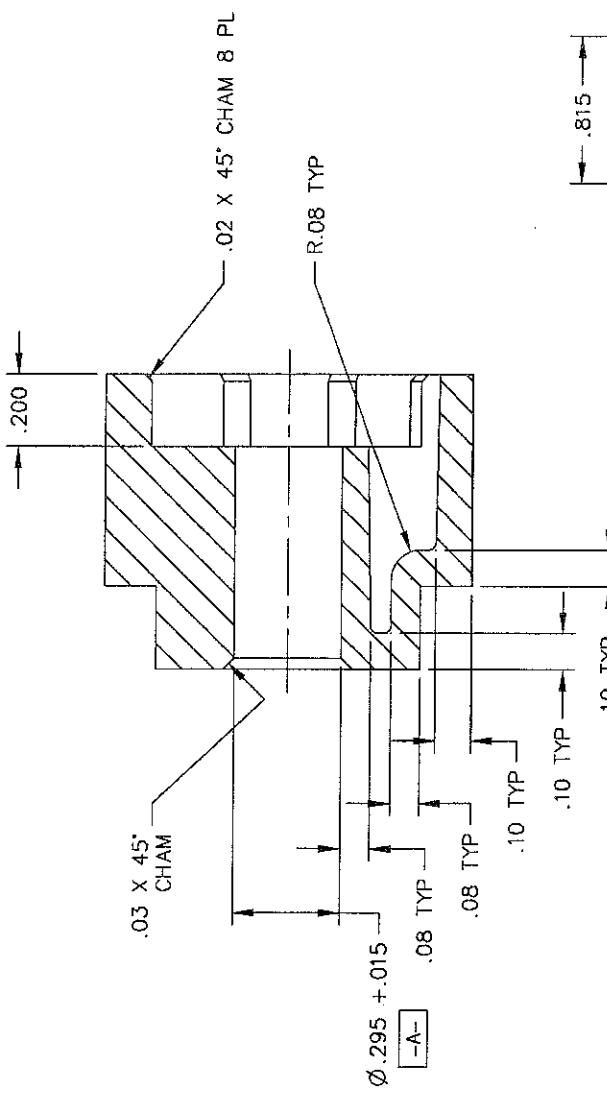
PART NO. 9349128

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

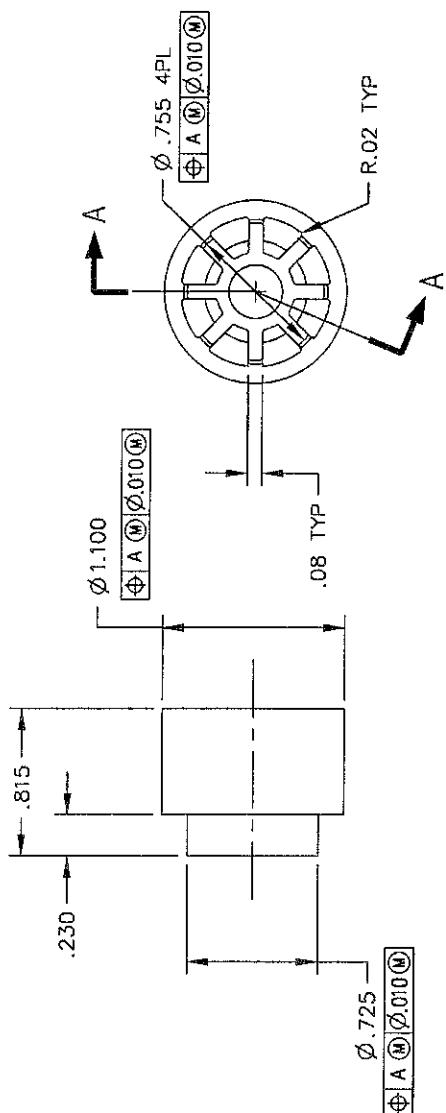
SCREW, BUTT CAP

APPLICATION		SIZE FSCM NO.	SCREW NO.	SCALE	UNIT WT.	SHEET 1 OF 1
			C 19200	9349128		

REVISIONS		DATE	APPROVAL
SYM	DESCRIPTION		
H	THIS SHEET ADDED NOR G6S9003/960722	961113	MG



SECTION A-A



ALTERNATE PLASTIC MOLDED CONFIGURATION

PART NO.12597640

**U.S. ARMY
DEVELOPMENT AND ENGINEERING CENTER
NEW JERSEY 07801-8001**

SPACER, BUTTCAP

40

10

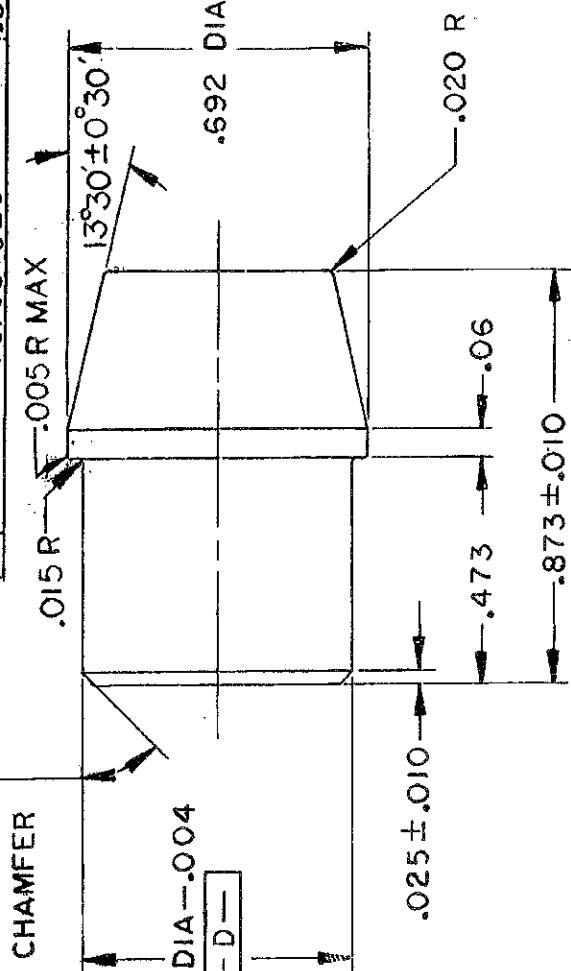
MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 96-11-13		U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER DOVER, NEW JERSEY 07801-5002	
YP		TS		DRAFTSMAN EJL	CHECHER MG	SPACER, BUTTCAP	
EL2		RA		ENGR	ENGR		
RA		SH		ENGR	ENGR		
SH							
NEXT AS Y	USED ON RH						
APPLICATION							

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NOTES:

1. RUBBER, POLYETHER URETHANE, A
CASTABLE, SHORE A DUROMETER
 95 ± 3 .
CHAMFER
 $30^\circ \pm 5^\circ$
2. RESILIENCE WHEN TESTED PER
ASTM D2632 SHALL BE 40 ± 4 .
3. NO PARTING LINE PERMISSIBLE .578 DIA-.004
ON [-D-].
4. ALL DIAMETERS $\oplus .005$ DIA.
5. MIL-W-13855 APPLIES.



REVISONS	
M	REDRAWN FROM COLT'S DRAWING
	C62384; REVISION A
A	SEE ERA HGP 20651
B	SEE ERR HOR 20778
C	SEE ERR HOR 30660
D	(2) SEE ERR HOR 40620
E	1201100205
F	NORGIS2013/91 07 08
G	NOR G3331057931025

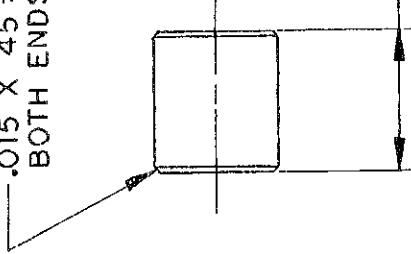
CURRENT DESIGN ACTIVITY FSCM NO. 19200		U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER	
MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO	DOVER, NEW JERSEY 07801
VS	TOLERANCES:	DATE	DEPT OF THE ARMY
MIN	ANGLES \pm	27 APR 1970	ROCK ISLAND ARSENAL
VS	3 PLACE DECIMALS $\pm .005$	PREP	ROCK ISLAND, ILLINOIS, 61201
MAX	2 PLACE DECIMALS $\pm .005$	CHK	
EL2	MATERIAL	ENGR	BUMPER, BUFFER
RA	SEE NOTE 1	SUBMITTED	SIZE CODE IDENT NO. DRAWING NO.
BH	C8448615 MIGA1	APPROVED	B 19204 8448619
RH	NEXT ASSY USED ON APPLICATION	CDI	SCALE 4 / 1 SHEET 1 OR 1

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NOTES:

1. STEEL, CMPSN 1013, 1015, 1213 OR
1215, ASTM A108
2. FINISH $12\frac{1}{2}^{\circ}$ EXCEPT AS
NOTED.
3. MIL-W-13855 APPLIES. (A)

.015 X $45^{\circ} \pm 2^{\circ}$ CHAMFER
BOTH ENDS



$.613 \pm .003$

$\sqrt{.005}$
.1 B .005

$63\frac{1}{2} .547$ DIA -.004

— B —



REVISIONS		DATE	APPROVED
MF ZONE LTR	REDRAWN FROM COLT'S DRAWING	27 APR 70	
	B62342 REVISION B		
A	(2) SEE ERR HQR 20778	6 OCT 72	GR
B	NOR W9S2009-80-02-13	80-05-16	BB
C	ERR 7921182AU (ECP GBS3115 drawing)	20-05-24	BB
D	NOR GIS2018 91 07 08	91-10-11	BB
E	NOR G3S3118 931130	940517	BB

NOTES:
1. STEEL, CMPSN 1013, 1015, 1213 OR
1215, ASTM A108

2. FINISH $12\frac{1}{2}^{\circ}$ EXCEPT AS
NOTED.

3. MIL-W-13855 APPLIES. (A)

4. .015 X $45^{\circ} \pm 2^{\circ}$ CHAMFER
BOTH ENDS

5. $.613 \pm .003$

6. $\sqrt{.005}$
.1 B .005

7. $63\frac{1}{2} .547$ DIA -.004

8. — B —

9. 17484485

10. DEPT. OF THE ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

11. U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801 CURRENT
CODE IDENT NO. 19200

12. WEIGHT, BUFFER
SIZE CODE IDENT NO. DRAWING NO.
B 19204 8448617

13. UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGLES: $\pm .005$
3 PLACE DECIMALS: $\pm .005$
2 PLACE DECIMALS: $\pm .05$

MECHANICAL PROPERTIES				CONTRACT NO	
YS MIN				DATE	27 APR 1970
MAX				PREP	RS
EL2 RA	9390023 M4	M16	M16A1	CHK	BB
BH RH	C8448615	SEE NOTE 1		ENGR	BB
	USED ON			SUBMIT BY P. Hallberg	
	FINAL PROTECTIVE FINISH			APPROVED	
	5-3-12			P. Hallberg	
	APPLICATION	MIL-STD-171		CDI	

14. DISTRIBUTION STATEMENT F
DISTRIBUTION IS AUTHORIZED TO DOD AGENCIES AND DOD QUALIFIED US
ORDNANCE CONTRACTORS. FURTHER DISSEMINATION ONLY AS DIRECTED
BY COMMANDER ARDEC ATTN: SMCAF, FSD, PICATINNY ARSENAL, NJ
07806-5000. THIS TECHNICAL DATA PACKAGE CONTAINS SENSITIVE TECHNOLOGY
ON A NEW WEAPON SYSTEM. THIS DETERMINATION WAS MADE ON
JULY 1987.

15. AMSWE Form 403B, 29 Jul 69

16. October 15, 2004 11:12 AM

	5	4	3	2	1																																								
D	<p>NOTICE RESTRICTED AS TO USE AND DISCLOSURE</p> <p>This notice documents information that is proprietary to COMTEC, INC. and shall not be released to any other person, firm, or organization, or otherwise used except to the extent necessary for and then only in connection with the preparation and/or submission of proposals related to a procurement being effected by the United States Government Department of Defense or a Contracting Agent of the United States Government. This notice is issued under authority of the Defense Acquisition Regulation, and is not to be disposed of or reproduced in accordance with instructions issued by the responsible contracting officer upon completion of the purpose for which it was issued.</p>																																												
C	<p>NOTES:</p> <ol style="list-style-type: none"> 1. MATERIAL:- RUBBER, SYNTHETIC, CLASS I, GRADE 70, SPEC MIL-R-6855. VALCANIZED RUBBER SHALL NOT INITIATE CORROSION UPON THE METALS THAT IT COMES INTO CONTACT. 2. MIL-W-13855 APPLIES. 																																												
B	<p>.540 DIA-.020</p> <p>.071</p>																																												
A	<p>DISC, BUFFER</p> <table border="1"> <thead> <tr> <th colspan="2">MECHANICAL PROPERTIES</th> <th colspan="2">UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</th> <th>CONTRACT NO</th> </tr> </thead> <tbody> <tr> <td>YS MIN</td> <td></td> <td>TOLERANCES :</td> <td>ANGLES : _____</td> <td>DATE 27 APR 1970</td> </tr> <tr> <td>YS MAX</td> <td></td> <td></td> <td>3 PLACE DECIMALS : <u>.005</u></td> <td>PREP <u>RGT</u></td> </tr> <tr> <td>EL2 RA</td> <td></td> <td></td> <td>2 PLACE DECIMALS : <u>_____</u></td> <td>CHK <u>AS</u></td> </tr> <tr> <td>BH RH</td> <td></td> <td>MATERIAL :</td> <td>MATERIAL :</td> <td>ENGR <u>_____ _____ _____ _____</u></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">SEE NOTE 1</td> <td>SUBMITTED <u>P. Yellow</u></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">NEXT ASSY USED ON FINAL PROTECTIVE FINISH</td> <td>APPROVED <u>K. J. Henney</u></td> </tr> <tr> <td colspan="2"></td> <td colspan="2">APPLICATION</td> <td>SCALE 2/1 SHEET 1 OR 1</td> </tr> </tbody> </table> <p>AMSW Form 403B, 29 Jul 69</p>					MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO	YS MIN		TOLERANCES :	ANGLES : _____	DATE 27 APR 1970	YS MAX			3 PLACE DECIMALS : <u>.005</u>	PREP <u>RGT</u>	EL2 RA			2 PLACE DECIMALS : <u>_____</u>	CHK <u>AS</u>	BH RH		MATERIAL :	MATERIAL :	ENGR <u>_____ _____ _____ _____</u>			SEE NOTE 1		SUBMITTED <u>P. Yellow</u>			NEXT ASSY USED ON FINAL PROTECTIVE FINISH		APPROVED <u>K. J. Henney</u>			APPLICATION		SCALE 2/1 SHEET 1 OR 1
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		APPLICATION		SCALE 2/1 SHEET 1 OR 1																																									
C	<p>B8448618</p> <p>REVISIONS</p> <table border="1"> <thead> <tr> <th>MF-ZONE LTR</th> <th>DESCRIPTION</th> <th>DRAWING</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td></td> <td>REDRAWN FROM COLTS</td> <td></td> <td>27 APR 70</td> <td></td> </tr> <tr> <td></td> <td>B62343</td> <td>REVISION A</td> <td></td> <td></td> </tr> <tr> <td></td> <td>A</td> <td>(1) SEE EO HRD 02197-3</td> <td>15 JUL 70</td> <td><u>SPS</u></td> </tr> <tr> <td></td> <td>B</td> <td>(1) SEE ERR HQR 20778</td> <td>6 OCT 72</td> <td><u>CRS</u></td> </tr> <tr> <td></td> <td>C</td> <td>MODEL 230026</td> <td>82-05-21</td> <td>82-02-03 CHX/RJG</td> </tr> <tr> <td></td> <td>D</td> <td>NORGIS2018</td> <td>91 07 08</td> <td>91-10-11 RJS</td> </tr> <tr> <td></td> <td>E</td> <td>NOR 69S3108</td> <td>891117</td> <td>970303 JB</td> </tr> </tbody> </table>					MF-ZONE LTR	DESCRIPTION	DRAWING	DATE	APPROVED		REDRAWN FROM COLTS		27 APR 70			B62343	REVISION A				A	(1) SEE EO HRD 02197-3	15 JUL 70	<u>SPS</u>		B	(1) SEE ERR HQR 20778	6 OCT 72	<u>CRS</u>		C	MODEL 230026	82-05-21	82-02-03 CHX/RJG		D	NORGIS2018	91 07 08	91-10-11 RJS		E	NOR 69S3108	891117	970303 JB
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B	<p>CURRENT DESIGN ACTIVITY</p> <p>FSCM NO. 19200</p> <p>U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER</p> <p>DOVER, NEW JERSEY 07801</p>																																												

CDI

October 15, 2004 11:12 AM

NOTE:

1. AL ALLOY; 7075-T6 OR
T651; COLD DRAWN PER
QQ-A-225/9 OR AL ALLOY
7075-T6 OR T651O,
EXTRUDED. PER QQ-A-200/11.
2. FINISH 125.

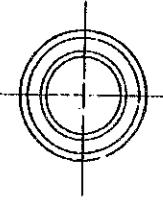
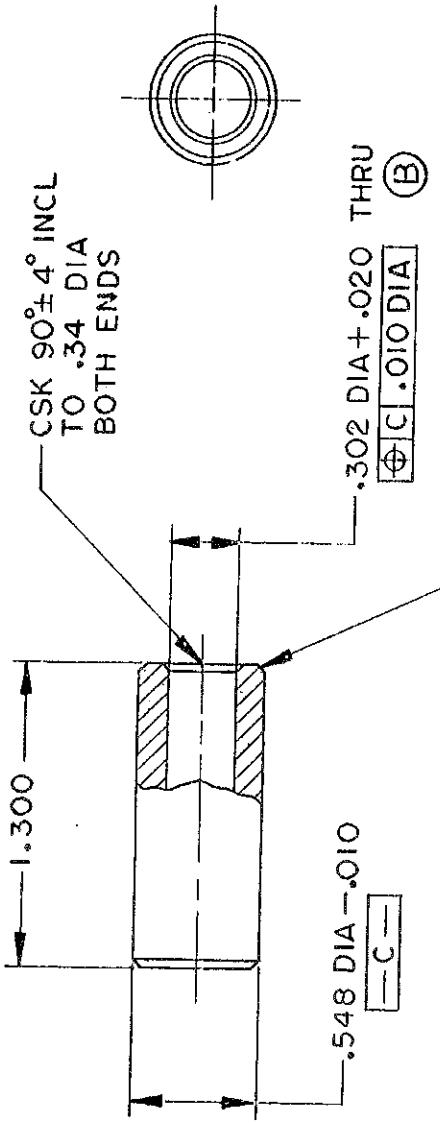
3. ALL DIMENSIONS APPLY BEFORE FINISH.

4. FINISH MIL-A-8625, TYPE III, CLASS I, FILM THICKNESS $.0010 \pm .0002$.

5. MIL-W-13855 APPLIES.



REVISIONS			
ME.	ZONE LTR	DESCRIPTION	DATE APPROVED
M.		REDRAWN FROM CGLT'S DRAWING B62412 REVISION A	27 APR 70
M.	A	(2) SEE HQR 10689	26 APR 71 <i>B</i>
M.	B	SEE ERR HQR 20778	6 OCT 72 <i>R.C.</i>
M.	C	HQR 10689 REVISION C	83-05-21 <i>RECD 10/10/83</i>



.015 X 45°± 2° CHAMFER
BOTH ENDS

CURRENT DESIGN ACTIVITY FSCM NO. 19200
U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER

188 *Journal*

ARMAMENT RESEARCH & DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801-5001

PARTS LIST PL-8448615 DOCUMENT/PART NUMBER C 8448615

CURRENT FSCM NO. 19200 - ORIGINAL FSCM NO. 19204

REV. DATE 25 Oct 85

CHANGE CONTROL NUMBER WSS 2023 AUTHENTICATION- Edward Gossen

REVISION LETTER C-1

ORIG. DATE

FND QTY UNIT FSCM PART OR DRAWING/DOCUMENT NOVENCLATURE OR DOCUMENT TITLE SUP LST

NO. REQ. MEAS. NO. IDENTIFYING NO. SIZE NUMBER

8448521-1 8 8448521 PIN, SPRING

1 8448616 D 8448616 BODY, BUFFER

5 8448617 B 8448617 WEIGHT, BUFFER

5 8448618 B 8448618 DISC, BUFFER

1 8448619 B 8448619 BUMPER, BUFFER

1 8448620 B 8448620 SPACER, BUFFER

TOTAL NUMBER OF SHEETS 1

AR = AS REQUIRED, ALT = ALTERNATE, OPT = OPTIONAL, SD = SELECTION OPTIONAL

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NOTE:

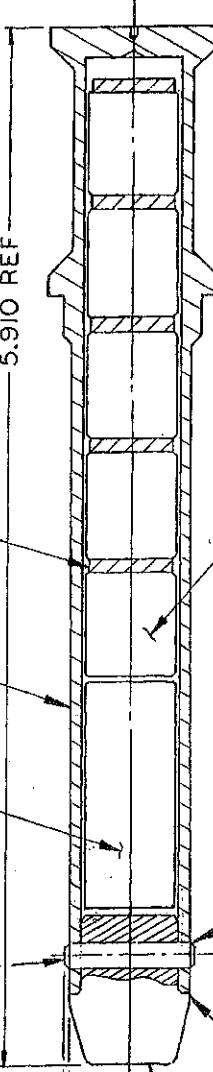
1. VAPOR DEGREASE COMPONENTS NOTED.
2. INTERNAL COMPONENTS AND INTERIOR OF BUFFER BODY MUST BE FREE OF CHIPS AND/OR FOREIGN MATERIAL WHEN ASSEMBLED.

PIN, SPRING - 8448521-1
ASSEMBLE AS SHOWN

SPACER, BUFFER — 8448620
NOTE 1 APPLIES

BODY, BUFFER — 8448616
NOTE 1 APPLIES

5 - DISC, BUFFER — 8448618
NOTE 1 APPLIES



5 - WEIGHT, BUFFER — 8448617
NOTE 1 APPLIES

5.910 REF
PIN, SPRING SLOT TO BE
0° +90° FROM POSITION
SHOWN

120 +.004 DIA THRU BUMPER BUFFER-8448619
AT ASSEMBLY USING HOLES IN BUFFER BODY
8448616 FOR LOCATION

4. MIL-W-13855 APPLIES.

.025 MAX
BOTH ENDS

BUMPER, BUFFER
8448619

(B) AFTER ASSEMBLY
NO GAP PERMISSIBLE

DISTRIBUTION STATEMENT E. FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASQNC-AIR OR HIGHER DOD AUTHORITY: 92-06-22

SEE PL-8448615

CURRENT DESIGN ACTIVITY
FSCM NO. 19200
U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER

DOVER, NEW JERSEY 07801
DEPT. OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

BUFFER ASSEMBLY

SHEET	OF	SIZE	CODE IDENT NO.	DRAWING NO.
2	1	SCALE	C 19204	8448615

ITEM	DESCRIPTION	NUMBER	DESCRIPTION
1	PRODUCTION RELEASE	RJ0144	and others
2	CHRONOGRAM 2013	RJ0145	
3	A NOR 25 25/50	RJ0146	and others
4	B NOR 25 25/50	RJ0147	and others
5	C NOR 25 25/50	RJ0148	and others
6	D NOR 25 25/50	RJ0149	and others
7	E NOR 25 25/50	RJ0150	and others
8	F NOR 25 25/50	RJ0151	and others
9	G NOR 25 25/50	RJ0152	and others
10	H NOR 25 25/50	RJ0153	and others
11	I NOR 25 25/50	RJ0154	and others
12	J NOR 25 25/50	RJ0155	and others
13	K NOR 25 25/50	RJ0156	and others
14	L NOR 25 25/50	RJ0157	and others
15	M NOR 25 25/50	RJ0158	and others
16	N NOR 25 25/50	RJ0159	and others
17	O NOR 25 25/50	RJ0160	and others
18	P NOR 25 25/50	RJ0161	and others
19	Q NOR 25 25/50	RJ0162	and others
20	R NOR 25 25/50	RJ0163	and others
21	S NOR 25 25/50	RJ0164	and others
22	T NOR 25 25/50	RJ0165	and others
23	U NOR 25 25/50	RJ0166	and others
24	V NOR 25 25/50	RJ0167	and others
25	W NOR 25 25/50	RJ0168	and others
26	X NOR 25 25/50	RJ0169	and others
27	Y NOR 25 25/50	RJ0170	and others
28	Z NOR 25 25/50	RJ0171	and others

SAMPLE FURNISHED
MOVED BY THE
CITY.

EDITORIAL ACTIVITIES

**EXTERIOR CONTRACT
BY THE CONTRACT
GOVERNMENT TECH**

10

10

10

2 PLACES
23-2018

4

10

-14 PITCH CHECKERING X 90° INC.

1

100

-D- $1483 \pm .005$ $383 \pm .008$ PERMISSIBLE
IN THIS AREA OF SLOT

The technical drawing shows a rectangular component with a central slot. Two 'C' shaped cutouts are located at the left and right ends of the rectangle. The width of the central slot is indicated as $.67\pm.01$. The distance from the center of the slot to each end is indicated as $.06\pm.01$ R, with the note '2 PLACES'. The overall width of the component is indicated as $.06\pm.01$ R, with the note '2 PLACES'.

SECTION C-C

F-2 / 2

PART NO 9349127		UPC NUMBER 02-05-06	
DODI SOURCE DOCUMENTATION		DATE OF ISSUE 06/06/06	
DATA SHEET NUMBER 02-05-06		EXPIRE DATE 06/06/06	
NAME OF CONTRACTOR OR SOURCE		NAME OF CONTRACTOR OR SOURCE	
THE UNITED STATES GOVERNMENT		THE UNITED STATES GOVERNMENT	
ADDRESS		ADDRESS	
1000 K ST. NW SUITE 1000 WASHINGTON, DC 20004		1000 K ST. NW SUITE 1000 WASHINGTON, DC 20004	
TELEPHONE		TELEPHONE	
FAX		FAX	
E-MAIL		E-MAIL	
WEBSITE		WEBSITE	
APPLICATOR		APPLICATOR	
GRIP, PISTOL		FSCA NO. 19200	
3349127		DATE 06/06/06	
SHEET 1		SHEET 1	

7

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14

NOTES—
1.—SPEC MIL-W-13855 AND ANSI Y14.5-73 APPLY.

2.—MATERIAL: PLASTIC COMPOUND PER ASTM D406, PB 462, TABLE IX, BUT NOT LIGHTER THAN GRAY, APPROX BLACK, NO. 3702B.
FILLED TO MAX. 10% BY VOLUME.

3.—BREAK, SHARP EDGES, .010±.005 UNLESS OTHERWISE NOTED.

4.—FILLET RADIUS .009±.006 UNLESS OTHERWISE NOTED.

5.—REMOVE ALL FLASH.

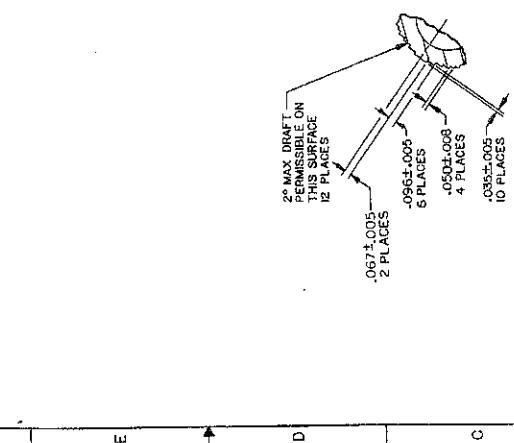
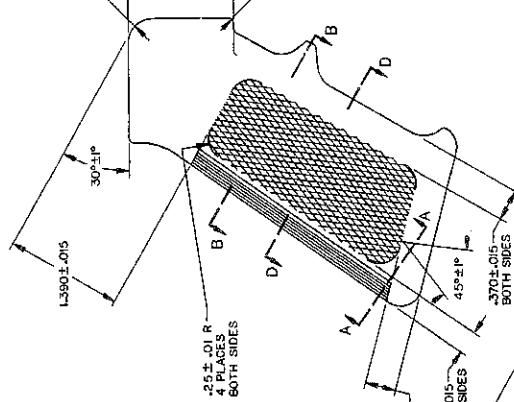
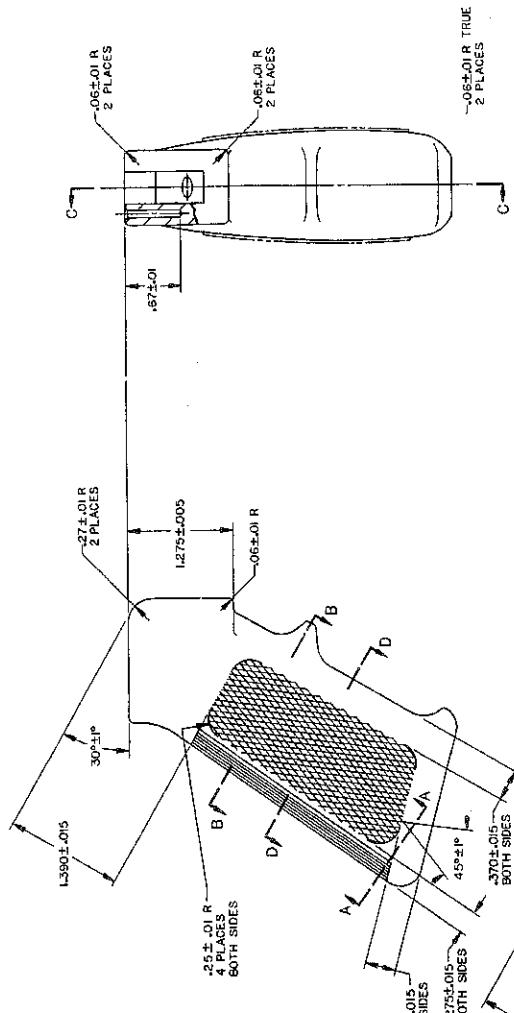
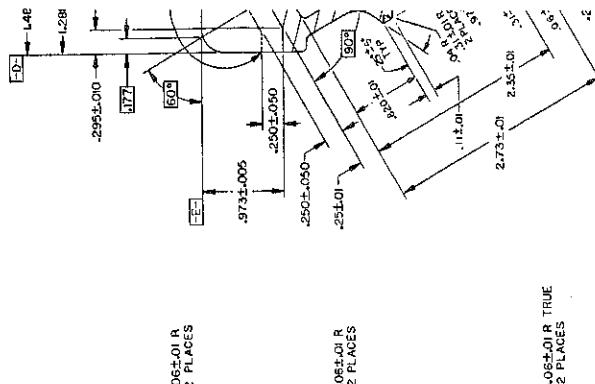
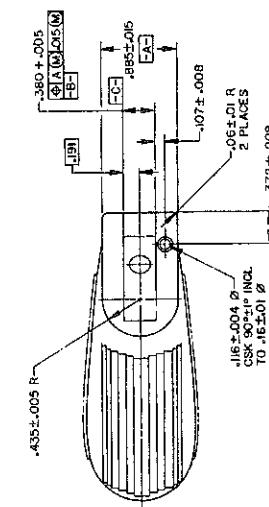
6.—PART SHALL BE FREE FROM POROSITY, CRACKING,

7.—FINISH: EXTERNAL SURFACES MUST HAVE DULL

MATTE FINISH.

B.—FINISH $\frac{1}{12}$ ALL SURFACES UNLESS OTHERWISE NOTED.

C.—SPEC MIL-W-13855 AND ANSI Y14.5-73 APPLY.



J 0 3 4 9 1 2 7

F-1 / 2
R E V. J

WEAPON MFR'S IDENTIFICATION
SYMBOL: "J-5" IN HIGH, "J-2" IN LOW
POSITION OR IDENTIFY, IN APPROX
POSITION SHOWN.

.261±.015 @ THRU
SLOT E-E .010 in.

.39±.01 R TRUE
2 PLACES

.31±.01 R
2 PLACES

.39±.01 R TO THEORETICAL
SHARP CORNER

.18±.01 R
2 PLACES

.25±.01 R
2 PLACES

.39±.01 R TRUE
2 PLACES

.31±.01 R
2 PLACES

.39±.01 R TRUE
2 PLACES

.31±.01 R
2 PLACES

.39±.01 R TRUE
2 PLACES

A

October 15, 2004 11:13 AM

Spec. No. 9349127 Rev. J

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				REVISONS		
	MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
D			B	REPLACES REV A W/CHANGE SEE ERR HQR 20778	6 OCT 72	J. B. J. B.
		C	NOR W952009	80-02-13	80-05-16	J. B.
		D	NORM252C15	82-08-20	83-02-03	J. B.
		E	NOR W250011 CECP W3S3120	/82-04-13 /83-07-07	82-11-04	J. B.
		F	NOR W5S8004	860204	890215	J. B.

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER 0.340±0.005
COIL DIAMETER (OD) 300 MAX
FREE LENGTH 1579 REF
TOTAL COILS 15 REF
DIRECTION OF HELIX OPTIONAL
LOAD AT COMPRESSED LENGTH 5.644
LOAD AT COMPRESSED LENGTH OF 902
SPRING RATE 7.0LB ± .7LB
SOLID LENGTH 5.0LB ± .5LB
TYPE OF ENDS 7.5L B/YIN REF
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

2. PRECIPITATION HEAT TREAT
AFTER FORMING, TO CONDTN
CH900. HOLD AT 900° F±10°
FOR ONE HOUR. AIR COOL.

3.

5. BREAK SHARP EDGES .003 +.012

B.

4. MIL-W-13855 APPLIES.

B.

PART NO. 8448659		CURRENT DESIGN ACTIVITY GAGE CODE 19300 U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS 61098 ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PEACHTREE ARSENAL, NEW JERSEY 07805000		DUPLICATE ORIGINAL	
DEPT OF THE ARMY	U. S. ARMY WEAPONS COMMAND	CONTRACT NO.	5 JUN 70	ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER	PEACHTREE ARSENAL, NEW JERSEY 07805000
YS	MIN	ANGLES ± 3 PLACE DECIMALS ± 2 PLACE DECIMALS ±	PREP BY Contract J. P. L. Brown CNC J. P. L. Brown SUBMITTED J. P. L. Brown	COMPRESSION	
YS	MAX	MATERIAL	ENGR J. P. L. Brown CNC J. P. L. Brown		
EL2	RA	SEE NOTE 1	APPROVED		
BH	NEXT ASSY:	FINAL PROTECTIVE FINISH			
RH	15N84.5MIN	5.41 OF MIL-STD-171	APPLIED		
		APPLICATION	SCALE NONE	SHEET 1 OF 1	

ANSWE Form 403B, 13 Nov 70

EDITION OF 29 JUL 69 MAY BE USED.

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES:	
YS		ANGLES ± 3 PLACE DECIMALS ± 2 PLACE DECIMALS ±		PREP BY Contract J. P. L. Brown CNC J. P. L. Brown SUBMITTED J. P. L. Brown	
MIN	C9381380	MIGA2		COMPRESSION	
YS	MAX	MIG			
EL2	RA	C8448658			
BH	NEXT ASSY:	MIGA1			
RH	15N84.5MIN	5.41 OF MIL-STD-171	APPLIED		

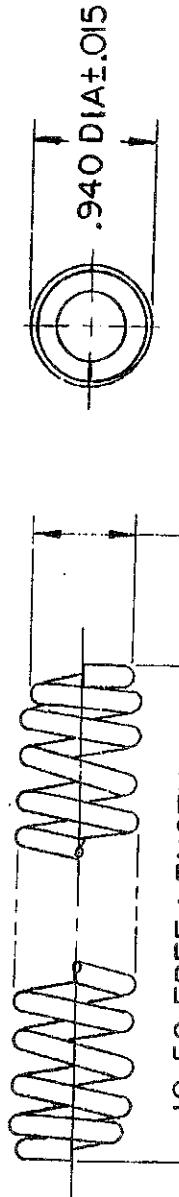
NOTICE RESTRICTED AS TO USE AND DISCLOSURE	
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NOTES:

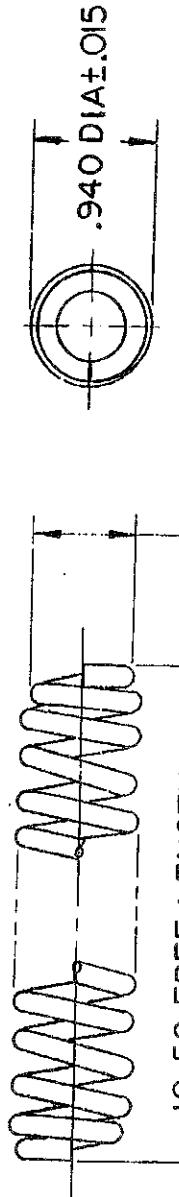
1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH) COLD DRAWN, ASTM A313.
2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDTN. CH 900. HOLD AT 900°F ± 10° FOR ONE HOUR. AIR COOL.
3. MIL-W-13855 APPLIES.
4. BREAK SHARP EDGES .003 + .012.

NOTICE RESTRICTED AS TO USE AND DISCLOSURE		REVISIONS	
		DESCRIPTION	DATE APPROVED
C	N0R W250011 / 82-04-13 (ECP W250034 / 82-07-15 (ECP W25 3120 / 83-07-07	REDRAWN FROM COLT'S DRAWING C 61581 REV A	27 APR 70
A	(1)	SEE EO HRD 02197-3	15 JULY 70
B	(4)	SEE ERR HQR 20778	6 OCT 72



12.50 FREE LENGTH
AFTER SETTING, REF

.900 DIA ± .015
REDUCE(1)COIL
BOTH ENDS



.900 DIA ± .015
REDUCE(1)COIL
BOTH ENDS

US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER CENTRE
TSCM NO. 19200.
CURRENT DESIGN ACTIVITY

DOVER, NEW JERSEY 07801
ARMAMENT RESEARCH AND DEVELOPMENT CENTER CENTRE

(B) MANUFACTURE

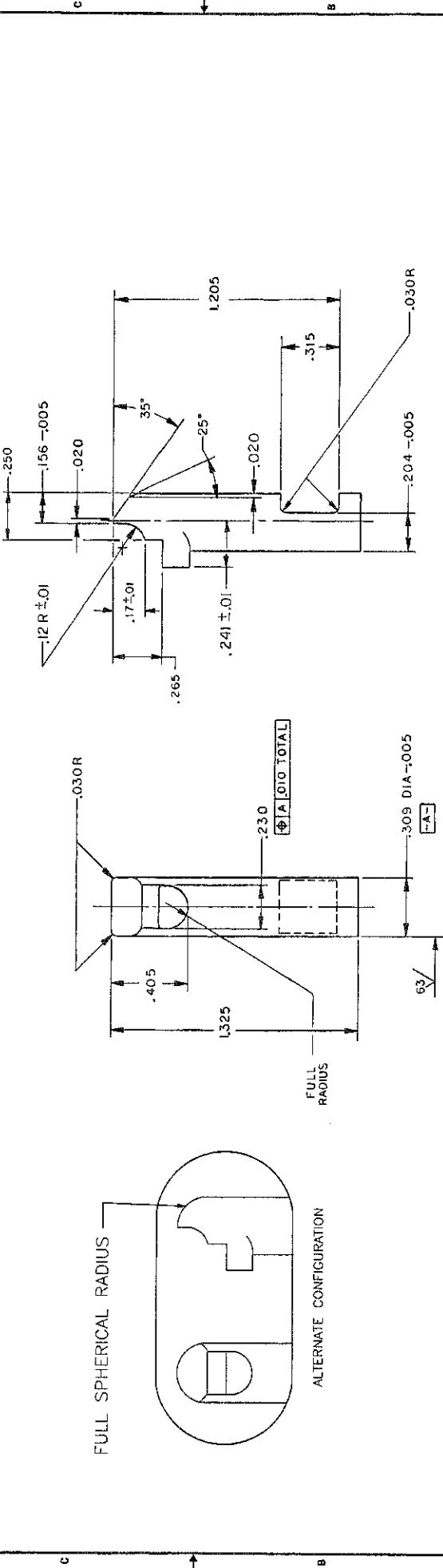
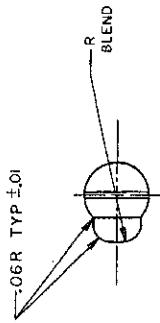
IN ACCORDANCE WITH TYPE I, GRADE A, MIL-S-13572

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201
	ANGLES	TOLERANCES		
YS MIN		3 PLACE DECIMALS ± .005	DATE 27 APR 1970	PREP 94-329-0
YS MAX		2 PLACE DECIMALS ± .005		CHK 94-329-0
EL2 RA	F 8448604 M16	MATERIAL	ENGR 94-329-0	SPRING, ACTION
6H RH	F 8448578 M6A1	SEE NOTE 1	SUBMITTEE 94-329-0	
(B)	NEXT ASSY USED ON	FINAL PROTECTIVE FINISH	APPROVED	SIZE CODE IDENT NO. DRAWING NO.
	APPLICATION	5.410F-MIL-STD-171		B 19204 8448629
		SCALE 1:1	SCALING NONE	1 OF 1

NOTE:
 1-SPEC MIL-W-13855 APPLIES
 2-MATERIAL: STEEL BAR, CARBON GRADE
 1117, COLD FINISHED PER ASTM A108.
 ALTERNATIVE MATERIAL: STEEL AISI 1018.
 3-CARBURIZE TOTAL CASE DEPTH
 (.006 TO .011) HARDEN AND TEMPER.
 HARDNESS TO BE FILE HARD.
 4-FINISH: -125° EXCEPT AS NOTED.
 5-PROTECTIVE FINISH: -5.3.1.3 OR
 5.3.2.2 PLUS .307 OF
 MIL-STD-171.

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ITEM	DESCRIPTION	DATE	APPROVAL
1	PRODUCTION RELEASE	T-1/14	
2	EPR W35.3149/25-1-14	F-96-A	
A	NOR W45-013/54-06-01	840913	
B	ROR W5-0030/34-11-15	850402	
C	NORW653.004/06-24	b-521B	
D	NOR W5586004/860204B90251	0202-0000	
E	NOR L753.006/970224	970321 DR	



PART NO. 9381378		ORIGINAL DATE OF DRAWING 8-3-12-21		ARMED FORCES RESEARCH AND DEVELOPMENT CENTER	
		DEPT/SEC	CHIEF	DRP	DISP
		DATA	DATA	DATA	DATA
1	PLUNGER				
2	FSM NO. 19200	9381378			
3	SCALE 4/1	Unit wt.			
4	REMARKS				

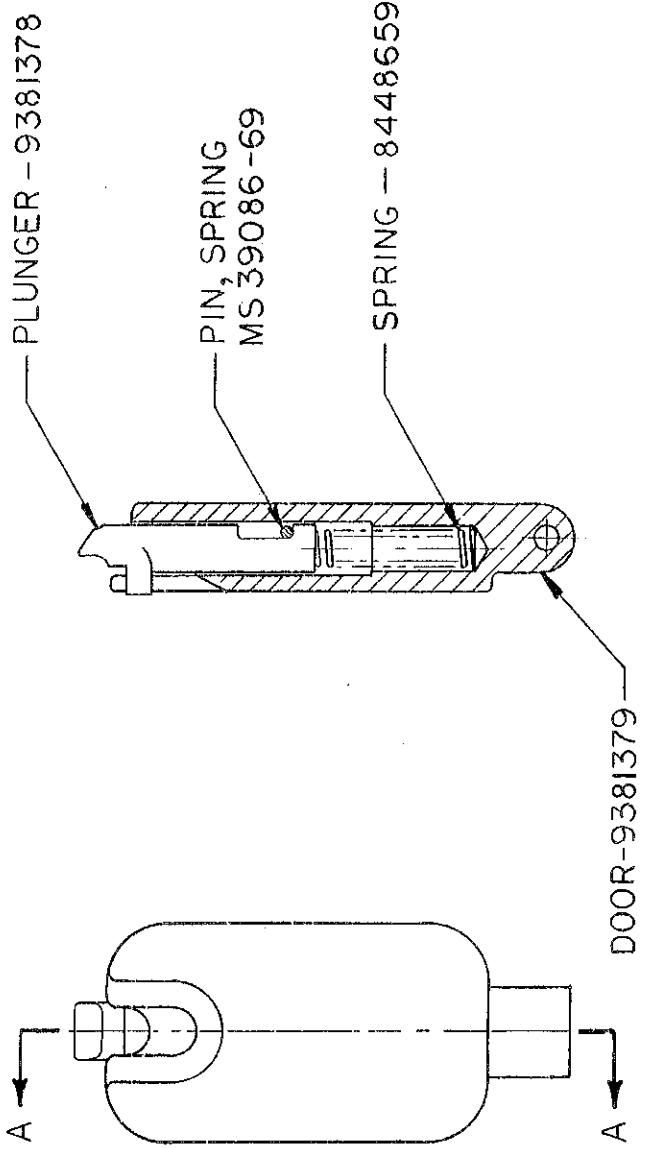
NOTES:
1-SPEC MIL-W-13855 APPLIES.

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-	PRODUCTION RELEASE	84 02 10	—
A	ERR W35 3149 / 83-11-14	—	—
	A NOR W55B004/850204 69Q215 APPROVED	—	—

D



C

B

C

B

PART NO. 9381380

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

DOOR ASSEMBLY,
THUMB LATCH

SIZE	FSCM NO.	9381380
C	19200	
SCALE	2/1	UNIT WT.
		SHEET

SEE SEPARATE PARTS LIST - 9381380

MECHANICAL PROPERTIES		DO NOT SCALE DRAWINGS UNLESS OTHERWISE SPECIFIED		ORIGINAL DATE OF DRAWING 84 - 02 - 02	
YP	TS	DRAFTER	JH	CHEKER	
EL2		ENGR	KJH	ENGR	
M16, M16A1	RA	ENGR		ENGR	
M16A2	BH				
9349119					
NEXT ASSY	USED ON	R4			
APPLICATION					

ITEM	DESCRIPTION	ART.	AMOUNT
	PRODUCED 100% RELEASE	R2664	1
A	ERINACUS SUEZICUS	R2665	1
B	SCIRURUS CALIFORNIENSIS	R2666	1
C	SCIRURUS CALIFORNIENSIS	R2667	1
D	LEPTOCHEILOPSIS BREVICORNIS	R2668	1
E	HORNETS WSSN 0302160200	R2669	1
F	NEOPHRAGMONEURUS 78203535	R2670	1
G	INOR G5 11/11/2013	R2671	1

1

1

14

1

2

1492

1

27

124 OIR

SECTION E-E

SECTION D-D

1(230)

The drawing shows a cross-section of a bearing assembly. The outer ring has an outside diameter of $187 \pm .005$. The inner ring has an inside diameter of $350 \pm .005$. A shoulder on the inner ring has a diameter of $400 \pm .005$. Two inspection points, labeled 'R' and '2 PLACES', are indicated on the inner ring shoulder.

DETAIL 3

卷之三

E-2 / 2

F2 / 2

CONTINUATION STATEMENT

October 15

PARTS LIST		PL-8448612	ROCK ISLAND ARSENAL	REV. DATE 16 APR 76
DOCUMENT/PART NUMBER	C 8448612	ROCK ISLAND IL	REVISION LETTER D	
HAMMER AND HAMMER PIN RETAINER ASSY		AUTHENTICATION-	CODE ID 19204	SHEET 1
CHANGE CONTROL NUMBER	76V001B	<i>Susan Burner</i>	ORIG. DATE	
FND QTY UNIT CODE NO.	PART OR DRAWING/DOCUMENT NO.	DRAWING/DOCUMENT SIZE	NOMENCLATURE OR DOCUMENT TITLE	SUP LST
SEQ MEAS ID	IDENTIFYING IND.	NUMBER		
1	8448613	F 8448613	HAMMER	
1	8448614	B 8448614	RETAINER, HAMMER PIN	
TOTAL NUMBER OF SHEETS 1				

AR = AS REQUIRED, ALT = ALTERNATE, OPT = OPTIONAL, SD = SELECTION OPTIONAL

1

2

3

4

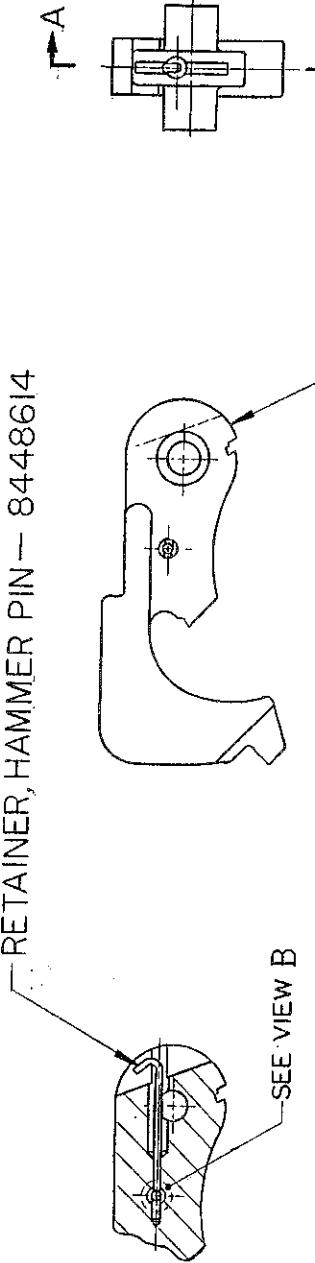
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NOTES:

- ① COIN BOTH SIDES OF RETAINER, 8448614 TO [-C-]. AFTER COINING, RETAINER SHALL HAVE .010 MIN LONGITUDINAL MOVEMENT. ② MIL-W-13855 APPLIES.
- ③ SEE PL - 8448612

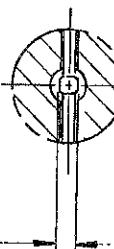
RETAINER, HAMMER PIN — 8448614



PARTIAL SECTION A-A

HAMMER — 8448613

④

B
-C- SEE NOTE I.VIEW B
SCALE 4/1

SEE PL - 8448612

CURRENT DESIGN ACTIVITY FSCM AGO 19200

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER

DOVER, NEW JERSEY 07801

DEPT OF THE ARMY

U.S. ARMY WEAPONS COMMAND

ROCK ISLAND, ILLINOIS, 61201

HAMMER AND HAMMER PIN

RETAINER ASSEMBLY

SIZE CODE IDENT NO. DRAWING NO.

C 19204 8448612

SHEET 1 of 1

AMSWE Form 403C, 29 Jul 69

October 15, 2002 11:36 AM

REVISED

REVISIONS

REVISED	DATE	APPROVED
A	REDRAWN FROM COLT'S DRAWING C62317 REV A	27 APR 70
A	(2) SEE EO HQR-10651	20 FEB 71 <i>Retained</i>
B	(2) SEE FRR HQR 20778	6 OCT 72 <i>Retained</i>
C	NOVEM 80026 82-05-21	83-0203 <i>Retained</i>

D

C8448612

MEASURED	DESCRIPTION	DATE	APPROVED

A

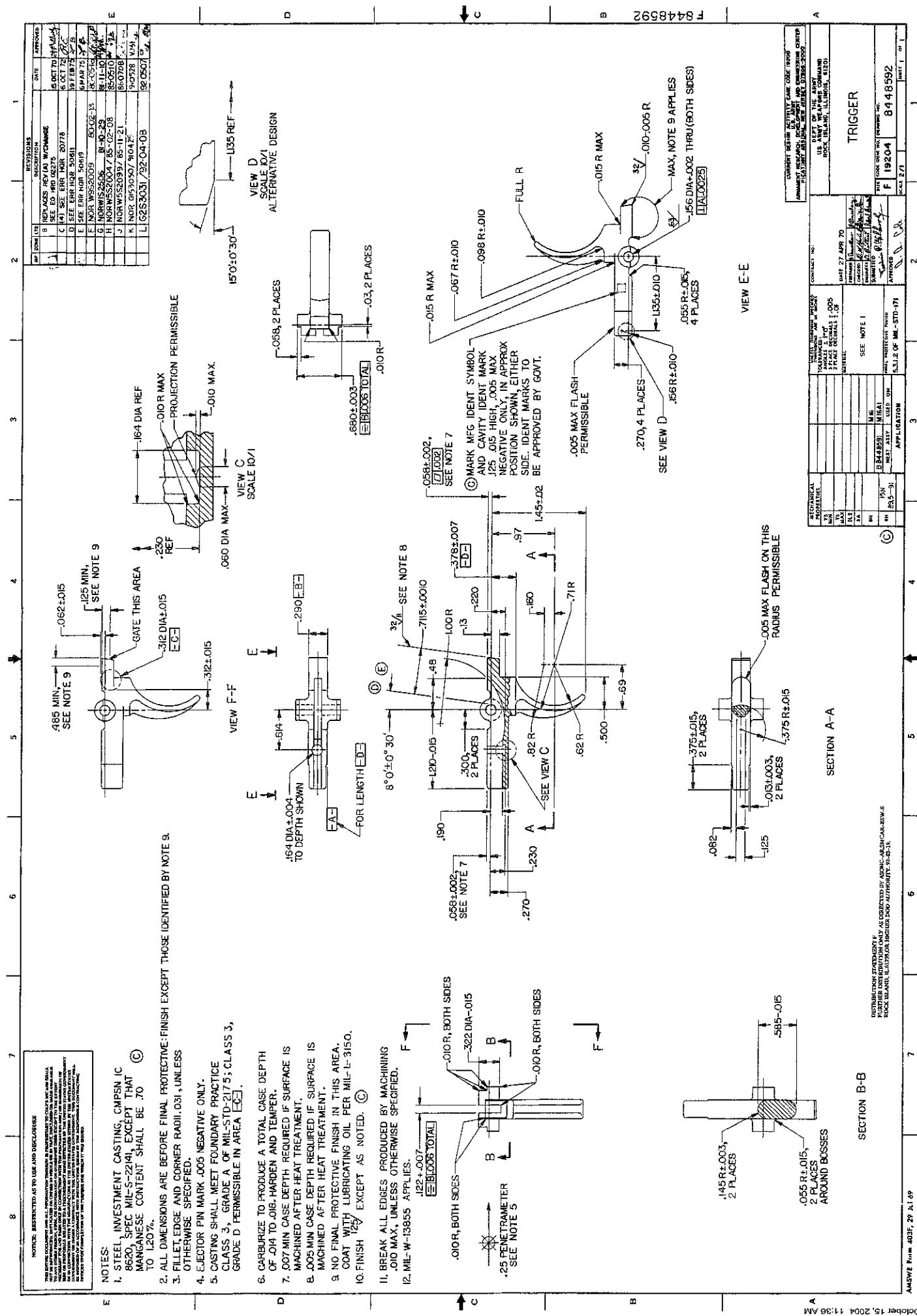
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AMASWE Form 4038B, 29 July 69																																																																																																																	

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- NOTES:**

 1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313.
 2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH-900. HOLD AT $900^{\circ}\text{F} \pm 10^{\circ}$ FOR 1 HOUR. AIR COOL.
 3. TORQUE REQUIREMENT:
 $1.5 \pm .27$ LB IN. TORQUE
 AT 45° DEFLECTION
 4. FINISH 5.4.1 OF MIL-STD-171.
 5. MIL-W-13855 APPLIES.

5	4	3	2	1																																										
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<p>D B 8448598 C D</p> <p>NOTES:</p> <ol style="list-style-type: none"> WIRE, STAINLESS STEEL, TYPE 631, (17-7PH) COLD DRAWN, ASTM A313. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH-900° HOLD AT $900^{\circ}\text{F} \pm 10^{\circ}$ FOR ONE HOUR, AIR COOL. 15° MAX VARIATION PERMISSIBLE FROM 180° SPECIFIED RELATIVE TO OPPOSING ARMS. MIL-W-13855 APPLIES. 																																														
<p>C B A</p> <p>REVISIONS</p> <table border="1"> <thead> <tr> <th>MF</th><th>ZONE</th><th>LTR</th><th>DESCRIPTION</th><th>DATE</th><th>APPROVED</th> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td>REDRAWN FROM COLTS DRAWING</td><td>27 APR 70</td><td></td> </tr> <tr> <td></td><td></td><td></td><td>B61616 REVISION B</td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td>A (1) SEE EO HRD 02197-3</td><td>15 JULY 70</td><td>TS</td> </tr> <tr> <td>-M-</td><td>-</td><td></td><td>B (3) SEE ERR HQR 20778</td><td>6 OCT 72</td><td>S</td> </tr> <tr> <td></td><td></td><td></td><td>C NOR W250001 / 32-04-13 / DECP W250034 / 32-07-13)</td><td>83-11-04</td><td>TS</td> </tr> <tr> <td></td><td></td><td></td><td>D NOR GIS2018 91 07 08</td><td>91-10-11</td><td>TS</td> </tr> </tbody> </table>					MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED				REDRAWN FROM COLTS DRAWING	27 APR 70					B61616 REVISION B						A (1) SEE EO HRD 02197-3	15 JULY 70	TS	-M-	-		B (3) SEE ERR HQR 20778	6 OCT 72	S				C NOR W250001 / 32-04-13 / DECP W250034 / 32-07-13)	83-11-04	TS				D NOR GIS2018 91 07 08	91-10-11	TS
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<p>C B A</p> <p>CURRENT DESIGN ACTIVITY FSCM NO. 19200</p> <p>U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER</p> <p>DOVER, NEW JERSEY 07801</p> <p>DEPT. OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201</p> <p>SPRING, AUTOMATIC SEAR</p> <p>SIZE CORE IDENT NO. DRAWING NO. B 19204 8448598</p> <p>SCALE 2 / 1 SHEET 1 OF 1 CDI</p>																																														
<p>MECHANICAL PROPERTIES</p> <table border="1"> <thead> <tr> <th>YS</th><th>MIN</th><th>MAX</th><th>EL2</th><th>RA</th><th>BH</th><th>RH</th> </tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>8448595</td><td>M4</td><td>M16</td><td></td><td></td><td></td><td>15N 845 MIN</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </tbody> </table> <p>UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES : ANGLES ± .005 3 PLACE DECIMALS ± .01 2 PLACE DECIMALS ± .005</p> <p>MATERIAL</p> <p>SEE NOTE </p> <p>FINAL PROTECTIVE FINISH </p> <p>USED ON </p> <p>NEXT ASSY </p> <p>APPLICATION </p> <p>5° 41' OF</p> <p>5° 41' OF</p> <p>APPROVED </p> <p>F. P. Tolman R. J. Henney</p> <p>MIL-STD-171</p>					YS	MIN	MAX	EL2	RA	BH	RH								8448595	M4	M16				15N 845 MIN																					
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<p>AMSWE Form 403B, 29 Jul 69</p> <p>October 15, 2004 11:35 AM</p>																																														

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NOTES :
 1- SPEC MIL-W-18855, ANSI YMA 15M-82 AND DOD-STO-100 APPLY.
 2- MATERIAL: STEEL ALLOY, ANNEALED, GRADE 4130, ASTM A505.
 3- STOCK THICKNESS .053-.062.
 4- HEAT TREATMENT: T1.
 5- CASE THICKNESS TO .003-.006.
 6- CASE DEPTH TOTAL.
 7- HARDNESS: DPH 642-700.
 8- ALL DIMENSIONS ARE BEFORE PROTECTIVE FINISH.
 9- PROTECTIVE FINISH: 5.3.2 OF MILSTD-17.
 10- UNLESS OTHERWISE SPECIFIED, FINISH ON ROLLED SURFACES
 11- ON SHEARED SURFACES.
 12- MARK MFG IDENT SYMBOL .052+.05 HIGH, .005 MAX DEPTH,
 APPROX POSITION SHOWN EITHER SIDE.

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NOTE :

1. STEEL, CORROSION RESISTING,
FREE MACHINING, TYPE 303,
ASTM A484.
2. FINISH $125/16$ EXCEPT AS NOTED.
3. BREAK ALL SHARP EDGES
.005 R MAX.
4. MIL-W-3855 APPLIES.

ASIM A484.
2. FINISH 125/ EXCEPT AS NOTED.

3. BREAK ALL SHARP EDGES

U.S.R MAX.

4. MIL-W-13855 APPLIES.

155 DIA-002
-A

A technical drawing of a mechanical part, likely a bracket or frame. The drawing includes several dimensions: a total width of .524, a top horizontal slot width of .030 +.007, a vertical slot height of .078, and a side gap of .680 ±.003. There are also two small circular features at the bottom corners.

-078 BEE

C8448597

2

MATERIAL REQUIRED:

**STAINLESS STEEL, AISI
TYPE 304, STRIP ANNEALED
((0.14 THICK BEE))**

CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PILOTLINE ARSENAL, NEW JERSEY 07808-5000

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AS DIRECTED BY ASSENC-AIR OR HIGH
DATE OF DETERMINATION

Octobre

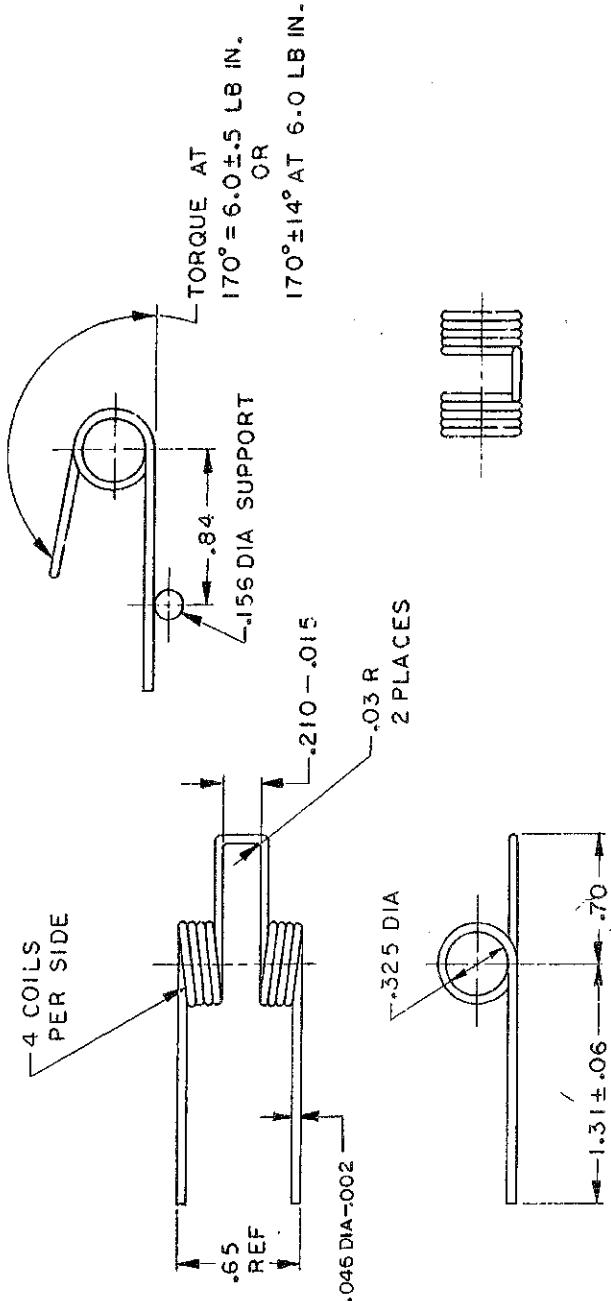
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REVISIONS		DATE	APPROVED
M/F	ZONE LTR	DESCRIPTION	
		REDRAWN FROM COLT'S DRAWING	27 APR 70
		C 61697 REVISION A	
		A (1) SEE EO HRD 02197-3	15 JULY 70
		B SEE ERR HOR 20600	26 JAN 72
		C (3) SEE F2R HQR 20778	1 M.
		D NORW W25001 / 82-04-12	6 OCT 72
		E ECF W25003.4 / 82-07-15	83-11-04
		E NOR W250010 / 820413	890001

NOTES

1. WIRE, CORROSION RESISTING, COLD DRAWN,
SPEC ASTM A313, TYPE 631, ASTM A555,
WIRE DIA .046 - .002.
 2. PRECIPITATION HEAT TREAT
AFTER FORMING. HOLD AT
 $900^{\circ}\text{ F} \pm 10^{\circ}$ FOR 1 HOUR.
AIR COOL.
 3. MIL-W-13855 APPLIES.



CURREN DESIGN ACTIVITY ESGM N8. 1980

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801
DEPT. OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS 61201

SPRING HAMMER

DRAWING NO.

8448611

501

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES		CONTRACT NO.	DOVER, NEW JERSEY 07801	
VS		ANGLES		DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201		
MIN		3 PLACE DECIMALS ± .005				
MAX		2 PLACE DECIMALS ± .01				
EL.2		DATE 27 APR 1970		PREPARED	C. G. H.	
RA				CHECKED	<i>[Signature]</i>	
BH				ENGINEER	<i>[Signature]</i>	
EN	15N 845			SUBMITTED	<i>[Signature]</i>	
	MIN					
SEE NOTE :						
B8448610 MIGA1		MATERIAL				
B8448610 MIGA1		NEXT ASSY		FINAL PROTECTIVE FINISH	5.4.1 OF MIL-STD-171	
		USED ON		APPLICATION	APPROVED	
					<i>K. J. Kennedy</i>	
					C 19204 DRAWING NO.	
					8448611	
					SCALE 2 /	
					SHEET 1 OF 1	

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REGULATIONS, HAVE THE RIGHT TO REPRODUCE THIS DRAWING OR PORTIONS THEREOF
AS REQUIRED FOR GOVERNMENT USE.

NOTES:

1. STEEL, CMPSN 4037, SPEC
ASTM A322.
2. HEAT TREATMENT: QUENCH
AND TEMPER TO HARDNESS
SPECIFIED.
3. FINISH 125/¹²⁵ EXCEPT AS NOTED.
4. BREAK ALL SHARP EDGES
.005+.005.
5. FINISH 5.3.1.2 OF MIL-STD-171.
6. Mil-W-13855 APPLIES. (A)

DISTRIBUTION STATEMENT: FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASQNC-A OR HIGHER DOD AUTHORITY; 52-06-22.

NOTES:		4		5		6		7		8		9		10		11		12		13		14	
		NOR G2S3059 920716		20811 AJL																			
		(ECP G2S3060 920630)																					

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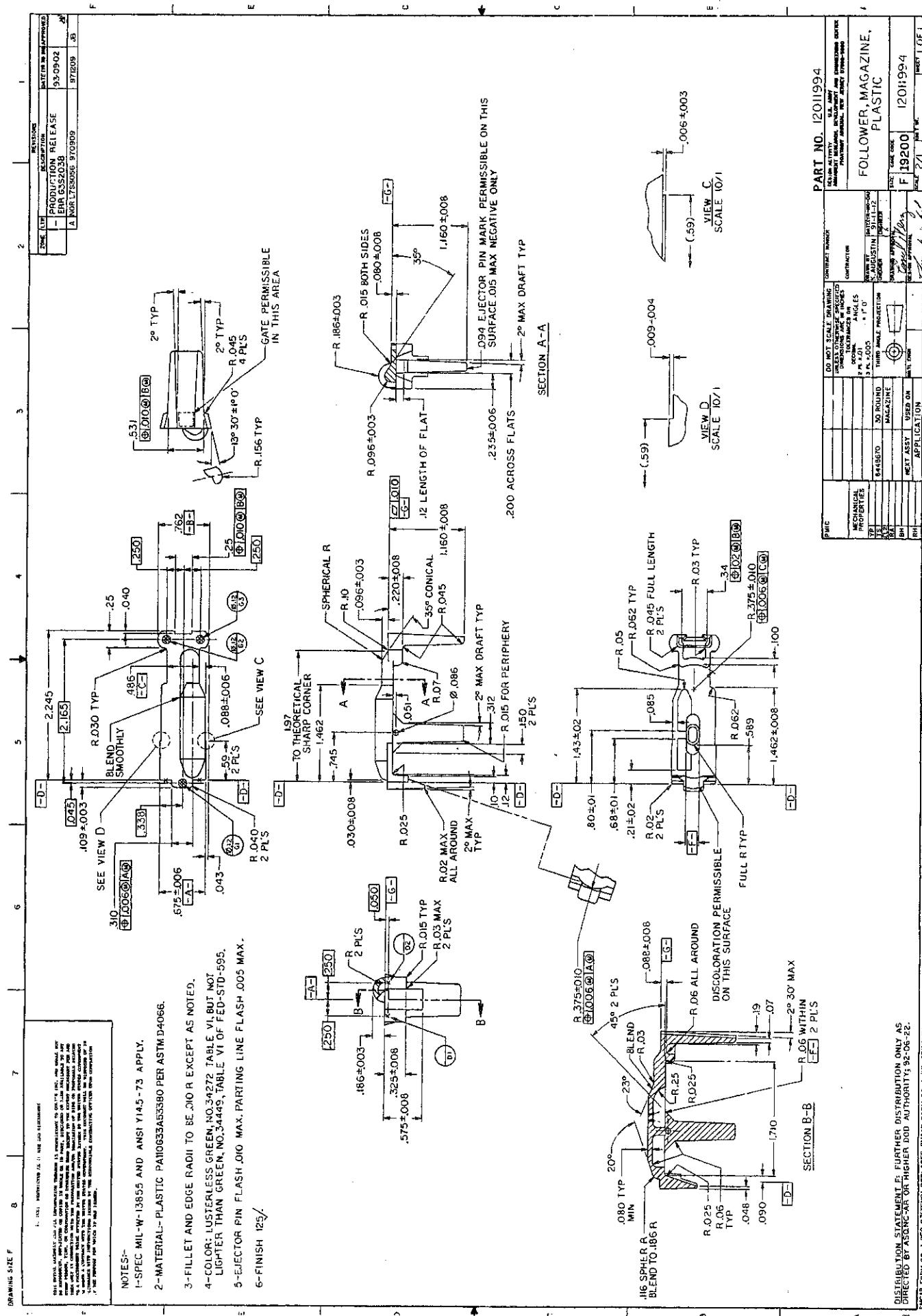
NOTES:		4		5		6		7		8		9		10		11		12		13		14	
		NOR G2S3059 920716		20811 AJL																			
		(ECP G2S3060 920630)																					

NOTES:		4		5</
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NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.			1. DATE (YYMMDD) 990907	Form Approved OMB No. 0704-0188						
<p>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1400, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</p>										
4. ORIGINATOR a. TYPED NAME (First, Middle Initial, Last) Skip Winters		b. ADDRESS (Street, City, State, Zip Code) AMSTA-AR-ESW-S ROCK ISLAND IL, 61299	5. CAGE CODE 19200 7. CAGE CODE 19200	2. PROCURING ACTIVITY NO. 3. DODAAC						
9. TITLE OF DOCUMENT PLATE, BOTTOM, MAGAZINE		10. REVISION LETTER a. CURRENT G	b. NEW ...	6. NOR NO. 0002 8. DOCUMENT NO. 8448673 11. ECP NO. 19S3017						
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M4A1 CARBINE 5.56mm										
13. DESCRIPTION OF REVISION										
<p>ZONE B-3,4: CHANGE FROM: "CONTRACTORS IDENTIFICATION TO BE APPROVED BY THE GOVERNMENT" TO: "SEE NOTE 8"</p> <p>UNDER NOTES ADD: "8. CONTRACTORS IDENTIFICATION IS OPTIONAL, IF IDENTIFICATION IS USED, IT MUST BE APPROVED BY THE GOVERNMENT."</p>										
<p>REASON: THE CONTRACTORS IDENTIFICATION IS NOW REQUIRED ON THE MAGAZINE BOX, DRAWING 8448674.</p>										
14. THIS SECTION FOR GOVERNMENT USE ONLY										
a. (X one) <table border="1" style="float: right; margin-right: 10px;"> <tr><td>X</td><td>(1) Existing document supplemented by this NOR may be used in manufacture.</td></tr> <tr><td></td><td>(2) Revised document must be received before manufacturer may incorporate this change.</td></tr> <tr><td></td><td>(3) Custodian of master document shall make above revision and furnish revised document.</td></tr> </table>	X	(1) Existing document supplemented by this NOR may be used in manufacture.		(2) Revised document must be received before manufacturer may incorporate this change.		(3) Custodian of master document shall make above revision and furnish revised document.	b. TYPED NAME (First, Middle Initial, Last)			
	X	(1) Existing document supplemented by this NOR may be used in manufacture.								
	(2) Revised document must be received before manufacturer may incorporate this change.									
	(3) Custodian of master document shall make above revision and furnish revised document.									
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT d. TITLE Configuration Manager CH, Cmbt Spt & Sm Cal Wpn Sys Div		e. SIGNATURE 		f. DATE SIGNED (YYMMDD) 991006						
15.e. ACTIVITY ACCOMPLISHING REVISION		b. REVISION COMPLETED (Signature)		c. DATE SIGNED (YYMMDD)						

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.			1. DATE (YYMMDD) 990807	Form Approved OMB No. 0704-0188
<p>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Response, 128 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</p>				
12. PROCURING ACTIVITY NO.				
3. DODAAC				
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE	6. NOR NO. 0001	
5. TYPED NAME (First, Middle Initial, Last) Skip Winters	AMSTA-AR-ESW-S ROCK ISLAND IL, 61299	7. CAGE CODE	8. DOCUMENT NO. 8448674 SH 1 OF 2	
9. TITLE OF DOCUMENT	10. REVISION LETTER	11. ECP NO.		
BOX, MAGAZINE, 30 ROUND	a. CURRENT R	b. NEW	19S3017	
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M4A1 CARBINE 5.56mm				
13. DESCRIPTION OF REVISION ADD VIEW CALLOUTS AS SHOWN				
			SHEET 1 ZONE C-5	SHEET 2 ZONE C-4
REASON: THE BATF REQUIRES THESE CHANGES TO BE MADE.				
14. THIS SECTION FOR GOVERNMENT USE ONLY				
a. (X one)	X	(1) Existing document supplemented by this NOR may be used in manufacture. (2) Revised document must be received before manufacturer may incorporate this change. (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT	c. TYPED NAME (First, Middle Initial, Last)			
d. TITLE Configuration Manager CH, Cmbt Spt & Sm Cal Wpn Sys Div for	e. SIGNATURE 			f. DATE SIGNED (YYMMDD) 991006
15.a. ACTIVITY ACCOMPLISHING REVISION	b. REVISION COMPLETED (Signature)			c. DATE SIGNED (YYMMDD)

NOTICE OF REVISION (NOR) THIS REVISION DESCRIBED BELOW HAS BEEN AUTHORIZED FOR THE DOCUMENT LISTED.		1. DATE (YYMMDD) 990907	Form Approved OMB No. 0704-0188
<p>Public reporting burden for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.</p> <p>PLEASE DO NOT RETURN YOUR COMPLETED FORM TO EITHER OF THESE ADDRESSES. RETURN COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT/PROCURING ACTIVITY NUMBER LISTED IN ITEM 2 OF THIS FORM.</p>			
		2. PROCURING ACTIVITY NO.	
		3. DODAAC	
4. ORIGINATOR	b. ADDRESS (Street, City, State, Zip Code)	5. CAGE CODE 19200	6. NOR NO. 0001
a. TYPED NAME (First, Middle Initial, Last) Skip Winters	AMSTA-AR-ESW-S ROCK ISLAND IL, 61299	7. CAGE CODE 19200	8. DOCUMENT NO. 8448674 SH 1 OF 2
9. TITLE OF DOCUMENT BOX, MAGAZINE, 30 ROUND	10. REVISION LETTER a. CURRENT R	b. NEW	11. ECP NO. 1993017
12. CONFIGURATION ITEM (OR SYSTEM) TO WHICH ECP APPLIES M4A1 CARBINE 5.56mm			NOR SH 1 OF 2
13. DESCRIPTION OF REVISION			
<p>DELETE NOTE 10 IN ITS ENTIRETY AND SUBSTITUTE WITH THE FOLLOWING:</p> <p>10. INSCRIPTIONS</p> <p>A. - MANUFACTURER'S CAGE CODE AND MONTH AND YEAR, +/- TWO MONTHS OF MANUFACTURE.</p> <p>B. - MARKING SHALL READ AS FOLLOWS "RESTRICTED LAW ENFORCEMENT/GOVERNMENT USE ONLY" OR BATF APPROVED EQUIVALENT.</p> <p>C. - MARKING SHALL BE CONTRACTORS NAME, CITY, AND STATE.</p> <p>11. MARKINGS ON MAGAZINE BOX SHALL BE INSCRIBED PRIOR TO APPLICATION OF HARD COAT AND SOLID FILM LUBRICANT. LETTERS SHALL BE APPROXIMATELY 0.1 HIGH X .005 + .005 DEEP. MARKING SHALL NOT EXTEND IN AREA 1.0 INCH FROM TOP OR 0.5 INCH FROM BOTTOM OF MAGAZINE BOX.</p> <p>ZONE C-4, CHANGE FROM: SEE NOTE 10 TO: SEE NOTES 10A & 11</p> <p>ZONE E-5 ADD PHANTOM LINE AROUND THE CUTOUT FOR THE OPPOSITE SIDE. (SEE NOR SH 2 OF 2)</p> <p>SEE NOR SH 2 OF 2 FOR THE PLACEMENT OF REQUIRED INSCRIPTIONS.</p> <p>REASON: THE BATF REQUIRES THESE CHANGES TO BE MADE.</p>			
14. THIS SECTION FOR GOVERNMENT USE ONLY			
a. (X one)	<input checked="" type="checkbox"/> (1) Existing document supplemented by this NOR may be used in manufacture. <input type="checkbox"/> (2) Revised document must be received before manufacturer may incorporate this change. <input type="checkbox"/> (3) Custodian of master document shall make above revision and furnish revised document.		
b. ACTIVITY AUTHORIZED TO APPROVE CHANGE FOR GOVERNMENT		c. TYPED NAME (First, Middle Initial, Last)	
d. TITLE Configuration Manager CH, Cmbt Spt & Sm Cat Wpn Sys Div		e. SIGNATURE <i>Walter J. Songaila</i>	f. DATE SIGNED (YYMMDD) 99/006
15.a. ACTIVITY ACCOMPLISHING REVISION		b. REVISION COMPLETED (Signature)	
		c. DATE SIGNED (YYMMDD)	



October 15, 2004 11:23 AM

1 OF 1

DISTRI

STATEMENT E: FURTHER DISTRIBUTION ONLY AS
DIRECTED BY AUTHORITY OR AGREED DRAFT AUTHORITY

SMAR FORM 69, 1 DEC 87, REPlaces SMAR FORM 69, 1 JUL 87 (Temp)
WHICH MAY BE USED UNTIL EXHAUSTED

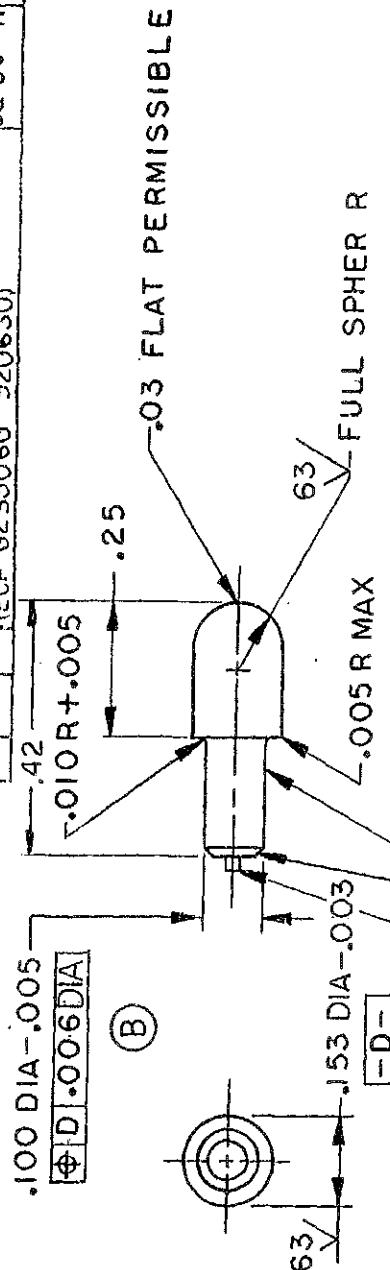
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REVISIONS

REF. ZONE LTR	DESCRIPTION	DATE APPROVED
	REDRAWN FROM COLTS DRAWING C62178. REVISION B	27 APR 70
A	(2) SEE EO-HRD 02254	15 OCT 70
B	(2) SEE ERR HQR 20778	6 OCT 72
C	NOR W952009 80-02-13	80-05-16
D	NOR G753114/870911	880112
E	NOR GIS2018/ 91-07-08	91-10-11
F	NOR G2S3059 920716 (ECP G2S3060 920630)	92-08-11

NOTE:

1. FINISH $12\sqrt{}$ EXCEPT AS NOTED.
2. SUGGESTED HEAT TREAT: LIQUID CARBURIZE AT 1550°F TO OBTAIN A TOTAL CASE DEPTH OF $.003 \text{ to } .006$. HARDEN AND TEMPER.
3. FINISH 5.3.1.2 OF MIL-STD-171.
4. MIL-W-3855 APPLIES. (A)



.025 DIA MAX X .025 MAX LONG
CUTOFF PROJECTION PERMISSIBLE
ON THIS END ONLY (A)

.03 FLAT PERMISSIBLE
CHAMFER

(B)

DISTRIBUTION STATEMENT: FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASQNC-A OR HIGHER DOD AUTHORITY; 22-06-22.

CODE IDENT NO.

19200

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO.
YS MIN	9390011 M4	DATE 27 APR 1970
YS MAX	F 9327230 M 231	PREP 2000
EL2 RA	F 8448604 M16	CRK 0.9
8H	F 8448578 M16A1	ENGR 0.3
RH	FILE HARD	SUBMITTED 0.3

PLUNGER, BOLT CATCH

SIZE	CODE IDENT NO.	DRAWING NO.
B	19204	8448634

		REVISIONS			
MF	ZONE LTR	DESCRIPTION		DATE	APPROVED
<i>M</i>	B	REPLACES REV A W/CHANGE SEE ERR HQR 20778		6 OCT 72	<i>T. S.</i>
	C	NOR W952009 80-02-13		80-05-16	<i>K. J. M.</i>
	D	NOR-W2S00117 82-04-13 CECP-W2S-00347 82-07-15 CECP-W3S3120 / 83-07-07		83-11-04	<i>T. S.</i>
	E	NOR GIS2018/ 91 07 08		91-10-11	<i>RSC</i>
SPRING, HELICAL, COMPRESSION					
WIRE DIAMETER _____ .0180 ± .0005					
COIL DIAMETER (OD) _____ .148 ± .004					
FREE LENGTH _____ .404 REF					
TOTAL COILS _____ 9 REF					
DIRECTION OF HELIX _____ OPTIONAL					
LOAD AT COMPRESSED LENGTH OF .290 LB ± 1 LB					
LOAD AT COMPRESSED LENGTH OF _____					
SPRING RATE _____ .185 MAX					
SOLID LENGTH _____ .185 MAX					
TYPE OF ENDS _____ CLOSED					
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572					
2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDTN CH900. HOLD AT 900°F ±10° FOR 1 HOUR. AIR COOL.					
3. MIL-W-13855 APPLIES. 4. BREAK SHARP EDGES .003±.012.					
NOTICE: RESTRICTED AS TO USE AND DISCLOSURE					
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NOTES:					
1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH) COLD DRAWN, ASTM A313.					
2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDTN CH900. HOLD AT 900°F ±10° FOR 1 HOUR. AIR COOL.					
3. MIL-W-13855 APPLIES. 4. BREAK SHARP EDGES .003±.012.					
B8448633					
U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07811					
PART NO. 8448633		CURRENT		FSCM NO. 19200	
DEPT. OF THE ARMY U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER ROCK ISLAND, ILLINOIS, 61201					
CONTRACT NO. DATE 27 APR 70 PREP. P. Verner <i>P. Verner</i> CHK. <i>G. G. Gosselink</i> <i>G. G. Gosselink</i> ENGR. <i>O. C. Cole</i> <i>O. C. Cole</i> SUBMITTED <i>S. J. Henney</i> <i>S. J. Henney</i>					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: 3 PLACE DECIMALS ± .005 2 PLACE DECIMALS ± .001 MATERIAL:					
MECHANICAL PROPERTIES					
YS	9390011	M 4			
MIN	F 9327230	M 231			
MAX	F 84448604	M16			
EL-2	F 84448578	M16			
RA	NEXT ASSY	USED ON	FINAL PROTECTIVE FINISH		
RH	15N 84.5 MIN	APPLICATION	5.4.1 OF MIL-STD-4171		
AMSWE Form 403B, 29 Jul 69					

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REV. NO.	MEASURED ZONE	LTR	DESCRIPTION		DATE	APPROVED
			REV A	W/CHANGE		
A	B		REPLACES REV A W/CHANGE SEE ERR HQR 20778		6 OCT 72	KR
B	C	NOR	W952009 80-02-13		80-05-16	✓
C	D	NOKE	W2500011 / 82-04-13			
D	E	CECE	W2500321 / 82-07-15		83-11-04	✓
E	F	CECF	W353120 / 83-07-07			
F	G	NOR	G1S2018 / 91-07-08		91-10-11	REG

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER _____
COIL DIAMETER (O.D.) _____
FREE LENGTH _____
TOTAL COILS _____
DIRECTION OF HELIX _____
LOAD AT COMPRESSED LENGTH OF .750 _____
LOAD AT COMPRESSED LENGTH OF _____
SPRING RATE _____
SOLID LENGTH _____
TYPE OF ENDS _____
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

2. PRECIPITATION HEAT TREAT
AFTER FORMING TO CONDTN
CH 900. HOLD AT 900°F±10°
FOR 1 HOUR. AIR COOL.

3. MIL-W-13855 APPLIES.

4. BREAK SHARP EDGES
.003+.012.

US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER NEW JERSEY 07801
PART NO. 8448586 CURRENT FSCM NO. 19200

DEPT OF DEFENSE - TRENTE		US ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS 61201	
SPRING, DETENT, TAKEDOWN PIN,			
SIZE	CODE IDENT NO.	DRAWING NO.	
B	192004	8448586	19200
RH	15N 845 MIN	SCALE NONE	SHEET 1 OF 1

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.
YS	9390011	M 4	ANGLES ± 3 PLACE DECIMALS ±.005	DATE 27 APR 1970
YS	F9327230	M 231	2 PLACE DECIMALS ± MATERIAL	PREP BY Gunner D. Johnson
MAX	F8448604	M16		CHK BY Gunner M. White
EL2	F8448578	M16A1		ENGR BY Eddie G. Brown
RA	NEXT ASSY	USED ON	SEE NOTE 1	SUBMITTED BY John
BH				APPROVED BY C. J. Harvey
RH	15N 845 MIN	APPLICATION	5.41 OF MIL-STD-171	

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MF	ZONE	LTR	REVISIONS		
			DESCRIPTION	DATE	APPROVED
		C	REPLACES REV B W/ CHANGE SEE ERR HQR 20778	6 OCT 72	X B
D		D	NOR W9S2009 80-02-13	30-05-16	X C
		E	NOR W2S 001 / 82-04-13 (ECP W3S 3120 / 83-07-07)	83-11-04	X D
		F	ERR Z9Z1251W (ECP G9S2036/890721)	900403	X E
		G	NOR GIS2018 91-07-08	91-10-11	R E

SPRING, HELICAL, COMPRESSION

- WIRE DIAMETER _____
COIL DIAMETER (OD) _____
FREE LENGTH AFTER SETTING _____
TOTAL COILS _____
DIRECTION OF HELIX _____
LOAD AT COMPRESSED LENGTH OF .850 _____
LOAD AT COMPRESSED LENGTH OF .784 _____
SPRING RATE _____
SOLID LENGTH _____
TYPE OF ENDS _____
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE A, MIL-S-13572
1. WIRE, STEEL, CARBON,
SPRING, MUSIC, SPEC
ASTM-A228. TENSILE
STRENGTH SHALL BE
376,000 MIN.
2. STRESS RELIEVE AFTER
FORMING. HOLD AT 475° F
± 25° FOR 30 MINUTES.
3. SET SPRING 3 TIMES
AFTER STRESS RELIEF.
4. MIL-W-13855 APPLIES.
5. BREAK SHARP EDGES .003 + .012.

NOTES:

1. WIRE, STEEL, CARBON,
SPRING, MUSIC, SPEC
ASTM-A228. TENSILE
STRENGTH SHALL BE
376,000 MIN.
2. STRESS RELIEVE AFTER
FORMING. HOLD AT 475° F
± 25° FOR 30 MINUTES.
3. SET SPRING 3 TIMES
AFTER STRESS RELIEF.
4. MIL-W-13855 APPLIES.
5. BREAK SHARP EDGES .003 + .012.

B	FSCM NO. 19200	CURRENT US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801
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PART NO. 8448516		
ROCK ISLAND ARSENAL, ROCK ISLAND, ILL 61201		
SPRING, EJECTOR AND SAFETY DETENT		
SIZE	CODE IDENT NO.	DRAWING NO.
B	19204	8448516

SCANNED DUPLICATE ORIGINAL

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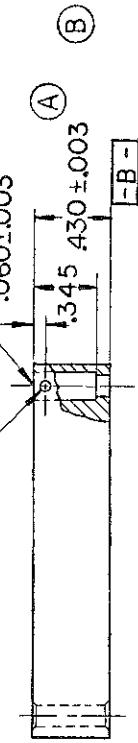
D

D

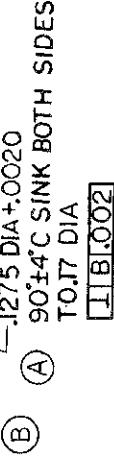
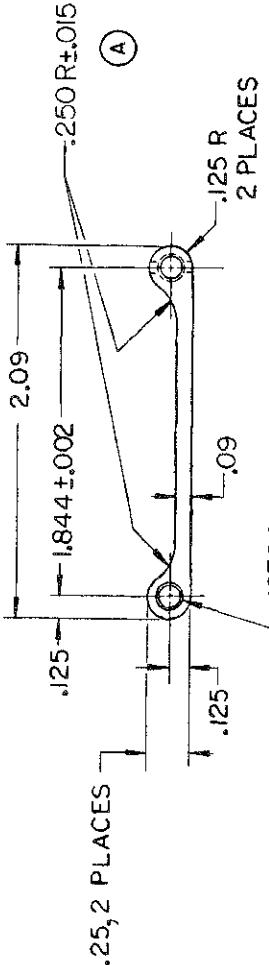
- NOTE: 1. FINISH $.125^{\circ}$.
 2. ALL DIMENSIONS APPLY BEFORE FINISH.
 3. SANDBLAST PRIOR TO FINISH TO PRODUCE NONREFLECTIVE MATTE SURFACE AFTER FINISH.
 4. FINISH MIL - A-8625 TYPE III, CLASS 2, FILM THICKNESS $.0001 \pm .0002$. FINISH SHALL BE LUSTERLESS (FLAT), APPROX BLACK, NO. 37038, TABLE IX BUT NOT LIGHTER THAN GRAY, NO. 36076, TABLE VIII OF FED-STD-595, AND SEAL.
 5. BREAK SHARP EDGES $.005 \pm .010$.
 6. MIL-W-13855 APPLIES. (A)

$.062 \text{ DIA} +.003 \text{ THRU BOTH SIDES}$

$.125 \text{ DIA} +.005 \text{ THRU}$
 $.166 \text{ DIA} +.004 \text{ C BORE}$
 TO DEPTH SHOWN



- C
 C
 C
 C
 C
 C
1. FINISH $.125^{\circ}$.
 2. ALL DIMENSIONS APPLY BEFORE FINISH.
 3. SANDBLAST PRIOR TO FINISH TO PRODUCE NONREFLECTIVE MATTE SURFACE AFTER FINISH.
 4. FINISH MIL - A-8625 TYPE III, CLASS 2, FILM THICKNESS $.0001 \pm .0002$. FINISH SHALL BE LUSTERLESS (FLAT), APPROX BLACK, NO. 37038, TABLE IX BUT NOT LIGHTER THAN GRAY, NO. 36076, TABLE VIII OF FED-STD-595, AND SEAL.
 5. BREAK SHARP EDGES $.005 \pm .010$.
 6. MIL-W-13855 APPLIES. (A)



B

1. B 002

REVISIONS	
REV.	DESCRIPTION
M	REDRAWN FROM COLT'S DRAWING C 61248 REV A AND COLT'S DRAWING C 62497 REV A
N	(4) SEE EO HQR 10641
M	(4) SEE ERR HQR 20778
N	C NOR W952009 80-02-13
O	D NOR G152018 91-07-08
P	E NOR G6S2008 960328 960523 RLV

CODE IDENT NO.
19200

US ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND DOVER, NEW JERSEY 07801	
DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
SIZE	CODE IDENT NO. DRAWING NO.
C	19204 8448588

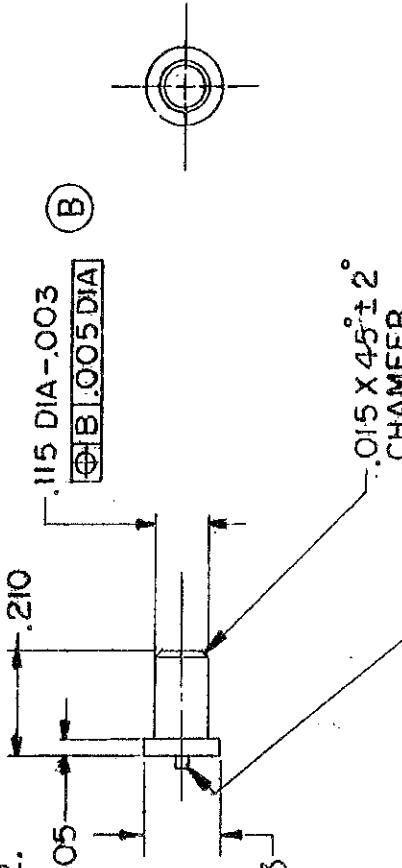
CDI

US ARMY ARMAMENT RESEARCH AND DEVELOPMENT COMMAND DOVER, NEW JERSEY 07801	
DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
DATE	27 APR 1970
PREPARED	G. A. M.
CHECKED	B. Y. B.
ENGINEER	J. C. B.
SUBMITTED	R. S. B.
APPROVED	L. C. B.
APPLIED	P. L. B.
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES ANGLES 1 PLACE DECIMALS $\pm .005$ 2 PLACE DECIMALS $\pm .0015$	CONTRACT NO:
MATERIAL	ALUMINUM ALLOY
EL.2	8448587 M.4
RA	88448587 M.231
BH	88448587 M.16
RH	88448587 M.6A1
NEXT ASSY	USED ON
APPLICATION	SEE NOTE 4

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NOTES:

1. WIRE, STEEL, CORROSION RESISTING, FREE MACHINING STOCK, CLASS 303, ANNEALED, COLD DRAWN, SPEC ASTM A555, A581 AND A582. (B)
2. FINISH .125/ .035-.005
3. BREAK ALL SHARP EDGES .005+.005.
4. MIL-W-13855 APPLIES. (A)



- (B) .156 DIA-.003
- (B) .025 DIA MAX X .025 MAX LONG CUTOFF PROJECTION PERMISSIVE ON THIS END ONLY.

DISTRIBUTION STATEMENT: FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASWNC-AIR OR HIGHER DOD AUTHORITY.
DATE OF DETERMINATION:

REVISIONS

REF ID	ZONE	ltr	DESCRIPTION	DATE	APPROVED
W-1			REDRAWN FROM COLT'S DRAWING	27 APR 70	
			B61250 REVISION A		
		A	(2) SEE EO HRD 02251	15 OCT 70	RE
		B	(3) SEE ERR HQR 20778	6 OCT 72	RE
		C	NOR W9S2009 80-02-13	80-05-16	RE
		D	NOR GIS3074/910626	91 08 21	PF
		E	NOR GIS2018 91-07-08	91-10-11	PF
		F	NOR G3S3081/930831	931026	PF

CURRENT DESIGN ACTIVITY CASE 192000

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

DEPT. OF DEFENSE - ATTN: US ARMY WEAPONS COMMAND

ROCK ISLAND, ILLINOIS, 61201

PLUNGER R,

TRIGGER GUARD

SIZE CODE IDENT NO. DRAWING NO.

B 19204 8448589

SCALE 4/1

SHEET 1 OF 1

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NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH) COLD DRAWN, ASTM A313.

WIRE DIAMETER _____
COIL DIAMETER (OD) _____
FREE LENGTH _____
TOTAL COILS _____
DIRECTION OF HELIX _____
LOAD AT COMPRESSED LENGTH OF .175
LOAD AT COMPRESSED LENGTH OF _____
SPRING RATE _____
SOLID LENGTH _____
TYPE OF ENDS _____
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

2. PRECIPITATION HEAT TREAT CH900, HOLD AT 900°F±10° FOR ONE HOUR. AIR COOL.
3. MIL-W-13855 APPLIES.
4. BREAK SHARP EDGES .003 + .012 .

MF	ZONE	LTR	REVISIONS	DESCRIPTION	DATE	APPROVED
	B			REPLACES REV A, NEW CHANGE SEE ERR HQR 20/7/8	6 OCT 72	X B
M	C			NOR W9S2009 80-02-13	80-05-16	X C
	D			ANOR W9S2009 82-04-13 RECEP W25G034 / 82-07-15	83-11-04	X D
	E			CECP W3S-3120 / 83-07-07	91-10-11	R E

SPRING, HELICAL, COMPRESSION

0160#0005

J45±003

310 REF

6 REF

OPTIONAL

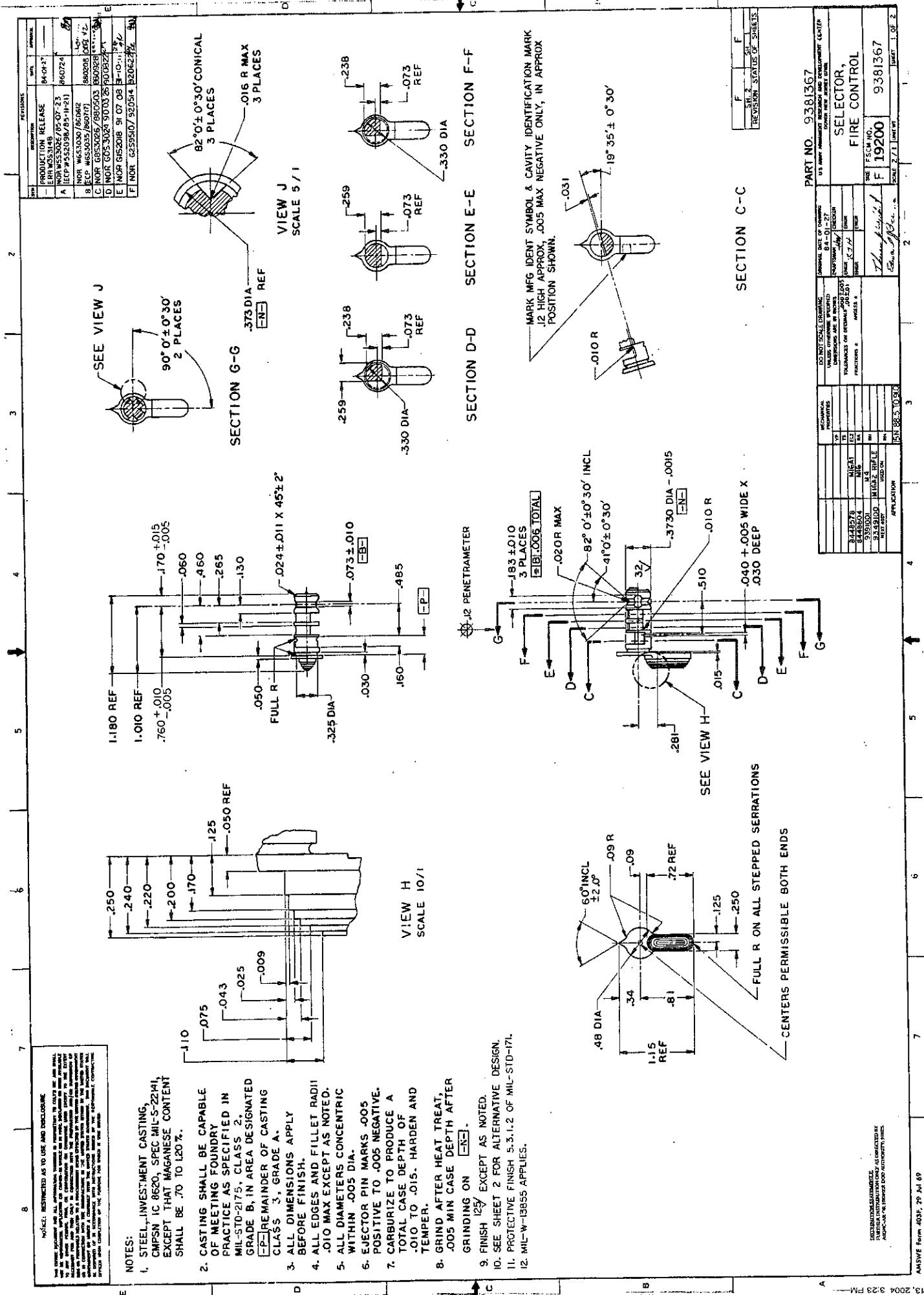
148 LB ± .15 LB

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

CURRENT FSCM NO.
PART NO 8448590 19200

DEPT. OF DEFENSE - COMMAND
U.S. ARMY WEAPONS - ROCK ISLAND, ILLINOIS, 61201
SPRING GUARD
TRIGGER GUARD

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO:
YS MIN	ANGLES ± 3 PLACE DECIMALS ± .005	DATE 27 APR 1970
YS MAX	2 PLACE DECIMALS ± .005	PREP BY <i>J. J. Henney</i>
EL2	MATERIAL	CHK <i>P. Johnson</i> <i>J. J. Henney</i>
RA	ENGR <i>R. Clark</i> <i>J. J. Henney</i>	ENGR <i>R. Clark</i> <i>J. J. Henney</i>
BH	NEXT ASSY	SUBMITTED <i>J. J. Henney</i>
RH	USED ON	APPROVED <i>R. J. Henney</i>
	APPLICATION	DRAWING NO. <i>8448590</i>

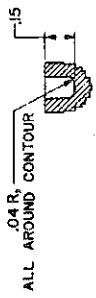


DEFINITIVE EDITION
FIREARMS DISTRIBUTION ONLY AS DIRECTED BY
ARMED FORCES OF THE UNITED STATES

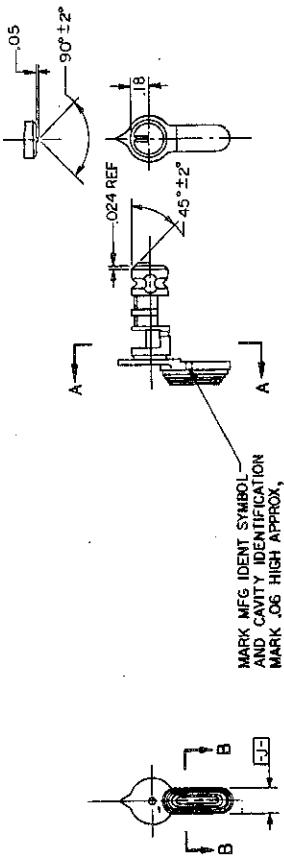
PART NO. 9381367

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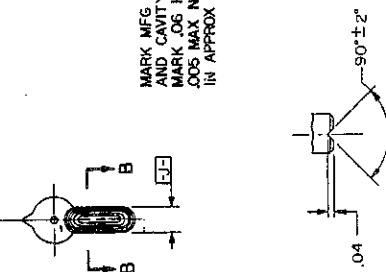
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SECTION B-B
SCALE 4:1



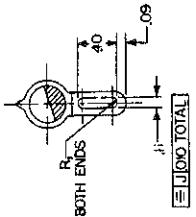
MARK MFG IDENT SYMBOL
AND CAVITY IDENTIFICATION
MARK JO HIGH APPROX,
.005 MAX NEGATIVE ONLY,
IN APPROX POSITION SHOWN.



ALTERNATIVE DESIGN

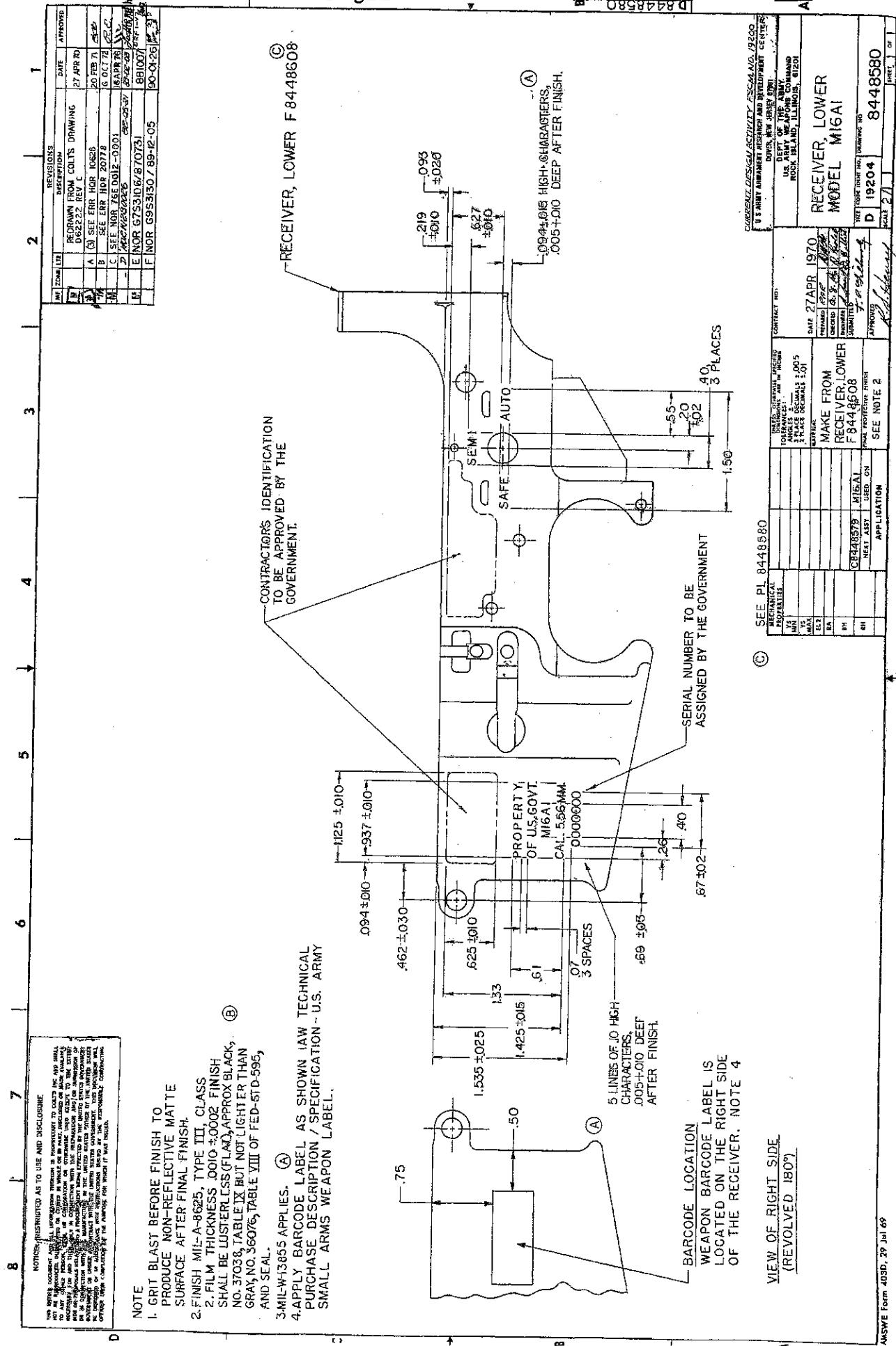
CONTINUATION OF SHEET ONE OF DRAWING NO.
PART NO. 9381367

PRINTED ON 10/10/2000 BY 3232 PM
BY 3232 PM



SECTION A-A

PART NO. 9381367		PRINTED ON 10/10/2000 BY 3232 PM	
PRINTED ON 10/10/2000 BY 3232 PM		PRINTED ON 10/10/2000 BY 3232 PM	
SELECTOR, FIRE CONTROL		SELECTOR, FIRE CONTROL	
F SCA NO. F 19200		F SCA NO. F 19200	
SHEET 2 / 2		SHEET 2 / 2	



NOTICE RESTRICTED AS TO USE AND DISCLOSURE

NOTICE RESTRICTED AS TO USE AND DISCLOSURE

63
19-002

63
19-002

REVISIONS		DATE	APPROVED		
REF	ZONE	1ST	REDRAWN FROM C.D.'S		

REVISIONS		DATE	APPROVED		
REF	ZONE	1ST	REDRAWN FROM C.D.'S		

NOTE: 1. FINISH 125 EXCEPT AS NOTED.
2. BREAK SHARP EDGES.OID MAX.
3. ALL DIMENSIONS APPLY WHEN
PART IS LOCATED ON HOLE CENTER
AND PLATINUM CRIMP.

4. SURFACES SO NOTED AND
ADDITIONALLY DESIGNATED BY
VERY HEAVY LINE SECTIONS
MUST HAVE A FINISH OF $\frac{1}{64}$
(EXCEPT AS NOTED), BE WITHOUT
DIE BREAK AND [IE 100].

5. HEAT TREATMENT:

6. THE HOLLOW PERMISSIBLE ON EXTERNAL SHEET 2, ON CORNERS, AS SHOWN ON SHEET 2, ON SIDE ONLY, EITHER SIDE.  DESIGNATE BY SOLID AREA.

7. MIL-W-13885 APPLIES.

8 .012 ± .003 FLAT REQUIREMENT LIMITS

DIA'D ON ONE SIDE ONLY.

**9. PROTECTIVE FINISH: 5.3.1.2 OF MIL-S-7
TOLERANCE EXTREMES,
BAND ON THE .010 DIM AND ITS REL**

MARK MFG IDENTIFICATION SYMBOL
.062±.015 HIGH, .005 MAX DEPTH
IN APPROX POSITION SHOWN.

F8448635

NOTES:

1. FINISH 125° EXCEPT AS NOTED.
2. BREAK SHARP EDGES, .010 MAX.
3. ALL DIMENSIONS APPLY WHEN PART IS LOCATED ON HOLE \square AND DATUM \square .
4. SURFACES SO NOTED AND ADDITIONALLY DESIGNATED BY VERY HEAVY LINE SECTIONS MUST HAVE A FINISH OF 5° (EXCEPT AS NOTED), BE WITHOUT DIE BREAK AND \square .001.
5. HEAT TREATMENT:
6. DIE ROLL PERMISSIBLE ON EXTERNAL SHARP CORNERS, AS SHOWN ON SHEET 2, ONE SIDE, ONLY EITHER SIDE. \square DESIGNATES DIE ROLL AREA.
7. MIL-W-13655 APPLIES.
8. .012 ± .003 FLAT REQUIREMENT LIMITS USE OF FULL TOLERANCE BAND ON THE .010 DIM AND ITS RELATED DIMENSIONS AT OPPOSITE TOLERANCE EXTREMES.
9. PROTECTIVE FINISH: 5.3.12 OF MIL-STD-171.

NOTES RESTRICTED AS TO USE AND DUPLICATING:

This technical drawing is restricted as to use and duplicating. It is the property of the U.S. Government and is loaned to the contractor. It is to be returned to the U.S. Government when no longer required. It is to be handled in accordance with the provisions of the Defense Production Act of 1950, Title 50, United States Code, Section 4011, and Executive Order 13136, dated April 17, 1999, entitled "Restrictions on the Use and Duplication of Defense Technical Data and Computer Software". It is to be used only for the purpose for which it was furnished and is not to be given to any other person or entity without prior written approval of the U.S. Government. It is to be stored in a secure facility and handled in accordance with the provisions of the Defense Production Act of 1950, Title 50, United States Code, Section 4011, and Executive Order 13136, dated April 17, 1999, entitled "Restrictions on the Use and Duplication of Defense Technical Data and Computer Software".

REVISIONS:

REV. LETTER	DATE	COMMENT
A	12-19-70	DRAWN FROM CD 175
B	12-22-70	SEE REF. C
C	12-22-70	SEE REF. B
D	12-22-70	SEE REF. C
E	12-22-70	SEE REF. C
F	12-22-70	SEE REF. C
G	12-22-70	SEE REF. C
H	12-22-70	SEE REF. C
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X	12-22-70	SEE REF. C
Y	12-22-70	SEE REF. C
Z	12-22-70	SEE REF. C

VIEW K:
NO SCALE

REV STATUS OF SHTS:

SH 1	SH 2
H	E

COMMENT SECTION ACTIVITY CARD CODE 4800
U.S. GOVERNMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PACIFIC AVENUE, NEW YORK, N.Y. 10036-3000

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER

DEPT OF THE ARMY
HEADQUARTERS
ARMED FORCES
NEW JERSEY

U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

DISCONNECT

卷之三

LINEN COLOR MARKS AND SEWING NO
E 19204 8448635

SCAFFOLD 5 / 1

104

113

A

109

104

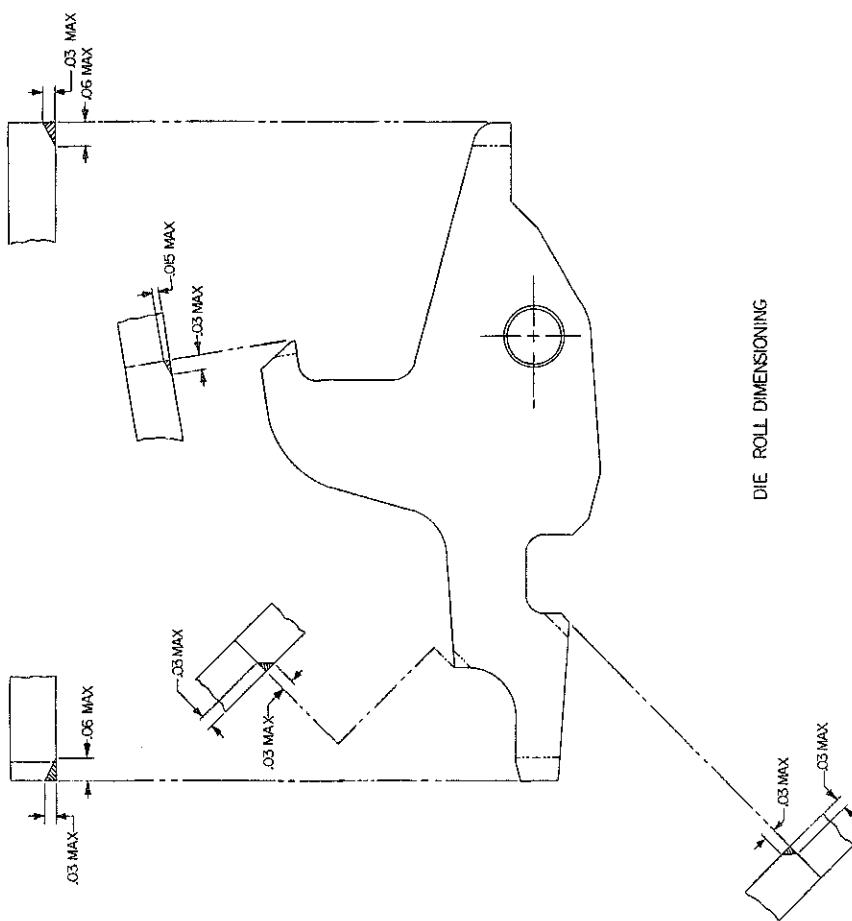
109

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THE AUTHORITY TO TAX

ANSWER E

October 13, 2004 3:19 PM



DIE ROLL DIMENSIONING

Ward's *Principles of Pathology* is a good book for students of medicine, law, and other professions. It is well written and clearly presented. The author has done a great service to the medical profession by publishing this work.

NOTES:

I. MIL-W-13855 APPLIES.

REVISIONS			
MF	ZONE	LTR	DESCRIPTION
<i>R</i>			REDRAWN FROM COLT'S DRAWING B61622 REV A
1/1	-	A	563EE ERR HQR 20778
		B	102-2026 : 82-05-21
	C		NOR GIS2018 91-07-08
	D		NORG253059 920716 ECP G253060 920630)

-SPRING, AUTO. SEAR - 8448598 A

A schematic diagram of a horizontal pipe segment. The pipe has a sharp 90-degree bend to the right. A vertical arrow labeled B points from the top towards the center of the bend, indicating a magnetic field vector perpendicular to the pipe's longitudinal axis.

SHORT ARM C
SPRING SHALL
BE POSITIONED
INTO BUSHING
SLOT AS SHOWN

SECTION A-A

SECTION B-B

**U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
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DOVER, NEW JERSEY 07801**

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UNLESS OTHERWISE TOLERANCES:		ANGLES:	3 PLACE DECIMALS ±	PREP	9-24 A.D. & H.
			2 PLACE DECIMALS ±	CHK	<i>[Signature]</i>
		MATERIAL		ENGR	<i>[Signature]</i>
				SUBMITTED	<i>[Signature]</i>
				SIZE	CODE IDENT NO. DRAWING NO.
				B	19204 8448595
				SCALE	2 / SHEET OR
				APPROVED	<i>J. J. Heney</i>
				APPLICATION	
				NEXT: ASSY	
				USED ON	
				FINAL PROTECTIVE FINISH	
				RH	
				8H	

AMSW Form 403B, 29 Jul 69

1	2	3	4	5																																				
<p style="text-align: center;">REVISIONS</p> <table border="1"> <thead> <tr> <th>MF ZONE LTR</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td></td> <td>REDRAWN FROM COLT'S DRAWING</td> <td>27 APR 70</td> <td></td> </tr> <tr> <td></td> <td>B61615 REVISION B</td> <td></td> <td></td> </tr> <tr> <td></td> <td>A. (4) SEE ERR HQR 20778</td> <td>6 OCT 72 R.C.</td> <td></td> </tr> <tr> <td></td> <td>B NOR W9S2009 80-02-13</td> <td>80-05-16 R.C.</td> <td></td> </tr> <tr> <td></td> <td>C NOR G8S3003 / 880229</td> <td>880926 R.C.</td> <td></td> </tr> <tr> <td></td> <td>D NOR GIS2018 / 91 07 08</td> <td>91-10-11 R.C.</td> <td></td> </tr> <tr> <td></td> <td>E NOR G2S3059 920716</td> <td>92-08-11 A.JL</td> <td></td> </tr> <tr> <td></td> <td>(ECP G2S3060 920630)</td> <td></td> <td></td> </tr> </tbody> </table>					MF ZONE LTR	DESCRIPTION	DATE	APPROVED		REDRAWN FROM COLT'S DRAWING	27 APR 70			B61615 REVISION B				A. (4) SEE ERR HQR 20778	6 OCT 72 R.C.			B NOR W9S2009 80-02-13	80-05-16 R.C.			C NOR G8S3003 / 880229	880926 R.C.			D NOR GIS2018 / 91 07 08	91-10-11 R.C.			E NOR G2S3059 920716	92-08-11 A.JL			(ECP G2S3060 920630)		
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<p>NOTES:</p> <ol style="list-style-type: none"> 1. FINISH 125° EXCEPT AS NOTED. 2. BREAK ALL SHARP EDGES .005 MAX. 3. FINISH 5.3.1.2 OF MIL-STD-171. 4. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED. ^(A) 5. MIL-W-13855 APPLIES. ^(A) 																																								
<p style="text-align: right;">66584789</p> <p style="text-align: right;">C</p> <p style="text-align: right;">B</p> <p style="text-align: right;">A</p>																																								
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<p style="text-align: right;">B</p> <p style="text-align: right;">A</p>																																								

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PICATINNY ARSENAL, NEW JERSEY 07806-5000

SIZE	CODE IDENT NO.	DRAWING NO.
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(A)

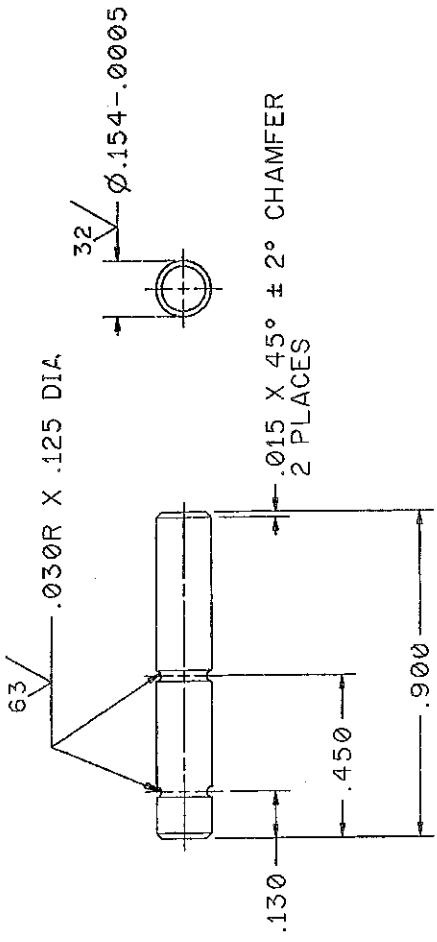
B844859

ANSWER Form 403B 28 III 68

October 13, 2004 3:15 PM

NOTE:

1. FINISHED $\frac{125}{125}$ EXCEPT AS NOTED.
2. BREAK ALL SHARP EDGES .005 MAX.
3. FINISH 5.3.1.2 OF MIL-STD-171.
4. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES.
6. MATERIAL: COLD FINISHED ALLOY STEEL BAR, GRADE 4130 OR 4140, ASTM A331, COLD HEADING QUALITY.



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PART NO. 8448609

DEPT OF THE ARMY
US ARMY WEAPONS COMMAND
ROCK ISLAND ILLINOIS, 61201

PIN, HAMMER & TRIGGER

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	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
MECHANICAL PROPERTIES	TOLERANCES ON DECIMAL FRACTION		CONTRACTOR
	2 PL ±	*	
	3 PL ±.005		DRAWN BY PEM DATE TYPE-MO-DAY
YP			7/20/127
TS	9390011	M4	CHECKER DHW ENGINEER D. SMART
EL2	F8448604	M16	DRAWING APPROVAL
RA	F8448578	M16A1	F. P. GILHOOLY
BH	NEUT ASSY	USED ON SMART ENGR CADDS REV A 634	DESIGN APPROVAL
RH	15N 72.5-75	APPLICATION	R. S. HENRY

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AUTHORITY: 92-06-22

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NOTES:

i. MIL-W-13855 APPLIES. (A)

REVISIONS			
MF	ZONE	LTR	DESCRIPTION
			REDRAWN FROM COLT'S DRAWING C62117 REV A
A	(4)SEE ERR HQR 20778		27 APR 70

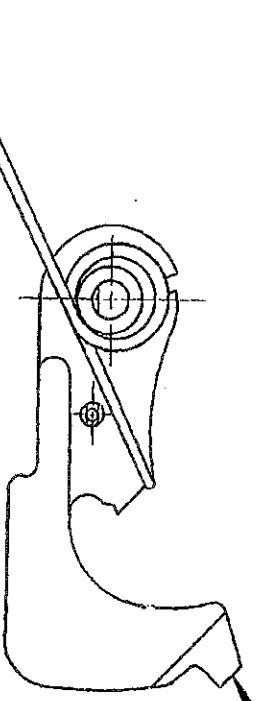
D	B8448610	C	1
D		C	

(A)

— SPRING, HAMMER — 8448611

C

→



B

B

(A)
— HAMMER AND HAMMER PIN RETAINER ASSY — 8448612

C

(A)
SEE PL — 8448610

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED		CONTRACT NO.
	DIMENSIONS ARE IN INCHES	TOLERANCES :	
YS MIN		ANGLES ± _____	DATE 27 APR 1970
YS MAX		3 PLACE DECIMALS ± _____	PREP B (S)
EL2 RA	F8448604 M16	2 PLACE DECIMALS ± _____	CHK A.9.44
BH	F8448578 M16A1	MATERIAL _____	ENTER B (S) B (S) B (S)
RH	NEXT ASSY USED ON APPLICATION	FINAL PROTECTIVE FINISH	SUBMITTED BY P. W. Henry
			APPROVED P. W. Henry
			DRAWING NO. B 19204 8448610
			SIZE SHEET OF 2 1 3

October 13, 2004 3:13 PM

1

DRAWING SIZE D		REVISIONS		APPROVED	
1	2	ZONE	LTR	DESCRIPTION	DATE BY WHM APPROVED
		K	NCR	G552015 930524	950001 RL V
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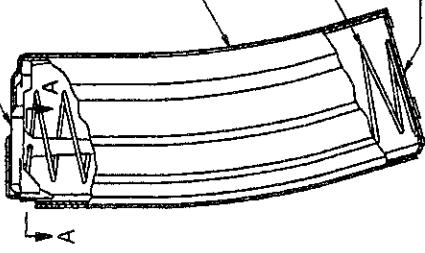
.330W

1. MIL-W-13855 APPLIES.
 2. SPRING FORCE WITH FOLLOWER DEPRESSED .250 INCH SHALL
3.0 LBS. \pm .5 LB.
 3. EACH MAGAZINE ASSEMBLY SHALL BE CAPABLE OF WITHSTANDING
A 30 ROUND FUNCTION FIRING TEST WITHOUT MALFUNCTIONING
IN THE FOLLOWING WEAPONS:
 - A - M16A2 (9349000), M16A1 (8448500), M16 (8448600) OR M4
(9390000) UTILIZING THE BOLT CATCH CONFIGURATION OF DR
D8448628 REV A OR LATER.
 - B - M231 FPW (S327045) UTILIZING THE CONFIGURATION OF
DRAWING D9327059 AND USING M193 BALL AMMUNITION.
AFTER FIRING THE 30TH ROUND FROM THE MAGAZINE, THE
MAGAZINE FOLLOWER SHALL ACTUATE THE WEAPON BOLT CAT
TO HOLD THE BOLT IN THE OPEN POSITION.



SECTION A-A

AFTER FIRING THE 30TH ROUND FROM THE MAGAZINE, THE MAGAZINE FOLLOWER SHALL ACTUATE THE WEAPON BOLT CATCH TO HOLD THE BOLT IN THE OPEN POSITION.



-FOLLOWER -12011994

- BOX - 8448674

-PLATE -8448673

CURRENT DESIGN ACTIVITY CASE CODE 18200
U.S. ARMY, AIR FORCE, NAVY, MARINE CORPS,
ARMED SERVICES AND DEFENSE, RESEARCH AND ENGINEERING CENTER
P.O. BOX 1000, ABERDEEN PROVING GROUND, MARYLAND 21005-1000

PART NO. 8448670

SMCAR FORM 68, 1 DEC 87(TEMP), REPLACES SMCAR FORM 68, 1 MAR 87(TEMP), WHICH MAY BE USED UNTIL EXHAUSTED

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NOTE:
 1. APPLY LUBRICANT, MIL-L-26000 AT ASSY OVER A.
 2. MIL-W-13855 APPLIES. (B)

BUTTSTOCK ASSEMBLY, STOWAGE - D934919 (B)

SPRING, ACTION - B8448629

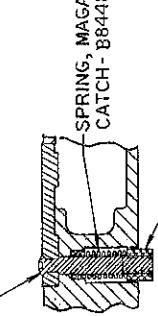
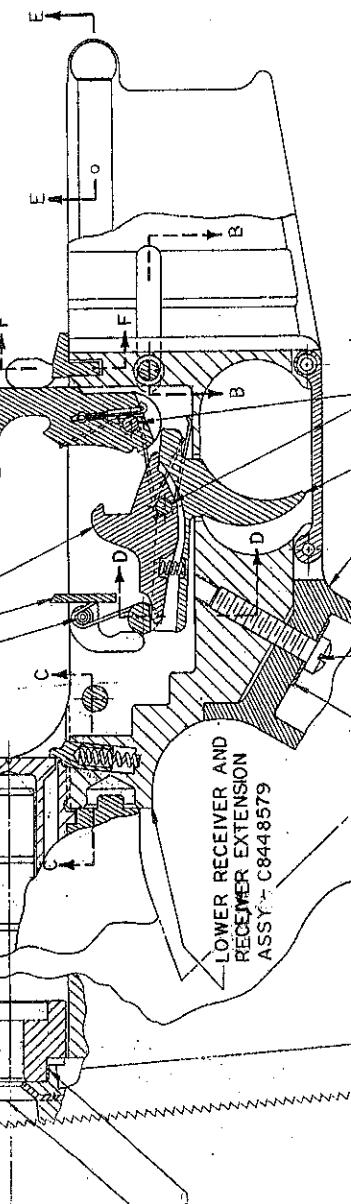
BUFFER ASSY - C8448615

PIN, AUTOMATIC SEAR - B8448599

AUTOMATIC SEAR ASSY - F8448635

DISCONNECT - F8448635

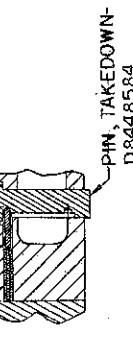
HAMMER ASSY - B8448610



SECTION B - B
 SPRING, DETENT, TAKEDOWN PIN - B8448586
 DETENT, TAKEDOWN PIN - B8448585
 SEE NOTE 1

SELECTOR, FIRE CONTROL - F9381367 (4)

SEE NOTE 1
 SPRING, FIRE CONTROL - F9381367 (4)

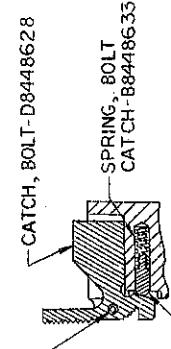


SECTION C - C

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DATE	REVISIONS	DESCRIPTION	DRAWN BY
1	1	REFRAINED FROM COL. 3 DRAWINGS	STAN
2	1	162272, REV. C	STAN
3	1	SEE CO. TWO 162272-2	STAN
4	1	C SEE ESR 162-0322	STAN
5	1	C WORKSODD	STAN
6	1	D 162272-2056	STAN
7	1	E INOR W8800a / 86020-2	STAN
8	1	F INOR 625500/92054	STAN
9	1	G INOR 625500/92054	STAN
10	1	H INOR 625500/92054	STAN

PIN, SPRING - MS16562-119



SECTION E - E

SEE EPL - B8448578
 SECTION F - F

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LOWER RECEIVER AND

RECEIVER EXTENSION

ASSY - C8448579

BUTTSTOCK ASSY

F 19204 84-48578

SECTION D - D

SECTION C - C

SECTION B - B

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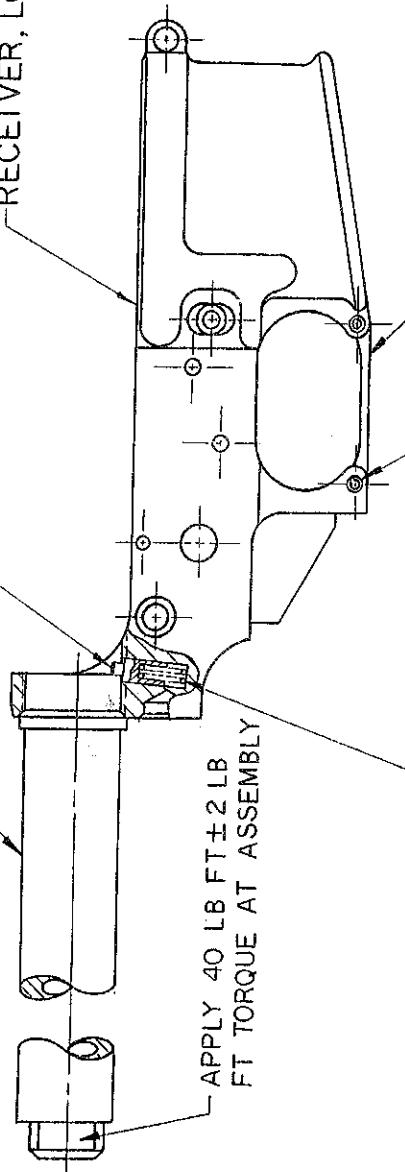
NOTES:

1. MIL-W-13855 APPLIES. (A)

EXTENSION, RECEIVER — 8448581

RETAINER, BUFFER — 8448582

RECEIVER, LOWER — 8448580



SPRING, BUFFER RETAINER — 8448583

TRIGGER, GUARD ASSY — 8448587

PIN, SPRING — MS16562-129
DRIVE FLUSH WITH RECEIVER

CURRENT DESIGN ACTIVITY
ESCM No. 19200

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DOVER, NEW JERSEY 07801

DEPT. OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

LOWER RECEIVER AND
RECEIVER EXTENSION
ASSEMBLY

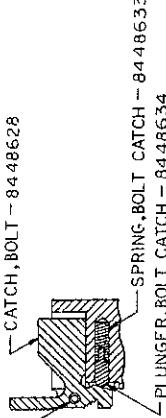
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CDI

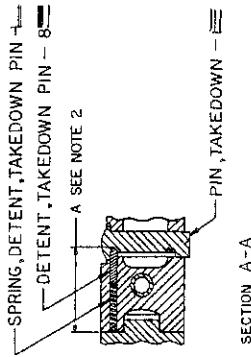
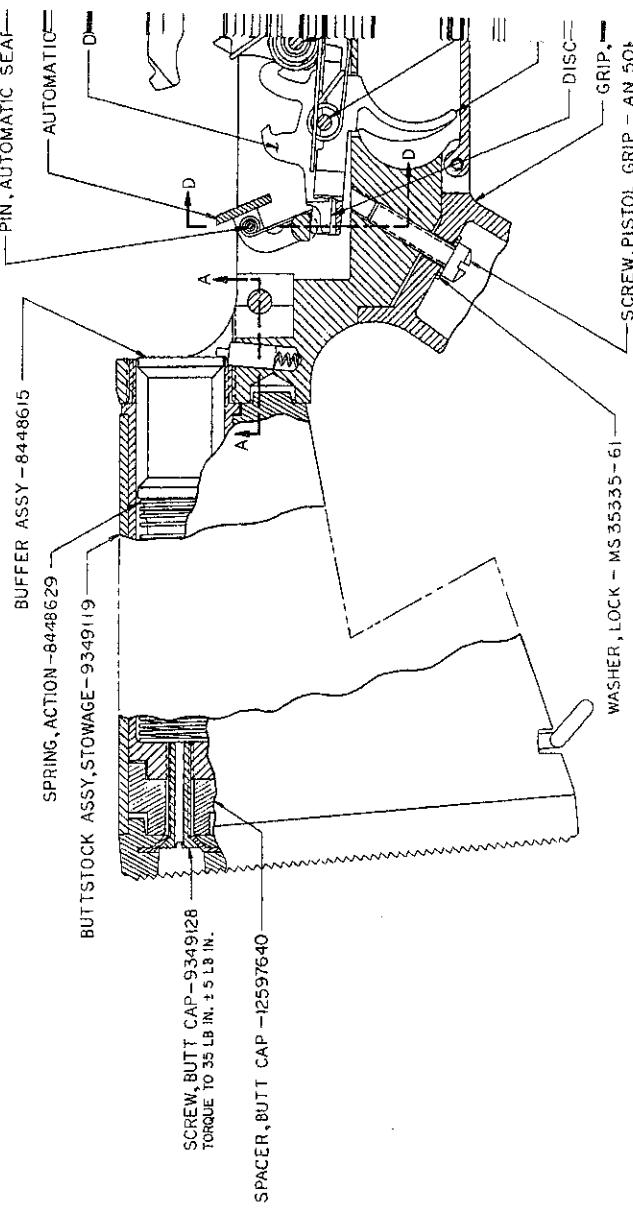
SEE PL-8448579

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO:
YS MIN	ANGLES : _____	
YS MAX	2 PLACE DECIMALS : _____	
EL2	2 PLACE DECIMALS : _____	
RA	MATERIAL : _____	
BH	DATE 27 APR 1970	
RH	PREPARED <u>EAP</u> <u>19200</u>	
	CHECKED <u>DT</u> <u>19200</u>	
	ENGINEER <u>DA</u> <u>19200</u>	
	SUBMITTED <u>DA</u> <u>19200</u>	
	APPROVED <u>J.D. Yellow</u> <u>19200</u>	
	REF ID: C 19204	8448579
	SCALE 1/1	SHEET 1 of 1

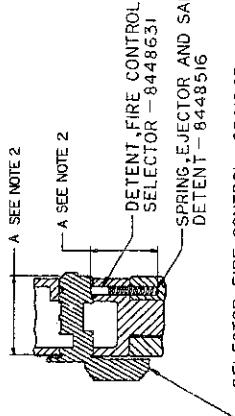
PIN, ROLL - MS 16562-119



SECTION C-C



SECTION A-A



SECTION D-D

NOTES:-
1 - SPEC. MIL-W-18855 AND ANSI Y14.5-73 APPLY.
2 - APPLY MIL-L-46000 (LSA) OR MIL-L-63460 (CLP)
AT ASSEMBLY OVER A.

H

G

F

E

D

C

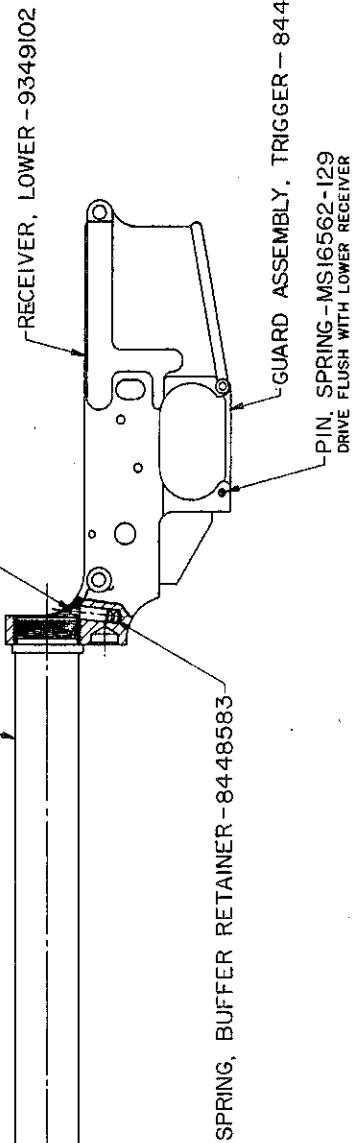
NOTES:
1— SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.

NOTES:—
1— DRAWING REF. D, P. 8
2— DRAWING REF. E, P. 12
NOTES:—
1— ALL dimensions shown are in inches. All dimensions are net unless otherwise specified.
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NOTES:—
1— SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLY.

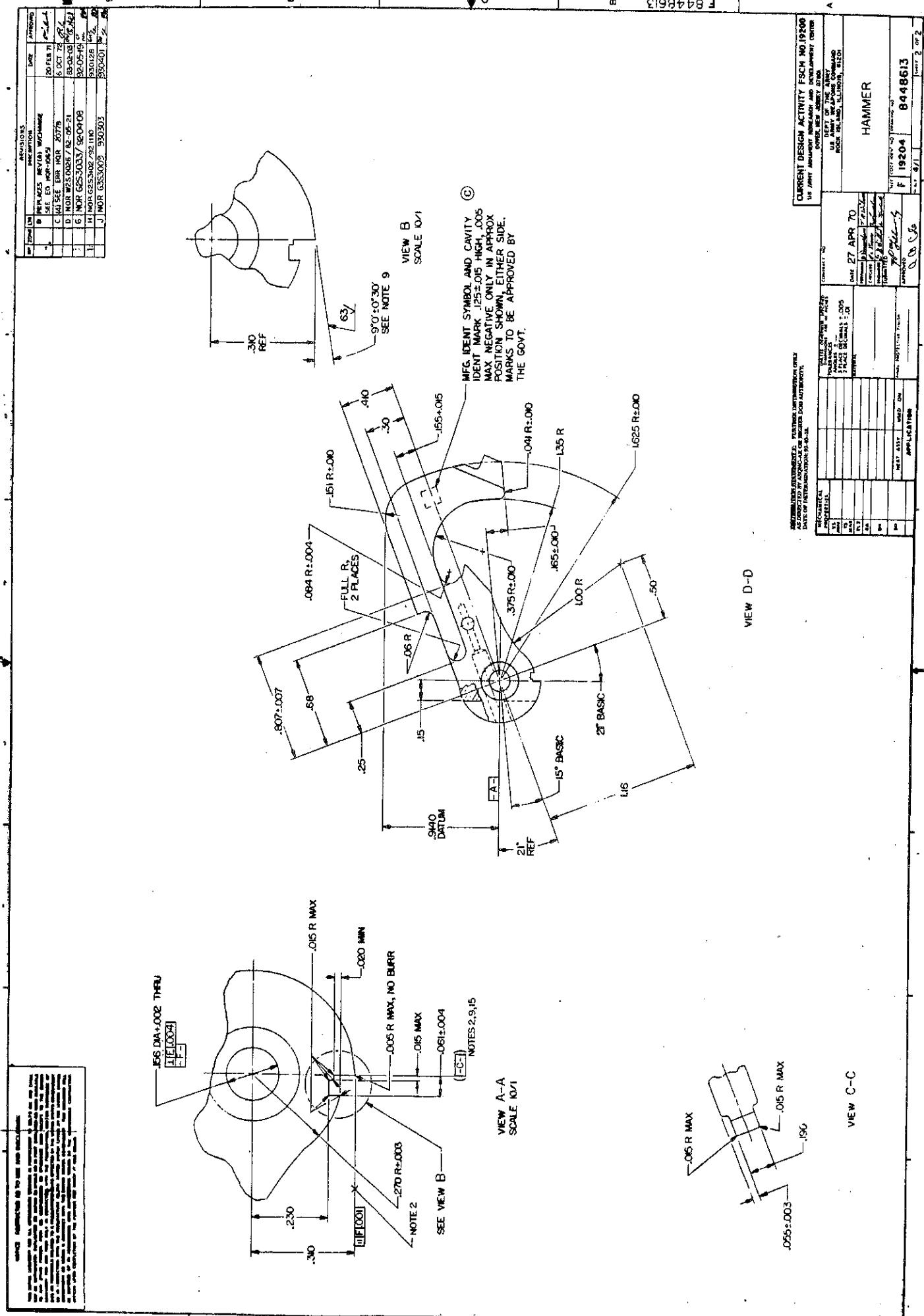
EXTENSION, RECEIVER -8448581

APPLY 40 FT. LBS. \pm 2 FT. LBS. TORQUE
AT ASSEMBLY



FOR ENGINEERING PARTS LIST SEE PL 9349101

PART NO. 9349101		ORIGINATING DATE OF DRAWING:	
		U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER BELL, NEW JERSEY 07823	
		CHIEF DESIGNER: J.W.H.	SECOND DESIGNER: J.W.H.
TO WHOM OR DRAWINGS:		FUNCTIONS:	APPROVALS:
9349100 MISCELLANEOUS		D 19200	
REF. AND DATE:		9349101	
APPLICABILITY:		Sheet 1 of 1	



REVISIONS					
MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	C		REPLACES REV B W/ CHANGE SEE ERR HQR 20778	6 OCT 72	<i>Y B</i>
	D		NOR W9S2009 80-02-13	30-05-16	<i>Y C</i>
	E		NOR W2S 0011 / 82-04-13 (ECP W3S 3120 / 83-07-07)	83-11-04	<i>Y D</i>
	F		ERR Z9Z1251W (ECP G9S2036/890721)	9000403	<i>Y E</i>
	G		NOR G1S2018 91-07-08	91-10-11	<i>Y F</i>

SPRING, HELICAL, COMPRESSION

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NOTES:

1. WIRE, STEEL, CARBON, SPRING, MUSIC, SPEC ASTM-A228. TENSILE STRENGTH SHALL BE 376,000 MIN.
2. STRESS RELIEVE AFTER FORMING. HOLD AT 475° F ± 25° FOR 30 MINUTES.
3. SET SPRING 3 TIMES AFTER STRESS RELIEF.
4. MIL-W-13855 APPLIES.
5. BREAK SHARP EDGES .003 + .012 .

WIRE DIAMETER _____
COIL DIAMETER (OD) _____
FREE LENGTH AFTER SETTING _____
TOTAL COILS _____
DIRECTION OF HELIX _____
LOAD AT COMPRESSED LENGTH OF .850 _____
LOAD AT COMPRESSED LENGTH OF .784 _____
SPRING RATE _____
SOLID LENGTH _____
TYPE OF ENDS _____
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE A, MIL-S-13572

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES: ANGLES: 1/8 INCHES
3 PLACE DECIMALS: .005
2 PLACE DECIMALS: .001
MATERIAL: C8448509 MIGAI
F8448604 MIGAI
F8448578 MIGAI
NEXT ASSY USED ON FINAL PROTECTIVE FINISH

CONTRACT NO: 8448516
DATE 27 APR 70
PREP PV E
CHK GD LK
ENGR RE LK
SUBMITTED SEE NOTE I
A.A. COLE APPROVED R.S. HENRY
APPLICATION

ROCK ISLAND ARSENAL,
ROCK ISLAND, ILL 61201

SPRING, EJECTOR AND
SAFETY DETENT

FSCM NO. 19200
CURRENT
U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 0801

PART NO. 8448516

SCANNED DUPLICATE ORIGINAL

AMSW Form 403B, 29 Jul 69

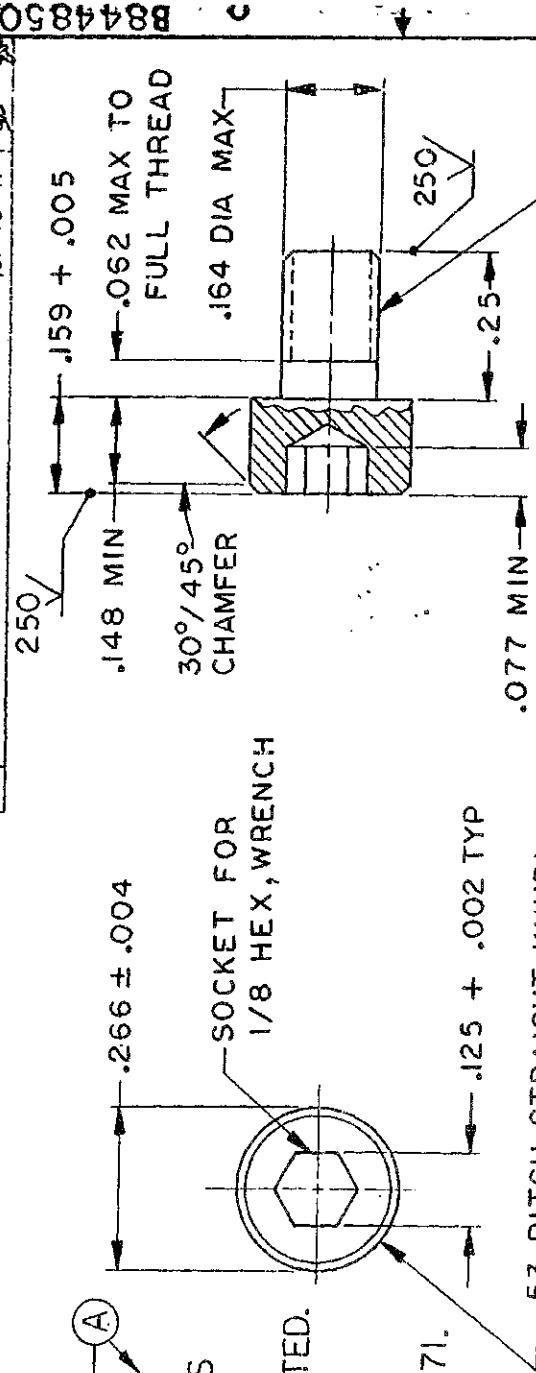
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IS THE SOURCE OF FUNDING FOR THE ACQUISITION OF THIS EQUIPMENT. THE GOVERNMENT IS THE CONTRACTOR
AND THE GOVERNMENT IS THE END USER. THIS EQUIPMENT IS UNCLASSIFIED.

NOTES:

1. STEEL, CMPSN 4037, SPEC
ASTM A322.
2. HEAT TREATMENT: QUENCH
AND TEMPER TO HARDNESS
SPECIFIED.
3. FINISH 125/
EXCEPT AS NOTED.
4. BREAK ALL SHARP EDGES
.005+.005.
5. FINISH 5.3.1.2 OF MIL-STD-171.
6. MIL-W-13855 APPLIES. (A)

DISTRIBUTION STATEMENT: FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASCMC-AR OR HIGHER DOD AUTHORITY 92-06-22.

NOTES:		REVISIONS		DESCRIPTION		DATE APPROVED	
D	NOR G2S3C059 (ECP G2S3O60)	920716 920630	32	MF ZONE	LIR	REDRAWN FROM COLTS DRAWING	27 APR 70
						C92201 REVISION A	
				A		A (4) SEE ERR HQR 20778	
	B NOR W9S2009					6 OCT 72 REC	
	C NOR GIS2018	91-07-03				80-05-16 REC	
						91-10-11 REC	



#8-32-UNC-2A
ROLLED THREAD

CURRENT
CODE IDENT NO.

19200
US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

DEPT OF THE ARMY
US ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

SCREW, CAP,
HEX SOCKET HEAD

SIZE CODE IDENT NO.
B 19204

DRAWING NO.
8448508

SCALE 5/1 SHEET 1 of 1

CDI

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES
ANGLES
3 PLACE DECIMALS ± .005
2 PLACE DECIMALS ± .01
MATERIAL

MECHANICAL PROPERTIES		CONTRACT NO
YS MIN		DATE 27 APR 1970
YS MAX	8448505 M4	PREP <i>Offy</i> R. <i>Offy</i>
EL2	M16	CHK <i>Offy</i> <i>Offy</i>
RA	C8448505 M16A1	ENGR <i>Offy</i> <i>Offy</i>
BH	NEXT ASSY USED ON	SUBMITTED <i>Offy</i> <i>Offy</i>
	APPLICATION	APPROVED <i>Offy</i> <i>Offy</i>

(A)

AMSW Form 403B, 29 Jul 69

October 18, 2004 10:53 AM

BRIEF REPORT

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NOTES:-

1 - SPEC. MIL-W-13855 AND ANSI Y14.5 -73
APPLY.
2 - MATERIAL :- TRIGGER CASTING - 9390737.

3 - ALL DIMENSIONS EXCEPT DIMENSIONS IN AREA IDENTIFIED BY NOTE 10 APPLY BEFORE FINA' PROTECTIVE FINISH.

4 - BREAK SHARP EDGES .005 +.010 UNLESS
OTHERWISE NOTED.

5-FILLET RADIUS .015-.012 UNLESS OTHERWISE
NOTED.
6-IE MACHINED ACTED AS AN IDEAL ONE MM

8-17 MACHINED AT THE REAR AREA, .003 MAX
8-17 SCREW REMOVAL PERMISSIBLE.
7 SCREW AFTER USE OF TUBE AND CROWN PROTECTIVE

- GRIND AFTER HEAT TREATMENT AND FINAL PROTECTIVE FINISH, MAX METAL REMOVED BY GRINDING .005.
B- HEAT TREATMENT - GAS CARBURIZE TO PRODUCE

HEAT INCANDESCENT GAS CARBONIZE TO PRODUCE A TOTAL CASE DEPTH OF .010 TO .014. HARDEN & TEMPER TO PRODUCE A SURFACE HARDNESS EQUIV. TO RH 15N 88.5 TO 90.

9-FINISH 125 ✓ ALL SURFACES, EXCEPT AS NOTED.

10-NO FINAL PROTECTIVE FINISH IN THIS AREA,
COAT WITH A CORROSION RESISTANT OIL PER
MIL-L-315C.

11-PROTECTIVE FINISH:- 5.3.1.2 OF MIL-STD-171.
12-FINISHED PART SHALL BE CAPABLE OF MEETING

MIL-STD-2175, CLASS 3, GRADE A.
13- FEATURES SO IDENTIFIED MAY BE PRODUCED AS
FACTS CONCERNING THE PRODUCTION OF

14- NO FLASH PERMISSIBLE AT DATUM TARGET BU 1 LOCATION
15- PROVIDED THEY MEET THE FINAL DIMENSIONAL
CHARACTERISTICS SPECIFIED HEREIN.

MI
WI

PROJECTS

PROJECT
PERMISSIBLE
CLOUD MAY

(.225) 

A technical drawing of a stepped rectangular part. The top edge has a total length of 1.145 inches, divided into two segments: .810 MAX on the left and .335 on the right. The bottom edge has a total length of .660 DIA MAX, divided into two segments: .335 on the left and .335 on the right. A note to the right indicates "2 PLACES".

NOTE 13
EFFECTIVE
2 PLACES

DETAIL B
SCALE : 4/1

CAS

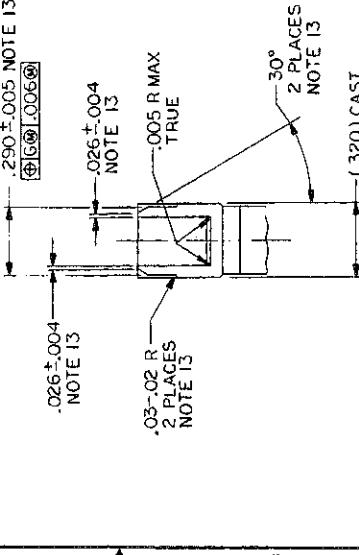
.125⁺
ONLY
.49 + .02 Ø
④ D ④ B C ④ Ø C ④
2 D 2 C 2 C

DETAIL D

४ द्वितीय

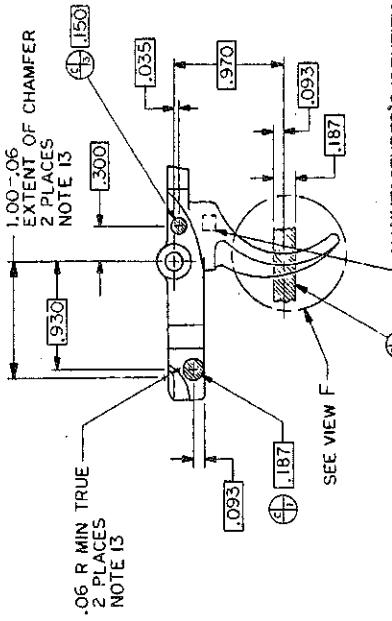
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CLASSIFICATION		DATE		APPROVAL	
LEVEL	TYPE	MONTH	YEAR	INITIALS	NAME
~	PRODUCTION RELEASE	05/02/94			
~	ERR445002B-841016				
NOR	55510267	05-07-23	860524	A	
A	(ECP WES 302 37 86-05-27)				
NOR	55510269	05-07-15	860524	A	
F	(ECP GEC 302 37 86-06-09)				
G	NOR G553006 380903	05-08-11	860811	A	
H	NOR G553006 380903	05-10-01	861001	A	
H	NOR G553006 380903	05-10-01	861001	A	



VIEW E
SCALE 4/1

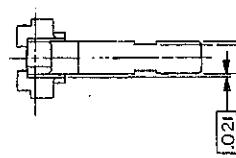
VIEW E
SCALE 4/1



MANUFACTURER'S IDENTIFICATION
MARK: 125⁺.05 HIGH, 105 MAX
NEGATIVE ONLY, IN APPROX POSITION
SHOWN

.008 MAX, 2 PLACES
OPTIONAL DATUM
REFERENCE SURFACE

VIEW



C		B		A
<p>0008 MAX, 2 PLACES OPTIONAL DATUM REFERENCE SURFACE</p>				
<p>1) 9390736 MANUFACTURED IN RESEARCH AND DEVELOPMENT CENTER COVER SHEET JUNE 1980</p>				
<p>TRIGGER NO. 9390736</p>				

DISTRIBUTION STATEMENT: FURTHER DISTRIBUTION
ONLY AS DIRECTED BY ASQNC-AR OR HIGHER DOD
AUTHORITY; 22-06-22.

		DRAWING DATE OF DRAWING 85-02-04	
		DRAWN BY <i>J. J. H.</i>	
		DESIGNED BY <i>J. J. H.</i>	
		APPROVED BY <i>J. J. H.</i>	
		REVIEWED BY <i>J. J. H.</i>	
		APPLIED FOR PATENT	
		PRINTED IN U.S.A.	
		U.S. ARMY AMMUNITION RESEARCH AND DEVELOPMENT CENTER OVER, NEW JERSEY 08860	
		PART TWO - DRAWING NO. 30	
		TRIGGER	
MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON DIMENSIONS ± TRACTORS ± RADS ±		TOLERANCES ON DIMENSIONS ± TRACTORS ± RADS ±	
APPLICANT		FSCM. NO. D 192000	
SCALE 2:1 <i>Standard Drawing</i>		SCALE 2:1 <i>Standard Drawing</i>	

NOTES.—

— SPEC MIL-W-13855 AND ANSI Y14.5-73

UNITED STATES

WIRE, STAINLESS STEEL, TYPE 631 (17-7 PH),
COLD DRAWN: ASTM-A313.

- WIRE DIAMETER := 0.200 + 0.005

— DIRECTION OF HELIX :— OPTIONAL .

TOTAL NO. OF COILS:- (7.5)
LOAD AT COMPRESSED LENGTH

.263 :— 2.1 LBS ± .21 LBS.

-MAX. SOLID HEIGHT : = .154.
-BREAK SHARP EDGES 003±012

125 /

— FINISH: → ALL SURFACES
MANUFACTURE IN ACCORDANCE

MANUFACTURED IN ACCORDANCE WITH
TYPE 1, GRADE B, MIL-S-13572
EXCEPT PARAGRAPH 4.4.4.1 SHALL
NOT APPLY.

— PRECIPITATION HEAT TREAT AFTER FORMING. HOLD AT $900^{\circ}\text{F} \pm 10^{\circ}\text{F}$ FOR ONE HOUR. AIR COO.

HARDNESS EQUIV TO ROCKWELL C48 MIN.

-TYPE OF ENDS :— ONE CLOSED AND GROUND.
ONE CLOSED, FLARED AND
GROUND.

-PROTECTIVE FINISHES

PRINCIPLES: - 3.4.1 OF MIL-STD-171.

- FOR ASSEMBLY OF DISCONNECT SPRINGS TO TRIGGER USE OPTIONAL
KEY AND SPRING INSERT TOOL DRAWING NO. (D12011964) OR
SPLIT AND SPRING

PART NO. 933491-16

334916 INSTITUTE RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

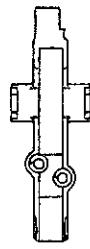
A			
SPRING, DISCONNECT			
		M	INCHES - DEW
		ENGR	ENGR
		ENSR	ENSR
TOLENCES ON DECIMALS ± FRACTIONS ± ANGLES ±			
TS	EL2		
	BA		
	BH		
NEXT ASSY	USED ON		
9332518	M4		
9349115	M16A2		
APPLICATION	RH		
		SIZE	FEAR NO.
		C	19200
			9349116

FEDERAL BUREAU OF INVESTIGATION - U. S. DEPARTMENT OF JUSTICE

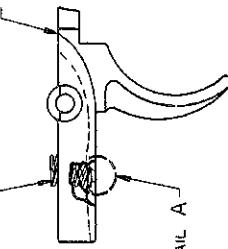
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NOTES: —
1 ~ SPEC MIL-W-13855 AND ANSI Y14.5 -73 APPLY.
2 FOR ASSEMBLY OF DISCONNECT SPRINGS TO TRIGGER USE
OPTIONAL KEY AND SPRING INSERT TOOL DRAWING NO.D12011964
OR SIMILAR DEVICE.



—2-SPRING, DISCONNECT-9349116



SEE DETAIL



LARGE DIAMETER OF SPRING MUST BE
SEATED FULLY IN THE RECESS.

FOR ENGINEERING PARTS LIST SEE PL 9392518

MECHANICAL PROPERTIES		DO NOT SOLVE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS AND WORKS TOLERANCES ON DRAWINGS *		ORIGINAL DATE OF DRAWING 8-5-02-04		U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DRAFTER: NEW JERSEY STATE	
				DRAWN BY: CHECKED BY:		TRIGGER - SUBASSEMBLY	
				ENGR / ANALYST / CRAFTS / INSPECTOR / CRAFTS /			
				FRACTIONAL *		ANGLES *	
				1/16		1/16	
				1/32		1/32	
				1/64		1/64	
				1/128		1/128	
				1/256		1/256	
				1/512		1/512	
				1/1024		1/1024	
				1/2048		1/2048	
				1/4096		1/4096	
				1/8192		1/8192	
				1/16384		1/16384	
				1/32768		1/32768	
				1/65536		1/65536	
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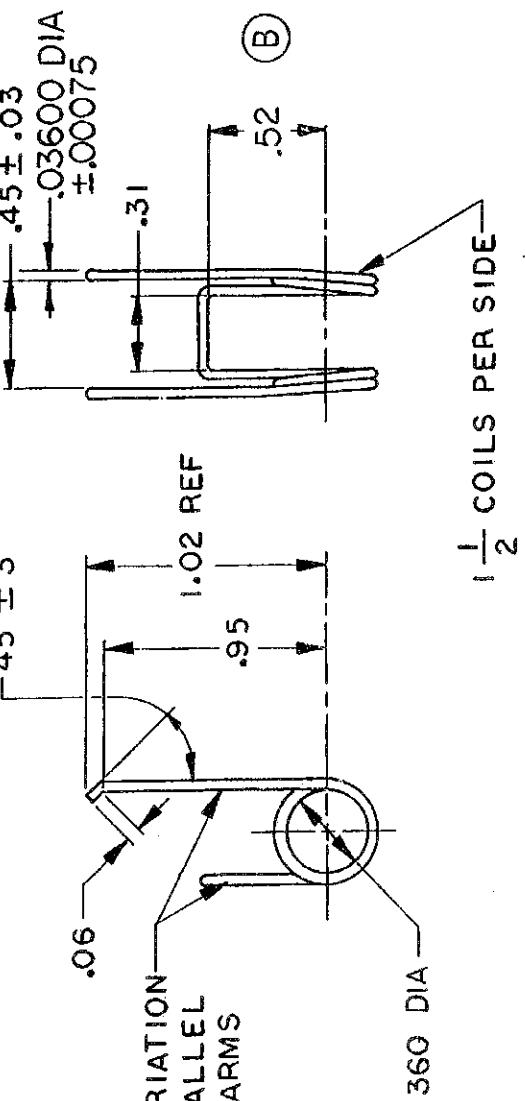
REVISIONS		DESCRIPTION	DATE	APPROVED
ME.	ZONE LTR	REDRAWN FROM COLT'S DRAWING	27 APR 70	
		B61657 REVISION B		
A	(1)	SEE EO HRD 02197-3	15 JULY 70	100005
	(3)	SEE EO HQR 10639	20 FEB 71	100005
C	(2)	SEE ERR HQR 20778	6 OCT 72	100005
D		NOR W952009 80-02-13	80-05-16	100005
E		NOR W250011 / 82-04-13 (ECP W2500 34 / 82-07-15)	83-11-04	100005
F		NOR GOS3100/90-06-28	900815	100005

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NOTES.

2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH-900. HOLD AT $900^{\circ}\text{F} \pm 10^{\circ}$ FOR 1 HOUR. AIR COOL.
 3. TORQUE REQUIREMENT:
 $1.5 \pm .27$ LB IN. TORQUE
AT 45° DEFLECTION
 4. FINISH 5.4.1 OF MIL-STD-171.
 5. MIL-W-13855 APPLIES.



<p>U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER</p> <p>DOVER, NEW JERSEY 07801</p>	<p>CURRENT</p> <p>FSRM NO 19200</p>
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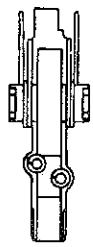
MECHANICAL PROPERTIES		M4	DATE 27 APR 1970	UNLESS OTHERWISE SPECIFIED TOLERANCES : ANGLES $\pm .005$ 3 PLACE DECIMALS $\pm .005$ 2 PLACE DECIMALS $\pm .01$	
YS	9390011	MIN	PREP C-9-A	CHK	ENG R
YS	9349115	M16A2	REVIEWED	REVIEWED	REVIEWED
MAX	F 9327230	M 231	SUBMITTED	APPROVED	DRAWING NO.
EL 2			J. J. Henry	J. J. Henry	B 19204
RA					SCALE 2 / 1
BH					SHEET 1 OF 1
RH					
		SEE NOTE 1	SEE NOTE 4		
		NEXT ASSY	USED ON		
			APPLICATION		

ANSWER FORM 403B 29 Ju 69

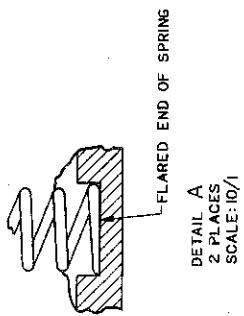
REVISIONS		DATE	APPROVAL
STN#	DESCRIPTION	DATE	
	PRODUCTION RELEASE	08-06-14	7/22/14 -
	ENTER 2013		
A	NOR WMS20395 / 8410-16 NOR WMS20395 / 8410-21	08-06-14	7/22/14 -

NOTES:—
I - SPEC. MIL-W-13855 AND ANSI Y14.5 - 73 APPLY.

TRIGG
9392



SPRING, TRIGGER - 8448593



DETAIL A
2 PLACES
SCALE: 10'/1

FOR ENGINEERING PARTS LIST SEE PL 9349115

PART NO. - C-1000-1		ORIGINAL DATE OF DRAWING 02-07-65	PARKER HANNAH AND DEVELOPMENT CENTER 153 MARY ANN DRIVE, NEW JERSEY 07043	
MECHANICAL DETAILS		DRAWN BY W.M. GOREN DEW		REVIEWED BY
NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ON DIMENSIONS & ANGLES ± .005		APRIL 1965
FRACTIONAL & DECIMAL INCHES		INCHES		1965
INCHES		INCHES		1965
9349115		9349115		1965
NEXT REV. NO.		USED ON		1965
APPLICATION				
MAGNETIC				

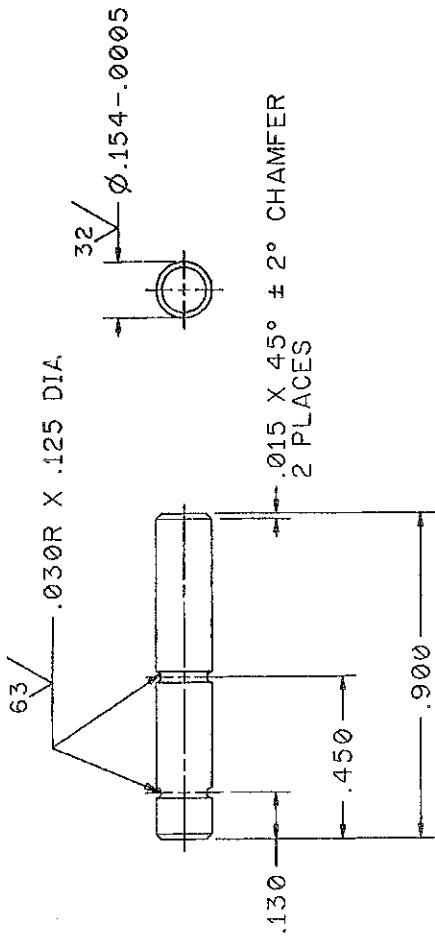
TRIGGER ASSEMBLY

PROBLEMS FROM 60 AND 77 ENTHALPY FORMULAS FOR THE 72 WATERS

NOTE:

1. FINISHED ¹²⁵ EXCEPT AS NOTED.
2. BREAK ALL SHARP EDGES .005 MAX.
3. FINISH 5.3.1.2 OF MIL-STD-171.
4. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES.
6. MATERIAL: COLD FINISHED ALLOY STEEL BAR, GRADE 4130 OR 4140, ASTM A331, COLD HEADING QUALITY.

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE (YR NO DR) APPROVED
H	N	NOR G3S2032/930817 (ECP G3S3093/930910)	931108 RJC



THIS DRAWING HAS BEEN GENERATED
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INTO THIS SYSTEM.

CURRENT DESIGN ACTIVITY CAGE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICTNNG, ARSENAL, NEW JERSEY 07806-3000

PART NO. 8448609

PMIC	DO NOT SCALE DRAWING	CONTRACT NUMBER
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMAL FRACTION		
MECHANICAL PROPERTIES	2 PL ± #	DRAWN BY PEM DATE(YR-MO-DA)
YP	9390011 M4	CHECKER DHW 700427
TS	F8448604 M16	ENGINEER D. SMART
EL2	F8448578 M16A1	DRAWING APPROVAL
RA	NEXT ASSY USED ON MATT ENGR	F. P. GILHOOLY
BH	RH SN 72.5-75 APPLICATION	DESIGN APPROVAL
		R. S. HENRY

SMCAR FORM 67.1 DEC 87(TEMP) REPLACES SMCAR FORM 67.1 MAR 87(TEMP),
WHICH MAY BE USED UNTIL EXHAUSTED



NOTES :—
1 - SPEC. MIL-W-13655 AND ANSI Y14.5 - 73
APPLY.

2 - MATERIAL : HAMMER CASTING - 9349112.
3 - ALL DIMENSIONS APPLY WHEN LOCATED ON
[E] AND [C].

4 - ALL DIM. EXCEPT THOSE DEFINING [C] ARE
BEFORE FINAL PROTECTIVE FINISH.
5 - SURFACES SO NOTED [E][F][G].

6 - BREAK SHARP EDGES .005 + .00 UNLESS
OTHERWISE NOTED.

7 - FILLET RADII .015 - .012 UNLESS OTHERWISE NOTED.

8 - GRIND [C] AFTER HEAT TREAT AND FINAL PROTECTIVE
FINISH, DIRECTION OF GRIND [T1 F]. MAX METAL
REMOVED BY GRINDING .005.

9 - HEAT TREATMENT : - CARBURIZE CASE DEPTH .014
TO .018 TOTAL. CASE HARDNESS EQUIV. TO RH 30N
75 TO 79.

10 - FINISH \checkmark ALL SURFACES EXCEPT AS NOTED.
11 - COAT GROUND SURFACE [C] WITH CORROSION RESISTING
OIL PER MIL-L-46000 OR MIL-L-63460.

12 - PROTECTIVE FINISH : - 5.3.1.2 OF MIL-STD-171.

13 - NO FINAL FINISH REQUIRED IN THIS AREA. COAT WITH
CORROSION RESISTING OIL PER MIL-L-46000, OR
MIL-L-63460.

.03 + .07 R

.156 ± .002 @ THRU
[C] .006 [G]

.050 R MAX

.235 -.010

.273 -.004 R

.015 MAX

(SURFACE [C])
NOTES 4,5,6 & 11

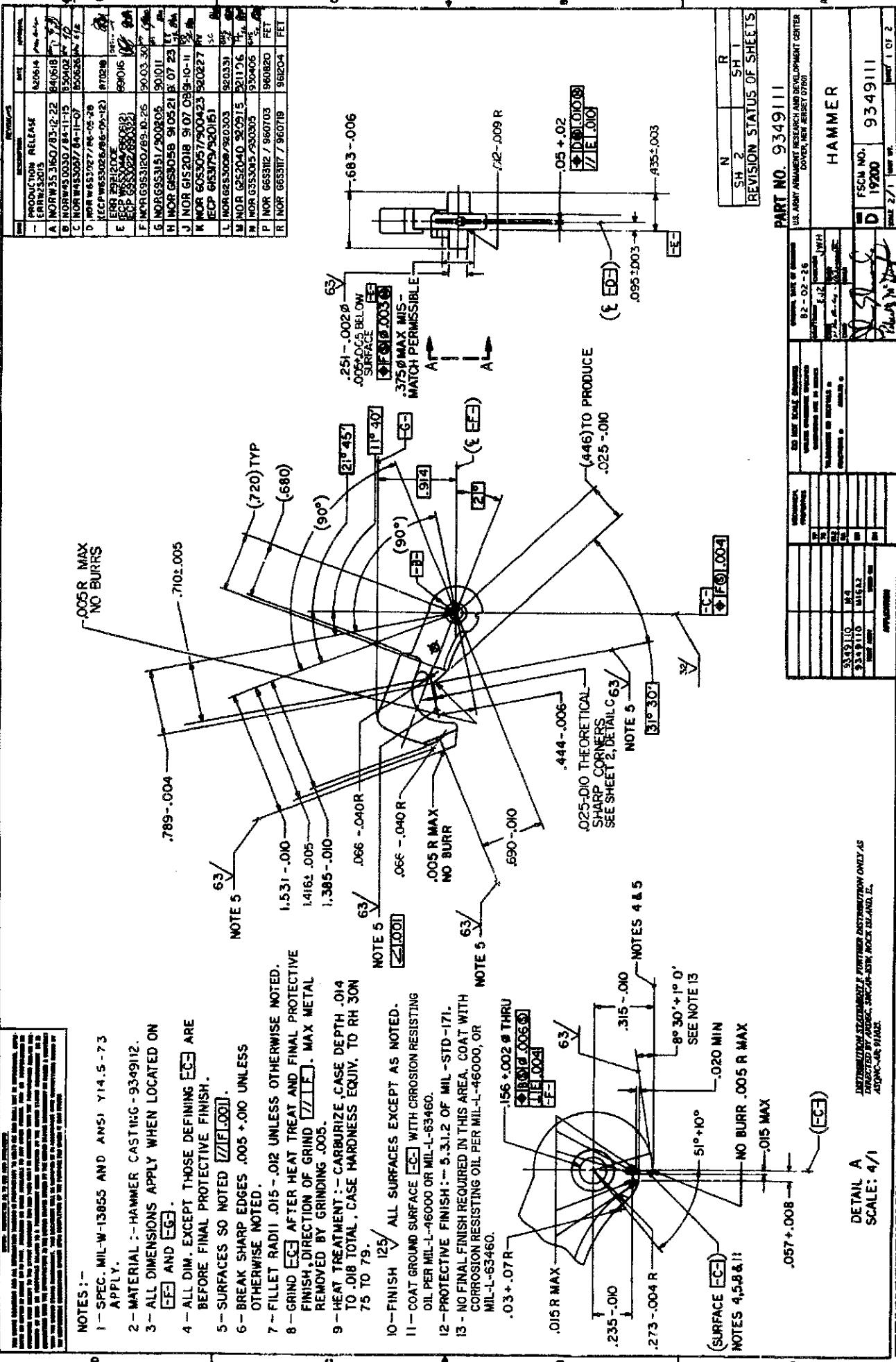
.037 + .008 —
.015 MAX

$8^{\circ} 30' + 1^{\circ} 0'$
SEE NOTE 13

.020 MIN

DETAIL A
SCALE: 4/1

DISTRIBUTION STATEMENT A - RESTRICTED DISTRIBUTION ONLY
DRAFTED BY: ANGE, SAWYER-ARMED FORCES LABORATORY
ASTRON-AIR PLANE



PART NO. 9349111

U.S. ARMY RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

HAMMER

FSCN NO. D 19200

9349111

Sheet 1 of 2

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NOTES: —
1...SPEC. MIL-W-13955 AND ANSI Y14.5-73

APPLY.
2-MATERIAL:— AISI 1050
3-.000 TO .005 MISMATCH PERMISSIBLE ON
THIS SURFACE.
4-TRANSITION TO BE FREE OF STEPS.

5- MISMATCH BETWEEN (.210) DIMENSION AND
 (.420) Ø OR FLAT ON (.420) Ø PERMISSIBLE
 WITHIN DIMENSION TOLERANCES.
 7-BREAK SHARP EDGES Ø05+.010 EXCEPT AS NOTED.
 3-BALANCE ROLL .015-.012.
 1-HARDEN TO ROCKWELL C-18 TO 50

3. FINISH C-491 10 SEC.
 4. C-491 ALL OVER.
 5. CLEAN IN ACCORDANCE WITH TT-C-490 METHOD III OR
 IV. PROTECTIVE FINISH 5.3.12 OF MIL-STD-171, EXCEPT
 OMIT ABRASIVE BLAST.
 6. .023 MIN. TOOTH HEIGHT REQUIREMENT LIMITS USE
 OF FULL TOE TOLERANCE BAND ON THE .60 Ø AND THE
 .293 DIM AT POSITIVE TOLERANCE EXTREMES.

.025 MIN.
TO THE
THEORETICAL
SHARP CORNERS
NOTE 12
APPLIES

DETAIL - B

NOTE -12

This technical drawing illustrates a circular component with several features and associated dimensions and surface treatments:

- Outer Diameter:** .032 +.002
- Surface Treatment:** (A) B 00
- Top Surface:** 2 PLACES
- Bottom Surface:** 2 PLACES
- Radius:** .10
- Angle:** -43° + 4°
- Left Side:** SEE VIEW C
- Left Edge:** A
- Left Hole:** .005 R MAX
4 PLACES
- Left Hole:** ALL AROUND
- Left Hole:** (A) B 005
- Left Hole:** 2 PLACES
- Right Hole:** .55 R
2 PLACES
- Right Hole:** NOTE 4
6 PLACES
- Right Hole:** NOTE 6
2 PLACES
- Right Hole:** .010 MAX
6 PLACES
- Right Angle:** 22°
- Right Edge:** TO THE SHARP CORNER
ON [640] Ø - 6 PLACES

SECTION A - 1

DETAIL C
SCALE - 8 / 1

Technical drawing of a mechanical part, likely a bearing housing or sleeve, with the following dimensions and notes:

- Outer diameter: $.255 \pm .005$ R 4 PLACES
- Inner bore diameter: $.19 \pm .01$
- Width: $.055 \pm .002$ R 4 PLACES
- Number of teeth: 6 TEETH EQUALLY SPACED ON $.540 \pm .005$ Ø
- Note: NOTE 12 APPLIES
- Detail A dimensions:
 - Width: $.032 \pm .002$ R 4 PLACES
 - Height: $.010 \pm .002$ R 4 PLACES
- Detail B dimensions:
 - Width: $.210 \pm .005$ R 2 PLACES
 - Angle: $43^\circ \pm .4^\circ$
- Surface finish: ALL AROUND
- See Detail B

SEE VIEW C

L-39 R
2 PLACES

NOTE 4
6 PLACES

NOTE 6
2 PLACES

NOTE 6
2 PLACES

ODOR MAX
6 PLACES

22°
TO THE SHARP CORNER
ON [6540] Ø - 6 PLACES

Technical drawing of a mechanical part with the following dimensions and features:

- Top Surface:** .005 +.005 x 45° CHAMFER 2 PLACES AS SHOWN
- Left Side Vertical Dimension:** .23-.01
- Left Side Horizontal Dimension:** .073-.006
- Bottom Horizontal Dimension:** .252 +.002 Ø
- Right Side Horizontal Dimension:** .162-.010
- Right Side Vertical Dimension:** .145 +.020
- Bottom Center Hole:** .002 Ø \varnothing .003 Ø
- Left Center Hole:** \varnothing A(M) Ø .005 Ø
- Left Edge Tolerance:** .385 -.005 Ø
- Bottom Edge Tolerance:** .002 Ø \varnothing .003 Ø
- Front Edge Tolerance:** .015 +.010 x 45° CHAMFER

PART NO. 9349108	
U.S. ARMY AMMUNITION RESEARCH AND DEVELOPMENT CENTER QUARTER, NEW JERSEY 07071	
CAM, BURST (3 SHOT)	
FSCM NO.	9349108
DATE	D 19200
SCALE	1/1
LINEAR	INCHES
BUREAU 1 OF 1	

S	ORIGINAL DATE OF DRAWING 82-02-26	REVISION NUMBER 0
DRAWN BY M.M. CHECKED BY J.W.H.		APPROVED BY E.DER
		DESIGNER E.DER
		INSPECTOR E.DER

DO NOT SCALE DRAWINGS UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DIMENSIONS & FINISHES & ANGLES *

ADMISIÓN FRENTE AL AÑO 72 REEMPLAZA JAPÓN DESDE 1972 MÉJICO HASTA 2000 UNIDA. EXPEDIENTE

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D NOTES :—

1—SPEC MIL-W-13855 AND ANSI Y14.5-73
APPLY.

2—MATERIAL :- MUSIC WIRE PER ASTM-A228

- 3—WIRE DIAMETER $.047 \pm .002$
- 4—DIRECTION OF HELIX — AS SHOWN.
- 5—TOTAL COILS — AS SHOWN.
- 6—PITCH— CLOSE WOUND.
- 7—NO TOOL MARKS PERMITTED.
- 8—BREAK SHARP EDGES $.005 \pm .010$.

9—FINISH $\sqrt{.63}$ ALL SURFACES.

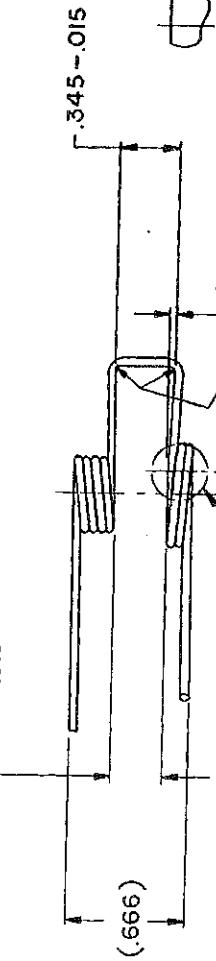
10—STRESS RELIEVE AT $525 \pm 25^{\circ}\text{F}$ FOR

30 MINUTES AFTER FORMING.

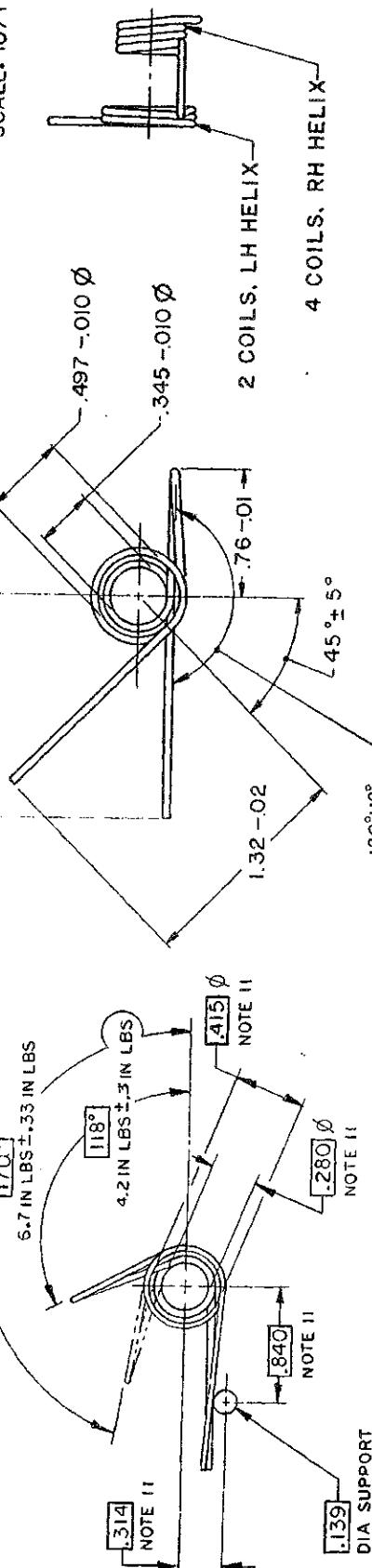
11—SPECIFIED LOADS APPLY WHEN INSPECTED UPON SPECIFIED DIA'S AND AT DIM'S SHOWN.

12—FINISH: OIL-CLP PER MIL-L-63460.

$.285 \pm .010$



DETAIL A
SCALE: 10 / 1



PART NO. 9349107

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

A SPRING, HAMMER

SCALE	FSCM NO.	C 19200	9349107
SCALE 2 / 1	UNIT WT.	Ruler 1 gm	SHEET 1 OF 1

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D NOTES :—

1—SPEC. MIL-W-13855 AND ANSI Y14.5 - 73
APPLY.

2—MATERIAL :—WIRE, STAINLESS STEEL, TYPE
631 (17-7PH), COLD DRAWN, ASTM A313.

3—WIRE DIAMETER — .032 — .001

4—DIRECTION OF HELIX — RIGHT HAND.

5—TOTAL COILS — 3.5 REF.

6—PITCH— CLOSE WOUND.

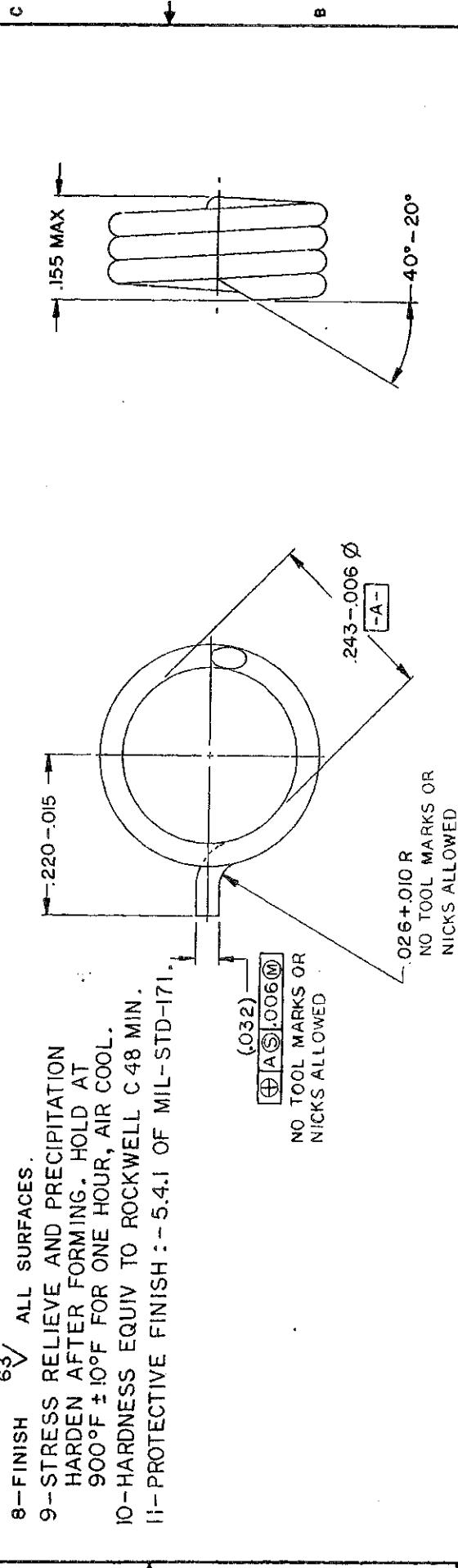
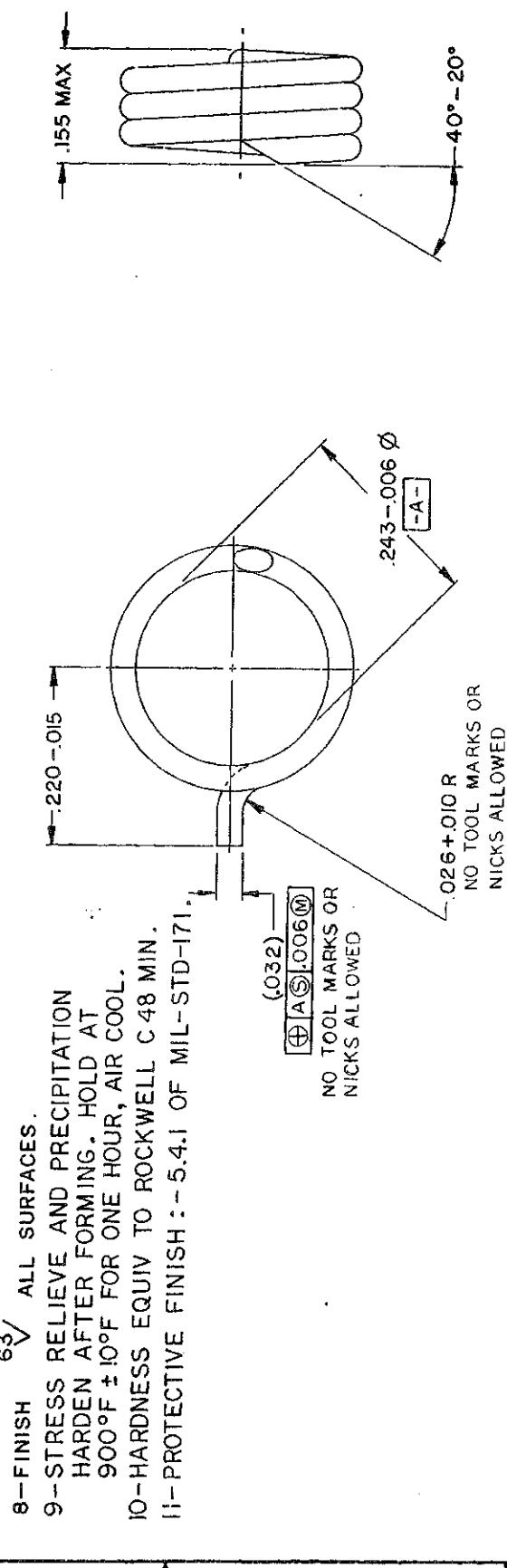
7—BREAK SHARP EDGES .003 + .012 .

8—FINISH $\sqrt{63}$ ALL SURFACES.

9—STRESS RELIEVE AND PRECIPITATION
HARDEN AFTER FORMING. HOLD AT
 $900^{\circ}\text{F} \pm 10^{\circ}\text{F}$ FOR ONE HOUR, AIR COOL.

10—HARDNESS EQUIV TO ROCKWELL C 48 MIN.

11—PROTECTIVE FINISH :— 5.4.1 OF MIL-STD-171.

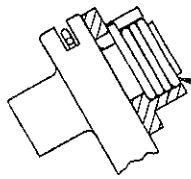


PART NO. 9349109

MECHANICAL PROPERTIES			ORIGINAL DATE OF DRAWING 82-02-26	U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801	
ITEM	DESCRIPTION	DATE APPROVED	DRAFTSMAN M.M.	CHECKER D.E.W.	
EL2	TP	82-02-26	ENGR. <i>[Signature]</i>	ENGR. <i>[Signature]</i>	
9390032	TS				
9349106	M4				
	M16A2				
NEXT ASSY	USED ON	RH			
	APPLICATION				

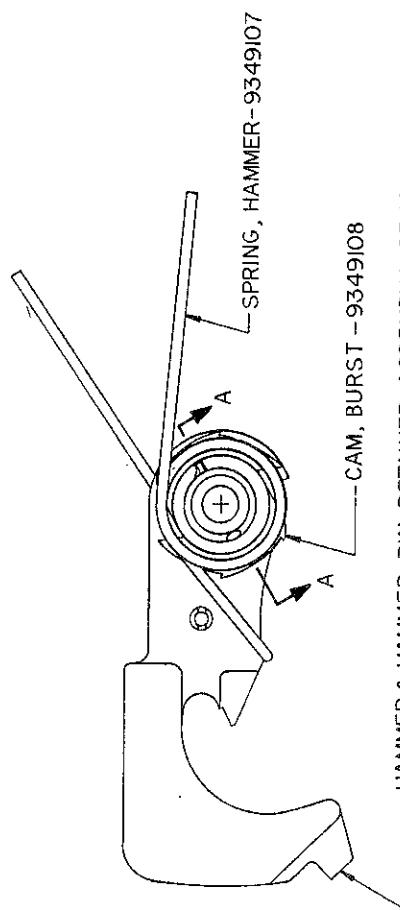
NOTES:—
1.—SPEC. MIL-W-13855 AND ANSI Y14.5-73 APPLIC.

ITEM	DESCRIPTION	REVISIONS		APPROVAL
		DATE	INITIALS	
- PRODUCTION	RELEASE	8/05/14		
ERW-25205				
A NORWEGIAN	8/4-1-15	8/05/14		



L-SPRING, CLUTCH - 934909

**SECTION A-A
WITH (SPRING, HAMMER-9349107) REMOVED**



HAMMER & HAMMER PIN RETAINER ASSEMBLY-9349110

FOR ENGINEERING PARTS LIST SEE PL 9349106

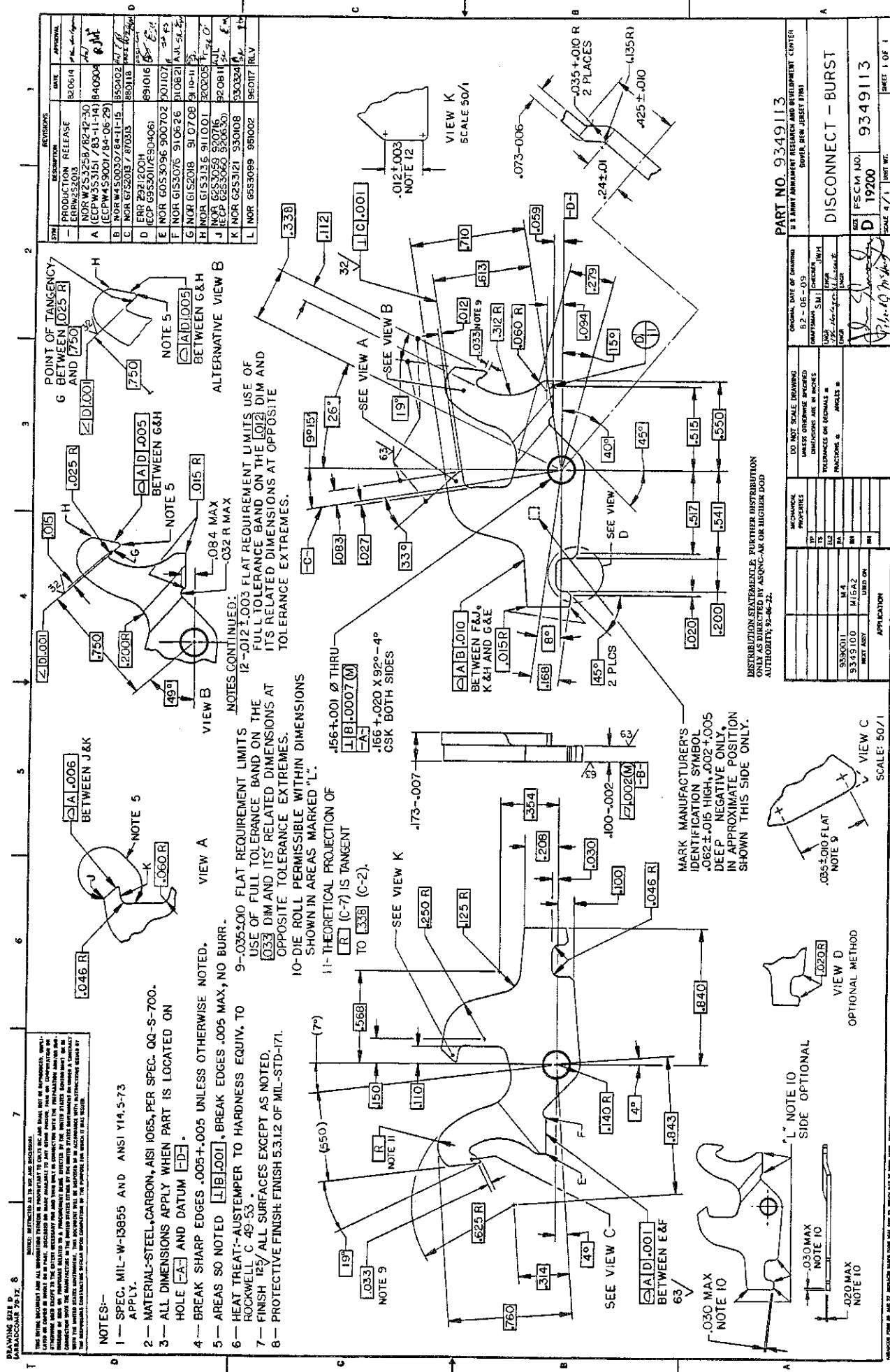
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NOTES:-
1 — SPEC. MIL-W-13855 AND ANSI Y14.5-73
APPLY.
2 — MATERIAL-STEEL, CARBON, AISI 1065, PER SPEC. QC-S-700.
3 — ALL DIMENSIONS APPLY WHEN PART IS LOCATED ON
HOLE [-E] AND DATUM [-D].
4 — BREAK SHARP EDGES .005+.005 UNLESS OTHERWISE NOTED.
5 — AREAS SO NOTED [■■■■■], BREAK EDGES .005 MAX., NO BURR.
6 — HEAT TREAT-AUSTEMPER TO HARDNESS EQUIV. TO
ROCKWELL C 49-53.
7 — FINISH 125/ ALL SURFACES EXCEPT AS NOTED.
8 — PROTECTIVE FINISH: FINISH 5.3.12 OF MIL-STD-171.

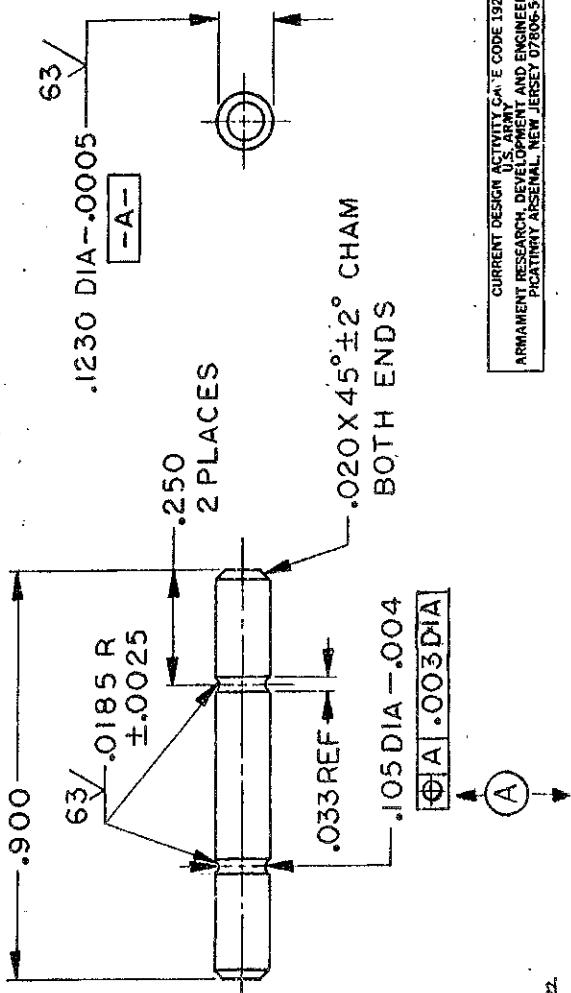
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6 — HEAT TREAT-AUSTEMPER TO HARDNESS EQUIV. TO
ROCKWELL C 49-53.
7 — FINISH 125/ ALL SURFACES EXCEPT AS NOTED.
8 — PROTECTIVE FINISH: FINISH 5.3.12 OF MIL-STD-171.



PART NO. 9349113		U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER	
ORIGINAL DATE OF DRAWING	04-22-05 - DS	DRAWING NUMBER	JW/H
UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	CREATOR'S NAME	WILLIAM H. JONES
DIMENSIONS ARE IN INCHES	INCHES	DATE DRAWN	04-22-05
TOLERANCES ON DIMENSIONS	INCHES	LAST REVISED	04-22-05
FRACTIONAL & DECIMAL	INCHES	APPROVALS	
NOTES	INCHES	APPROVALS	
MATERIAL	INCHES	APPROVALS	
PROCESS	INCHES	APPROVALS	
METHOD	INCHES	APPROVALS	
OPTIONAL METHOD	INCHES	APPROVALS	
VIEW C	INCHES	APPROVALS	
SCALE: 50:1	INCHES	APPROVALS	
VIEW D	INCHES	APPROVALS	
NOTE 10 SIDE OPTIONAL	INCHES	APPROVALS	
.030 MAX NOTE 10	INCHES	APPROVALS	
.020 MAX NOTE 10	INCHES	APPROVALS	
DISCONNECT - BURST	INCHES	APPROVALS	
PART NO. 9349113	INCHES	APPROVALS	
D 19200	INCHES	APPROVALS	
SCALE 4:1 INCH WT.	INCHES	APPROVALS	
SHEET 1 OF 1	INCHES	APPROVALS	

1	2	3	4	5																																								
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<p>D NOTES:</p> <ol style="list-style-type: none"> 1. FINISH $12\frac{5}{8}$ EXCEPT AS NOTED. 2. BREAK ALL SHARP EDGES .005 MAX. 3. FINISH 5.3.1.2 OF MIL-STD-171. 4. HEAT TREATMENT: QUENCH \textcircled{A} AND TEMPER TO HARDNESS SPECIFIED. 5. MIL-W-3855 APPLIES. \textcircled{A} 																																												
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>REF.</th> <th>MF ZONE LTR</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td>S</td> <td></td> <td>REDRAWN FROM COLT'S DRAWING B61615 REVISION B</td> <td>27APR70</td> <td></td> </tr> <tr> <td>A</td> <td></td> <td>(4) SEE FERR HQR 20778</td> <td>6 OCT 72 C.R.C.</td> <td></td> </tr> <tr> <td>B</td> <td>NOR W932009</td> <td>80-02-13</td> <td>80-05-16 G.F.J.</td> <td></td> </tr> <tr> <td>C</td> <td>NOR G853003</td> <td>/ 880229</td> <td>880926 D.G.</td> <td></td> </tr> <tr> <td>D</td> <td>NOR G1S2018 /</td> <td>91 07 08</td> <td>91-10-11 R.S. G.M.</td> <td></td> </tr> <tr> <td>E</td> <td>NOR G2S3059</td> <td>920716</td> <td>92-08-11 A.J. S.E.</td> <td></td> </tr> <tr> <td></td> <td>(ECP G2S3060</td> <td>920630)</td> <td></td> <td></td> </tr> </tbody> </table>					REF.	MF ZONE LTR	DESCRIPTION	DATE	APPROVED	S		REDRAWN FROM COLT'S DRAWING B61615 REVISION B	27APR70		A		(4) SEE FERR HQR 20778	6 OCT 72 C.R.C.		B	NOR W932009	80-02-13	80-05-16 G.F.J.		C	NOR G853003	/ 880229	880926 D.G.		D	NOR G1S2018 /	91 07 08	91-10-11 R.S. G.M.		E	NOR G2S3059	920716	92-08-11 A.J. S.E.			(ECP G2S3060	920630)		
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<p>6658178</p>																																												



CURRENT DESIGN ACTIVITY CODE 13200
U.S. ARMY WEAPONS COMMAND AND ENGINEERING CENTER
ARMAMENT RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER
PEACHTREE ARSENAL, NEW JERSEY 07806-5000

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO: 27 APR 1970		DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
YS MIN		TOLERANCES: 3 PLACES ± .005		PREP <i>G.9</i>			
YS MAX		2 PLACES DECIMALS ± —		CHK <i>G.9</i>			
EL2		MATERIAL: WIRE STEEL, CMPSN 4130		ENGR <i>G.9</i>			
RA		OR 4140; ASTM A331		SUBMITTED <i>G.9</i>			
BH	NEXT ASSY USED ON	FINAL PROTECTIVE FINISH		APPROVED <i>R.J. Henry</i>			
RH	15N 725-76 APPLICATION	SEE NOTE 3		SCALE 4 / 1			
				SHEET 1 OF 1			

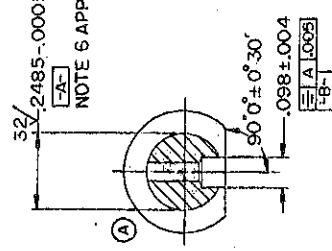
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- NOTE:
 1. STEEL, ALLOY CMPSN 8620 OR 86L20, (C)
 2. ASTM A322.
 3. FINISH 125/⁴ EXCEPT AS-NOTED.
 4. FILLET RADI. .010 MAX.
 5. HEAT TREATMENT: CARBURIZE.
 6. TOTAL CASE DEPTH .010-.005.
 7. GRIND AFTER HEAT TREATMENT-MAX.
 8. REDUCTION IN DIAMETER BY
 GRINDING .006.
 9. MIL-W-13855 APPLIES.

REV.	DATE	DESCRIPTION	APPROVED
1A	27 APR 70	REDRAWN FROM COLT'S DRAWING	
1B	15 MAY 70	D5222H REV A	
1C	20 JUN 70	D5222H REV B	
1D	25 JUN 70	D5222H REV C	
1E	05 JUL 70	D5222H REV D	
1F	05 JUL 70	D5222H REV E	
1G	05 JUL 70	D5222H REV F	
1H	05 JUL 70	D5222H REV G	
1I	05 JUL 70	D5222H REV H	
1J	05 JUL 70	D5222H REV I	
1K	05 JUL 70	D5222H REV J	
1L	05 JUL 70	D5222H REV K	
1M	05 JUL 70	D5222H REV L	
1N	05 JUL 70	D5222H REV M	
1O	05 JUL 70	D5222H REV N	
1P	05 JUL 70	D5222H REV O	
1Q	05 JUL 70	D5222H REV P	
1R	05 JUL 70	D5222H REV Q	
1S	05 JUL 70	D5222H REV R	
1T	05 JUL 70	D5222H REV S	
1U	05 JUL 70	D5222H REV T	
1V	05 JUL 70	D5222H REV U	
1W	05 JUL 70	D5222H REV V	
1X	05 JUL 70	D5222H REV W	
1Y	05 JUL 70	D5222H REV X	
1Z	05 JUL 70	D5222H REV Z	

REV.	DATE	DESCRIPTION	APPROVED
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1E	05 JUL 70	D5222H REV D	
1F	05 JUL 70	D5222H REV E	
1G	05 JUL 70	D5222H REV F	
1H	05 JUL 70	D5222H REV G	
1I	05 JUL 70	D5222H REV H	
1J	05 JUL 70	D5222H REV I	
1K	05 JUL 70	D5222H REV J	
1L	05 JUL 70	D5222H REV K	
1M	05 JUL 70	D5222H REV L	
1N	05 JUL 70	D5222H REV M	
1O	05 JUL 70	D5222H REV O	
1P	05 JUL 70	D5222H REV P	
1Q	05 JUL 70	D5222H REV Q	
1R	05 JUL 70	D5222H REV R	
1S	05 JUL 70	D5222H REV S	
1T	05 JUL 70	D5222H REV T	
1U	05 JUL 70	D5222H REV U	
1V	05 JUL 70	D5222H REV V	
1W	05 JUL 70	D5222H REV W	
1X	05 JUL 70	D5222H REV X	
1Y	05 JUL 70	D5222H REV Y	
1Z	05 JUL 70	D5222H REV Z	

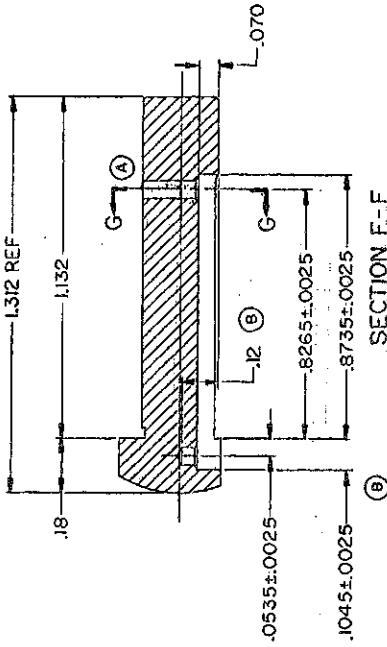
NOTE 6 APPLIES



SECTION G-G

32/.2485-.0005
NOTE 6 APPLIES

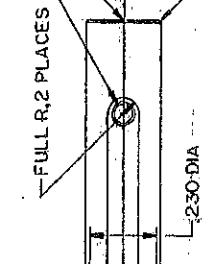
(A)



SECTION F-F

.062 DIA +.003 THRU
90 +/- 4 degrees CSK TO .08 DIA
(.18 DIA TOTAL)

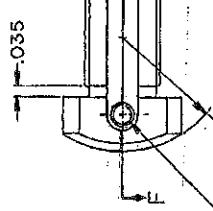
(B)



SECTION F-F

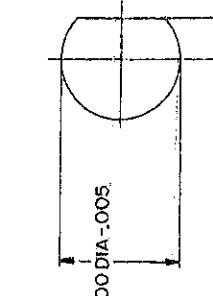
.062 DIA +.003 THRU
90 +/- 4 degrees CSK TO .08 DIA
(.18 DIA TOTAL)

(C)



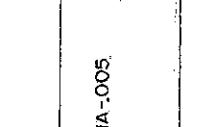
.062 DIA +.003 THRU
90 +/- 4 degrees CSK TO .08 DIA
(.18 DIA TOTAL)

(C)



.062 DIA +.003 THRU
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(C)

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COPIES MADE:

CDI

U.S. ARMY INSTRUMENT RESEARCH AND DEVELOPMENT CENTER
--

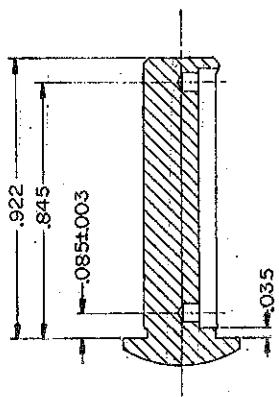
REVISIONS		DESCRIPTION	DATE	APPROVED
No.	Date			
A1	12/20/04	REDRAWN FROM COLT'S DRAWING.	27 APR 70	
		DGS 5. REV. B		
A1	12/20/04	A (3) SEE EPR MOR 20778	6 OCT 72	RC
A1	12/20/04	B SEE EPR MOR 50546	16 MAY 75	Y
C1	12/20/04	C INDR 695314-3 900112-13	20 NOV 75	RC
D1	12/20/04	D INGR 695314-3 900112-13	20 NOV 75	RC
E1	12/20/04	E INDR 6152018 91 07 08	01-10-11	SP
F1	12/20/04	F INDR 6453059 920716 9206301 9206301	22 08 11	AUL

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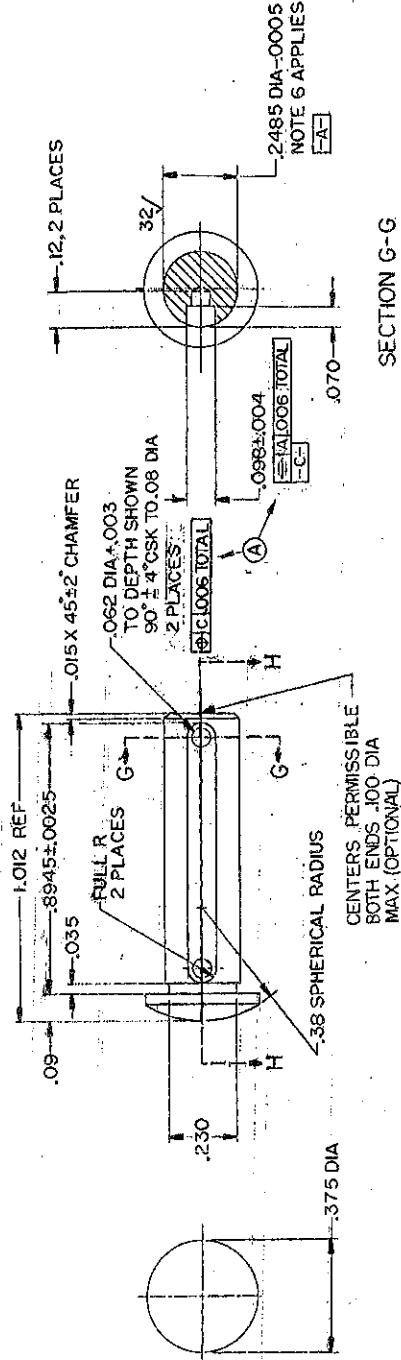
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- NOTES:**

 1. STEEL, ALLOY CMPSN 8620 OR 86120, **(A)**
ASTM A4322.
 2. FINISH #25, EXCEPT AS NOTED.
 3. BREAK ALL SHARP EDGES .010 MAX.
 4. FILLET RADI. .010 MAX.
 5. HEAT TREATMENT, CARBURIZE,
.010 + .005 TOTAL CASE DEPTH.
 6. GRIND AFTER HEAT TREAT. MAX. REDUCTION
IN DIAMETER AFTER GRINDING .006.
 7. MIL-W-13855 APPLIES. **(A)**



SECTION H - H



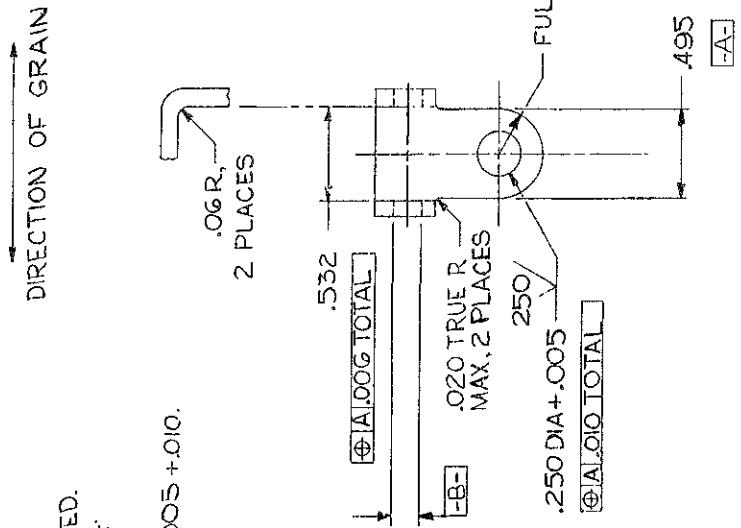
SECTION G-G

DEPT OF THE ARMY ARMED FORCES ENGINEERING CENTER FORT MONMOUTH, NEW JERSEY 07866-5000		PIN, TAKEDOWN	
USAR ARMY ENGINEERS COMMAND ROCK SPRINGS, ILLINOIS 61204			
		REF ID: A6448584	
		DATE 27 APR 1970	
MECHANICAL PROPERTIES		CONTRACT NO.	
TOLERANCES ANGLES & RADII		100-0001-0005	
TO MAX. MIN.		2 PLACE DECIMALS : .01	
EX.2 E.A. BH		SEE NOTE !	
10N RH		FINAL PROTECTIVE FINISH NEAREST ASSY USED ON	
83-91 APPLICATION		53.1.2 OF MIL-STD-17	
		APPROVED BY: <i>Sp. G. Gilling</i>	
		SCALE 5/1	
		DRAWING NO. D	
		REV. DATE NO. 0	

REVISIONS		DATE APPROVED
IMF ZONE LTR	DESCRIPTION	
A	A (2) SEE EO 420-02231	25AUG70
B	B (4) SEE ERR HQR 20778	6 OCT 72 ORC
C	SEE ERR HQR 316/7	12 MAR 73 YB
D	DO NOT USE 82029	82-07-15 BY 10/1/73
E	NOR W25 0026	83-09-22 JH/JJ
F	NOR W558004 / 860204	890215 BY 10/1/73
G	NOR G653149 961024	961215 JB

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 NECESSARY FOR AND THEN ONLY IN CONNECTION WITH THE PREPARATION, AND / OR SUBMISSION OF
 BIDS OR PROPOSALS RELATED TO A PROCUREMENT BEING EFFECTED BY THE UNITED STATES GOVERNMENT
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 OFFICER UPON COMPLETION OF THE PURPOSE FOR WHICH IT WAS ISSUED.

- NOTES:
 1. BLANK EDGES 25C.
 2. FINISH 125/EXCEPT AS NOTED.
 3. FINISH 5.31.2 OR 5.3.2.2 OF
 MIL-STD-171.
 4. BREAK SHARP EDGES .005 +.010.
 5. MIL-W-13855 APPLIES.



CURRENT DESIGN ACTIVITY CAGE CODE 19200 ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PIQUETTAN ARSENAL, NEW JERSEY 07806-5000	
DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS 61201	HINGE
PREPARED BY T. A. CREAMER, TAASIS CHECKED BY J. L. HARRIS ENGINEERED BY B. M. HARRIS SUBMITTED BY B. M. HARRIS	SCALE 2/1 or 1 DRAWING NO 8448653 C 19204

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES 3 PLACE DECIMALS : .005 2 PLACE DECIMALS : .01	CONTRACT NO:
MECHANICAL PROPERTIES	
YS MIN	
YS MAX	
EL 2	
RA	
BH	
MIG, MIGA2	
D9349119, MIGA1	
RH	
NEXT ASSY USED ON APPLICATION	
FINAL PROTECTIVE FINISH	
SEE NOTE 3	

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NAMED OR PROPOSED RELATED TO A CONTRACT WITH THE UNITED STATES GOVERNMENT
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NOTES:-

1-STEEL STRIP, TEMPER NO. 2, ASTM A 109
OR STEEL BAR, 1018 THRU 1020, ASTM A576, FORGED PER
MIL-S-45172, GRADE C OR D.

2-FINISH 125/¹/₂ EXCEPT AS NOTED.

3-MIL-W-13855 APPLIES

4-EDGE RADII .045⁺.015 UNLESS OTHERWISE SPECIFIED.

5-DIE MISMATCH .015 MAX.

6:DRAFT ANGLE 7⁺.2⁻.

7-NO FLASH EXTENSION PERMISSIBLE.

8-.08 MAX PARTING LINE TRIM FLAT.

9-DIMENSIONS APPLY TO INTERSECTION
OF STRAIGHT LINES.
•2160-28UNF-2B
Φ A .010 TOTAL

.500±.02

.250 MAX

.225±.010

.03 X 45° CHAM

.250 R±.015,
2 PLACES

.87
±.03

.088R±.02
FOR ENTIRE LOOP

.250 MAX

.225±.010

.03 X 45° CHAM

.250 R±.015,
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.87
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2 PLACES

.87
±.03

.088R±.02
FOR ENTIRE LOOP

.06 MAX FLAT PERMISSIBLE
INSIDE OF LOOP

FULL R
2 PLACES

.176±.010

FULL R
2 PLACES

.176±.02

.176±.02

.176±.02

.25-.02

.88±.03

Φ A @ .020 Ø

.06 R MAX FOR
PERIPHERY

.250

.88±.03

45±.5°

.088R±.02
FOR ENTIRE LOOP

.250 MAX

.225±.010

.03 X 45° CHAM

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.176±.02

.25-.02

.88±.03

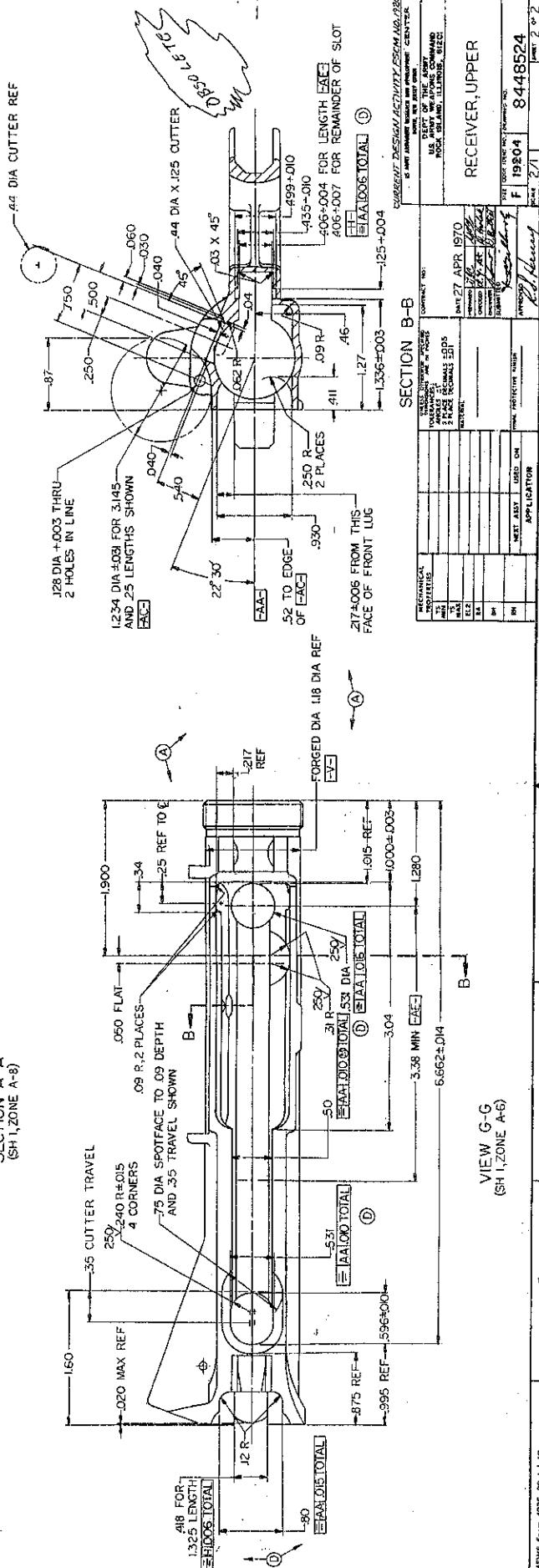
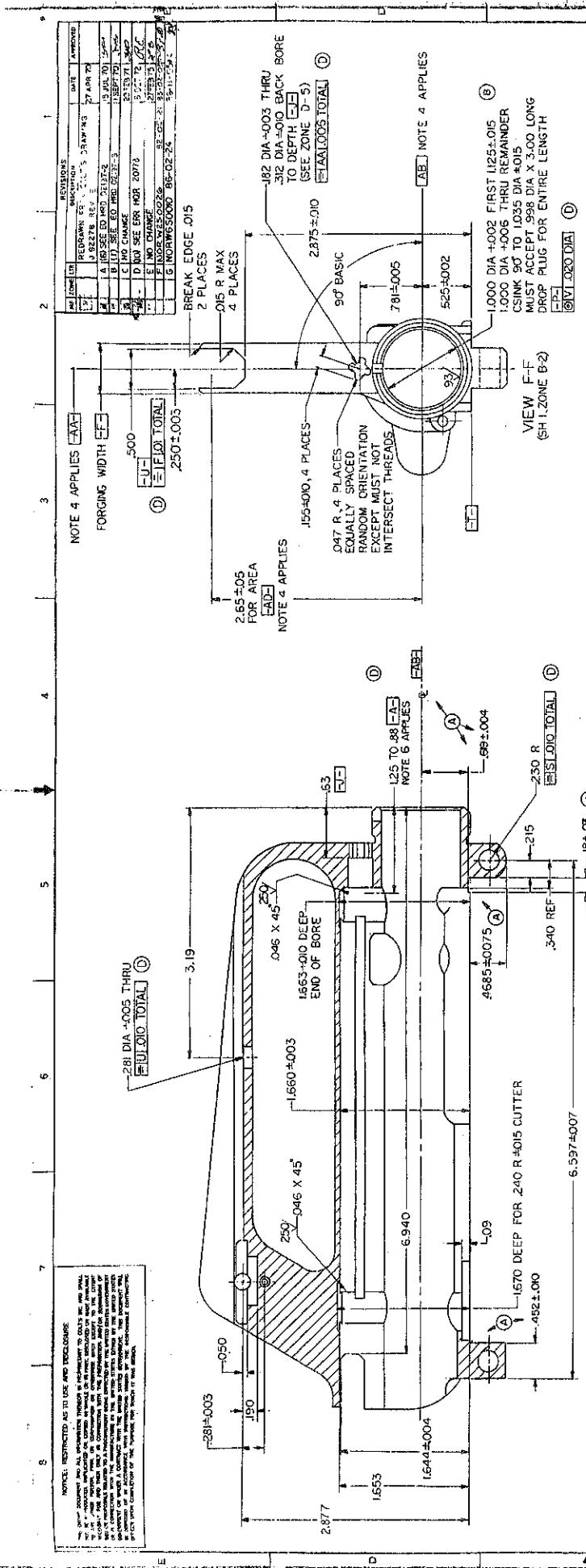
Φ A @ .020 Ø

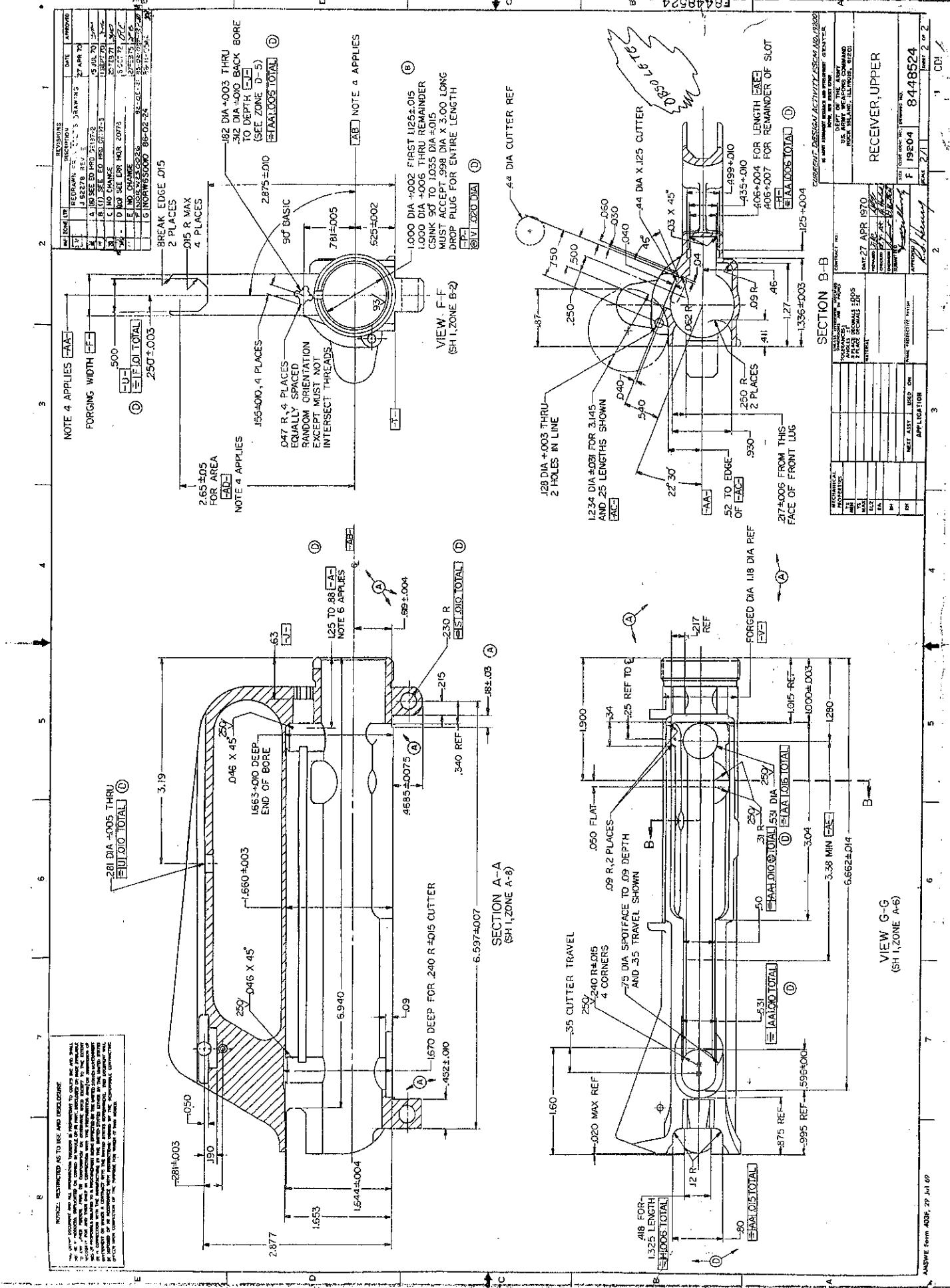
.06 R MAX FOR
PERIPHERY

.250

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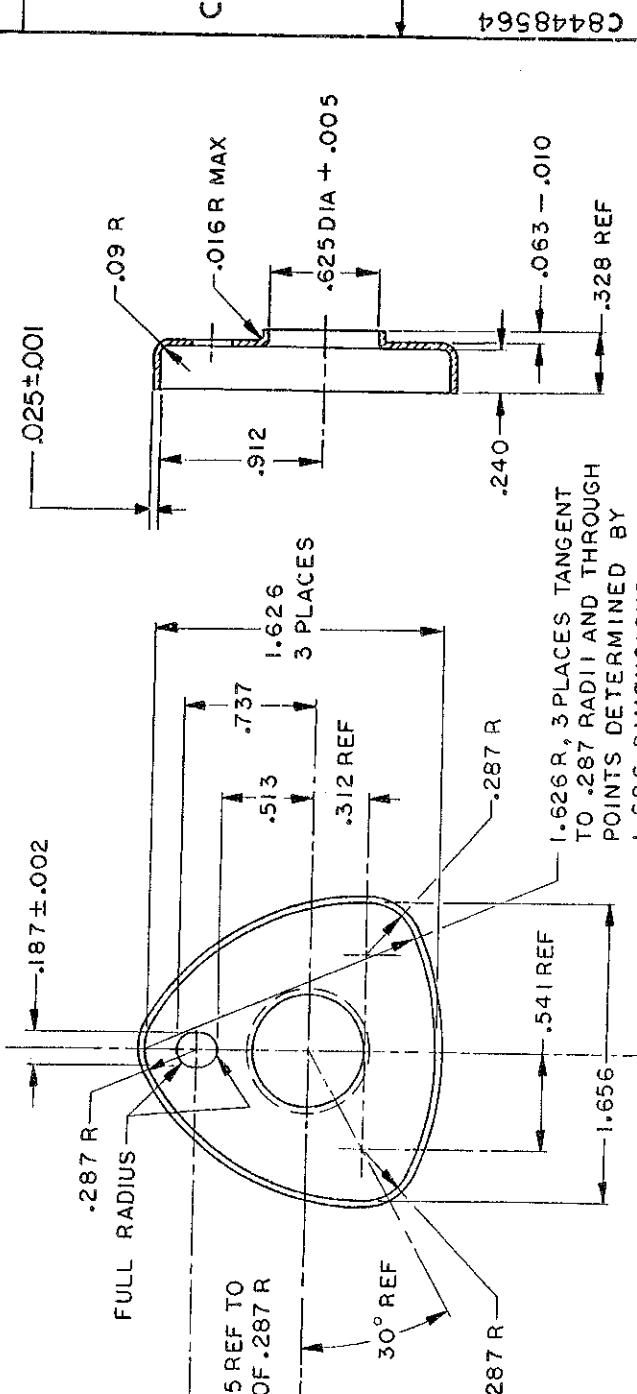
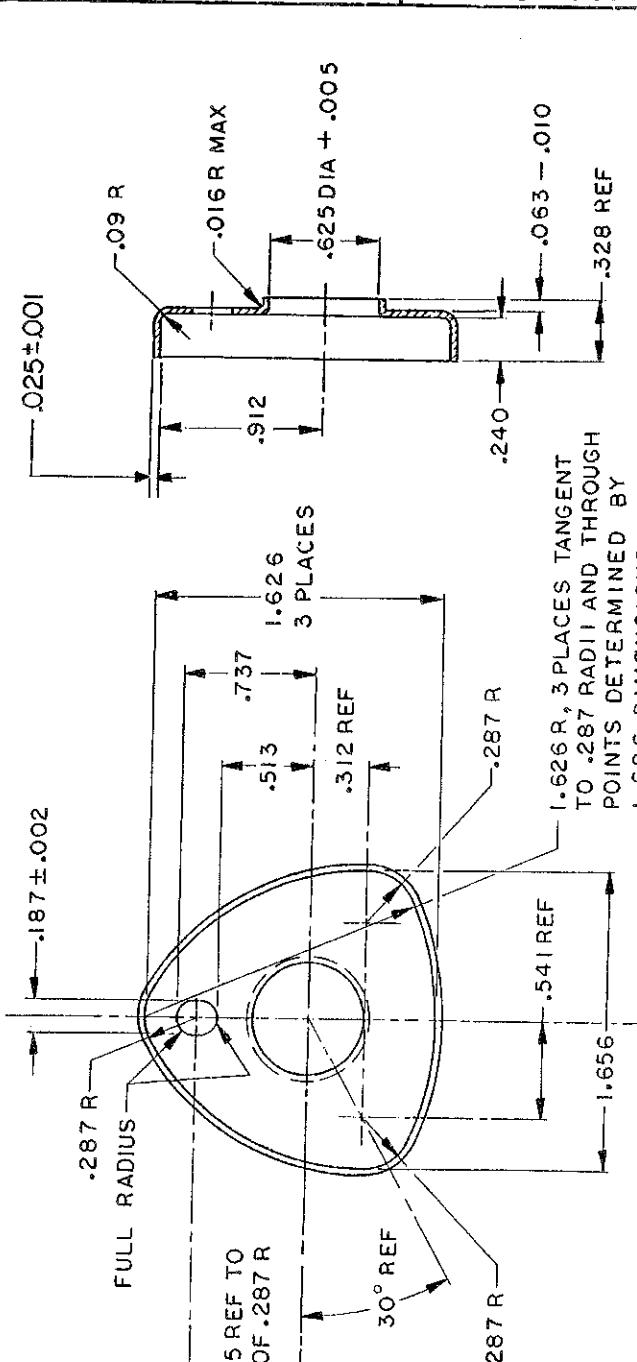
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NOTE :

1. STEEL, CMPSN 1045 THRU 1070, COLD ROLLED, SPHEROIDIZE ANNEALED, SPEC QQ-S700.
2. FINISH $\sqrt{125}$.
3. BREAK SHARP EDGES .010R MAX.
4. FINISH 5.3.1.2 OF MIL-STD-71.
5. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
6. MIL-W-3855 APPLIES.

(A)

A



SECTION A-A

CURRENT DESIGN ACTIVITY

ESCM NO. 19200	U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801
	DEPT. OF THE ARMY ARMED FORCES WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201

CAP, HANDGUARD

DRAWING NO. 8448564		SCALE 2/1	CDI
SIZE	CODE IDENT NO.		
C	19204	8448564	
APPLIED	4	SEE NOTE	
APPLICATION		SEE NOTE	
RH ISN 795815	NEXT ASSY USED ON	FINAL PROTECTIVE FINISH	
F844860 M16			
F844852 M16			

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REVISIONS			DESCRIPTION	DATE	APPROVED
MF	ZONE	LTR			
V/-		B	REPLACES REV A W/CHANGE SEE ERR HQR 20827.	14 DEC 72	X 3
		C	NOB/CNS/2011/ CECDW250034 / CECDW353120 / NOB/CNS/2018	82-04-13 82-07-15 83-07-07 91-07-08	83-11-04 83-12-07
		D			SB 2

SPRING, HELICAL, COMPRESSION

三

- I. WIRE, STAINLESS STEEL,
TYPE 631(17-7PH), COLD
DRAWN, ASTM A313.
 2. PRECIPITATION HEAT TREAT
AFTER FORMING TO CONDT
CH900. HOLD AT 900°F ± 10°
FOR ONE HOUR. AIR COOL.
 3. MIL-W-13855 APPLIES.
 4. BREAK SHARP EDGES .005

WIRE DIAMETER
 COIL DIAMETER
 FREE LENGTH
 TOTAL COILS
 DIRECTION OF H
 LOAD AT COMPRE
 LOAD AT COMPRE
 SPRING RATE —
 COILS

2. PRECIPITATION HEAT TREAT
AFTER FORMING TO CONDTN
CH900. HOLD AT 900° F ± 10°
FOR ONE HOUR. AIR COOL.

2. PRECIPITATION HEAT AFTER FORMING TO CH900. HOLD AT 900 FOR ONE HOUR. AIR
3. MIL-W-13855 APPLIES.

SOLID CIRCUIT CLIPS
TYPE OF ENDS
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572
CL.C

CURRENT DESIGN ACTIVITY
ESCM N.D. 19780

**US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801**

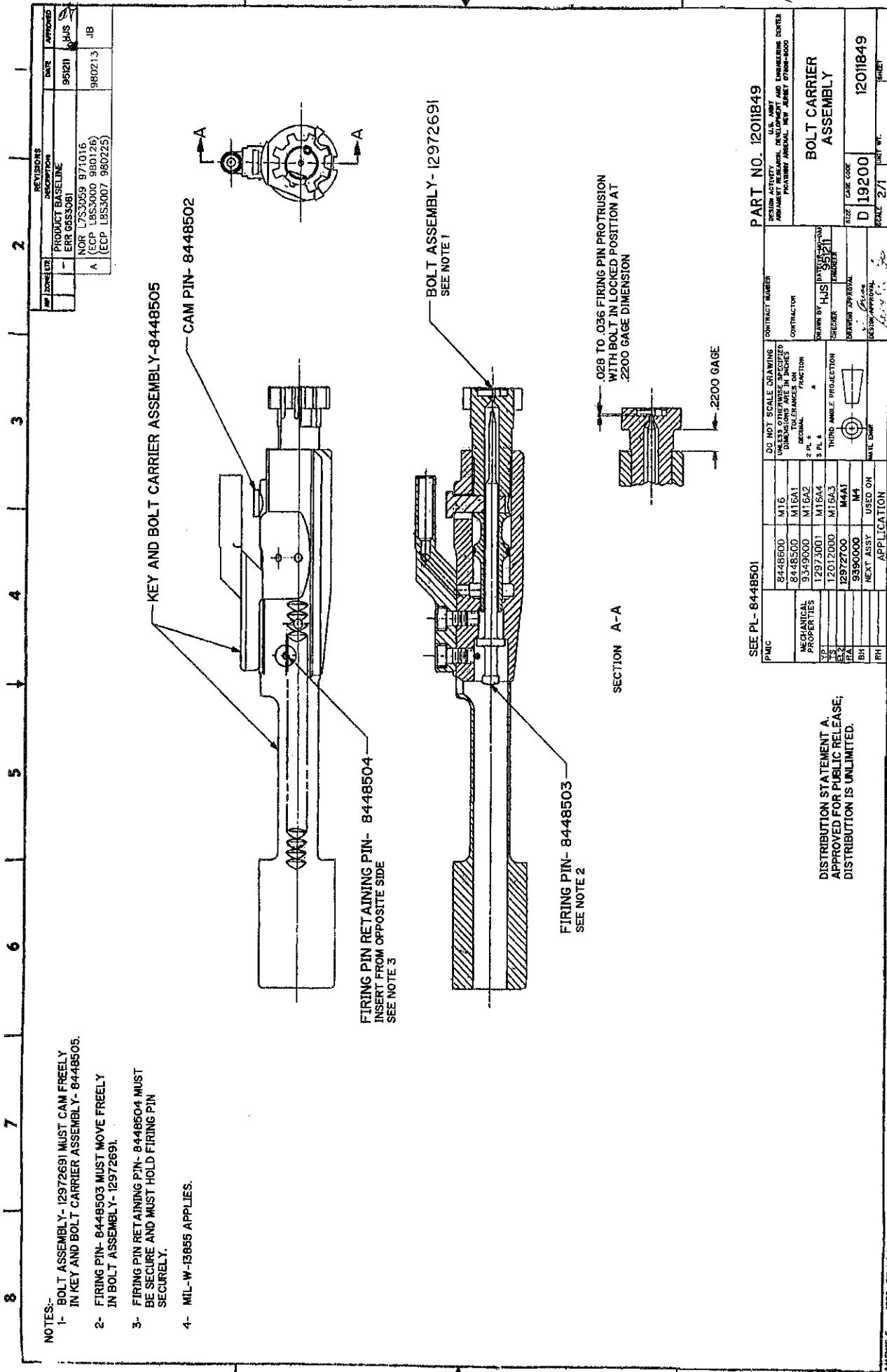
PART NO. 8448574

PARTS LIST
DOCUMENT/PART NUMBER PL-B44B501
BOLT CARRIER ASSEMBLY D B44B501
CHANGE CONTROL NUMBER 76V001B

FND NO.	QTY	UNIT	CODE	PART IDENTIFYING NO.	DRAWING/DOCUMENT SIZE	NUMBER	NOMENCLATURE OR DOCUMENT TITLE	SUP LST
1				B44B502	C	844B502	PIN, CAM	
	1			844B503	D	844B503	PIN, FIRING	
	1			844B504	B	844B504	PIN, RETAINING, FIRING PIN	
	1			844B505	C	844B505	KEY AND BOLT CARRIER ASSEMBLY	X
	1			844B509	C	844B509	BDLT ASSEMBLY	X

TOTAL NUMBER OF SHEETS 1

REV. DATE 16 APR 76
REVISION LETTER A
SHEET 1
ORIG. DATE 27 APR 70



REVISIONS		DESCRIPTION		DATE APPROVED
INF. ZONE	LIN.	REF/PARNO.	FROM COLT'S DRAWINGS	
1	1	DE22857 REV B		27 APR 70
1	2	A K4 SEE EPR M08 20778		16 OCT 72 G/C
1	3	20778-2-500-015		22-05-77 G/C
1	4	C NOR GIS2018		31-07-06 51-10-11

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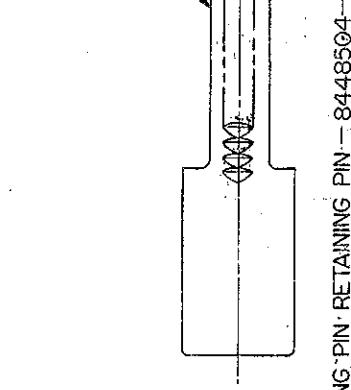
DATE 04/20/2015 BY 60257

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- NOTE
1. BOLT ASSEMBLY—8448509 MUST CAM FREELY
 2. IN KEY AND BOLT CARRIER ASSEMBLY—8448505.
 3. FIRING PIN RETAINING PIN—8448504 MUST BE SECURE AND MUST HOLD FIRING PIN SECURELY.
 4. MIL-W-13855 APPLIES. (A)

KEY AND BOLT CARRIER ASSEMBLY — 8448505

CAM PIN — 8448502

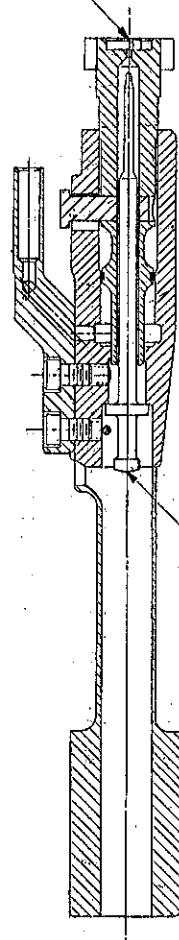


FIRING PIN RETAINING PIN — 8448504

INSERT FROM OPPOSITE SIDE

(A) SEE NOTE 3

BOLT ASSEMBLY — 8448509
SEE NOTE 1 (A)

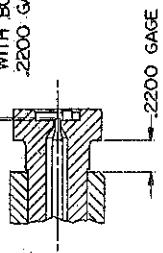


FIRING PIN — 8448503

(A) SEE NOTE 2

SECTION A-A

.028 TO .036 FIRING PIN PROTRUSION
WITH BOLT IN LOCKED POSITION AT
.2200 GAGE DIMENSION



SEE PL 8448501

U S ARMY AMMUNITION RESEARCH AND DEVELOPMENT CENTER

DOVER, NEW JERSEY 07801

DEPT. OF THE AIR FORCE
U.S. AIR FORCE COMBAT
FORCES, USAF, AFM, AFSC

BOLT CARRIER ASSEMBLY

DESIGN ACTIVITY: ESSM NO. 1252

CDI

INSTRUMENTATION, TEST & PROBES		CONTRACT NO.	DATE
MECHANICAL	ELECTRICAL	NUMBER	27 APR 1970
MIN	MAX	1	
MID		2	
MAX		3	
MIN		4	
MID		5	
MAX		6	
MIN		7	
MID		8	
MAX		9	
MIN		10	
MID		11	
MAX		12	
MIN		13	
MID		14	
MAX		15	
MIN		16	
MID		17	
MAX		18	
MIN		19	
MID		20	
MAX		21	

5	4	3	2	1
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NOTES:

D 1. WIRE, CORROSION RESISTING,
 TYPE 631 (17-7 PH), ASTM A313.
 2. PRECIPITATION HEAT TREAT
 AFTER FORMING TO CONDTN
 CH900. HOLD AT 900°F ± 10°
 FOR ONE HOUR. AIR COOL.
 3. MIL-W-13855 APPLIES.

C 1. WIRE, CORROSION RESISTING,
 TYPE 631 (17-7 PH), ASTM A313.
 2. PRECIPITATION HEAT TREAT
 AFTER FORMING TO CONDTN
 CH900. HOLD AT 900°F ± 10°
 FOR ONE HOUR. AIR COOL.
 3. MIL-W-13855 APPLIES.

B 1. WIRE, CORROSION RESISTING,
 TYPE 631 (17-7 PH), ASTM A313.
 2. PRECIPITATION HEAT TREAT
 AFTER FORMING TO CONDTN
 CH900. HOLD AT 900°F ± 10°
 FOR ONE HOUR. AIR COOL.
 3. MIL-W-13855 APPLIES.

REVISIONS			
MF	ZONE	LTR	DESCRIPTION
A	-	B	REPLACES REV A W/CHANGE SEE ERR HQR 20778
		C	NOR W25001 / 82-04-13 (ECP W250034 / 82-07-15)
		D	ERR 29Z182AN (ECP G833III 88109)

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER 0.0220 ± 0.0005
 COIL DIAMETER (OD) 0.18 ± 0.03
 FREE LENGTH 500 REF
 TOTAL COILS 13 REF
 DIRECTION OF HELIX OPTIONAL
 LOAD AT COMPRESSED LENGTH OF .370 4.29 LB ± .43 LB
 LOAD AT COMPRESSED LENGTH OF —
 SPRING RATE —
 SOLID LENGTH 315 MAX
 TYPE OF ENDS CLOSED
 MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

B CURRENT DESIGN ACTIVITY CASE CODE 19200
 ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
 ARTILLERY ARSENAL, NEW JERSEY 07806-5000

A PART NO. 8448538

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO: DATE 27 APR 70 PREP [Signature] [Signature]	DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201
	YS MIN	YS MAX		
EL2	D8448602	M16	2 PLACE DECIMALS ± .005	SPRING, REAR SIGHT DETENT
RA	D8448523	M16A1	MATERIAL	SIZE CC&P IDENT NO. DRAWING NO. B 19204 8448538
BH	NEXT ASSY	USED ON	SEE NOTE 1	SCALE
RH	15N 845 MIN	APPLICATION	FINAL PROTECTIVE FINISH APPROVED [Signature] R. J. Henry	SHEET 1 OF 1

DRAWING SIZE C 4

2

3

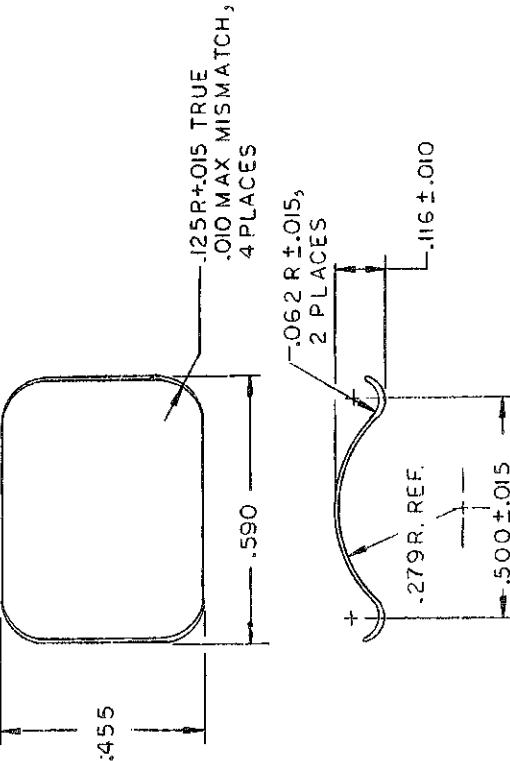
1

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NOTES:

1. STEEL, CARBON, UNTEMPERED SPRING QUALITY, ANNEALED, CMPSN 1095, SPEC ASTM A684 OR AMS 5121, .010 \pm .001 THICK.
2. FINISH 63 $/$ EXCEPT SHEARED EDGES 250 $/$.
3. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
4. MIL-W-13855 APPLIES.
5. FINAL PROTECTIVE FINISH: FINISH 5.3.1.2. OF MIL-STD-171.
6. HARDNESS: DPH484-528.



C

C

B

B

PART NO. 12011987

ZONE	LTR	DESCRIPTION	DATE DRAWN AND APPROVED
	-	PRODUCT BASELINE	91-10-10 RR 35W
A	NOR	63S3028/930413	93-05-21 10-10 RR 35W

REVISIONS

DESIGN ACTIVITY	U.S. ARMY ARMAMENT RESEARCH AND ENGINEERING CENTER PILOTARMY ARSENAL, NEW JERSEY 07046-5000
	SPRING REAR SIGHT

PMIC	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NUMBER	DATE DRAWN AND APPROVED
MECHANICAL PROPERTIES	2 PL \pm .005	CONTRACTOR	R.C.R. 01-10-10 ENGINEER
YP	3 PL \pm .005	THIRD ANGLE PROJECTION	
TS			
EL2			
RA	8448602	MIS	
BH	8448523	MISAI	
RH		NEXT ASSY	DESIGNER APPROVAL
		USED ON	DRAFTSMAN APPROVAL
		APPLICATION	APPROVAL
			12011987
			SCALE NONE
			SHEET

SMCAR FORM 67, 1 DEC 87(TEMP), REPLACES SMCAR FORM 67, 1 MAR 87(TEMP),
WHICH MAY BE USED UNTIL EXHAUSTED

1	2	3	4	5
NOTICE RESTRICTED AS TO USE AND DISCLOSURE THIS ENTIRE DOCUMENTATION, UNLESS ALL INFORMATION THEREON IS PROPRIETARY TO COLT'S INC AND SHALL NOT BE REPRODUCED, Duplicated OR COPIED IN WHOLE OR IN PART, DISCLOSED OR MADE AVAILABLE TO ANY OTHER PERSON, FIRM, OR CORPORATION, EXCEPT TO CONTRACTORS UNITED SECRET TO THE EXTENT NECESSARY FOR THE PERFORMANCE OF THE CONTRACTS WITH THE GOVERNMENT. THIS INFORMATION MAY/OK INFORMATION OF THE GOVERNMENT BE USED BY CONTRACTORS UNITED IN THE PERFORMANCE OF THE CONTRACTS WITH THE GOVERNMENT, PROVIDED THAT THE CONTRACTOR AGREES TO THE TERMS AND CONDITIONS OF THE CONTRACT, WHICH CONTRACTOR AGREES TO MAINTAIN THE CONFIDENTIALITY OF THE INFORMATION. THIS INFORMATION IS THE PROPERTY OF THE GOVERNMENT AND IS SUBJECT TO THE PROVISIONS OF THE CONTRACT. THIS INFORMATION IS NOT TO BE USED FOR ANY OTHER PURPOSE THAN THE PERFORMANCE OF THE CONTRACTS WITH THE GOVERNMENT. THIS INFORMATION IS NOT TO BE USED FOR ANY OTHER PURPOSE THAN THE PERFORMANCE OF THE CONTRACTS WITH THE GOVERNMENT.	NOTES: 1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH) COLD DRAWN, ASTM A313. 2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDTN CH900. HOLD AT 900° F ± 10° FOR 1 HOUR. AIR COOL. 3. MIL-W-13855 APPLIES.	SPRING DATA TYPE OF ENDS - ONE CLOSED AND GROUND - ONE CLOSED, FLARED AND GROUND WIRE DIA .0200 ± .0005 DIRECTION OF HELIX - OPTIONAL TOTAL COILS - 7 REF LOAD AT COMPRESSED LENGTH OF .217 IN. = 2.79 LB ± .28 LB MAX. SOLID LENGTH - .150	MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572 MECHANICAL PROPERTIES YS MIN YS MAX EL2 RA BH RH 15N-84.5 MIN	CURRENT DESIGN ACTIVITY FSCM NO. 19200 US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801 DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201 SPRING, DISCONNECT SIZE B CODE IDENT NO. B 19204 DRAWING NO. 8448594 SCALE 10/1 SHEET 1 OF 1 CDI
1	2	3	4	5

B8448594

REVISIONS		DESCRIPTION	DATE APPROVED
		REDRAWN FROM COLT'S DRAWING C61925 REVISION A	27 APR 70
A	(1)	SEE EO HRD 02197-3	15 JULY 70 <i>JKS</i>
B	(4)	SEE ERR HQR 20778	6 OCT 72 <i>XBS</i>
C	(CECP WZ50001 / 82-04-13 CECP WZ50034 / 82-07-15)		83-11-04 <i>JW/JL</i>

NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631,
(17-7PH) COLD DRAWN, ASTM A313.

2. PRECIPITATION HEAT TREAT
AFTER FORMING TO CONDTN
CH900. HOLD AT 900° F ± 10°
FOR 1 HOUR. AIR COOL.

3. MIL-W-13855 APPLIES.

SPRING DATA

TYPE OF ENDS - ONE CLOSED AND GROUND
- ONE CLOSED, FLARED AND GROUND

WIRE DIA .0200 ± .0005
DIRECTION OF HELIX - OPTIONAL
TOTAL COILS - 7 REF
LOAD AT COMPRESSED LENGTH OF .217 IN. = 2.79 LB ± .28 LB
MAX. SOLID LENGTH - .150

MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

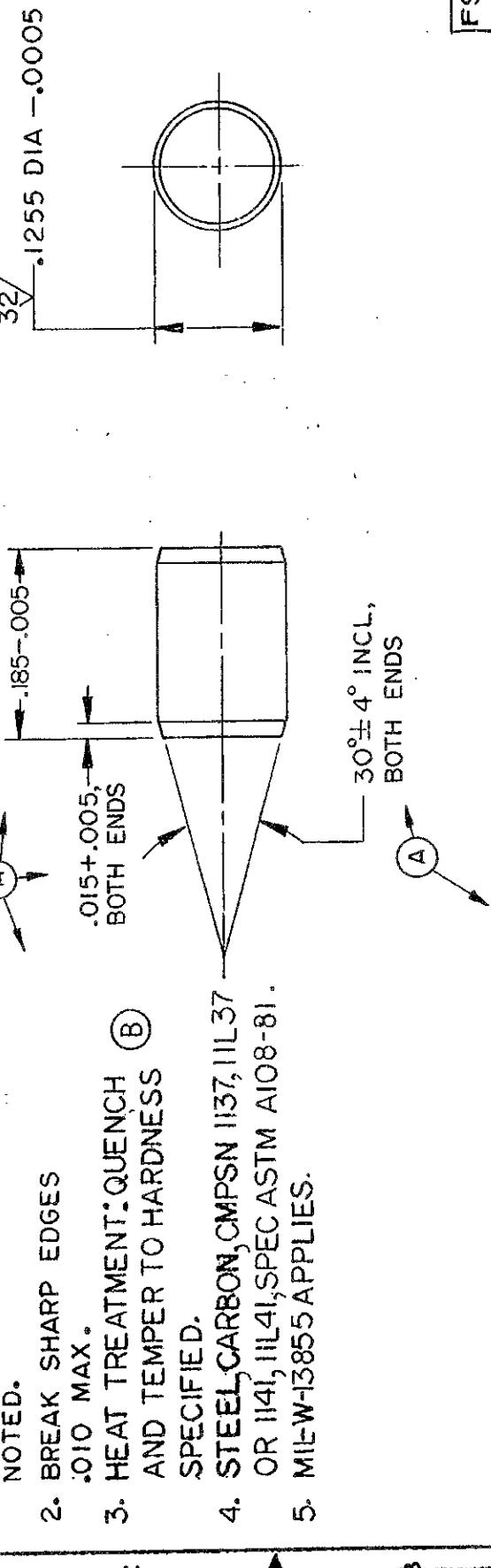
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.
TOLERANCES: ANGLES: 3 PLACE DECIMALS ± .005 2 PLACE DECIMALS ± .001		DATE 27 APR 1970
MATERIAL		PREP P.R. C.R. H. CHK. <i>JKS</i> <i>JKS</i> ENGR <i>JKS</i> <i>JKS</i>
SEE NOTE I		SUBMITTED <i>JKS</i> <i>JKS</i>
NEXT ASSY USED ON		FINAL PROTECTIVE FINISH
APPLICATION		APPROVED <i>JKS</i> <i>JKS</i>

5.4.1 OF MIL-STD-171

AMSW Form 403B, 29 Jul 69

	5	4	3	2	1
REVISIONS					
MF	ZONE	LTR	DESCRIPTION		
			REDRAWN FROM COLT'S DRAWING		
			27 APR 70		
D			B61671 REVISION B		
			15 DEC 71 S.R.		
			A (2) SEE ERR HQR 10906		
			14 DEC 72 R.C.		
			B (4) SEE ERR HQR 20827		
			C NOR. W9S2009 80-02-13		
			D NOR W3S3133/83-03-25		
			83-11-04 D.R.C. R.S.C.		
			E NOR G1S2018/ 91-07-03		
			91-10-11 R.R.S.C.		

NOTES: 125/ EXCEPT AS
1. FINISH .015+.005, BOTH ENDS
NOTED.
2. BREAK SHARP EDGES
.010 MAX.
3. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
4. STEEL, CARBON, CMPSN 1137, 11L37 OR 1141, 11L41, SPEC ASTM A108-81.
5. MIL-W-13855 APPLIES.



FSCM NO		19200
CURRENT		DOVER, NEW JERSEY 07801
US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER		U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201
B		CDI

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.
TOLERANCES:		DATE
ANGLES: 3 PLACE DECIMALS: —		27 APR 1970
2 PLACE DECIMALS: —		PREP R.S.A. R.S.C.
MATERIAL:		CHK
SEE NOTE 4		ENGR
F 8448548 M16A1		SUBMITTED
NEXT ASSY USED ON FINAL PROTECTIVE FINISH		APPROVED
B M 15N 785-805 APPLICATION		R.H. C. Schenck
		CDI

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NOTES:

1. WIRE, STEEL, CARBON, SPRING, MUSIC, SPEC ASTM-A228. TENSILE STRENGTH SHALL BE 376,000 MIN.
2. STRESS RELIEVE AFTER FORMING. HOLD AT 475° F ± 25° FOR 30 MINUTES.
3. SET SPRING 3 TIMES AFTER STRESS RELIEF.
4. Mil-W-13855 APPLIES.
5. BREAK SHARP EDGES .003 +.012 .

				REVISI ^N S		
MF	ZONE	LETTR		DESCRIPTION		DATE APPROVED
		C		REPLACES REV B W/ CHANGE SEE ERR HQR 20778		6 OCT 72 ✓ 13
D		D	NOR W9S2009	80-02-13		30-05-16 ✓ 14
E		E	NOR W2S001 / 82-04-13 (ECP W3S 3120 / 83-07-07)			83-11-04 ✓ 15
F		F	ERR Z9Z1251W (ECP G9S2036/890721)			900403 ✓ 16
G		G	NOR GIS2018	91-07-08		91-10-11 ✓ 17

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER _____.0240 ± .0003
COIL DIAMETER (OD) _____.103 ± .003
FREE LENGTH AFTER SETTING _____.926 REF
TOTAL COILS _____.27 REF
DIRECTION OF HELIX _____.OPTIONAL
LOAD AT COMPRESSED LENGTH OF .850 _____.2.94 LB ± .30 LB
LOAD AT COMPRESSED LENGTH OF .784 _____.5.50 LB ± .25 LB
SPRING RATE _____.650 MAX
SOLID LENGTH _____.TYPE OF ENDS _____.SQUARED, GROUND
MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE A, MIL-S-13572

B FSCM NO.
19200 CURRENT
DOVER, NEW JERSEY 07801

A PART NO. 8448516
ROCK ISLAND ARSENAL,
ROCK ISLAND, ILL 61201
SPRING, EJECTOR AND
SAFETY DETENT
SIZE B DRAWING NO.
19204 8448516

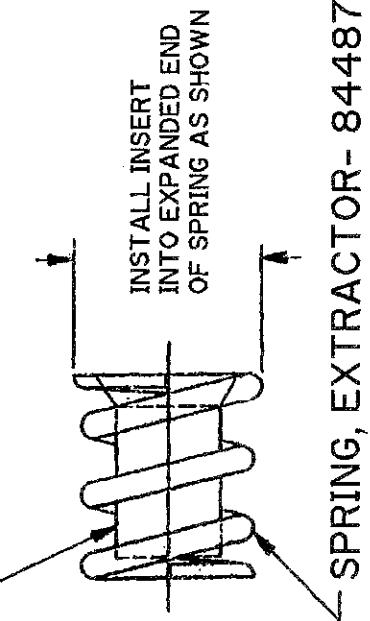
MECHANICAL PROPERTIES	8448509	M4	UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE TOLERANCES ARE TO LENGTHS ANGLES 3 PLACE DECIMALS ± .005 2 PLACE DECIMALS ± .001 MATERIAL	CONTRACT NO: DATE 27 APR 70	
				PREP PV	CHK GD
YS	F9327230	M231			
MIN		M16			
MAX		C8448509	M16A1		
EL2		F8448604	M16		
RA		F8448578	M16A1		
BH		NEUT ASSY	USED ON	FINAL PROTECTIVE FINISH	APPROVED
RH			APPLICATION	R.S. HENRY	SCALE NONE

NOTES:-

1- MIL-W-13855 APPLIES.

ZONE	L-R	REVISIONS	DATE(YR VO DA) APPROVED
-	PRODUCT BASELINE ERR G5S308I	95121	HJS 06/07

→ BUFFER, EXTRACTOR- 12972693

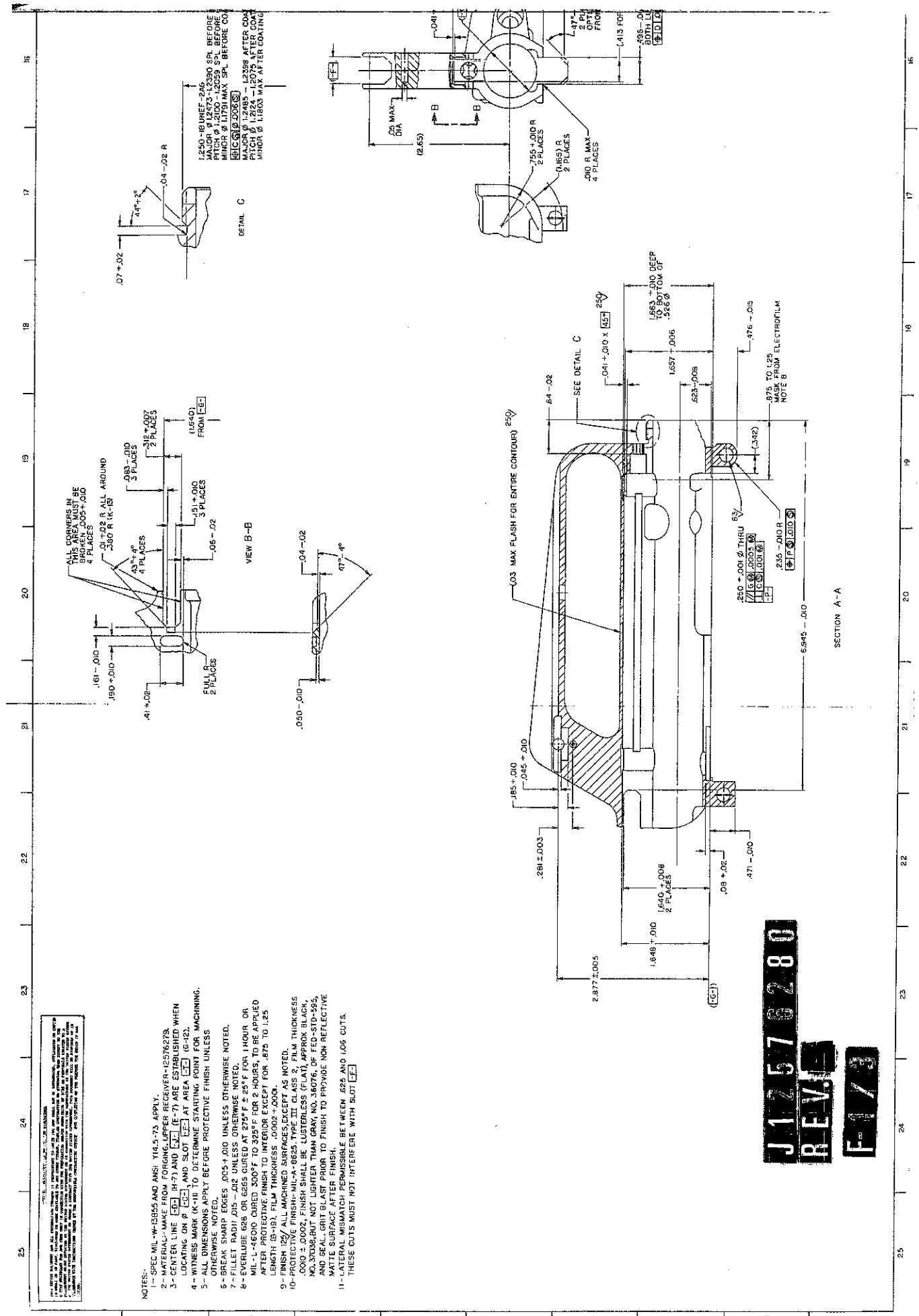


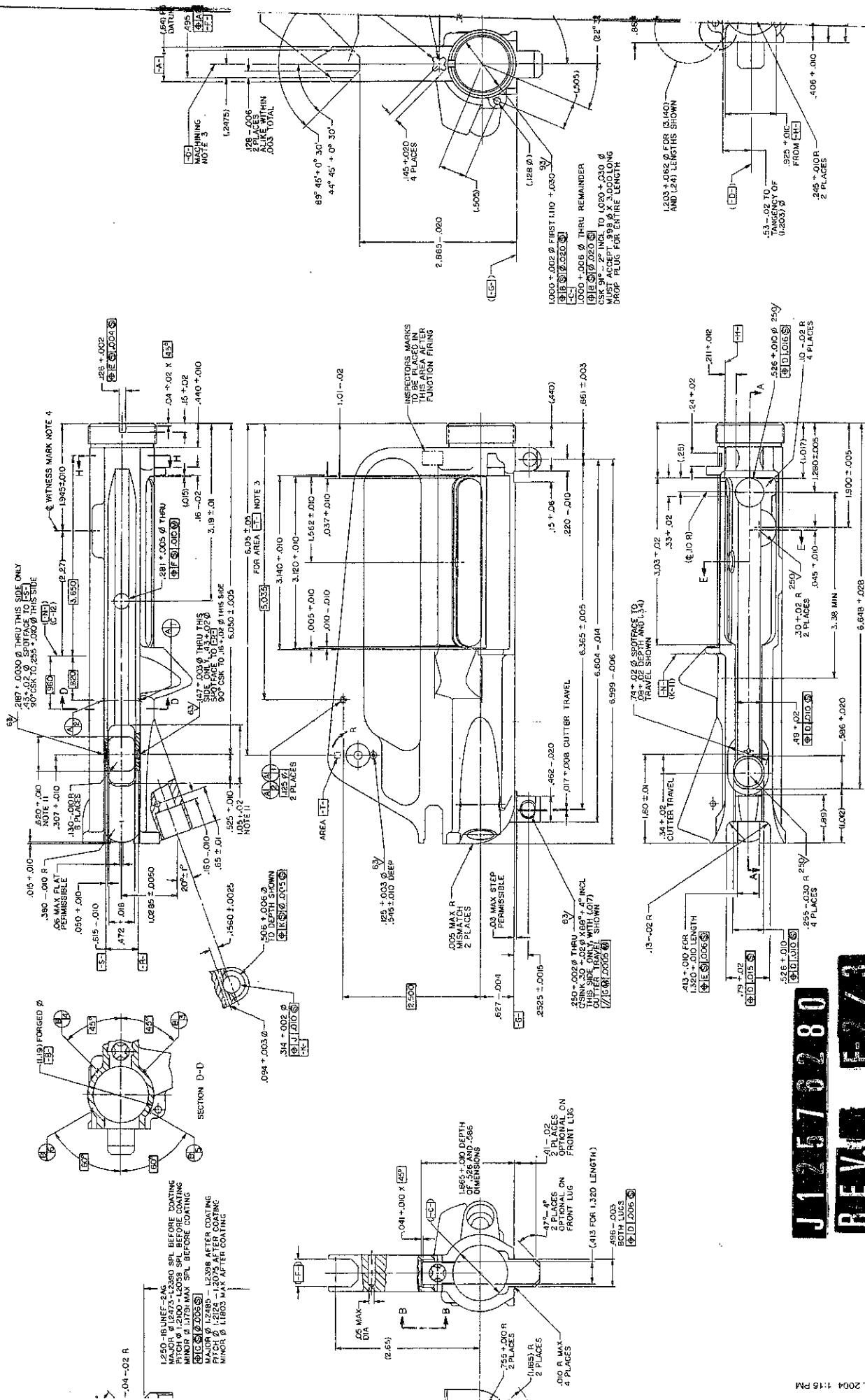
→ SPRING, EXTRACTOR- 8448753

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DISTRIBUTION IS UNLIMITED.

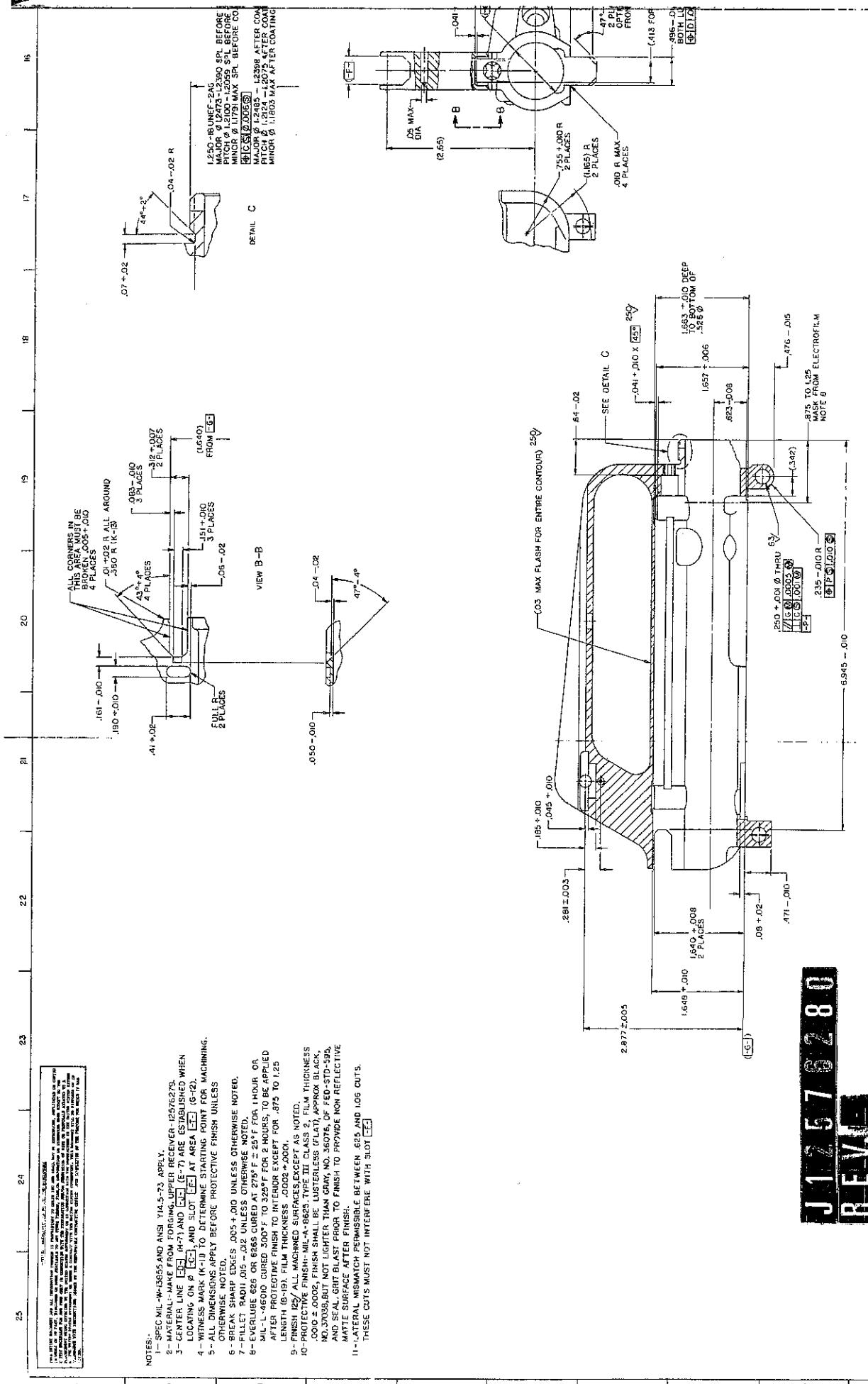
PMIC	DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMAL FRACTION	CONTRACT NUMBER	U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER PICATINNY ARSENAL, NEW JERSEY 07806-5000
MECHANICAL PROPERTIES	2 P- 3 PL ±	CONTRACTOR	
Y.P.		DRAWN BY	HJS [DATE(YR-VO-DA) 951211]
TS		CHEKER	ENGINEER
EL2	THIRD ANGLE PROJECTION	DRAWING APPROVAL	
RA			
B.H.	12972691 M4/M4A1	DESIGN APPROVAL	
	NEXT ASSY USED CN		
R.H.	APPLICATION		
	MATL ENGR	SIZE	CAGE CODE
		3	320C
		SCALE	10/1
		IN. : WT.	1 SHEET

SACAR FORM 66, 1 MAR 88(TEMP) REPLACES SACAR FORM 66, 1 JUL 87(TEMP)
WHICH MAY BE USED UNTIL EXHAUSTED





J 1 2 5 7 8 2 8 0
REF V



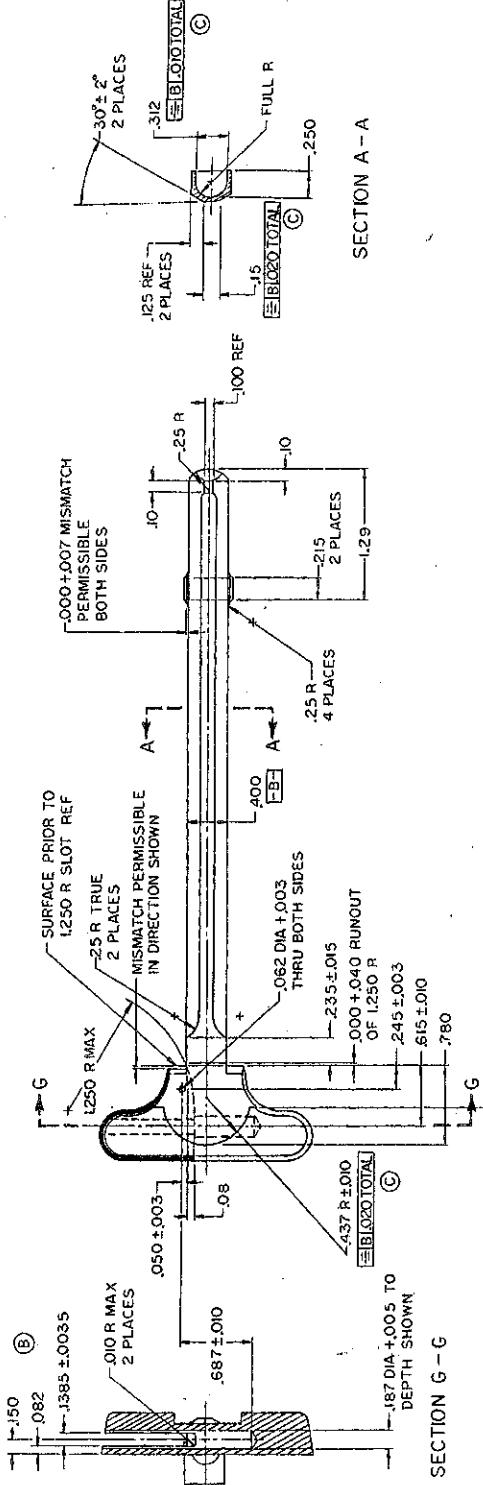
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5	4	3	2	1																																	
<p>NOTES:</p> <ol style="list-style-type: none"> 1. WIRE, STAINLESS STEEL, TYPE 631, (17-7PH), COLD DRAWN, ASTM A313. 2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDTN CH900. HOLD AT 900°F ± 10° FOR 1 HOUR. AIR COOL. 3. ROCKWELL HARDNESS SHALL BE 15N 84.5 MIN. 4. MIL-W-13855 APPLIES. 5. BREAK SHARP EDGES .003±.012. 																																					
<p>SPRING, HELICAL, COMPRESSION</p> <p>WIRE DIAMETER — — — — — .0240 ± .0005 COIL DIAMETER (O.D.) — — — — — .175 ± .004 FREE LENGTH <u>AFTER SETTING</u> — — — — — 1.250 REF TOTAL COILS — — — — — 21 REF DIRECTION OF HELIX — — — — — OPTIONAL LOAD AT COMPRESSED LENGTH OF 750 IN. — 3.50 LB ± .35 LB SOLID LENGTH — — — — — .535 MAX TYPE OF ENDS — — — — — CLOSED</p>																																					
<p>MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572</p>																																					
<p>U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801</p>		<p>PART NO. 8448520</p>		<p>CURRENT FSCM NO.</p>																																	
<p>UNLESS OTHERWISE SPECIFIED: CONTRACT NO.: DIMENSIONS ARE IN INCHES: DATE 27 APR 70 ANGLES: 3 PLACE DECIMALS: .005 2 PLACE DECIMALS: MATERIAL:</p>		<p>PREP P. Vining C. G. Quimby CHK R. Bremmer O. Hall ENGR R. Cleve R. Brummet SUBMITTED</p>		<p>DEPT. OF THE ARMY: U.S. ARMY WEAPONS COMMAND: ROCK ISLAND MILITARY POLICE: 6-1201 SPRING, CHARGING HANDLE LATCH</p>																																	
<p>MECHANICAL PROPERTIES</p> <table border="1"> <tr> <td>YS</td> <td>8448517</td> <td>M4</td> <td></td> </tr> <tr> <td>MIN</td> <td>88448517</td> <td>M231</td> <td></td> </tr> <tr> <td>YS</td> <td>88448517</td> <td>M16</td> <td></td> </tr> <tr> <td>MAX</td> <td></td> <td></td> <td></td> </tr> <tr> <td>EL2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>RA</td> <td>88448517</td> <td>M16</td> <td></td> </tr> <tr> <td>BH</td> <td></td> <td></td> <td></td> </tr> <tr> <td>RH SEE NOTE 3</td> <td></td> <td></td> <td></td> </tr> </table>		YS	8448517	M4		MIN	88448517	M231		YS	88448517	M16		MAX				EL2				RA	88448517	M16		BH				RH SEE NOTE 3				<p>SEE NOTE 1</p>		<p>DRAWING NO. B 19204 APPROVED R. S. Kenny FINAL PROTECTIVE FINISH 54.1 OF MIL-STD-171 APPLICATION</p>	
YS	8448517	M4																																			
MIN	88448517	M231																																			
YS	88448517	M16																																			
MAX																																					
EL2																																					
RA	88448517	M16																																			
BH																																					
RH SEE NOTE 3																																					
<p>AMSWE Form 403B, 13 Nov 70</p>																																					
<p>EDITION OF 29 JUL 69 MAY BE USED.</p>																																					

DIMENSIONS		DESCRIPTION	DATE	APPROVED
NO.	STOCK NO.	READING FROM COAT'S DRAWING		
1.	-	-	27-AUG-10	
2.	1.167	SEE 1.167		
3.	1.167	SEE 1.167		
4.	C (6)	SEE 1.167	20-JUL-08	
5.	D INR WPS2-5226B	60-22-3	10-DEC-07	
6.	D INR WPS2-5226B	60-22-3	10-DEC-07	
7.	D INR WPS2-5226B	60-22-3	10-DEC-07	
8.	D INR WPS2-5226B	60-22-3	10-DEC-07	
9.	D INR WPS2-5226B	60-22-3	10-DEC-07	
10.	D INR WPS2-5226B	60-22-3	10-DEC-07	
11.	D INR WPS2-5226B	60-22-3	10-DEC-07	
12.	D INR WPS2-5226B	60-22-3	10-DEC-07	
13.	D INR WPS2-5226B	60-22-3	10-DEC-07	
14.	D INR WPS2-5226B	60-22-3	10-DEC-07	
15.	D INR WPS2-5226B	60-22-3	10-DEC-07	
16.	D INR WPS2-5226B	60-22-3	10-DEC-07	
17.	D INR WPS2-5226B	60-22-3	10-DEC-07	
18.	D INR WPS2-5226B	60-22-3	10-DEC-07	
19.	D INR WPS2-5226B	60-22-3	10-DEC-07	
20.	D INR WPS2-5226B	60-22-3	10-DEC-07	

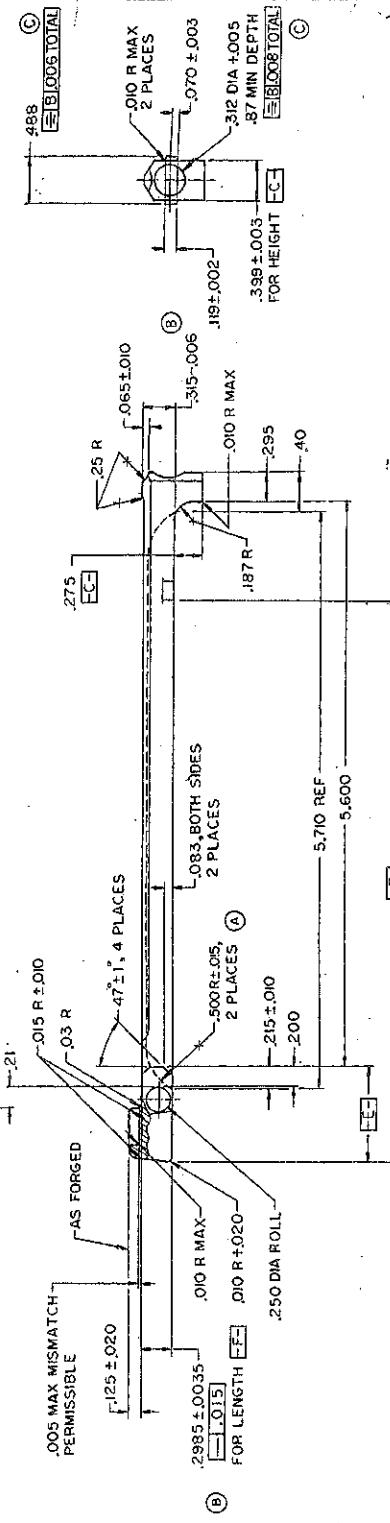
CTE: FINISH 125 EXCEPT AS NOTED.

- This technical drawing illustrates a mechanical component's dimensions and surface finish specifications. Key features include:

 - Dimensions:** Overall length is 1.150 inches. A slot width is 0.1365 ± 0.0035 inches.
 - Surface Finishes:** The drawing specifies surface finishes for various areas:
 - Surfaces prior to 1.250 R slot ref. have a finish of 0.000 ± 0.007 mismatch.
 - Surfaces after 1.250 R slot ref. have a finish of 0.125 REF.
 - Surfaces with a 25 R true mismatch have a finish of 0.050 ± 0.003.
 - Surfaces with a 25 R max mismatch in direction shown have a finish of 0.010 R MAX.
 - Material and Finish Requirements:** The material shall be lusterless (flat), approx. black, no. 37038, table IX, but not lighter than gray, no. 35676, table III of FED-STD-593, and seal.
 - Break Sharp Edges:** Break sharp edges, .005 ± .010 unless otherwise specified.
 - Non-Reflective Matte Finish:** Before final grit blast exterior over a length of .082 min to produce non-reflective matte finish after final grit blast.
 - Final Finish:** Finish MIL-A-8525 type III, class 2, film thickness 0.000 ± 0.002, finish shall be lusterless (flat), approx. black, no. 37038, table IX, but not lighter than gray, no. 35676, table III of FED-STD-593, and seal.
 - Other Notes:** All dimensions apply before finish. Break sharp edges, .005 ± .010 unless otherwise specified. MIL-W-13855 applies.



SECTION A-A



CURRENT DESIGN ACTIVITY FOCUS

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

COVER SHEET

PICATINNY ARSENAL, NEW JERSEY 07806-5000

TECHNICAL DATA PACKAGE LIST : 19204 3446519
DOCUMENT NUMBER : D 19204 3446519
SPECIFICATION : MIL-W-63150
NATIONAL STOCK NO : - - -
LATCH, CHARGING HANDLE

CAGE 19200

REQUEST/FROM ID :GRIA72

TDPL COVER SHEET

B.F. RELEASED BY: *Joh B. Mania*

1. MANUFACTURE AND ACCEPTANCE INSPECTION OF THE ABOVE MATERIAL SHALL BE IN ACCORDANCE WITH ALL DRAWINGS, SPECIFICATIONS AND OTHER TECHNICAL DATA LISTED IN THIS TDPL.
2. THIS TDPL IS COMPRISED OF THE FOLLOWING SECTIONS WHICH LIST THE DRAWINGS AND ASSOCIATED DOCUMENTS (WITH THEIR REVISION AND AMENDMENT LEVELS) REQUIRED TO PRODUCE, PACKAGE AND INSPECT THE MATERIAL BEING PRODUCED. (NA INDICATES NOT APPLICABLE)

	FROM	TO
A. PRODUCT DRAWING AND ASSOCIATED LISTS	SHEET NO (S)	0001
B. PACKAGING DRAWINGS AND DOCUMENTS	SHEET NO (S)	0002
C. INSPECTION DRAWINGS AND DOCUMENTS	SHEET NO (S)	0003
D. SPECIFICATIONS AND STANDARDS	SHEET NO (S)	0004
E. OUTSTANDING APPROVED ENGINEERING CHANGES	SHEET NO (S)	NA
F. TDPL NOTE LEGEND	SHEET NO (S)	0005
3. DRAWINGS/DOCUMENTS AND ASSOCIATED LISTS LISTED IN THE ABOVE TDPL SECTIONS ARE IDENTIFIED AS TO TYPE BY PREFIX CODES AS FOLLOWS:

QS	SUPPLEMENTAL QUALITY ASSURANCE PROVISION
PD	PACKAGING DATA SHEET
4. THE SPECIFICATIONS AND STANDARDS SECTION OF THE TDPL IS A COMPILATION OF ALL SPECIFICATIONS AND STANDARDS WHICH ARE ESSENTIAL FOR BIDDING AND MANUFACTURING PURPOSES. THE ABSENCE OF ANY SPECIFICATION OR STANDARD FROM THE LISTING WHICH IS OTHERWISE REFERRED TO IN ANY SPECIFICATION OR STANDARD LISTED THEREIN OR IS CALLED OUT ON A PRODUCT, PACKAGING OR INSPECTION DRAWING IS NOT TO BE CONSTRUED AS CONSTITUTING RELIEF FROM REQUIREMENTS OF THE SPECIFICATIONS. THE AMENDMENT OR REVISION LEVEL FOR SUCH UNLISTED SPECIFICATIONS AND STANDARDS SHALL BE AS SPECIFIED IN THE LATEST ISSUE OF THE INDEX OF SPECIFICATIONS AND STANDARDS IN EFFECT AS OF THE DATE OF THIS TDPL. SUPERSEDED SPECIFICATIONS AND STANDARDS WHICH MAY BE REFERENCED ON DRAWINGS ARE LISTED TOGETHER WITH THE APPROPRIATE SUPERSEDED SPECIFICATION OR STANDARD. WHEN INTERIM CHANGES TO SPECIFICATIONS AND STANDARDS ARE ISSUED (AMENDMENTS, NOTICES OR CHANGE NOTICES), ONLY THE LATEST ISSUE IS LISTED IN THE TDPL. WHERE THESE INTERIM CHANGES ARE NOT CUMULATIVE, ALL PREVIOUS ISSUES ALSO APPLY, UNLESS THE DOCUMENT ITSELF STATES OTHERWISE.
5. ALL REFERENCES ON DRAWINGS/DOCUMENTS AND ASSOCIATED LISTS TO PICATINNY, FRANKFORD OR ROCK ISLAND ARSENALS WILL BE CONSIDERED AS CHANGED TO COMMANDER, ARDCG, ATTN: SMCAR-BAC, PICATINNY ARSENAL, NJ 07806-5000
6. ALL REFERENCES TO PARTS LISTS ON US ARMY TANK AUTOMOTIVE COMMAND (TACOM) DRAWINGS SHALL BE DISREGARDED.

Distribution statement F.
This document contains neither recommendations nor conclusions of the Defense Acquisition University. It has been approved for public release by DAU.
Distribution Statement F
Approved for public release by DAU
12 March 1997

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

PICATTINNY ARSENAL, NEW JERSEY 07806-5000

SHEET NO 1 of 5

CAGE 19200

TECHNICAL DATA PACKAGE LIST : 19204 8448519
DOCUMENT NUMBER : D 19204 8448519
SPECIFICATION : MIL-W-63150
NATIONAL STOCK NO : - - -
LATCH, CHARGING HANDLE

REQUEST/PRON ID : GALA73

PREFIX	DRAWING/DOCUMENT	-SHEET-	REV	DOCUMENT	SEC	DOCUMENT	NOTE	REVIEW
CODE	SIZE	CAGE	NO	OF	SYM	DATE	DATE	DATE

PRODUCT DRAWINGS AND ASSOCIATED LISTS

E 19200 12579607 1 1 A 01/08/88 GEOMETRIC SYMBOLS FOR DIMENSIONING AND TOLERANCING
D 19204 8448519 1 1 H 08/11/92 LHM LATCH, CHARGING HANDLE

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

SHEET NO 2

CAGE 19200

TECHNICAL DATA PACKAGE LIST : 19204 8448519
DOCUMENT NUMBER : D 19204 8448519
SPECIFICATION : MIL-W-63150
NATIONAL STOCK NO : - - -
LATCH, CHARGING HANDLE

REQUEST/PRON ID : GALA73

PREFIX	DRAWING/DOCUMENT CODE	SIZE	CAGE	NUMBER	-SHEET- NO	REV	DOCUMENT	SEC	DOCUMENT	TITLE	NOTE	REVIEW DATE
PD												

PACKAGING DRAWINGS AND DOCUMENTS
PD 19204 8448519 1 1 B 06/11/80 LIM PKG DATA SHT -LATCH, CHARGING HANDLE

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

SHEET NO 3

PICATINNY ARSENAL, NEW JERSEY 07806-5000

CAGE 19200

TECHNICAL DATA PACKAGE LIST :	19204 8448519
DOCUMENT NUMBER :	D 19204 8448519
SPECIFICATION :	MIL-W-63150
NATIONAL STOCK NO :	- - -
LATCH, CHARGING HANDLE	REQUEST/PRON ID : GAIAG73

PREFIX	DRAWING/DOCUMENT CODE	DOCUMENT NUMBER	-SHEET-			REV	DOCUMENT SEC	DOCUMENT TITLE	NOTE	REVIEW DATE
			NO	OF	SMA					
INSPECTION DRAWINGS AND DOCUMENTS										
B	19204 8443551		1	1	A	10/24/69				
D	19204 8443842		1	1	B	10/19/73				
D	19204 8443905		1	2	A	09/16/70				
			2	2	A	09/16/70				
D	19204 8443948		1	1	A	09/16/70				
QS	19204 8448519		1	4	D	09/10/92 LIM				
			2	4	D	09/10/92 LIM				
			3	4	D	09/10/92 LIM				
			4	4	D	09/10/92 LIM				

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

SHEET NO. 4

PICATINNY ARSENAL, NEW JERSEY 07806-5000

TECHNICAL DATA PACKAGE LIST : 19204 8448519
 DOCUMENT NUMBER : D 19204 8448519
 SPECIFICATION : MIL-W-63150
 NATIONAL STOCK NO : - - -
 LATCH, CHARGING HANDLE

CAGE 19200

REQUEST/PRON ID : GALA73
 REQUEST/PRON ID : GALA73

QPL/ RECMAT	DOCUMENT NUMBER	REV SYM	AND NO	SUPPL CHG	DOCUMENT DATE	SEC CL	DOCUMENT TITLE	NOTE
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SPECIFICATIONS AND STANDARDS

PPP-B-00636 I (REPLACED BY PPP-B-00636 01/01/91) BOXES, SHIPPING, FIBERBOARD *

PPP-B-635 C TAPES, PACKAGING, PAPER /FOR CARTON SEALING/ ALUMINUM AND ALUMINUM ALY, PLATE & SHEET, GENL SPEC FOR ALUMINUM ALY, PLATE AND SHEET, 7075 *
 BPP-T-16 F 08/02/84 09/25/78 *
 QQ-A-250 P 11/05/91 *
 QQ-A-250/12 F 12/15/89 *
 FED-STD-595 B 11/13/89 *
 MIL-A-8625 E 04/23/90 *
 MIL-B-117 F 02/19/82 *
 MIL-G-10944 B 10/24/91 *
 MIL-P-116 J 02/28/92 *
 MIL-P-14232 E 05/28/87 *
 MIL-W-13855 D 09/09/88 *
 MIL-W-63150 3 05/10/89 *
 MIL-STD-105 B 01/10/92 *
 MIL-STD-129 I 06/21/91 *
 MIL-STD-2073-1 B 00/00/85 *
 ANSI-B46.1 (REPLACED BY ANSI-B46.1 00/00/88) GAGE BLANKS **
 ANSI-B47.1 (REPLACED BY ANSI-B47.1 00/00/73) DIMENSIONING AND TOLERANCING FOR ENGINEERING DRAWINGS **
 ANSI-Y14.5M 01/01/82 (REPLACED BY ANSI-Y14.5M 01/01/82) DIMENSIONING AND TOLERANCING FOR ENGINEERING DWGS. **
 USASI-Y14.5 }

02/24/93

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

PICATINNY ARSENAL, NEW JERSEY 07806-5000

SHEET NO 5

TECHNICAL DATA PACKAGE LIST : 19204 8448519
DOCUMENT NUMBER : D 19204 8448519
SPECIFICATION : MIL-W-53150
NATIONAL STOCK NO : - - -
LATCH, CHARGING HANDLE REQUEST/FROM ID : GALA73

CAGE 19200

TDEL NOTE LEGEND

DESCRIPTION OF SYMBOLS IN THE NOTE COLUMN

- * - Not Furnished - To be obtained from C.O. Naval Publications and Forms Ctr., 5801 Tabor Ave., Phila., Penna., 19120, ATTN. Code 105. If not available, immediately advise the procuring contracting officer.
- ** - Not Furnished - Commercial Specifications and Standards may be obtained from the publishers. They are not available from Government sources.

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7

8

NOTES:
 1. STEEL, CMPSN 1045, TO 1055, ANNEALED,
 COLD ROLLED STRIP, NO 2 FINISH, SPEC
 QQ-S-700.
 2. BREAK ALL SHARP EDGES. .005R+.005.
 3. HEAT TREATMENT: AUSTEMPER TO
 HARDNESS SPECIFIED.
 4. MIL-W-13855 APPLIES.

REVISIONS		DATE APPROVED
ZONE/LIN	DESCRIPTION	DATE
A	NOR #55-2009 30-02-13	80-05-16 <i>B. H. G.</i>
B	NOR #55-30045 890731	891130 <i>K. P.</i>
C	NOR #50028 91-07-06	89-11-11 <i>K. P.</i>

.05, BOTH BEADS → .0250±.0015 → STOCK THICKNESS

C25B BOTH BEADS

This technical drawing illustrates a mechanical part with various dimensions and surface finish specifications. The overall width is indicated as $90^{\circ}0' \pm 0^{\circ}10'$. Key dimensions include:

- Top horizontal width: $.520$
- Left vertical height: $.520$, labeled as $\oplus A \ominus 0.00$ TOTAL
- Right vertical height: $.306 + .005$, labeled as $\oplus A \ominus 0.00$ TOTAL
- Bottom horizontal width: $.433 + .004$
- Bottom vertical height: $.12$, labeled as $R, 2 PLACES$
- Bottom horizontal width: $.125 R, .10$, labeled as $R, 2 PLACES$
- Bottom vertical height: $.10$, labeled as $R, 2 PLACES$
- Bottom horizontal width: $.06 R, .06$, labeled as $R, 2 PLACES$
- Bottom vertical height: $.00 R MAX.$, labeled as $.00 R MAX.$
- Bottom horizontal width: $.00 R MAX.$, labeled as $.00 R MAX.$
- Bottom vertical height: $.00 R TOTAL$
- Bottom horizontal width: $.750$
- Top horizontal width: $.750$
- Top vertical height: $.02 R$
- Top horizontal width: $.022 - .01$

Surface finish requirements are indicated by symbols like \ominus and \oplus followed by values and place counts (e.g., 2 PLACES). Dimension lines often include leader lines pointing to specific features or surfaces.

CURRENT DESIGN ACTIVITY CODE 1900
U.S. AIR FORCE
AEROMOBILE RESEARCH, DEVELOPMENT AND OPERATING CENTER
AEROMOBILE DIVISION
AEROMOBILE TEST AND EVALUATION
AEROMOBILE TRAINING

15
C

COVER EJECTION BOBT
RT NO. 07-103
DEPT. OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS 61401

四

1

EDITION OF 29 JULY 69 MAY BE USED
SCALE 2/1

MECHANICAL PROPERTIES		TYPE OF SHEET METAL USED TOEBOARD:		CONTRACT NO.:	
V.S.	W.S.	THICKNESS: .010	STRENGTH: 1000 LBS. 2 PLATE DETAILS: 1005 1000	DEPT. OF THE ARMY U.S. ARMY CORPS OF ENGINEERS ROCK ISLAND, ILLINOIS 61205	REF ID: A4-1000
MAX.	MIN.	WIRELESS		DATE 15 SEPT 72	
B.U.Z.	B.U.Z.			COVER, EJECTION PORT	
		SEE NOTE 1			
		15N		SIZE CODE IDENT NO. 2/1	
Per 78-2815		NEXT ASSTY USED ON		D 19204-8448785	
		APPLICATION		SCALE 2/1 APPROV'D BY G. HANKEY	
				DRAWING NO. 2/1	
				SHEET 1 OF 1	

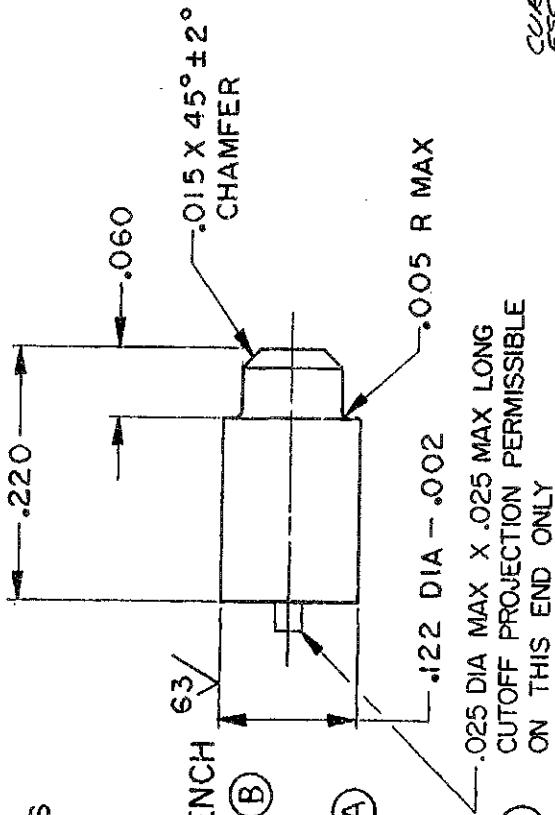
NOTICE: RESTRICTED AS TO USE AND DISCLOSURE			
<p>This entire document and all information thereon is proprietary to COLTS INC AND SHOULD NOT BE REPRODUCED, DUPLICATED, OR COPIED IN WHOLE OR IN PART, DISCLOSED OR MADE AVAILABLE TO ANY OTHER PERSON, FIRM, OR CORPORATION OR OTHERWISE USED EXCEPT TO THE EXTENT NECESSARY FOR AND THEN ONLY IN CONNECTION WITH THE PREPARATION AND/OR SUBMISSION OF DRAWINGS OR PROPOSALS RELATED TO A PROCUREMENT BEING EFFECTED BY THE UNITED STATES GOVERNMENT OR IN CONNECTION WITH THE MANUFACTURE, IN THE UNITED STATES, EITHER BY THE UNITED STATES GOVERNMENT OR UNDER A CONTRACT WITH THE UNITED STATES GOVERNMENT. THIS DOCUMENT WILL BE DEPOSITED IN ACCORDANCE WITH INSTRUCTIONS ISSUED BY THE RESPONSIBLE CONTRACTING OFFICER UPON COMPLETION OF THE PURPOSE FOR WHICH IT WAS ISSUED.</p>			
NOTES:			
1. WIRE, STAINLESS STEEL, TYPE 63I, (17-7PH), COLD DRAWN; ASTM A313.		<p>WIRE DIAMETER — COIL DIAMETER (O.D.) — FREE LENGTH — TOTAL COILS — DIRECTION OF HELIX — LOAD AT COMPRESSED LENGTH OF .201 LOAD AT COMPRESSED LENGTH OF SPRING RATE — SOLID LENGTH — TYPE OF ENDS — MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572</p>	
2. PRECIPITATION HEAT TREAT AFTER FORMING TO CONDITION CH900. HOLD AT 900°F ±10°F FOR ONE HOUR. AIR COOL.			
3. FINISH 5.4.1 OF MIL-STD-171.			
4. MIL-W-13855 APPLIES.			
5. BREAK SHARP EDGES .003 + .012 .			
REVISIONS			
MF	ZONE	LIR	DESCRIPTION
			A. SEE ERR HQR 20778
			B NOR W9S2009 80-02-13
			C NORW2S2015 82 08 20
			D NOR W2S0011 / 82-04-13 (CEP W3S3120 / 83-07-07)
			E NOR G1S2048 91-07-08
			F NOR62530167920213
			80-05-16 1974
			80-10-11 1974
			820327 6/2 AN
			APPROVED
			DATE
			OCT 72
			15
			1974
			80-05-16 1974
			80-10-11 1974
			6/2 AN
SPRING, HELICAL, COMPRESSION		<p>0120 ± .0003 120 ± .002 413 REF 8 REF OPTIONAL</p>	
PART NO. 8448787		<p>U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801</p>	
CURRENT		FSQM NO. 19200	
PART NO. 8448787		<p>DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201</p>	
SPRING, COVER LATCH		<p>SEE NOTE I</p>	
B 19204		DRAWING NO. 8448787	
SCALE —		SHEET 1 of 1	
MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED CONTRACT NO. 15 SEPT 72	
ANGLES : 3 PLACE DECIMALS : —		TOLERANCES : —	
2 PLACE DECIMALS : —		PREP P/Bach	
MATERIAL : —		CHK C. B. Bach	
MIN	MAX	ENGR F. S. Turner	SUBMITTED C. B. Bach
EL2	RA	SEE NOTE I	SIGNATURE
BH	NET ASSY	USED ON	APPROVED R. S. Henry
DU	ISN 845 MIN	ADDITION	DATE
SEE NOTE 3		NOTE	

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<p>THIS ENTIRE DOCUMENT AND ALL INFORMATION THEREON IS PROPRIETARY TO COLTS INC AND SHALL NOT BE REPRODUCED, DUPLICATED, OR COPIED, IN WHOLE OR IN PART, DISCLOSED OR MADE AVAILABLE TO ANY OTHER PERSON, FIRM, OR CORPORATION OR, OTHERWISE, USED EXCEPT TO THE EXTENT NECESSARY FOR AND THEIR ONLY IN CONNECTION WITH THE PREPARATION AND /OR SUBMISSION OF BIDS OR PROPOSALS RELATED TO A PROCUREMENT BEING EFFECTED BY THE UNITED STATES GOVERNMENT IN THE MANUFACTURE IN THE UNITED STATES EITHER BY THE UNITED STATES GOVERNMENT OR UNDER A CONTRACT WITH THE UNITED STATES GOVERNMENT. THIS DOCUMENT WILL BE DISPOSED OF IN ACCORDANCE WITH INSTRUCTIONS ISSUED BY THE RESPONSIBLE CONTRACTING OFFICER UPON COMPLETION OF THE PURPOSE FOR WHICH IT WAS ISSUED.</p>																																																													
<p style="text-align: center;">REVISIONS</p> <table border="1"> <thead> <tr> <th>REV</th> <th>ZONE</th> <th>LTR</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td>A</td> <td></td> <td></td> <td>NOR W9S2009</td> <td>80-02-13</td> <td>80-05-16 R. J. Hen</td> </tr> <tr> <td>B</td> <td></td> <td></td> <td>NOR W3S2023 / 83-06-06</td> <td>83-09-14 R. J. Hen</td> </tr> <tr> <td>C</td> <td></td> <td></td> <td>NOR G1S2018</td> <td>91 07 08</td> <td>91-10-11 R. J. Hen</td> </tr> </tbody> </table>		REV	ZONE	LTR	DESCRIPTION	DATE	APPROVED	A			NOR W9S2009	80-02-13	80-05-16 R. J. Hen	B			NOR W3S2023 / 83-06-06	83-09-14 R. J. Hen	C			NOR G1S2018	91 07 08	91-10-11 R. J. Hen																																					
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<p>NOTES:</p> <ol style="list-style-type: none"> FINISH $^{.125}$ / EXCEPT AS NOTED. BREAK ALL SHARP EDGES .005 MAX. CARBURIZE .003 TO .006 TOTAL CASE DEPTH: .113-.005 HEAT TREATMENT: QUENCH AND TEMPER TO SURFACE HARDNESS 15 N 90 MIN. FINISH 5.3.1.2 OF MIL-STD-171. MIL-W-13855 APPLIES. 																																																													
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<p>.125 DIA-.002 \ominus A</p>																																																													
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			SEE NOTE 5	SHEET	10/1																																																								
				SCALE	1:1																																																								

REVISIONS				
REV.	ZONE	ltr	DESCRIPTION	DATE APPROVED
1			REDRAWN FROM COLFS DRAWING	27 APR 70
			C61755 REVISION A	
M.	A	(2)	SEE EO HRD 02253	15 OCT 70 22 Oct 70
M.	B	(3)	SEE ERR HQR-20778	6 OCT 72 GRC
C			NOTE 353533	33-06-25 33-11-02 GRC

NOTE:

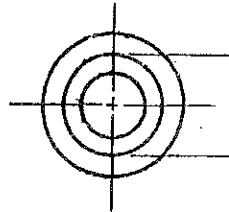
1. TUMBLE TO BREAK SHARP EDGES TO .005R + .005.
2. FINISH 125° EXCEPT AS NOTED.
3. FINISH 5.3.1.2. OF MIL-STD-171.
4. HEAT TREATMENT: QUENCH 63% AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES. (A) ON THIS END ONLY

CURRENT DESIGN ACTIVITY
ESCA NO. 19200U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801DEPT. OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

DETENT, REAR SIGHT

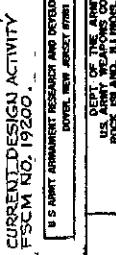
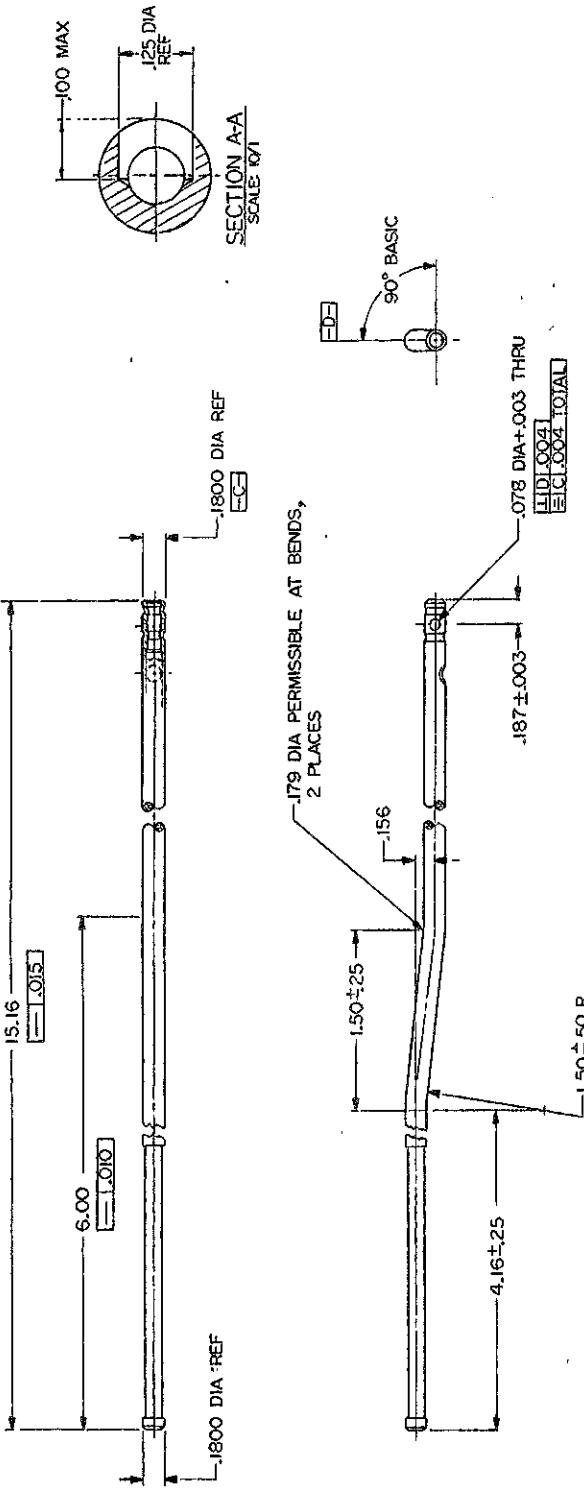
SIZE CODE IDENT NO. DRAWING NO.
B 19204 8448537SCALE 1/4 INCH
SHEET 1 OF 1

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO.
YS MIN	ANGLES: _____	DATE 27 APR 1970
YS MAX	3 PLACE DECIMALS: .005	PREP C.H.C. Q.C. M.F.
EL2 RA	2 PLACE DECIMALS: _____	CHK _____
BH	MATERIAL: CARBON CMPSN	ENGR _____
RH	D8448602 M16 STEEL	SUBMITTED TO: _____
	D8448523 M16A1	SPEC. ASSTIM A10B-23
(B)	NEXT ASSY USED - ON	FINAL PROTECTIVE FINISH
	APPLICATION	SEE NOTE 3



NOTE
1. MAKE FROM GAS TUBE AND
PLUG ASSEMBLY - 8448568
2. FINISH 125V.
3. MIL-W-13855 APPLIES.

REVISIONS				
REV.	ZONE	TYPE	DESCRIPTION	DATE APPROVED
W			REDRAWN FROM COLT'S DRAWINGS DETAILS REV. B	27 APR 70
A	(1)	SEE	EOR HED 0257-3	15 JULY 70
B	(3)	SEE	EOR NOR 2016	6 OCT 72
C	1/22	SEE	2/24/46	3-12-07
D	NOR	2250	1/2-30	28-05-05
E	NOR	65-207	BBQ5301	22-08-11
F	INOR	62-53059/9206301		22-08-11
G	TECP	62-53059/9206301		22-08-11



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NOTE:

1. SUGGESTED HEAT TREAT:
LIQUID CARBURIZE AT
1550°F TO OBTAIN A
TOTAL CASE DEPTH OF
.010/.015.
2. BREAK SHARP EDGES
.005+.010.
3. STEEL, CMPSN 4027, 4028,
AND 4037, SPEC ASTM A 304
OR STEEL, CMPSN 1030,
1033, 1035, 1037, AND 1038,
SPEC ASTM A 108.
4. MIL-W-13855 APPLIES.

5 4 3 2 1

MF	ZONE	LTR	REVISIONS		APPROVED
			DESCRIPTION	DATE	
	H	NOR G553009 / 950330		950726	DR

B8448575

D

D

C

C

B

B

CODE IDENT NO.	19200
DOVER, NEW JERSEY 07801	U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER

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MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO:
	ANGLES :	3 PLACES DECIMALS ± .005	
YS			DATE 27 APR 1970
MIN			PREP RGD
YS			CHK Q.J. <i>[Signature]</i>
MAX			ENGR M.L. <i>[Signature]</i>
EL2			SUBMITTED <i>[Signature]</i>
RA	9390001	M4	APPROVED <i>[Signature]</i>
BH	F8448601	M16	
	F8448522	M16A1	
RW	15N 89-91	FINAL PROTECTIVE FINISH APPLICATION	MIL-SID-171
		USED ON	5:3:2
		NEXT ASSY	
			SCALE 5 / 1 SHEET 1 OF 1

A
PIN, TAPER,
FRONT SIGHT

SIZE 8 DRAWING NO. 19204 8448575

CODE IDENT NO. 19200

DATE 12-14-84 AM

NOTES:-
I - SPEC. MIL-W-13855 AND ANSI Y14.5-73
APPLY.

2 - MATERIAL : - LAMINATED SHIM STOCK PER
MIL-S-22499, COMPOSITION 3, TYPE TO
BE AS SHOWN, CLASS I.

3 - BREAK SHARP EDGES .005 +.010 UNLESS
OTHERWISE SPECIFIED.

4-FINISH 125 ALL SURFACES.

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Technical drawing of a circular part labeled A-1. The outer diameter is .75-.02 φ, and the inner hole diameter is .510+.010 φ. The thickness of the laminations is .035-.005 solid stock, with 16-18 laminations (.002) thick. The drawing includes a cross-sectional view at the bottom.

		PART NO. 9349052		U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801	
				SPACER, COMPENSATOR	
				ORIGINAL DATE OF DRAWING 82 - OZ - 2 6	
				DRAFTSMAN E.J.Z.	CHECKER D.E.W.
				ENGR. A. L. S.	ENGR
				ENGR	ENGR
				SIZE FSCM NO. <u>C</u> 19200	
				SCALE 4 / UNIT WT. _____ SHEET 1 OF 1	
				<i>John G. Murphy</i> <i>John G. Murphy</i>	
MECHANICAL PROPERTIES		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES ON DECIMALS ± FRACTIONS ± ANGLES ±	
8448522	M16A1	TP			
8448501	M16	TS			
9327227	M231 F P N	EL2			
9390001	M4	RA			
9349050	M16A2 E 3	BH			
NEXT ASSY	USED ON	RH			
APPLICATION					

5	4	3	2	1		
D	C	B	A			
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NOTES:

1. WIRE, STAINLESS STEEL,
TYPE 31(17-7PH), COLD
DRAWN; ASTM A313.

2. PRECIPITATION HEAT TREAT
AFTER FORMING TO CONDTN
CH900. HOLD AT $900^{\circ}\text{F} \pm 10^{\circ}$
FOR ONE HOUR. AIR COOL.
3. MIL-W-13855 APPLIES.
4. BREAK SHARP EDGES .003+.012 .

MF	ZONE	LTR	REVISONS		DATE	APPROVED
			DESCRIPTION	REV A W/CHANGE		
		B	REPLACES SEE ERR HQR 20827.		14 DEC 72	<i>J. B</i>
		C	WORMSCOIL CECP N 250034 / CECP N 353/20 /	88-04-13 / 82-07-15) 83-11-04 83-07-07)		
		D	NOR GIS 2018	91 07 08	91-10-11 RER Z	

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER _____.0180 ± .0005
COIL DIAMETER (O.D) _____.115 ± .003
FREE LENGTH _____.75 REF
TOTAL COILS _____.20 REF
DIRECTION OF HELIX _____.OPTIONAL
LOAD AT COMPRESSED LENGTH OF .557 AFTER SET _____.1.78 LB ± .18 LB
LOAD AT COMPRESSED LENGTH OF _____.
SPRING RATE _____.
SOLID LENGTH _____.390 MAX
TYPE OF ENDS _____.CLOSED

CURRENT DESIGN ACTIVITY
FSCM No. 19202
US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

PART NO. 8448574

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO.	DEPT OF THE ARMY
YS	ANGLES: 3 PLACE DECIMALS ± .005	DATE 27 APR 70	U.S. ARMY WEAPONS COMMAND
MIN	2 PLACE DECIMALS ± .005	PREP P. J. Farren	ROCK ISLAND, ILLINOIS, 61201
MAX	MATERIAL	CHK G. Sauerhoff D. White	
EL2	SEE NOTE 1	ENGR G. C. Cole	
RA		SUBMITTED <i>J. B.</i>	
BH	F8448601 M16	APPROVED <i>L. J. Henney</i>	
RH	F8448522 M16 Al	FINAL PROTECTIVE FINISH	DRAWING NO.
RH 15N 845 MIN	USED ON	5.41 OF MIL-STD-171	8448574
	NEXT ASST	SCALE —	SCALE —
	APPLICATION	SHEET 1 OF 1	

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NOTE:
 1. FINISH 63⁹ EXCEPT AS NOTED.
 2. ANNEAL FOR LENGTH [E-].

3. BREAK SHARP EDGES .005+.010.

4. MIL-W-13855 APPLIES.

(B) .042 DIA ± .010 25°
 OPTIONAL
 .085 DIA +.005
 [E] F [B] O [D] A

.3095 DIA MIN
 PERMISSIBLE FOR
 LENGTH [E-]

.312 DIA -.002
 [E] B -

.1885 DIA -.0005
 [E] B -.002 TOTAL
 .010 R +.005
 .375 MAX HARDNESS
 TRANSITION ZONE
 .53
 .700

.168
 [E] C -

.9175 ±.0025
 .47
 .100
 .259 -.005
 21°
 BASIC
 .375 ±.010
 .096 ±.004
 .035 ±.002
 .090 BASIC
 .330 BASIC
 .15 BASIC
 .086 DIA +.003
 [E] F -

(A) C OF [E]-

SEE VIEW A

(C) .12
 .35
 .75 R

VIEW A
ALTERNATIVE DESIGN

REVISIONS
DATE APPROVED

REV.	REF.	DESCRIPTION	DATE
R1	D626B REV B	REDRAWN FROM COLT'S DRAWING	27 APR 70
A	LW SEE ED MD 06297-3		B-447-70
B	C SEE CO HAD 1025		20 FEB 71
C	SEE ERH HAR 1025		15 OCT 71
D	NORW25013		20 FEB 71
E	NORW25001 / B3-03-09		18-11-03
F	NORW25018		19-11-11

FSHM NO. 19200
CURRENT

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER

EXPIRES ON THE DATE OF THIS DRAWING

1. MIL-A-1945, THE ARMY CONTRACT NUMBER

REF ID: 10000000000000000000000000000000

PLUNGER

REF CODE DRAFT NO. DRAFTING NO.

D 19204 8448546

APPROVED

Ed. [Signature]

SCALE 1:1

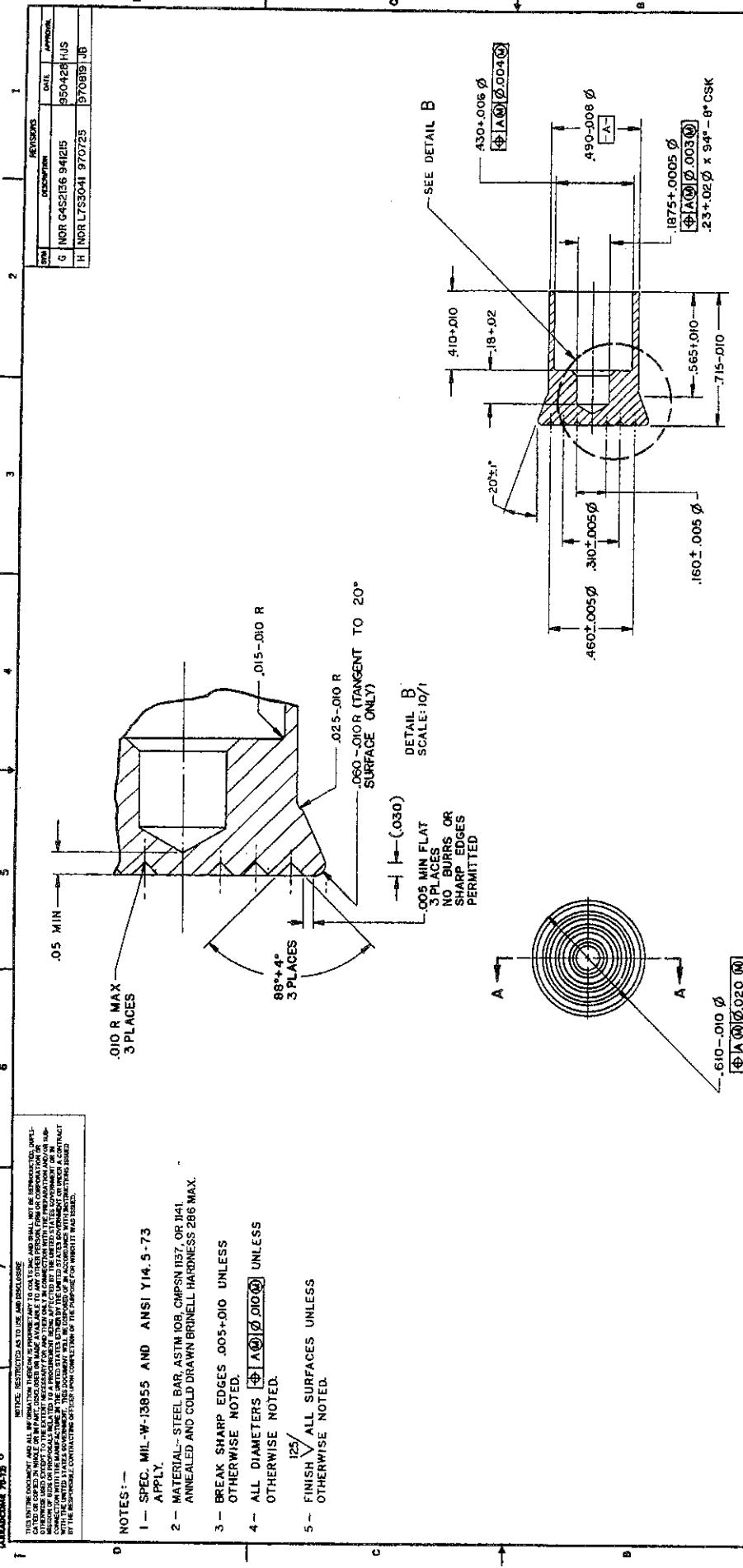
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1

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OTHERWISE USED EXCEPT TO THE EXTENT NECESSARY FOR THE PREPARATION AND USE THEREIN IN CONNECTION WITH THE PREPARATION AND/OR SUB-
MISSION OF A PROPOSAL BY THE Bidders.

NOTES :-

- 1 - SPEC. MIL-W-13855 AND ANSI Y14.5-73
- 2 - MATERIAL - STEEL BAR, ASTM 108 CAPSN 137, OR
ANNEALED AND COLD DRAWN BRINELL HARDNESS 25
- 3 - BREAK SHARP EDGES .005-.010 UNLESS
OTHERWISE NOTED.
- 4 - ALL DIAMETERS Φ $14\frac{1}{2}$ Φ $20\frac{1}{2}$ UNLESS
OTHERWISE NOTED.
- 5 - FINISH ∇ ALL SURFACES UNLESS
OTHERWISE NOTED.



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ASQNC-ARI-CT 910125 OR HIGHER DOD
ARDEC HQ

PART NO. 9349084

		ORIGINAL DATE OF DRAWING 82-02-26		PART NO 9349084	
		DRAWN BY [Signature] DEW		U.S. ARMY AMMUNITION, RESEARCH AND DEVELOPMENT CENTER DRAFTING SECTION, NEW JERSEY (HQ)	
MECHANICAL PROPERTIES		UNITS OTHER THAN INCHES ARE IN INCHES		CAP. PLUNGER	
TOLERANCES ON DIMENSIONS & ANGLES = .005		TOLERANCES ON GEOMETRIC FEATURES = .005			
FRACTIONAL UNITS = INCHES		FRACTIONAL UNITS = INCHES			
APPLICABILITY		APPLICABILITY		SCALE 1:1 UNIT INCHES	
NOTES:		NOTES:		SHEET 4 / 1	

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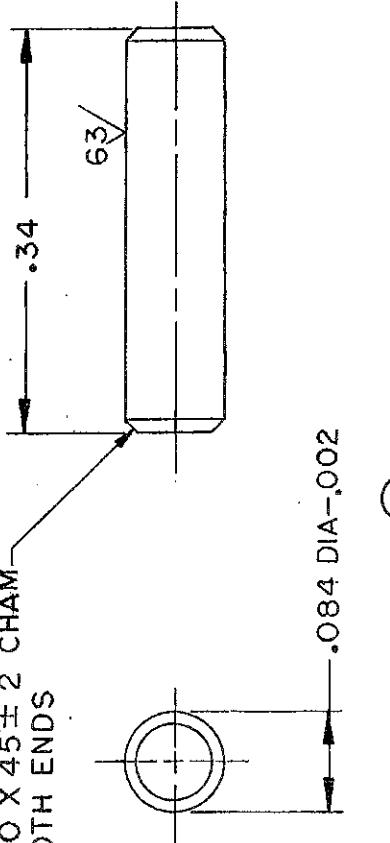
REVISIONS					
H NOR G253059/320716 (ECP 6253060/920630)	92081	All	MF	ZONE LTR	DESCRIPTION FROM COLT'S DRAWING
J NOR G253122/930108	930310	GHS			B62270 REVISION A
					A (2) SEE EO HRD 02197-3
					B (2) SEE HQR 10689
					C (2) SEE ERR HQR 20778
					D NOR W2S2009 80-02-13
					E NOR W553037/850917
					F NOR GIS3096 910814
					G NOR GIS2018/910708

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NOTE:

1. FINISH 125/ EXCEPT AS NOTED.
2. SUGGESTED HEAT TREAT: LIQUID CARBURIZE AT 1550°F TO OBTAIN A TOTAL CASE DEPTH OF .010 TO .015 • HARDEN AND TEMPER AT MIN OF 400°F.
3. BREAK SHARP EDGES .005+.010.
4. MIL-W-13855 APPLIES.
5. MATERIAL: WIRE, STEEL, CMPSN 1018 OR 1020 OR 1022, ASTM A108.
- ALTERNATE MATERIAL: BAR, STEEL, CMPSN 1117, ASTM A108.



DISTRIBUTION STATEMENT E. FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASQNC-AR OR HIGHER DOD AUTHORITY; 92-06-22.

(A)

(C)

CURRENT DESIGN ACTIVITY CAGE CODE 19200

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07805-5000

DEPT. OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

DETENT, PAWL

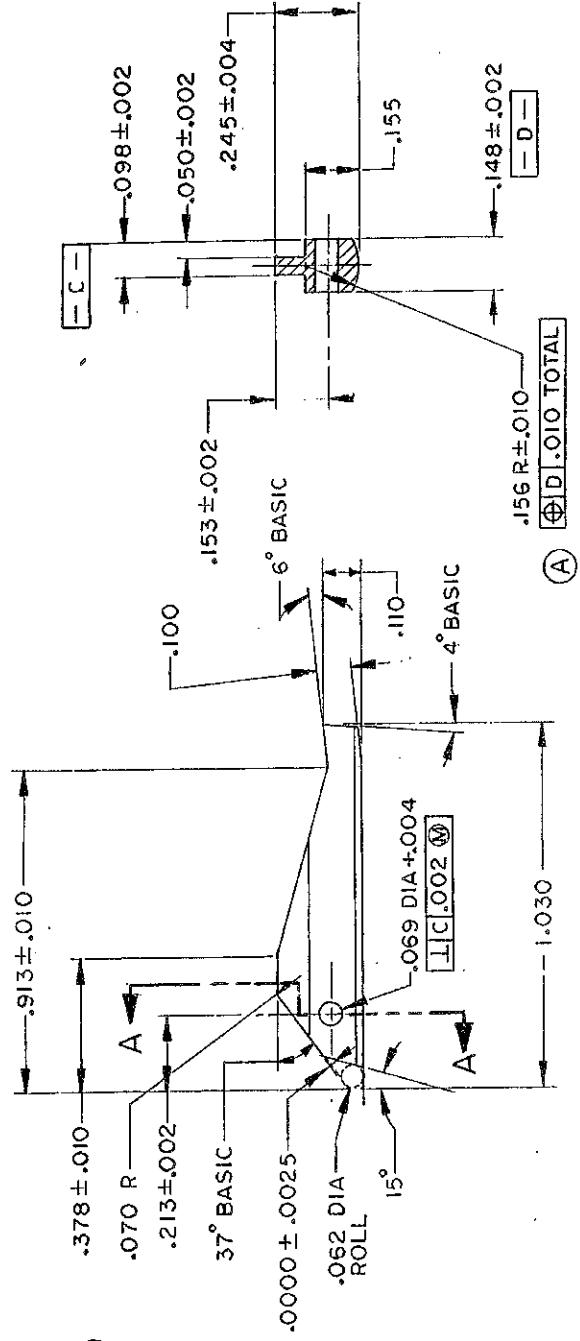
MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO.
YS	TOLERANCES: ANGLES 3 PLACE DECIMALS ±.005	DATE 27 APR 1970
MIN	2 PLACE DECIMALS ±.01	PREP R.G. Ah
MAX	MATERIAL	CHK
EL2	SEE NOTE 5	ENGR
RA	FINAL PROTECTIVE FINISH	SUBMITTED
BH	5 mil - STD - 171	APPROVED
RH	5 mil - STD - 171	
	APPLICATION	

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NOTE:-

1. FINISH 63/.
2. BREAK ALL EDGES .005+.005.
3. STEEL, CMPSN 1137, 1141, OR 1144,
SPEC ASTM A108.
4. HEAT TREATMENT: QUENCH
AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES.



SECTION A-A

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U.S. ARMY WEAPONS COMMAND
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PIQUATTEY ARSENAL, NEW JERSEY 07006-5000

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES		CONTRACT NO:	DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
MIN	MAX	ANGLES	.10°	DATE 27 APR 1970	PREPARED	R 5A R.L.A.
YS		2 PLACE DECIMALS	± .005	CHECKED	J. L. G.	7.1.2
EL2		DECIMALS	± .005	SUBMITTED	J. L. G.	7.1.2
RA				ENGINEER	J. L. G.	7.1.2
BH	9349086	M4		APPROVED	J. L. G.	7.1.2
RH	C8448541	M16A1				
	C44-48	NEUT ASSY	FINAL PROTECTIVE FINISH 5.3.1.2 OF MIL-STD-171			
		USED ON				
		APPLICATION				

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NOTES:

1. WIRE, STAINLESS STEEL, TYPE 631,
(17-7PH), COLD DRAWN, ASTM A313.

2. PRECIPITATION HEAT TREAT
AFTER FORMING TO CONDTN
CH900. HOLD AT 900°F ± 10°
FOR 1 HOUR. AIR COOL.

3. ROCKWELL HARDNESS SHALL
BE 15N 84.5 MIN.

4. MIL-W-13855 APPLIES.
5. BREAK SHARP EDGES .003±.012.

SPRING, HELICAL, COMPRESSION

WIRE DIAMETER _____ .0240 ± .0005
COIL DIAMETER (O.D.) _____ .175 ± .004
FREE LENGTH AFTER SETTING _____ 1.250 REF
TOTAL COILS _____ 21 REF
DIRECTION OF HELIX _____ OPTIONAL
LOAD AT COMPRESSED LENGTH OF 750 IN. 3.50 LB ± .35 LB
SOLID LENGTH _____ .535 MAX
TYPE OF ENDS _____ CLOSED

MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-13572

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER		PART NO. 8448520 19200	
MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED-- DIMENSIONS ARE IN INCHES ANGLES ± ____ 3 PLACE DECIMALS ± ____ 2 PLACE DECIMALS ± ____ MATERIAL _____	CONTRACT NO: DATE 27 APR 70 PREP P. H. Munro CHK G. G. Brown ENGR R. E. Bell SUBMITTED _____	DEPT. OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND TECHNOLOGY CENTER SPRING, CHARGING HANDLE LATCH SIZE CODE IDENT NO. DRAWING NO. B 8 19204 8448520 SCALE _____ SHEET 1 OF 1

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER		PART NO. 8448520 19200	
MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED-- DIMENSIONS ARE IN INCHES ANGLES ± ____ 3 PLACE DECIMALS ± ____ 2 PLACE DECIMALS ± ____ MATERIAL _____	CONTRACT NO: DATE 27 APR 70 PREP P. H. Munro CHK G. G. Brown ENGR R. E. Bell SUBMITTED _____	DEPT. OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND TECHNOLOGY CENTER SPRING, CHARGING HANDLE LATCH SIZE CODE IDENT NO. DRAWING NO. B 8 19204 8448520 SCALE _____ SHEET 1 OF 1

1	2	3	4	5																																																		
<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>MF</th> <th>ZONE</th> <th>LTR</th> <th>DESCRIPTION</th> <th>DATE APPROVED</th> </tr> </thead> <tbody> <tr> <td>M</td> <td></td> <td></td> <td>REPLACES COLT'S PART NUMBERS</td> <td>27 APR 70</td> </tr> <tr> <td></td> <td></td> <td></td> <td>95103 95113 AND 95138-1 FROM COLT'S DRAWING D95101 REV C</td> <td></td> </tr> <tr> <td></td> <td></td> <td>A</td> <td>(4) SEE EO HRD 02197-3</td> <td>15 JULY 70 <i>SP4ES</i></td> </tr> <tr> <td></td> <td></td> <td>B</td> <td>SEE ERR HQR 10822</td> <td>9 AUG 71 <i>TB3</i></td> </tr> <tr> <td></td> <td></td> <td>C</td> <td>SEE ERR HQR 10836</td> <td>13 SEP 71 <i>TG</i></td> </tr> <tr> <td></td> <td></td> <td>D</td> <td>NORW952009 80-02-13</td> <td>80-05-16 <i>AF 100</i></td> </tr> <tr> <td></td> <td></td> <td>E</td> <td>NORW250020</td> <td>82-06-09 <i>LAH 144</i></td> </tr> <tr> <td></td> <td></td> <td>F</td> <td>NORW453048 / 84-10-09</td> <td>85-02-14 <i>AMR&P</i></td> </tr> <tr> <td></td> <td></td> <td>G</td> <td>NORW52018 / 91 07 08</td> <td>91-10-11 <i>RR SE</i></td> </tr> </tbody> </table>					MF	ZONE	LTR	DESCRIPTION	DATE APPROVED	M			REPLACES COLT'S PART NUMBERS	27 APR 70				95103 95113 AND 95138-1 FROM COLT'S DRAWING D95101 REV C				A	(4) SEE EO HRD 02197-3	15 JULY 70 <i>SP4ES</i>			B	SEE ERR HQR 10822	9 AUG 71 <i>TB3</i>			C	SEE ERR HQR 10836	13 SEP 71 <i>TG</i>			D	NORW952009 80-02-13	80-05-16 <i>AF 100</i>			E	NORW250020	82-06-09 <i>LAH 144</i>			F	NORW453048 / 84-10-09	85-02-14 <i>AMR&P</i>			G	NORW52018 / 91 07 08	91-10-11 <i>RR SE</i>
MF	ZONE	LTR	DESCRIPTION	DATE APPROVED																																																		
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		A	(4) SEE EO HRD 02197-3	15 JULY 70 <i>SP4ES</i>																																																		
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		G	NORW52018 / 91 07 08	91-10-11 <i>RR SE</i>																																																		
<p>NOTE:</p> <p>1. BREAK ALL SHARP EDGES (A) .003+.012.</p>																																																						
<p>(A)</p> <table border="1"> <thead> <tr> <th>PART NO.</th> <th>MS MODIFIED</th> <th>DIM L</th> <th>NEXT ASSY</th> </tr> </thead> <tbody> <tr> <td>8448521-1</td> <td>MS16562-130</td> <td>.719±.010</td> <td>C8448615</td> </tr> <tr> <td>8448521-2</td> <td>MS16562-97</td> <td>.267±.010</td> <td>B8448517 D9349086</td> </tr> </tbody> </table>					PART NO.	MS MODIFIED	DIM L	NEXT ASSY	8448521-1	MS16562-130	.719±.010	C8448615	8448521-2	MS16562-97	.267±.010	B8448517 D9349086																																						
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<p>(B)</p>																																																						
<p>(C)</p>																																																						
<p>ALTERED ITEM DRAWING</p> <p>U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801</p> <table border="1"> <thead> <tr> <th colspan="2">MECHANICAL PROPERTIES</th> <th colspan="2">UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</th> <th>CONTRACT NO:</th> </tr> <tr> <th>YS</th> <th>MIN</th> <th>ANGLES ± 3 PLACE DECIMALS ± 2 PLACE DECIMALS ±</th> <th>MATERIAL</th> <th>DATE 27 APR 1970</th> </tr> </thead> <tbody> <tr> <td>YS</td> <td>8448517</td> <td>M4</td> <td></td> <td>PREP <i>SP4ES</i></td> </tr> <tr> <td>YS</td> <td>B8448517</td> <td>M231</td> <td></td> <td>CHK <i>AS-A</i></td> </tr> <tr> <td>MAX</td> <td></td> <td></td> <td></td> <td>ENGR <i>John D. B. Miller</i></td> </tr> <tr> <td>EL2</td> <td></td> <td></td> <td></td> <td>SUBMITTED <i>J. P. Schellery</i></td> </tr> <tr> <td>RA</td> <td>SEE TABLE M16</td> <td></td> <td></td> <td></td> </tr> <tr> <td>BH</td> <td>NEXT ASSY</td> <td>USED ON</td> <td>FINAL PROTECTIVE FINISH</td> <td>APPROVED <i>K. S. Henney</i></td> </tr> <tr> <td>RH</td> <td></td> <td>APPLICATION</td> <td></td> <td>SCALE NONE</td> </tr> </tbody> </table>					MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO:	YS	MIN	ANGLES ± 3 PLACE DECIMALS ± 2 PLACE DECIMALS ±	MATERIAL	DATE 27 APR 1970	YS	8448517	M4		PREP <i>SP4ES</i>	YS	B8448517	M231		CHK <i>AS-A</i>	MAX				ENGR <i>John D. B. Miller</i>	EL2				SUBMITTED <i>J. P. Schellery</i>	RA	SEE TABLE M16				BH	NEXT ASSY	USED ON	FINAL PROTECTIVE FINISH	APPROVED <i>K. S. Henney</i>	RH		APPLICATION		SCALE NONE					
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RH		APPLICATION		SCALE NONE																																																		
<p>CURRENT FSCM NO. 19200</p>																																																						
<p>A</p>																																																						

NOTICE: RESTRICTED AS TO USE AND DISCLOSURE				REVISIONS	
MF	ZONE	LTR		DESCRIPTION	DATE APPROVED
<input checked="" type="checkbox"/>				REDRAWN FROM COLTS DRAWING C 50381 REV A	27 APR 70
<input type="checkbox"/>	M			A (1) SEE EO HRD 02197-3	15 JULY 70
<input type="checkbox"/>		-		B (2) SEE ERR HQR 20778	6 OCT 72
<input type="checkbox"/>				C NOR W2S0011 / 82-04-13 (ECP W353120 / 83-07-07)	83-11-04
<input type="checkbox"/>				D NOR G8S2005/ 880310	880927

NOTES:

1. WIRE STEEL, CARBON, SPRING,
MUSIC, ASTM-A228 (A)
2. STRESS RELIEVE. HOLD AT
 $475^{\circ}\text{F} \pm 25^{\circ}$ FOR 30 MINUTES.
3. MIL-W-13855 APPLIES. (B)
4. BREAK SHARP EDGES .003+.012

MANUFACTURE IN ACCORDANCE WITH TYPE I, GRADE B, MIL-S-3572 (B)

SPRING DATA

WIRE DIA: .0140 \pm .0003
TOTAL COILS: 105 REF
DIRECTION OF HELIX: OPTIONAL
LOAD AT COMPRESSED LG OF .205 IN. = 1.75 LBS \pm .25 LBS
SOLID LENGTH: .170 MAX
TYPE OF ENDS: PLAIN CRIMPED AS SHOWN

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
ANGLES \pm
3 PLACE DECIMALS \pm .005
2 PLACE DECIMALS \pm

MECHANICAL PROPERTIES	SPECIFIED CONTRACT NO:	PREP	CHK	ENGR	SUBMITTED	SIZE	CDI
YS							
MIN							
MAX							
EL2	9349086 M4						
RA	C8448541 M6A1						
BH	NEXT ASSY	USED ON	FINAL PROTECTIVE FINISH	APPROVED			
RH			APPLICATION				

DEPT OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

CURRENT DESIGN ACTIVITY CASE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
FACILITY ARSENAL, NEW JERSEY 07805-3500

SPRING, BOLT

SEE NOTE 1

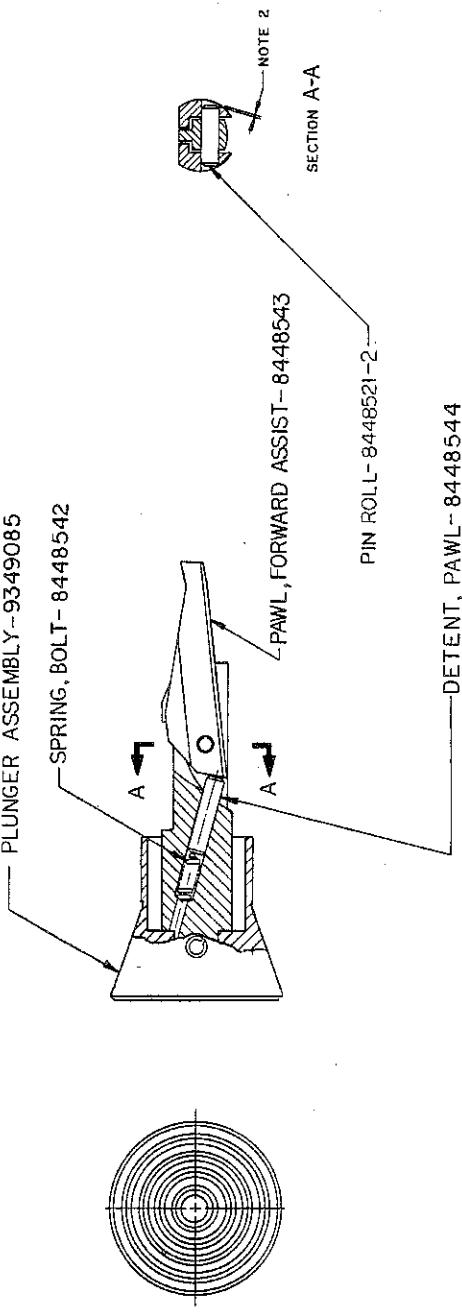
CDI

REVISIONS		DATE	APPROVAL
LINE	DESCRIPTION	DATE	APPROVAL
—	PRODUCTION RELEASE	02-06-14	100-000000000000000000000000000000
—	ERW220213	02-06-14	100-000000000000000000000000000000
A	NOR03530011/03-03-06	03-11-06	100-000000000000000000000000000000
B	NOR02532458/03-12-30	03-09-06	100-000000000000000000000000000000
C	NORMAS0000/04-11-15	05-04-07	100-000000000000000000000000000000
D	NOR 6153018/03-02	06-01-14	100-000000000000000000000000000000
E	NOR 6153018/03-02	06-01-14	100-000000000000000000000000000000

NOTES:-

1 - SPEC. MIL-W-13855 AND ANSI Y14.5-73
APPLY.

2 - INSERT ROLL PIN SUCH THAT ENDS ARE
FLUSH WITH OR BELOW SURFACE ON BOTH
SIDES AS SHOWN.



FOR ENGINEERING PARTS LIST SEE PL 9349086

PART NO 9319086

DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING 02-06-09	U.S. NAVY AIRCRAFT RESEARCH AND DEVELOPMENT CENTER WILMINGTON, DELAWARE DOVER, NEW JERSEY 07801	
TOLERANCES ON DIMENSIONS & FUNCTIONS & ANGLES *		FORWARD ASSIST ASSEMBLY		
		REF.	FSCM NO.	SHEET 1 OF 1
		D	19200	3349086
		12/1/07 MJD		

TECHNICAL DATA PACKAGE LIST 8448535
DOCUMENT NUMBER D 3448535
SPECIFICATION MIL-W-63150
NATIONAL STOCK NUMBER DRUM,WINDAGE

ARMAMENT RESEARCH DEVELOPMENT & ENGINEERING CENTER 19 NOV 87
DOVER, NEW JERSEY 07801-5001
CAGE 19200 SHEET 1 OF 4
REQUEST /PRON 811713

PRODUCT DRAWINGS AND ASSOCIATED DOCUMENTS
CAGE PRE- DRAWING/DOCUMENT SHEET REV DOCUMENT SEC
CD FIX SIZE NUMBER ND - OF SYM DATE CL
CODE

19204	D	8448535	1	1	D	02/06/85	LMTD DRUM,WINDAGE
19204	PS	8448535	1	1	C	06/11/80	LMTD PKG DATA SHT ~ DRUM,WINDAGE
19204	SQ	8448535	1	3	D	02/06/85	LMTD SQAP ~ DRUM,WINDAGE
			2				
			3	3	D	02/06/85	
			3	3	D	02/06/85	
F 12579607			1	1		11/24/86	GEOMETRIC SYMBOLS FOR DIMENSIONING AND TOLERANCING

TECHNICAL DATA PACKAGE LIST 8448535
DOCUMENT NUMBER D 8448535
SPECIFICATION MIL-W-63150
NATIONAL STOCK NUMBER
DRUM, WINDAGE

ARMAMENT RESEARCH DEVELOPMENT & ENGINEERING CENTER
DOVER, NEW JERSEY 07801-5001
CAGE 19200
REQUEST /PRON 811713

19 NOV 87

2

SHEET

INSPECTION EQUIPMENT DRAWINGS AND ASSOCIATED DOCUMENTS

CAGE CD FIX SIZE CODE	DRAWING/DOCUMENT NUMBER	SHEET NO - OF	REV SYM.	DOCUMENT DATE	SEC CL	DOCUMENT TITLE	NOTE
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19204	D 8443613	1	1	B	12/21/73	GAGE, LOCATION	
19204	D 8443856	1	1	B	12/21/73	GAGE, LOCATION	
19204	EL 8448535	1	1	02/05/75	LMTD IEL	- DRUM, WINDAGE	

TECHNICAL DATA PACKAGE LIST 8448535
 DOCUMENT NUMBER D 8448535
 SPECIFICATION MIL-W-63150
 NATIONAL STOCK NUMBER /
 DRUM, WINCAGE

ARMAMENT RESEARCH DEVELOPMENT & ENGINEERING CENTER
 DOVER, NEW JERSEY 07801-5001
 CAGE 19200
 REQUEST /PRON 811713

19 NOV 87

SHEET 3

SPECIFICATIONS AND STANDARDS

QPL	DOCUMENT NUMBER	REV AND INT SYM NO	DOCUMENT SEC CHG DATE	DOCUMENT TITLE	NOTE
Q	VV-L-800	C 1	09/15/86	LUBRICATING OIL, GEN PURPOSE PRESERVATIVE	*
	PPP-B-636	J 1	01/20/82	BOX, SHIPPING/FIREBOARD	*
	PPP-T-76	C	08/02/84	TAPE, PRESSURE-SENS ADH PAPER, WATER RES	*
	FED-STD-791	C	09/30/86	LUBRICANTS, LIQUID FUELS, REL PROD, MTHD OF TSTG	*
	MIL-F-116	H 1	04/11/85	METHOD OF PACK PRESERVATION	*
	MIL-F-117	E 1	07/15/75	BAG, SLEEVE & TUBING, INTERIOR PACKAGING	*
	MIL-P-3420	E 2	02/20/85	PACKAGING MATERIALS, VOLATILE CRSN INHIBITOR, TREATED	*
	MIL-E-10944	B 3	02/19/82	GAGES, DIMENSIONAL CONTROL	*
	MIL-K-13855	D 4	10/09/84	WEAPONS, SMALL ARMS AND AIRCRAFT ARMAMENT SYS, GEN SPEC	*
	MIL-F-14232	E 2	09/02/81	PARTS, EQUIPMENT AND TOOLS FOR ARMY MATERIAL, PKG OF	*
	DOD-P-16232	F	11/07/78	PHOSPHATE COATINGS, HEAVY, MANGANESE OR ZINC BASE	*
	MIL-P-16232		(REPLACED BY DOD-P-16232)		*
	MIL-K-63150	I 1	09/15/81	WEAPONS AND SPRT MATERIEL, STD GA PROV FOR	*
	MIL-STD-105	D 2	03/20/64	SMPLE PROCEDURES & TABLES FOR INSPECTION BY ATTRIBUTES	*
	MIL-STD-129	J 1	11/05/86	MARKING FOR SHIPMENT AND STORAGE	*
	MIL-STD-171	D 3	12/17/85	FINISHING OF METAL AND WOOD SURFACES	*
	MIL-STD-1189	A	09/04/84	STANDARD DEPARTMENT OF DEFENSE BAR CODE SYMBOLLOGY	*
	ANSI-B4-6.1		00/00/78	SURFACE TEXTURE	***
	ANSI-B4-7.1		00/00/81	GAGE BLANKS	***
	CS8		(REPLACED BY ANSI-B4-7.1)		*
	ANSI-Y14.5		00/00/73	DIMENSIONING AND TOLERANCING FOR ENGINEERING DRAWINGS	***
	ASTM-A108		00/00/81	STEEL BARS, CARBON, COLD FINISHED, STD QUAL, SPEC FOR	***
	ASTM-B310		00/00/83	SINTERED CARBON STEEL STRUCTURAL PARTS SPEC FOR	***
	ASTM-E3951		00/00/82	STANDARD PRACTICE FOR COMMERCIAL PACKAGING	***

* - NOT FURNISHED - TO BE OBTAINED FROM C.O. NAVAL PUBLICATIONS AND FORMS CTR.,
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 IMMEDIATELY ADVISE THE PURSUING CONTRACTING OFFICER.

Q - THE LETTER (Q) BEFORE THE SPECIFICATION NUMBER INDICATES THAT A QUALIFIED PRODUCTS
 LIST IS REQUIRED. THE NUMBER OF THE QPL IS THE SAME AS THE NUMBER OF THE SPECIFICATION.

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TECHNICAL DATA PACKAGE 8448535
DOCUMENT NUMBER D8448535
SPECIFICATION MIL-W-63150
NATIONAL STOCK NUMBER
DRUM, WINDAGE

U. S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
DOVER, NEW JERSEY 07801-5001
FSCM 19200

DATE 19 NOV 87
SHEET 4 OF 4

REQUEST/PRON 811713

3. ENGINEERING CHANGES AND ADDITIONS:

a. THE FOLLOWING ENGINEERING CHANGE PROPOSAL FORMS A PART OF THIS TECHNICAL DATA PACKAGE:

ECP NO	NO OF CARDS
G782043	1

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NOTE:

2. FINISH **63°**
 3. BREAK SHARP EDGES .003 MAX.
 4. MIL-W-13855 APPLIES
 5. HEAT TREAT: CARBURIZE
TOTAL CASE DEPTH, HARD
BE R15N 80-87.

1

5

14

7

MF	ZONE	LTR	REVISIONS		DATE	APPROVED
			DESCRIPTION	REV		
	H	NOR G4S3137	950105		950-26	HJS
	J	NOR G6S3132	960814		961003	HJS
	K	NOR GES3157	961125		970103	JB

6

1

918+002

•1060 DIA ± .001
•0015 DIA

.005 R MAX
2 PLACES

$$.02 \times 45^\circ \pm 2^\circ$$

— SEE VIEW A

£££

684

10

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CURRENT DESIGN ACTIVITY CASE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PILOT PLANT ARSENAL, NEW JERSEY 07806-9000

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	DEPT. OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201	
Ts MIN		ANGLES \pm 3 PLACE DECIMALS \pm				
YS MAX		2 PLACE DECIMALS \pm	.01	DATE 27 APR 1970		
		MATERIAL		PREPARED R.G.H. [initials]	A.Q.C.	
		SEE NOTE 1		CHECKED D.L.P. [initials]	2/27/70	
				ENGINEER C. L. [initials]		
				SUBMITTED T. P. [initials]		
				DRAWING NO. C 13204		
				SCALE 2		
				SHEET 1 OF 1		
				APPROVED C. J. [initials]		
				FINAL PROTECTIVE FINISH 5.3 - 1.2 OF MIL-STD-171		
		NEXT ASSY USED ON		APPLICATION		

ANSWER Form 403C, 29 Jul 69

NOTICE RESTRICTED AS TO USE AND DISCLOSURE		REVISIONS									
		DESCRIPTION		DRAWING		DATE		APPROVED			
		REDRAWN FROM COLT'S DRAWING		27 APR 70		15 JULY 70		F. J. Hayes			
		B61518 REVISION A		15 JULY 70		15 OCT 70		F. J. Hayes			
		A (1) SEE EO HRD 02197-3		15 JULY 70		15 OCT 70		F. J. Hayes			
		B (2) SEE EO HRD 02256		15 OCT 70		15 OCT 70		F. J. Hayes			
		C (4) SEE EO HQR 10619		20 FEB 71		20 FEB 71		F. J. Hayes			
		D (3) SEE ERR HQR 20778		6 OCT 72		6 OCT 72		F. J. Hayes			
		E NOR W9S2009 80-02-13		80-05-16		80-05-16		F. J. Hayes			
		F NORW250011 / 82-04-13 (ECFW2S0034 / 82-07-15) (ECFW3S3120 / 83-07-07)		83-11-04		83-11-04		F. J. Hayes			
		G NORW6SO109 / 86-11-07		870224		870224		F. J. Hayes			
		H NOR G9S3034 890616		891130		891130		F. J. Hayes			

NOTE:

1. WIRE, CORROSION RESISTING, TYPE 631, COLD DRAWN, PER ASTM A313, OR STEEL, CORROSION RESISTING, COMPSN 302, CONDTN B, SPEC. MIL-S-7720, EXCEPT % ELONGATION AND % REDUCTION OF AREA IN TABLE II SHALL NOT APPLY.
2. DIRECTION OF HELIX - LEFT HAND.
3. TOTAL COILS 29 3/4.
4. PRECIPITATION HEAT TREAT TYPE 631 MATERIAL AFTER FORMING, HOLD AT 900°F ± 10° FOR ONE HOUR.
5. SPRING SHALL BE FREE FROM BURRS, NICKS, SNAGS AND OTHER INJURIOUS DEFECTS.
6. MIL-W-13855 APPLIES.
7. BREAK SHARP EDGES .003 ± .012.

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CONTRACT NO: 27 APR 1970

PREP: *F. J. Hayes*

CHK: *F. J. Hayes*

ENGR: *J. J. Murphy*

SUBMITTED: *F. J. Hayes*

APPROVED: *C. J. Henry*

SPRING, COVER

CURRENT DESIGN ACTIVITY CAGE CODE 19200

ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER

DEPT. OF THE ARMY

U.S. ARMY WEAPONS COMMAND

ROCK ISLAND, ILLINOIS, 61201

SIZE CODE IDENT NO

DRAWING NO

B 19204 8448532

SCALE 5/1

SHEET 1 OF 1

RNI

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ANSWER Form 403B, 29 Jul 69

1

2

3

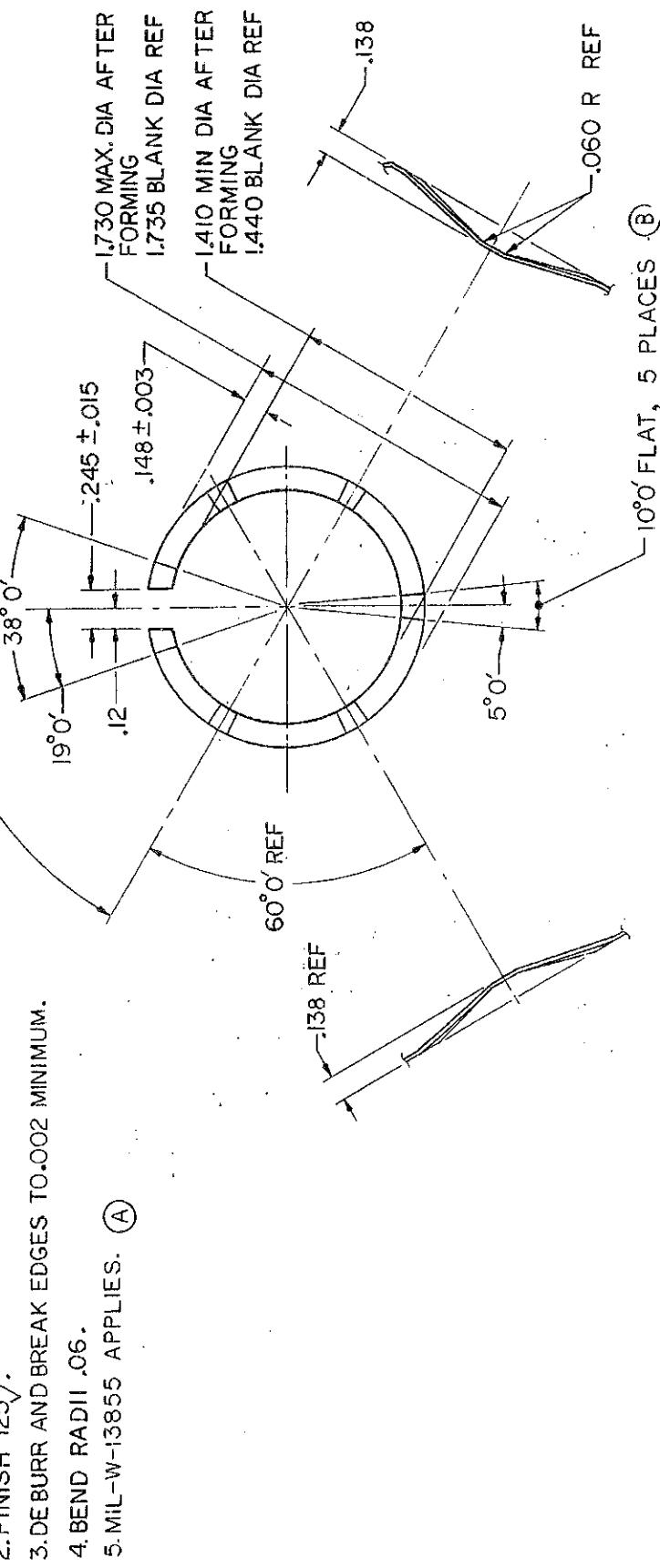
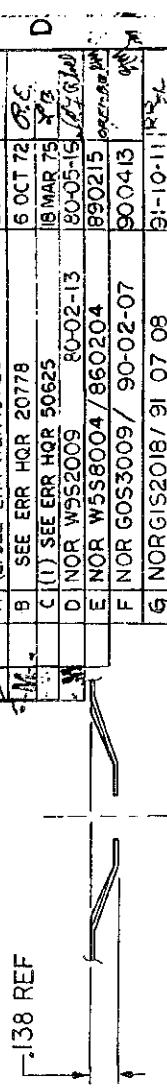
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NOTE:

1. STEEL, STRIP ANNEALED. MATERIAL ASTM A684, 1075 COLD ROLLED
THICKNESS .020±.001. (A) (C)
2. FINISH 125/.
3. DE BURR AND BREAK EDGES TO .002 MINIMUM.
4. BEND RADII .06.
5. MIL-W-13855 APPLIES. (A)



REVISONS		DESCRIPTION		DATE	APPROV'D
MF	ZONE LTR	DRAWINGS	FROM COLTS		
		REDRAWN FROM COLTS DRAWINGS D61956 REV A		27 APR 70	X B
	A	(2) SEE ERR HQR 10726		26 MAY 71	X B
	B	SEE ERR HQR 20778		6 OCT 72	C E
	C (1)	SEE ERR HQR 50625		18 MAR 75	X B
	D NOR	W5S2009	80-02-13	80-05-15	C E (2) (3) (4)
	E NOR	W5S8004 / 860204	890215	890215	GREENBERG
	F NOR	GOS3009 / 90-02-07	900413	900413	GREENBERG
	G NOR	GIS2018 / 91 07 08	91-0-11	91-0-11	GREENBERG

ARMAMENT RESEARCH DEVELOPMENT AND ENGINEERING CENTER
PROJECT NUMBER: 079065000
CURRENT DESIGN ACTIVITY CODE 19200
CDI 14,2004 1227M

C 8449556

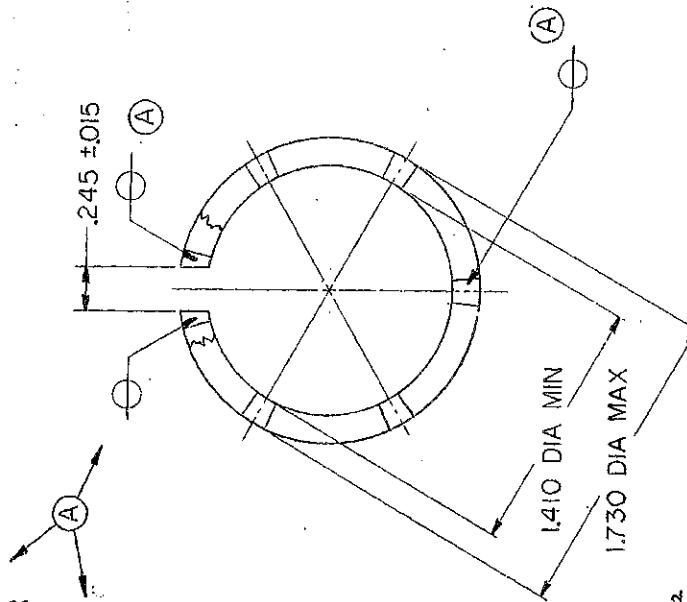
A

DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS 61201	CONTRACT NO.
SPRING SECTION,	
HAND GUARD SLIP RING	
SHEET NO. C 19204	DRAWING NO. 8448556
SCALE 21	CDI
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ± 0°30' 3 PLACE DECIMALS ±.005 2 PLACE DECIMALS ±.01	
MECHANICAL PROPERTIES	MATERIAL
YS MIN	
MAX	
EL.2	C8448555 M4
RA	C8448555 M23
BH	SEE NOTE 1
RH	NEXT ASSY USED ON FINAL PROTECTIVE FINISH APPLICATION
PREPARED BY: P.A.B. A.T.A. CHECKED BY: J.W.G. S.G. ENGINEER BY: J.W.G. S.G. SUBMITTED BY: F.P. Gibbons APPROVED BY: F.P. Gibbons F.P. Gibbons K.L. Kersey	

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NOTES:

1. FINISH 5.3.1.2 OR 5.3.2.2 OF MIL-STD-171, EXCEPT: CLEAN IN ACCORDANCE WITH METHOD II, SPEC TT-C-490. ABRASIVE BLASTING SHALL NOT BE USED.
2. SPOT WELDS MUST HOLD AFTER COMPRESSION TO .215 HEIGHT ON SPRING TESTER.
3. MIL-W-13855 APPLIES.

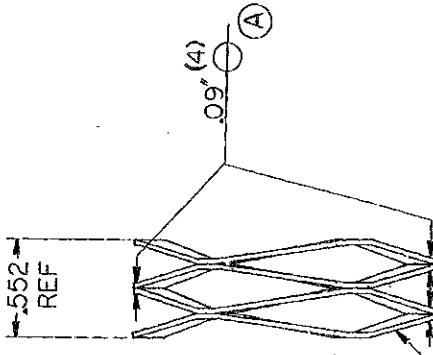


SEE: PL-8448555

DISTRIBUTION STATEMENT E: FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASQNC-A OR HIGHER DOD AUTHORITY 92-06-22

REVISIONS

REV	ZONE LTR	DESCRIPTION	DATE	APPROVED
M		REDRAWN FROM COLT'S DRAWING CG1562 REV A	21 APR 70	
A		(A) SEE EPR-HQR 20778	10 DEC 72	C
B	NOR	W9S2009 80-02-13	80005-15	C
C	NOR	W5SB004 / 860204	860215	C
D	NOR	G1S2018 91-07-08	91-10-11	E
E	NOR	G2S3059 920716	92-08-11	AJL
		(ECP) G2S3060 920630)		



4 - SPRING SECTION,
HAND GUARD SLIP RING -
8448556

CURRENT DESIGN ACTIVITY CAGE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER
PIATTIANY ARSENAL, NEW JERSEY 07806-5000

DEPT OF THE ARMY
U.S. ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS 61201

SPRING WELD ASSEMBLY,
HAND GUARD SLIP RING

SIZE CODE IDENT NO. DRAWING NO.
C 19204 8448555

SHEET 1 OF 1

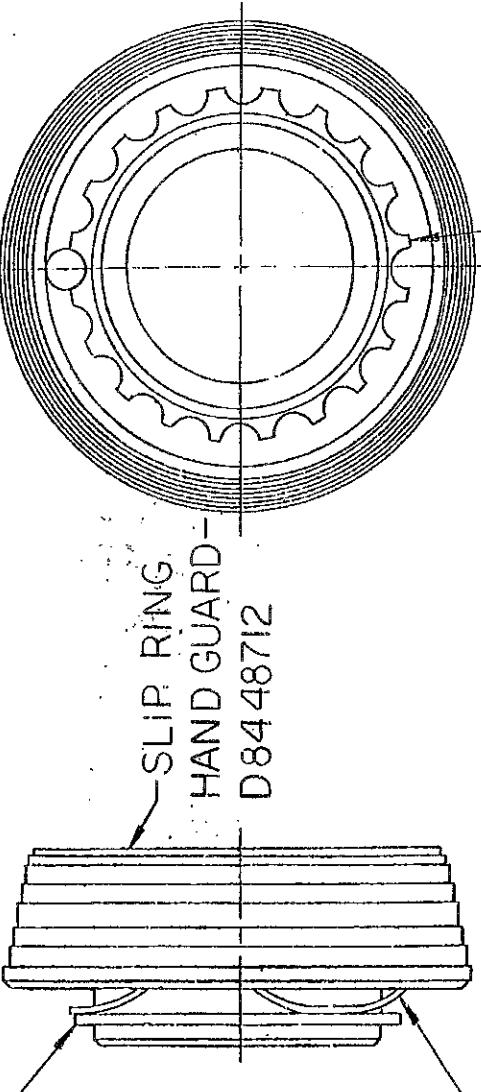
CDI

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES $\frac{1}{2}$ 3 PLACE DECIMALS $\frac{1}{2}$ 2 PLACE DECIMALS $\frac{1}{2}$	CONTRACT NO.:
TS MIN		DATE 27 APRIL 1970
TS MAX		PREPARED EC
EL 2		CHECKED
RA		ENGINEER
BH	8448711 M4	SUBMITTED
RH	8448711 M23	F P Shockey
RH	15N M6, M16A2	APPROVED
RH	82.5-84.5	J. Schleifer
	NEXT ASSY USED ON	SEE NOTE 1
	APPLICATION	

MF	ZONE	LTP	REVISIONS		APPROVED
			DESCRIPTION	DATE	
			REDRAWN FROM COLT'S DRAWING C 62482 REV A	27 APR 70	
			A SEE HQR 10777	18 JUN 71	HQR
			B NORW2S2013	820514	10 MAY 74
			C NOR W5S8004 / 860204	890215	02 JUN 78
			D NOR GOS3010 / 90-02-28	-	30 JUN 06
			E NOR GIS2018 91-07-08	-	27 JUN 11

Quando o Brasil adotou a moeda real, em 1822, o governo decidiu que o valor da moeda seria determinado pelo valor de ouro que ela continha. Isso significa que a moeda era bimetalica, com ouro e prata. No entanto, a moeda não continha tanto ouro quanto o governo havia declarado. Isso criou uma inflação descontrolada, que levou ao colapso do sistema monetário brasileiro.

RING, RETAINING-MSI6626-3137

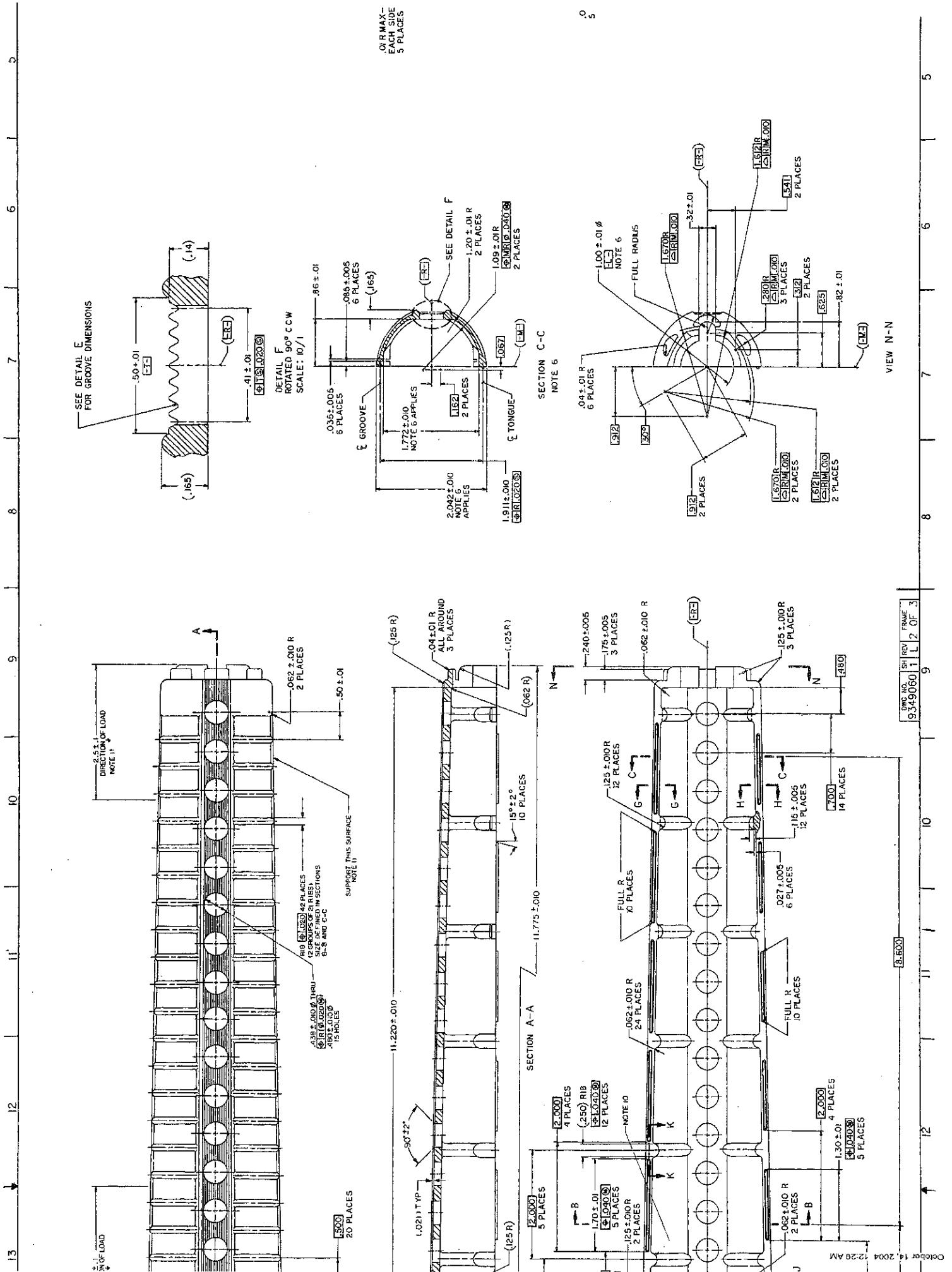


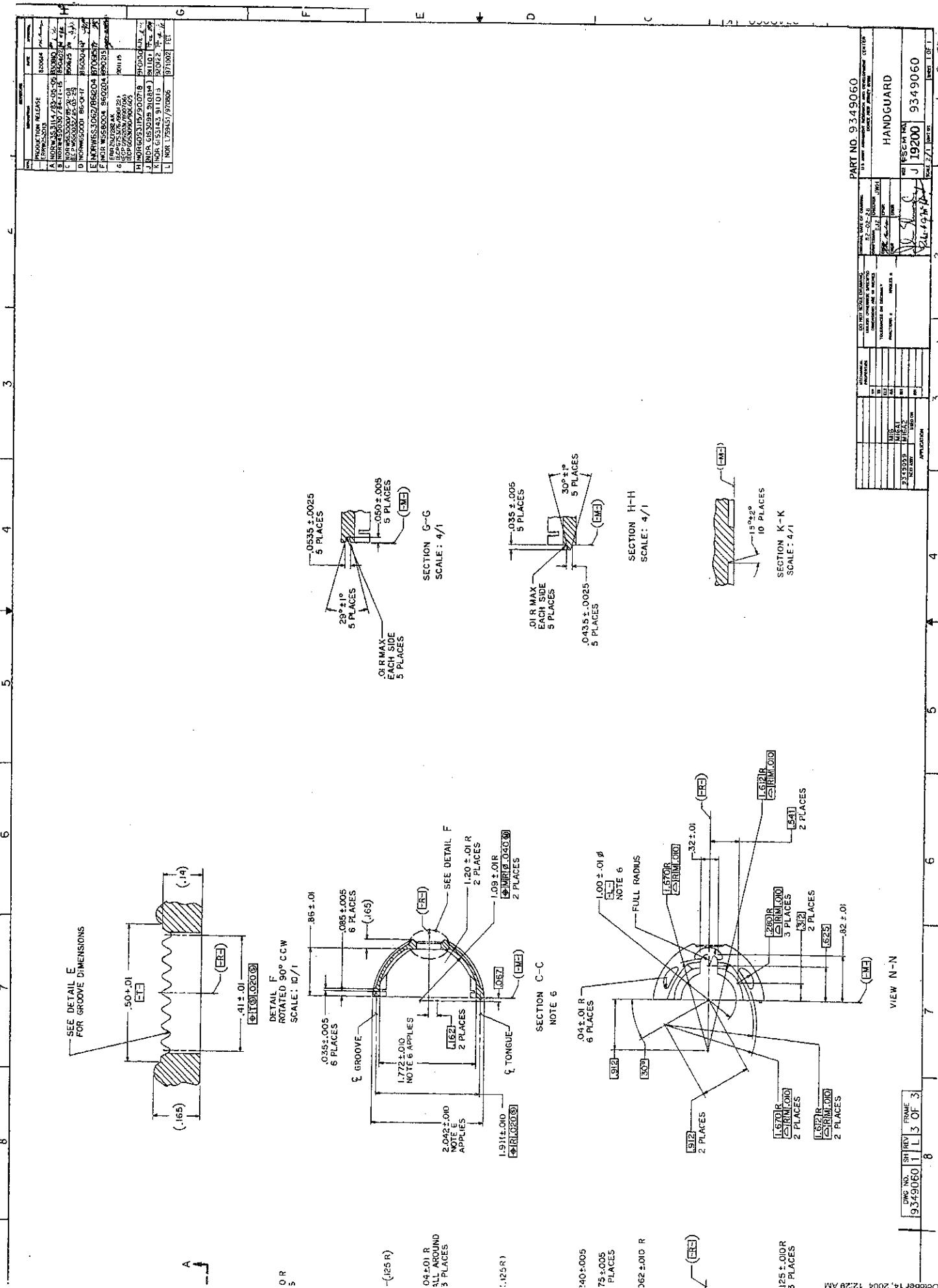
— SPRING WELDASSY, HAND GUARD
SLIP RING-C8448555
SEE SEPARATE PARTS LIST-8448553

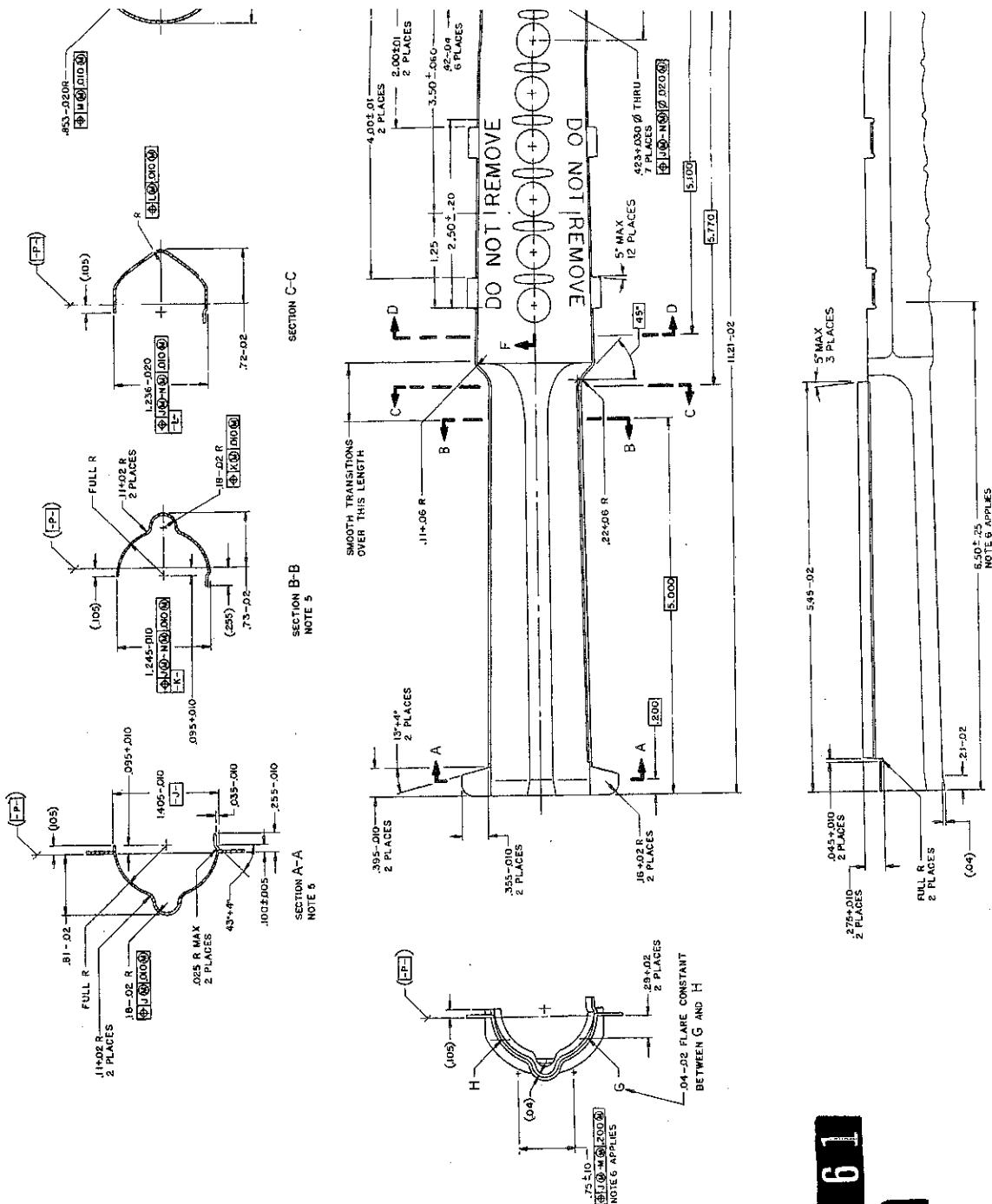
MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO.
		TOLERANCES:	DATE 27 APR 1970
Y.S. MIN	9390001	M4	PREP. BY A. S. A.
F9327230	M231	ANGLES: 3 PLACE DECIMALS +	CHK. BY C. J. B.
Y.S. MAX	F8448601	M16	ENTER BY C. J. B.
F8448522	MIGA1	2 PLACE DECIMALS +	SUBMITTED BY C. J. B.
D9349050	MIGA2	MATERIAL:	
BH	NEXT ASSY	USED ON	FINAL PROTECTIVE FINISH
RH			APPLICATION
		APPROVED	<i>C. J. Heney</i>
		SIZE	CODE IDENT. NO. DRAWING NO.
		8	9204 8448711
		SCALE	OF SHEET
		2	1

ANSWER Form 403B, 29 Jul 69

CDI
DUPLICATE ORIGINAL



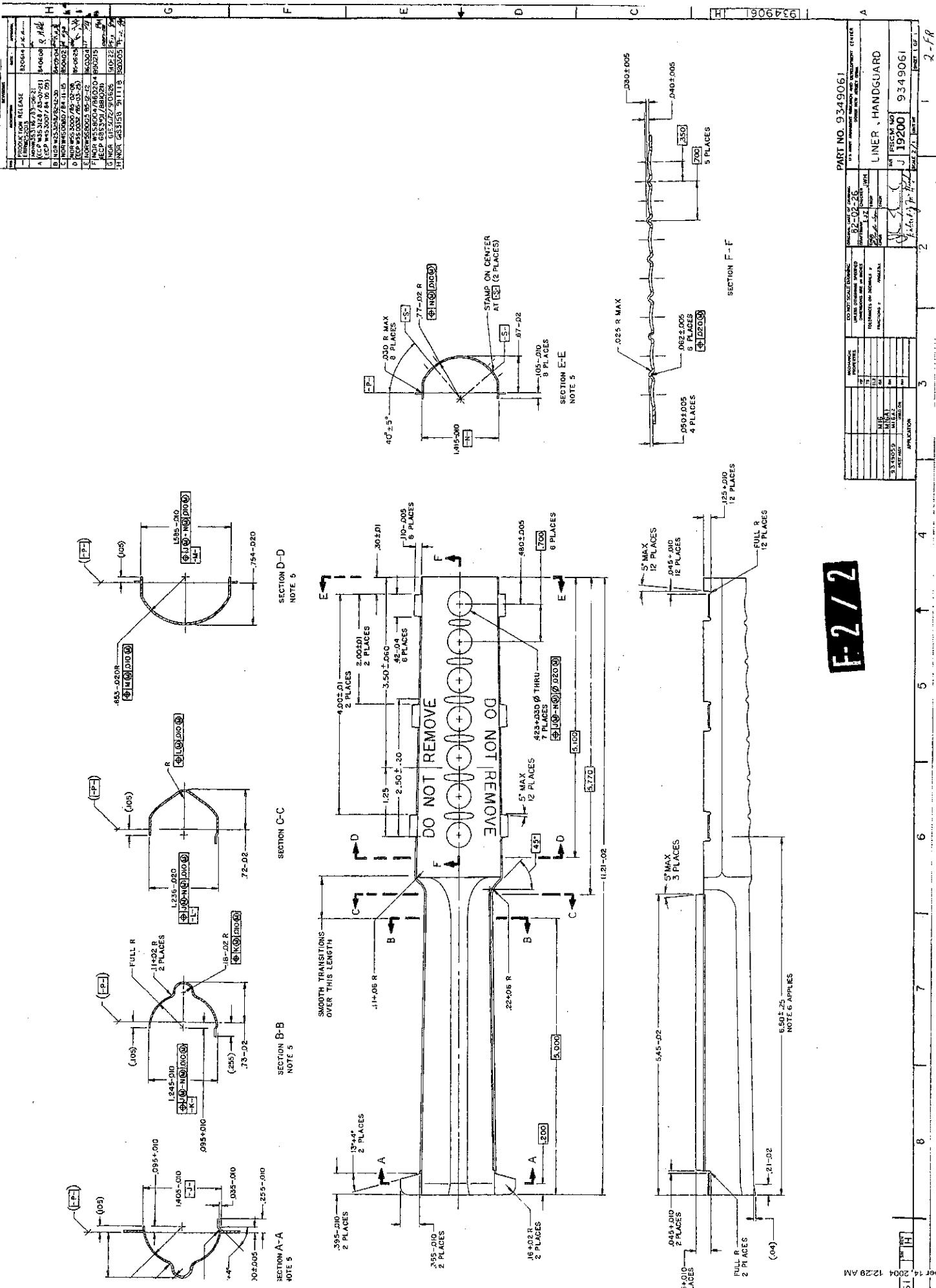




J 9349061

REV

F-1 / 2



October 14, 2004 12:28 AM

DRAWING SIZE D
ARRACK 48-70-24 8
NOTE: INSTRUMENTS 48 TO 70 AND 100-100

NOTES: —
1 - SPEC. MIL-W-13855 AND ANSI Y14.5 - 73 APPLY.
2 - APPLY UNIFORM COATING OF ADHESIVE P/N 1202054 TO
SLOTS BETWEEN HANDGUARD - 9349060 AND LINER,
HANDGUARD - 9349061, 8 PLACES TOTAL.

REVISIONS	DESCRIPTION	DATE	APPROVED
STN	PRODUCTION RELEASE ERW-FEB2013	820614	initial sign
A	NOR#450030-84-11-15	850402	initial sign
B	IND#M580005-62-12-12	8650304	initial sign
C	NOR#F55004-95020405	8650215	initial sign
D	NOR#F55004-95020406	8650215	initial sign

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ADHESIVE - 3 PLACES, TYPICAL
BOTH SIDES, SEE NOTE 2

— LINER, HANDGUARD — 9349061

A diagram of a rectangular battery pack. On the right side, there are two circular terminals: a top one labeled '+' and a bottom one labeled '-'. Along the right edge, the text 'DO NOT REMOVE' is repeated twice. The left side shows internal components and a metal frame.

FOR ENGINEERING PARTS LIST SEE PL 9349059

		MECHANICAL PROPERTIES			DO NOT SCALE DRAWING UNITS UNLESS SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES & UNITS OF DIMENSIONS ARE FRACTIONS IN INCHES OR ANGLES IN DEGREES			APPLICATION	
		TP	TT	ELD	VA	IN	IN	IN	IN
12012000	MIGA43								
84145601	MIG								
94145522	MIGA1								
93145500	MIGA2								
NET ASST.		INCH	INCH	INCH	INCH	IN	IN	IN	IN

REVISIONS				DATE APPROVED
MF	ZONE	LTR	DESCRIPTION	
		M	REDRAWN FROM COLT'S DRAWING	27 APR 70
			C61705 REVISION C	
			A (1) SEE EO HRD 02197-3	15 JUL 70
			B (4) SEE ERR HQR 20827	14 DEC 72
			C NOR W952009 80-02-13	8005-15
			D NOR W950059 / 83-11-04	84-02-02
			E NOR W950084/86-07-24	87-05-18
			F NOR GIS2018/910708	911011 RPSL

B84448573

NOTES:

1. FINISH 125° EXCEPT AS NOTED.
2. FINISH 5.3.1.2 OF MIL-STD-171.
3. BREAK SHARP EDGES .005+.010.
4. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS SPECIFIED.
5. MIL-W-13855 APPLIES.

SECTION C-C

CURRENT DESIGN ACTIVITY FSCM NO.19200

US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

DEPARTMENT: WEAPONS/COMBAT
ROTOR-STEADY/TECHNICAL: 62102

DETENT,
FRONT SIGHT

SIZE	CODE IDENT NO.	DRAWING NO.
B	19204	8448573
SHEET 1 OR 1		

SEE NOTE 2

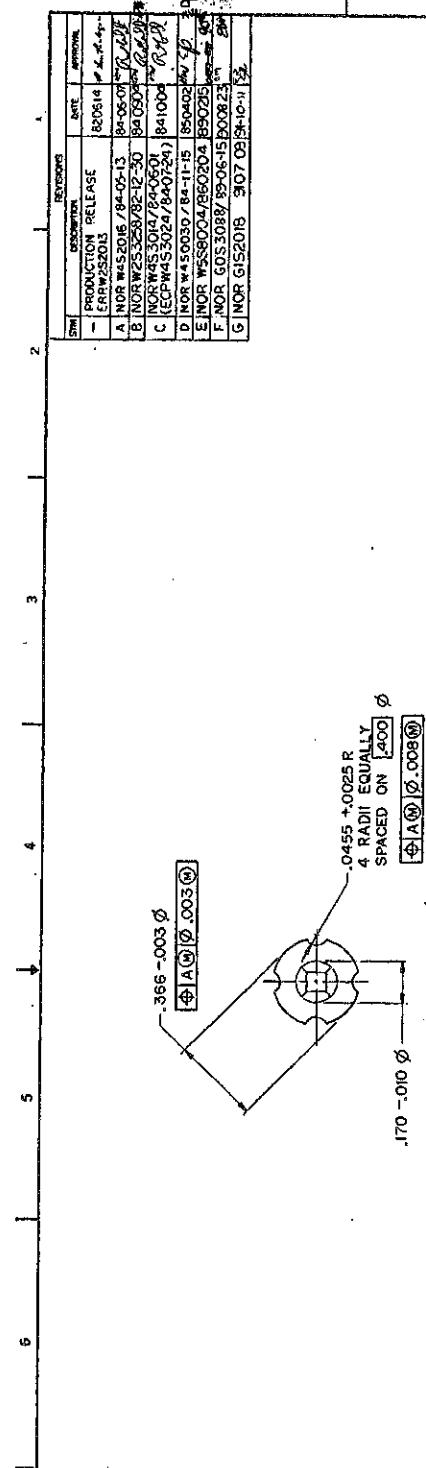
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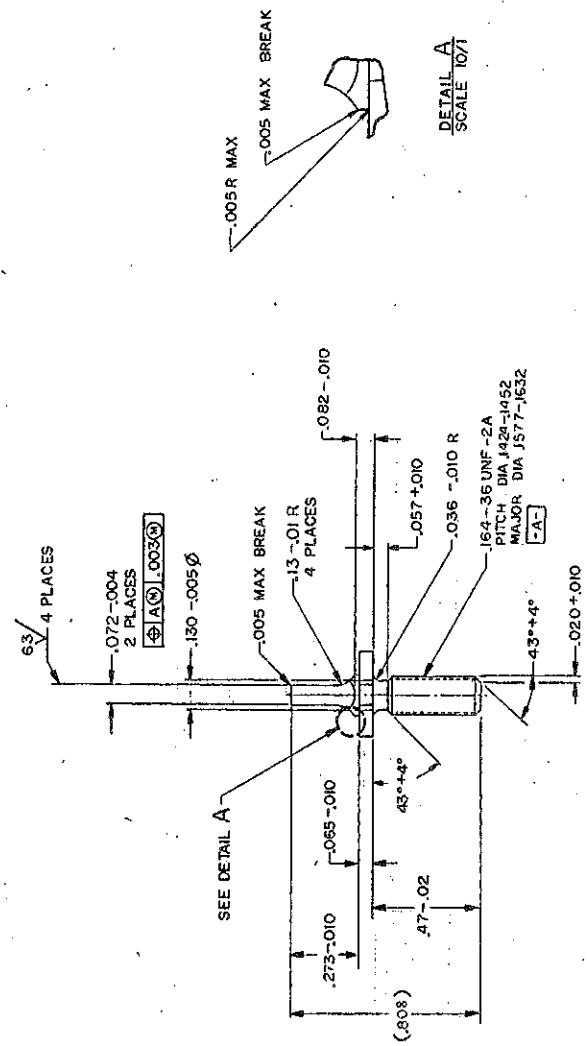
DISTRIBUTION STATEMENT E: FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASQNC-AR OR HIGHER DOD AUTHORITY; 92-06-22.

CDI

NOTES: -
 1-SPEC MIL-W-13855 AND ANSI Y14.5-73
 APPL.
 2-MATERIAL--STEEL. COLD DRAWN BAR
 CMFSN H17 THRU H44 SPEC ASTM-A102.
 3-ALTERNATE MATERIALS STEEL AND ALUMINUM
 DIMENSIONS ARE BEFORE PROTECTIVE
 FINISH.
 4-BREAK SHARP EDGES .005+.010 EXCEPT AS
 NOTED.
 5-FILLET RADIUS .015-.012
 6-FINISH $\frac{125}{V}$ ALL OVER
 7-PROTECTIVE FINISH--5.3.1.2 OF MIL-STD-171.



SEE DETAIL A



REFERENCE NUMBER		DESCRIPTION		DATE	APPROVED
		- PRODUCTION RELEASE		800516	
A	NOR WSS016	80-05-13	80-05-13		
B	NOR WSS2528	80-12-30	80-05-20		
C	(ECPMWASS024/84-0724)	84-10-04	84-04-22		
D	NOR WSS020	84-11-15	84-04-22		
E	NOR WSS004/850204	85-02-25	85-02-25		
F	NOR GOS3088	89-06-15	90-08-23		
G	NOR G152018	91070919-11			

PART NO. 9349056		ORIGINAL DATE OF DRAWING	U.S. ARMY RESEARCH AND DEVELOPMENT CENTER
		82-05-09	DRAWN BY M/W CHECKED JWH
		TYPE: A-1000	SCALE: 1/4
		FUNCTION: A. POST	APPROVED:
		NO. 1	DATE: 10/10/82
		REVISION: D	ECFM NO. D 19200
		APPLICABILITY:	SCALE: 1/4

B844851

NOTE:

1. STEEL, CORROSION-RESISTANT, PER AMS 5906 OR 5913, THICKNESS .016±.001.
2. FINISH 125° EXCEPT AS NOTED IN NOTE 4.
3. EDGES TO BE SHARP TO .005 R MAX.
4. MAX DIE BREAK ON -B- TO BE 50% FINISH ON SHEARED SURFACE TO BE 63°.
5. FINISH 5.4.1 OF MIL-STD-171.
6. MIL-W-13855 APPLIES.

SECTION C-C
SCALE 10/1 TYPICAL

DISTRIBUTION STATEMENT F.
FURTHER DISTRIBUTION ONLY AS
DIRECTED BY ARDEC, AMSTA-AR-CCL-A
950610

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	
YS	MIN	ANGLES :	TOLENCES :	DATE	PREP
YS	8448509	M 4	3 PLACE DECIMALS ± .01	27 APR 1970	Q. Q. S. P.
MAX	C9327073	M 231	2 PLACE DECIMALS ± .01		CHK
EL2		M 16			ENGR
RA		C8448509			SUBMITTED
BH		M 16A1			APPROVED
RH		NEXT ASSY USED ON	SEE NOTE 1		
		APPLICATION	SEE NOTE 5		

CODE IDENT NO.
19200

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

DEPT. OF THE ARMY WEAPONS COMMAND
ROCK ISLAND, ILLINOIS, 61201

RING, BOLT
SIZE **CODE IDENT NO.** **DRAWING NO.**
B **19204** **844851**

SCALE 5/1 **SHEET 1 OF 1**

ANSWER Form 403B, 29 Jul 69

AMSW Form 403B, 29 Jul 69

1

2

3

4

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NOTE:
1. FINISH 125° EXCEPT AS
NOTED.

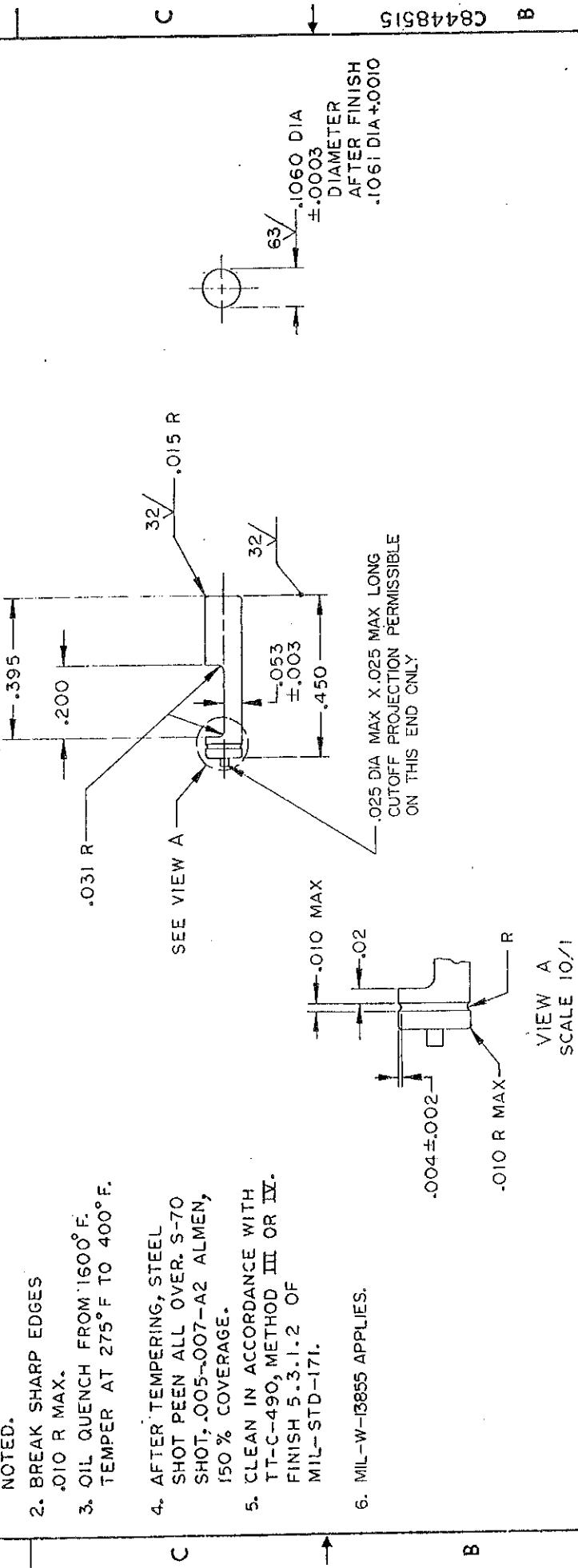
2. BREAK SHARP EDGES
.010 R MAX.

3. OIL QUENCH FROM 1600°F.
TEMPER AT 275°F TO 400°F.

4. AFTER TEMPERING, STEEL
SHOT PEEN ALL OVER. S-70
SHOT, .005-.007-A2 ALMEN,
150 % COVERAGE.

5. CLEAN IN ACCORDANCE WITH
T-T-C-490, METHOD III OR IV.
FINISH 5.3.1.2 OF
MIL-STD-171.

6. MIL-W-13855 APPLIES.



REVISIONS		DATE APPROVED
M	ZONE LTR	REDRAWN FROM COLTS DRAWING
L		27 APR 70
		C61564 REVISION B
A	(1) SEE EO HRD 02255	15 OCT 70
B	(2) SEE ERR HQR 2077B	6 OCT 72
C	NOR W952009	80-02-13
D	ERR 29225W	80-05-16
E	ECR G952036/890721	900403
F	NOR G152018 91-07-08	91-10-11 R82
		920427 7 sc08

CURRENT DESIGN ACTIVITY CAGE CODE 19200
ARMAMENT RESEARCH, DEVELOPMENT, AND ENGINEERING CENTER
ARSENAL, PICTAINNY, NEW JERSEY 07806-5000

ROCK ISLAND ARSENAL,

ROCK ISLAND, ILL 61201

A
EJECTOR

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES ANGLES ° ± .005 2 PLACE DECIMALS ± .01	CONTRACT NO:
YS		DATE: 27 APR 1970
MIN		PREPARED: RGA
MAX		CHECKED: HL
EL2		ENGINEER: D.S.
RA		SUBMITTED: D.B.
8H	8448509 M4	F. P. FILLINEY
	09327073 M231	
8H	C8448509 M16	ASTM -A68
IN 88.5	NEXT ASSY USED ON	FINAL PROTECTIVE FINISH
RH -90.5		SEE NOTE 5
	APPLICATION	RS. HENRY

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SMC/ARDEC ROCK ISLAND, IL OR HIGHER DOD AUTHORITY
ASQNC-ARDEC 92010.

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NOTES:
1 WIRE, STAINLESS STEEL, TYPE 631,
(17-7PH), COLD DRAWN, ASTM A313.

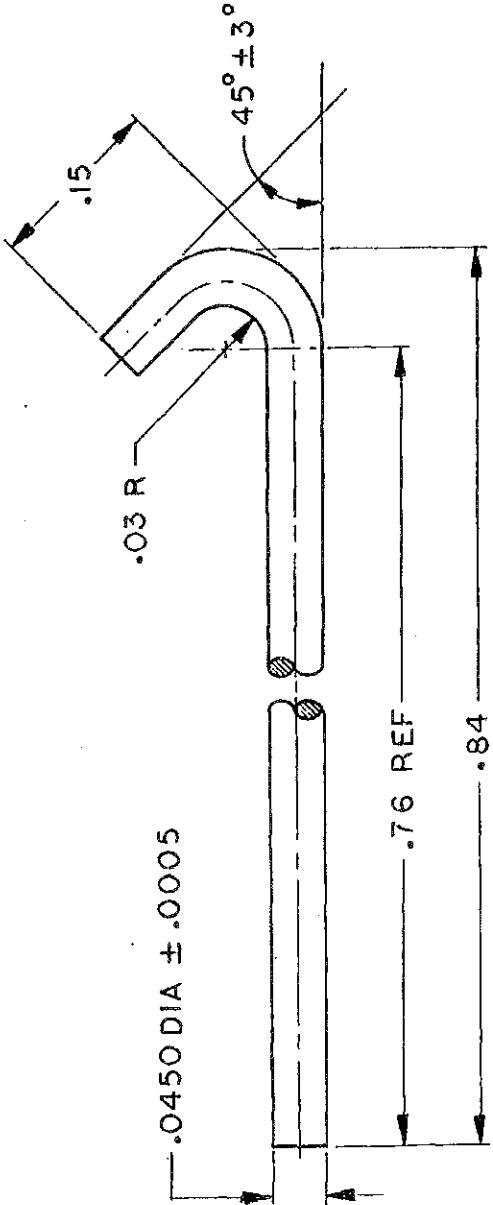
2. PRECIPITATION HEAT TREAT AFTER FORMING HOLD AT 900°F ± 10 FOR 1 HOUR. AIR COOL.
 3. FINISH 5.4.1 OF MIL-STD-171.
 4. MIL-W-13855 APPLIES.

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-76 REF-

CURRENT DESIGN ACTIVITY
ESCM NO. 19200

REVISIONS		DESCRIPTION	DATE APPROVED
REV.	ZONE LTR	REDRAWN FROM COLT'S DRAWING	
		C61820 REVISION A	27 APR 70
		A (1) SEE EO HRD 02197-3	15 JUL 70 <i>copy</i>
		B (2) SEE ERR HQR 20778	6 OCT 72 ORC
		C NORW2S2015	83-02-03 <i>copy</i>
		D NORW2S0026	83-09-22 <i>copy</i>
		E NOR G1S2018	91-10-11 <i>copy</i>



DOVER, NEW JERSEY 07801

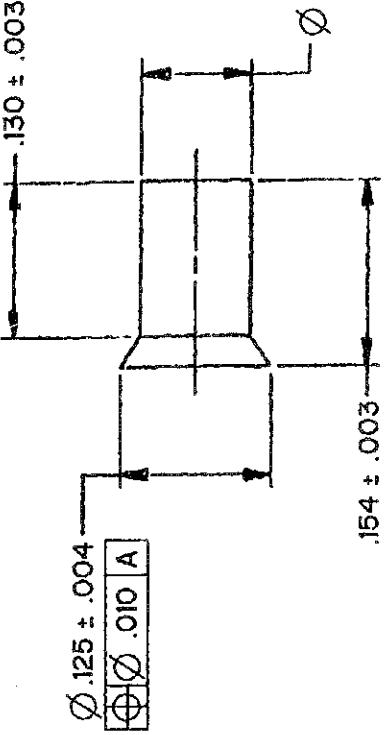
DEPT OF THE ARMY
ARMY WEAPONS COMMAND
K ISLAND, ILLINOIS, 61201

REAINER,
HAMMER PIN

NOTES:-

- 1- MATERIAL: CLASS 1, BUNA-N, SHORE HARDNESS 80 ± 5 DUROMETER PER MIL-R-6855, EXCEPT LOW-TEMP. TEST PER PARA 4.6.4 OF MIL-R-6855 SHALL UTILIZE MIL-L-46000 OR MIL-L-63460 LUBRICATE IN LIEU OF TEST FLUIDS TYPE I AND III PER TT-S-735. MUST ALSO MEET OZONE REQUIREMENT OF CLASS 2, TYPE A.
- 2- ALL CORNERS AND FILLETS TO BE .005 R MAX.
- 3- MIL-W-13855 APPLIES.
- 4- COLOR SHALL BE APPROXIMATELY WHITE, NO. 37722 TO 37925 OF FED-STD-595.

REVISIONS			
ZONE	-2	DESCRIPTION	DATE YR MO DAY APPROVED
		PRODUCT BASELINE - ERR G55308I (ECP G553101 950915)	951211 HJS <i>DSS</i>
A		NOR G6S3117 / 960719 (ECP G6S3011 / 960227)	961204 FET
B		NOR L8S3046/990524	990712 FET
C		NOR L9S3041 000113	000214 RLV



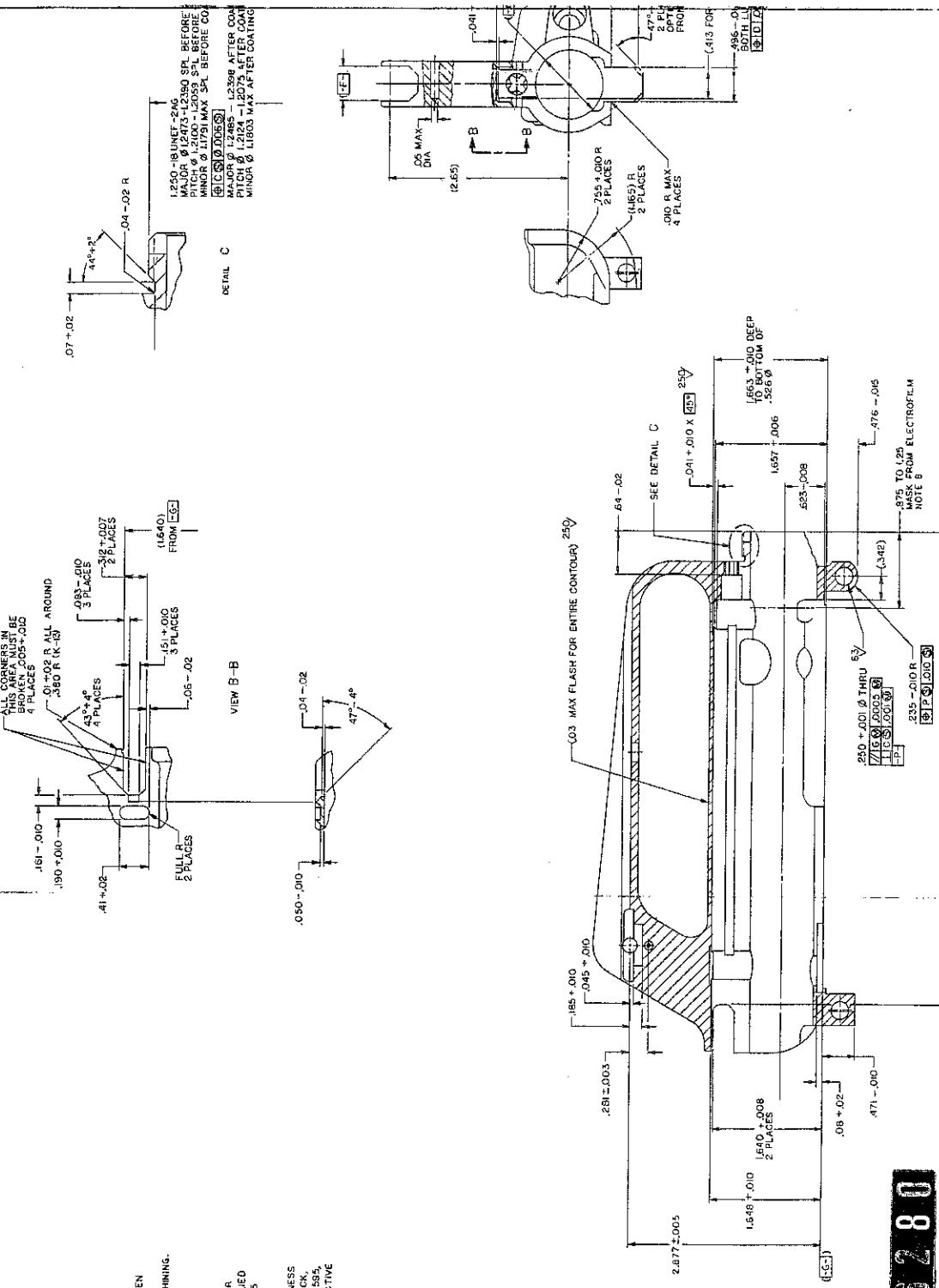
DISTRIBUTION STATEMENT A,
APPROVED FOR PUBLIC RELEASE;
DISTRIBUTION IS UNLIMITED.

CONTRACT NUMBER		DRAWN BY HJS DA-EIYR-YO-DAY		DRAFTING APPROVAL		DESIGN APPROVAL	
DESIGN ACTIVTY U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER		CHECKER HJS 951211		ENGINEER		DESIGNER	
CONTRACTOR							
MIC		DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMAL FRACTION					
MECHANICAL PROPERTIES		2 \pm L \pm 3 \pm L \pm					
YD	TS	THIRD ANGLE PROJECTION					
S2							
RA							
SH	12972692	M4					
RH		NEXT ASSY USED ON MATL ENGR					
		APPLICATION					
PART NO. 12972693							
SIZE B 19200							
SCALE 10/1							
UNIT W.							
SHEET 1							

THE STATE OF MARYLAND, A. D. 1776.

NOTES:

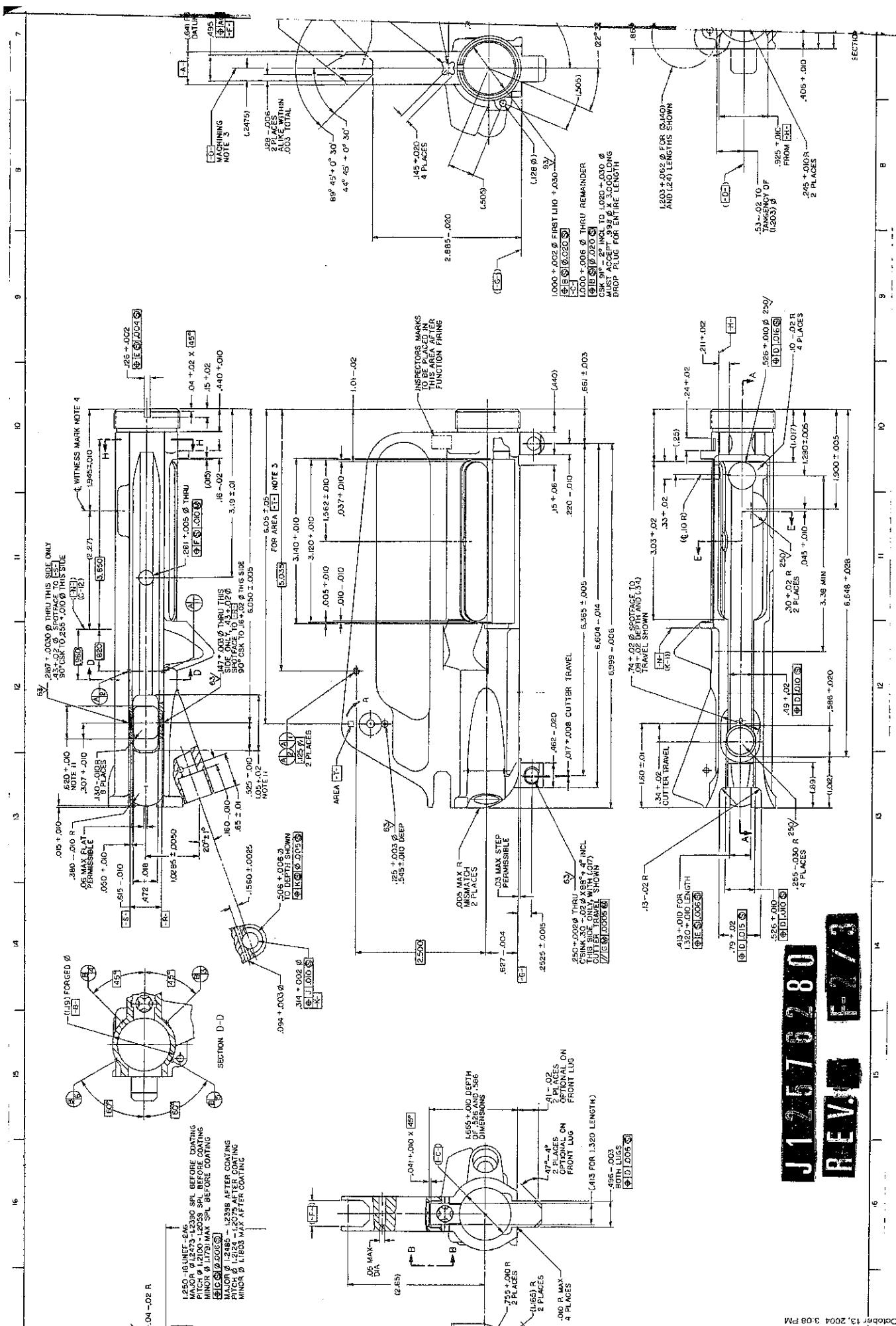
- 1 - SPEC. MIL-W-1985 AND ANSI Y14.5M-73. APPL.
- 2 - MATERIAL-MARK FROM FORGING, UPPER RECEIVER-[125]6279.
- 3 - CENTER LINE [E]-(H7) AND [E]-(I7) ARE ESTABLISHED WHEN LOCATING ON 9'-0" STAND [E]-[E] AT AREA [E]-[E] (G-12).
- 4 - WITNESS MARK H-10 TO DETERMINE STARTING POINT FOR MACHINING.
- 5 - ALL DIMENSIONS APPLY BEFORE PROTECTIVE FILM UNLESS OTHERWISE NOTED.
- 6 - BEAR SHARP EDGES .005-.010 UNLESS OTHERWISE NOTED.
- 7 - FUEL RADIATOR DIS -012 UNLESS OTHERWISE NOTED.
- 8 - EVERLAST E25 OR E25 CURED CURING 1275°F ± 25°F FOR HOUR OR ML 1-4600 CURED 300°F TO 325°F FOR 2 HOURS, TO BE APPLIED AFTER PROTECTIVE FINISH TO INTERIOR EXCEPT FOR .875 TO 1.25 INCHES G-19. FILM THICKNESS .0002+.0001.
- 9 - FINISH 120° ALL MACHINED SURFACES EXCEPT AS NOTED.
- 10 - PROTECTIVE FINISH-MIL-A-4245A TYPE III CLASS 2 FILM THICKNESS .002-.0002, FINISH SHALL BE LUSTERLESS (FLAT), APPROX BLACK, NO.37035, BUT NOT LIGHTER THAN GRAY NO. 36075, OF FED STD-S55, AND SEAT, GROUT BLAST PRIOR TO FINISH TO PROVIDE NON REFLECTIVE MATTE SURFACE AFTER FINISH.
- 11 - LATERAL MISMATCH PERMISSIBLE BETWEEN .625 & 1.06 CUTS. THESE CUTS MUST NOT INTERFERE WITH SLOT [E].



J 1 2 5 7 8 2 8 0

10

SECTION A - 4



October 13, 2004 3:08 PM

1

126 + .002

$$= .440 + .010$$

101 - 22

- INSPECTORS MARKS
TO BE PLACED IN
THIS AREA AFTER
FUNCTION FIRING

Circuit diagram for the 4-bit adder section:

- Inputs: B₃ + .012, B₂, B₁, B₀; C₃ + .012, C₂, C₁, C₀.
- Outputs: Sum A (A₃ + .016C, A₂, A₁, A₀) and Carry H.
- Annotations: .211 + .012 is connected to the B₃ input; .526 + .010C is connected to the C₃ input; .10 - .024 is connected to the H output.

October 13, 2004 3:08 PM

SECTION H-H

(.025)
E-E
mm

BREAK EDGE
.010 +.010

$69^\circ 45' + 0^\circ 30'$
 $44^\circ 45' + 0^\circ 30'$

DIS R. MAX
4 PLACES
04270000
4 PLACES EACH
RANDOM OR
MUST NOT IN
[REDACTED]
1020
145-0020
4 PLACES

.86+.02 SEE DETAIL G
1.03-.062 Ø FOR 3(40)
AND 1(4) LENGTHS SHOWN

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SCALE : 4/1

F-3

PART NO. 12576280		DESCRIPTION: 100-1000 TUBE SUPPORT TUBE SUPPORTS FOR 100-1000 TUBES TUBES ARE TO BE PLACED IN SLOTS TUBE SUPPORTS ARE TO BE PLACED ON FRONTRAM OR FRONTRAM II	
		RECEIVER, UPPER	
MANUFACTURER	100-1000 TUBE SUPPORT	ITEM NO.	12576280
TYPE	100-1000 TUBE SUPPORT	QUANTITY	1
SIZE	100-1000 TUBES	WEIGHT	1.5 LBS.
FRONT RAIL	FRONTRAM OR FRONTRAM II	PACKAGING	PLASTIC BAG
DATE ISSUED	JULY 1970	CODE DATE REC'D	12576280
ISSUED BY	MURRAY	INITIALS	
APPROVED BY	MURRAY	INITIALS	
REMOVED BY		INITIALS	
REMOVED DATE		INITIALS	

NOTICE: RESTRICTED AS TO USE AND DISCLOSURE

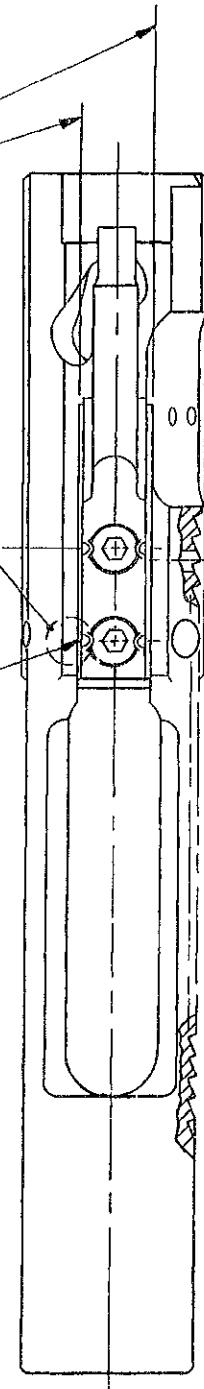
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- STAKE 4 PLACES - STAKE EACH SCREW
 (2) PLACES SIMULTANEOUSLY, STAKES TO BE $180^\circ \pm 5^\circ$ OPPOSED. DEPTH TO BE SUFFICIENT TO GIVE A REMOVAL TORQUE OF 55 TO 100 IN. LB.

NO DISTORTION PERMISSIBLE
 ON THESE SURFACES

.01, 4 PLACES

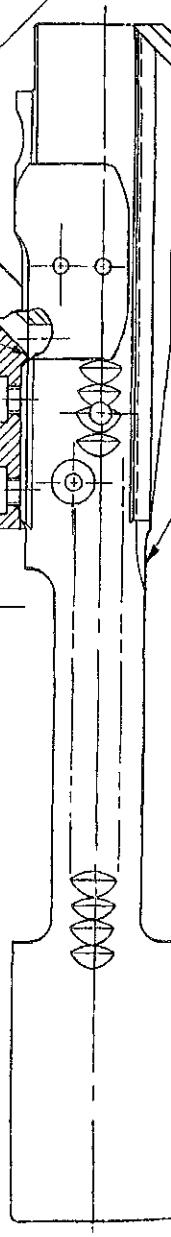
SEE VIEW B



APPLY PERMATEX NO. 3D
 AVIATION FORM-A-GASKET
 (LIQUID) AROUND GAS HOLE
 ONLY ON BOLT CARRIER
 PRIOR TO ASSEMBLY.
 SEE NOTE 2

2-SCREW, CAP, HEX SOCKET HEAD - 8448508
 TIGHTENING TORQUE 58 LB IN.-8 LB IN.

.025 MAX
 4 PLACES



SEE PL - 8448505

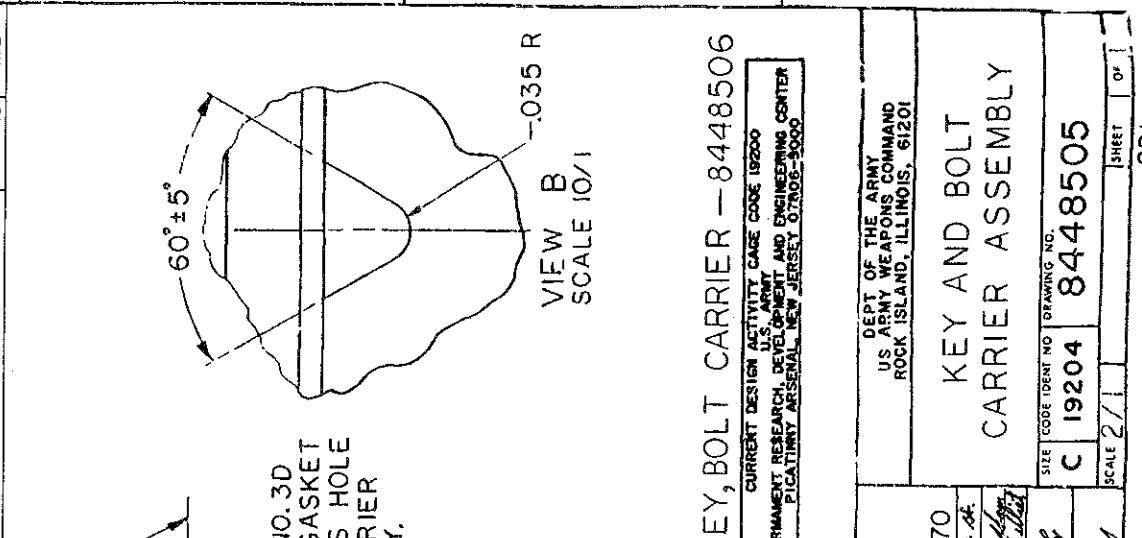
CARRIER, BOLT - 8448507

NOTE:

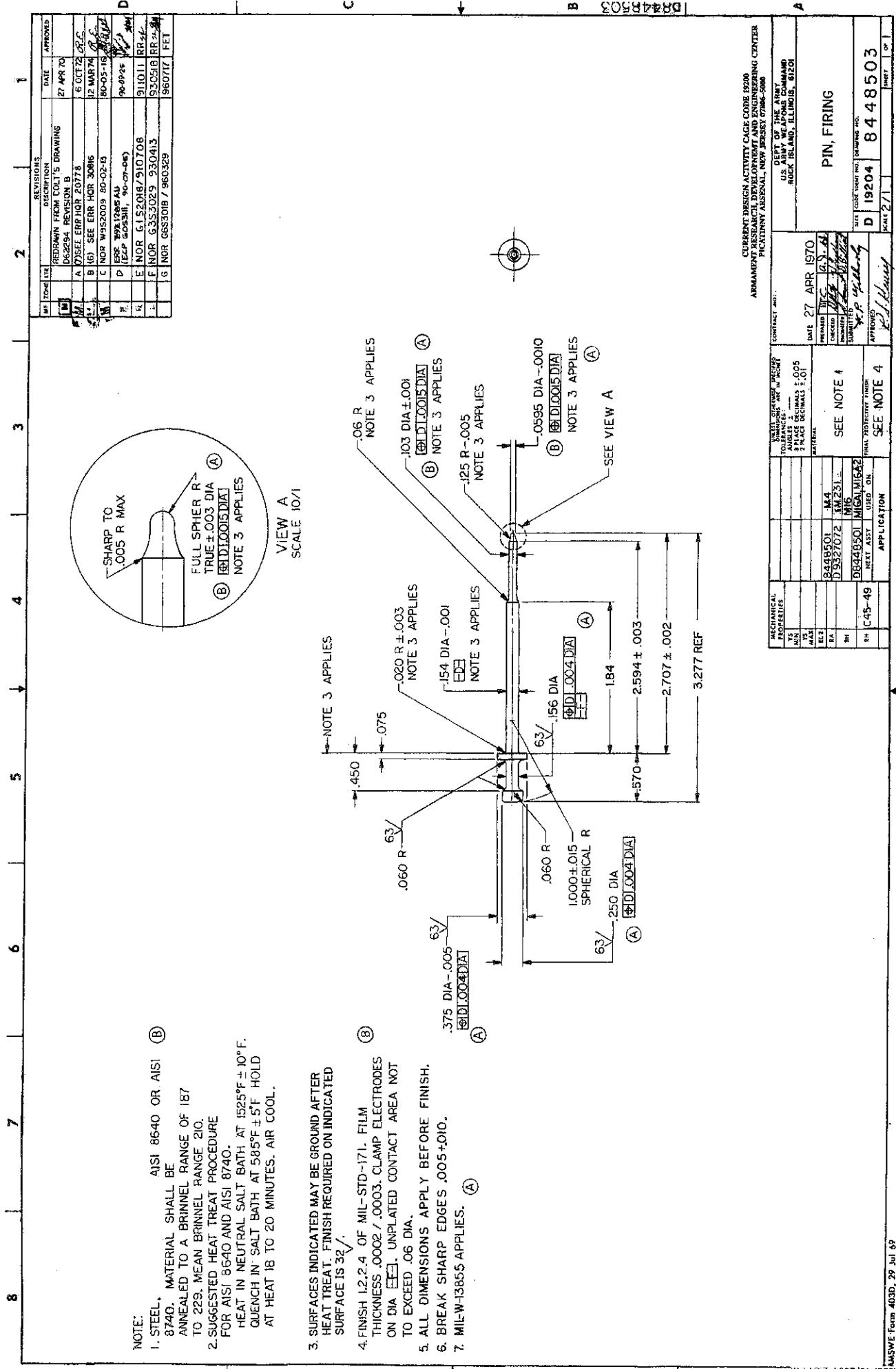
1. MIL-W-13855 APPLIES. (A)
2. ALTERNATIVE MATERIAL:
 MIL-S-45180 TYPE III

DISTRIBUTION STATEMENT
 FURTHER DISSEMINATION ONLY AS DIRECTED BY ACT DEC. 5, 1967, NY ROCK
 ISLAND, IL, AS PER ARB AUTHORITY 320323.

REF. NO.		REVISIONS		DATE		APPROV.	
M	ZONE LTR	REDRAWN	FROM COLT'S DRAWING C 62285 REVISION C	27 APR 70			
M	A	SEE ERR HQR 20778		6 OCT 72	B-C		
B	WOBMRS80295	8205-21	85-0203-25 P/L				
C	NOR G152018	91-07-08	91-10-11 R				
D	NOR G252012/320330		3204-9 RR				
E	NOR G253034/920408		9207-07 R				
F	NOR G253056/92-07-16		9210-07 CF				
G	NOR G253081/92-09-04		93-01-08 CF				
H	NOR G363007 930305	930402 CR	93-04-02 CR				
J	NOR G653024	960426	961023 MG				



CDL



NOTES:

- 1- BOLT ASSEMBLY- 12972691 MUST CAM FREELY IN KEY AND BOLT CARRIER ASSEMBLY. - 8448505.
- 2- FIRING PIN- 8448503 MUST MOVE FREELY IN BOLT ASSEMBLY- 12972691.
- 3- FIRING PIN RETAINING PIN- 8448504 MUST BE SECURE AND MUST HOLD FIRING PIN SECURELY.
- 4- MIL-W-13885 APPLIES.

CAM PIN- 8448502

KEY AND BOLT CARRIER ASSEMBLY- 8448505

FIRING PIN RETAINING PIN- 8448504
SEE NOTE 3

FIRING PIN- 8448503
SEE NOTE 2

BOLT ASSEMBLY- 12972691
SEE NOTE 1

SECTION A-A

PART NO. 1201849

REVISIONS		DESCRIPTION		DATE	APPROVED
REV	ZONE OR	PRODUCT BASELINE	952081	95213	HUS
	-	NOR	L753059 971016		
	A	(ECP	L853000 980126)	980213	JB
		(ECP	L853007 980225)		

DESIGN AUTHORITY		MANUFACTURING CENTER		DRAFTING STANDBY	
U.S. NAVY	DEVELOPMENT	PRODUCTION	TEST	QUALITY CONTROL	INTEGRATION
PROJECT NUMBER	REF ID	REF ID	REF ID	REF ID	REF ID
12972691	12972691	12972691	12972691	12972691	12972691

BOLT CARRIER ASSEMBLY	
SIZE	CAGE CODE
D 19200	1201849
SCALE 2/1	INCHES
APPLICATON	SEE SHEET

SEE PL- 8448501

DO NOT SCALE DRAWING		CONTRACT NUMBER	
UNLESS OTHERWISE SPECIFIED		12972691	
TOLERANCES ON		CONTRACTOR	
DIMENSIONS		HUS	
INCHES		HUS	
DECIMAL		HUS	
2 PL. *		HUS	
A		HUS	

MECHANICAL PROPERTIES		DRAWING APPROVAL	
M16	M16A1	CHIEF DESIGNER	12972691
M16A2	M16A3	SECOND DESIGNER	12972691
M16A4	M16A5	THIRD DESIGNER	12972691
M4	M4A1	MAINTENANCE	12972691
M4A2	M4A3	TEST	12972691
M4A4	M4A5	QUALITY CONTROL	12972691
M4A6	M4A7	INTEGRATION	12972691

DISTRIBUTION STATEMENT A:
APPROVED FOR PUBLIC RELEASE;
DISTRIBUTION IS UNLIMITED.

ANSWER Form 4030-29 Rev 10-69

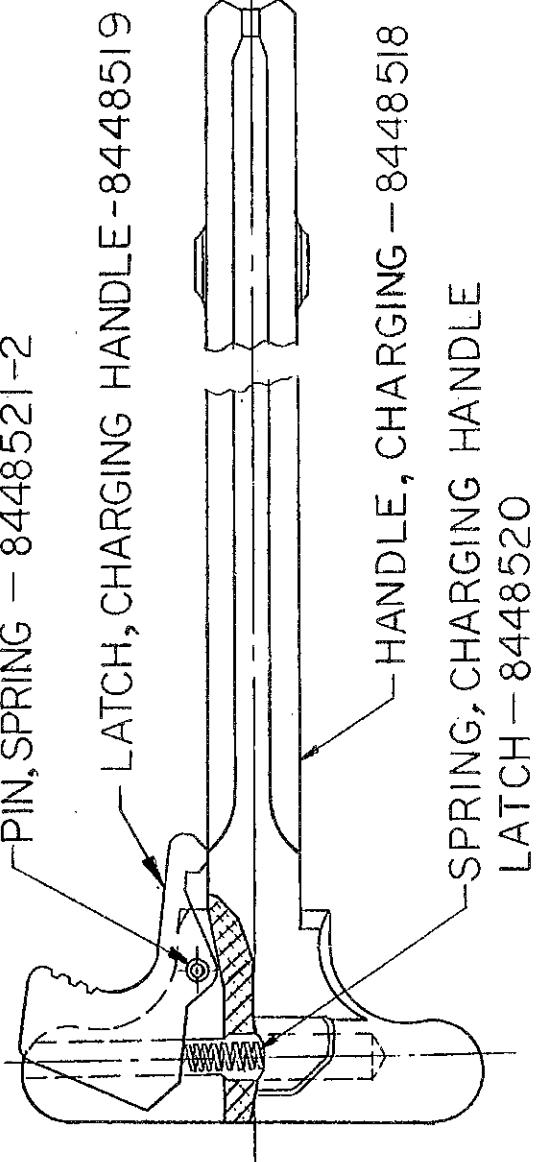
5	4	3	2	1
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5	4	3	2	1

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NOTES:

1. MIL-W-13855 APPLIES.

PIN, SPRING — 8448521-2



HANDLE, CHARGING HANDLE — 8448518

SPRING, CHARGING HANDLE
LATCH — 8448520

REVISIONS		DESCRIPTION	DATE	APPROVED
M	LTR	RE DRAWN FROM COLT'S DRAWING	27 APR 70	R.C. G.
		B 62290 REV A		
A		SEE ERR HQR 20778	6 OCT 72	R.C. G.
B		NOR W952009 80-02-13	80-05-16	J.L. F.W.
C		NORW250020	83-02-03	SAC B-44
D		NOR W4S3048 / 84-10-09	85-02-14	MR K-32
E		NOR GIS2018 91 07 08	91-10-11	RR 34

CURRENT	FSCM NO.
	19200

U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

U.S. ARMY WEAPONS COMMAND:
ROCK ISLAND, ILLINOIS, 61201

CHARGING HANDLE
ASSY

SIZE CODE IDENT NO. DRAWING NO.
B 43 234 8448517

SCALE 2/1 SHEET OF 1
CDI

MECHANICAL PROPERTIES			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES : 3 PLACE DECIMALS : 2 PLACE DECIMALS : MATERIAL :	CONTRACT NO. DATE 27 APR 1970 PREP WIP R.J. B. CHK D.H. 3627 ENGR J.M. 3627 SUBMITTED F.P. Sollarsy NEXT ASSY USED ON APPLICATION
YS MIN	9390000	M 4		
YS MAX	F 9327227	M 231		
EL 2	F 8448600	M 16		
RA	F 8448500	M 6A1		
BH			FINAL PROTECTIVE FINISH	APPROVED
RH			APPLICATION	R.J. Harvey

ARMAMENT RESEARCH, DEVELOPMENT & ENGINEERING CENTER

PICATINNY ARSENAL, NEW JERSEY 07806-5000

SHEET NO 1

PARTS LIST : PL-19204-8448500
 DOCUMENT NUMBER : F 19204-8448500
 NOMENCLATURE : RIFLE ASSEMBLY M16A1
 CHANGE CONTROL NO. : L7S3059

REVISION SYMBOL: E
 REVISION DATE : 03/13/98
 ORIGINAL DATE : 01/24/86

AUTHENTICATION- *A. Lewis*

FIND NUMBER	QTY REQD	CAGE NUMBER	PART/IDENTIFYING NUMBER	DRAWING SIZE	DRAWING/DOCUMENT NUMBER	NOMENCLATURE OR DOCUMENT TITLE		SUP LIST
0001	19200	12011849	D	12011849		BOLT CARRIER ASSEMBLY	X	
0001	19200	12624561	C	12624561		SLING, ADJUSTABLE, SMALL ARMS	X	
0001	19204	8448517	B	8448517		CHARGING HANDLE ASSY	X	
0001	19204	8448522	F	8448522		UPPER RECEIVER AND BARREL ASSEMBLY	X	
0001	19204	8448578	F	8448578		LOWER RECEIVER AND BUTTSTOCK ASSY	X	
0001	19204	8448670	D	8448670		MAGAZINE ASSY, 30 ROUND	X	

TOTAL PAGES TO PARTS LIST: 1

QTY REQD: AR - AS REQUIRED ALT - ALTERNATE, OPT - OPTIONAL, SO - SELECTION OPTIONAL.

REV	DESCRIPTION	DATE APPROVED
1	REDRAWN FROM COLT'S DRAWING D6227 REV A	27 APR 70
2	A (5) SEE ED HBR 02187-3	15 MAY 70
3	B (5) SEE ED HBR 03965	13 OCT 71
4	C (2) SEE ED HBR 20248	15 SEPT 72
5	D NORW25000	08 06 09
6	E NORW25001	03 03 09
7	F NORW25000 66-02-24	03-11-06
8	G NORW25000 66-02-24	06-11-05
9	H NORW25000 66-02-24	01-11-06
10	J NORW25000 66-02-24	02-04-15

- NOTE:
 1. APPLY MIL-L-46000 AT ASSEMBLY OF
 B8448537 DETENT AND B8448538 SPRING.
 2. MIL-W-13855 APPLIES.

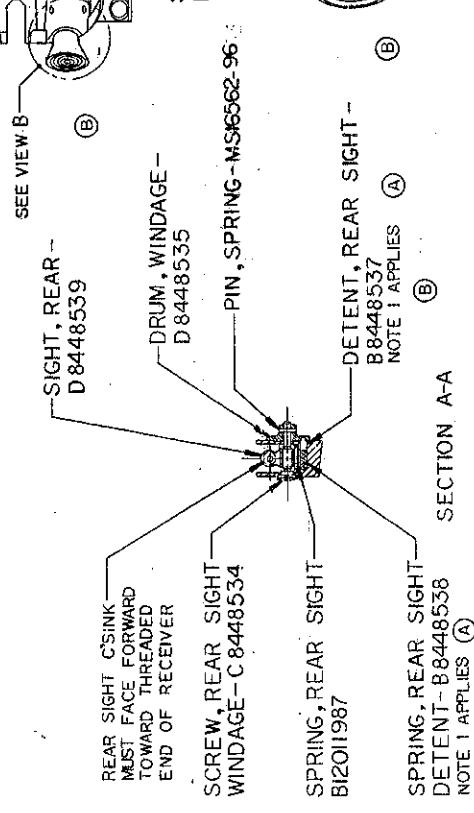
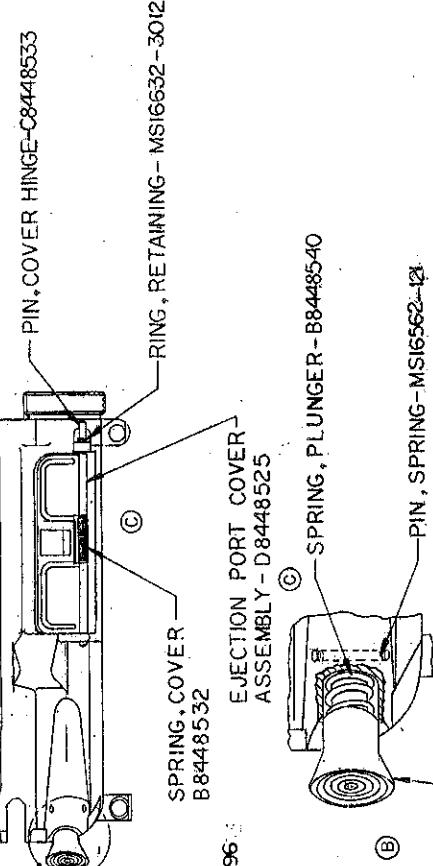
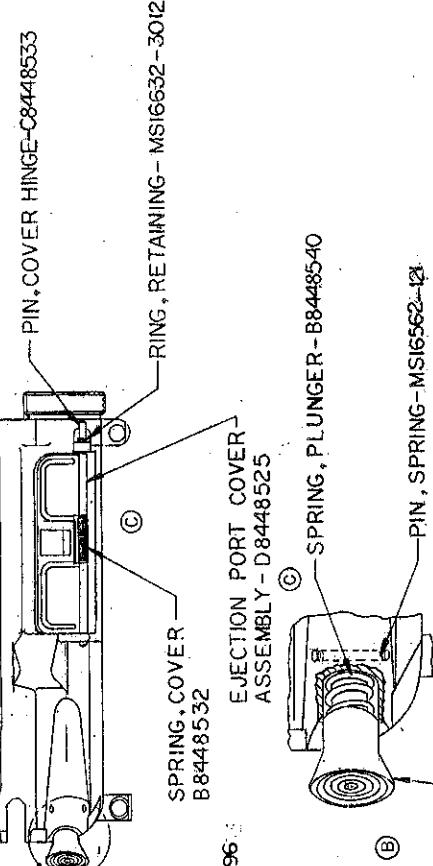
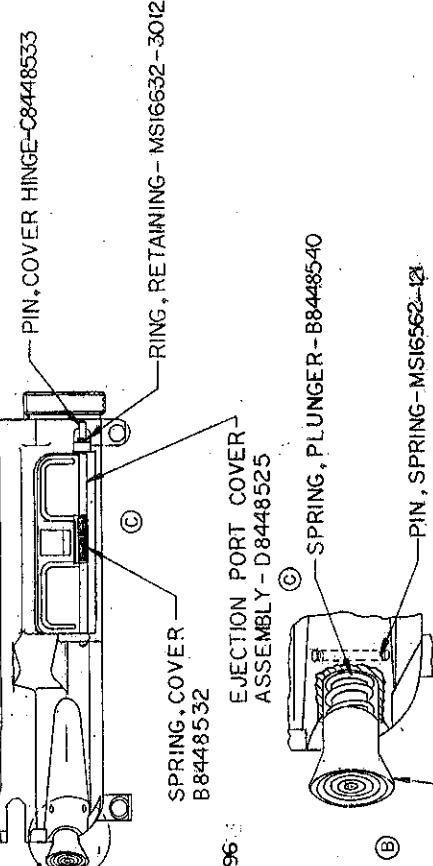
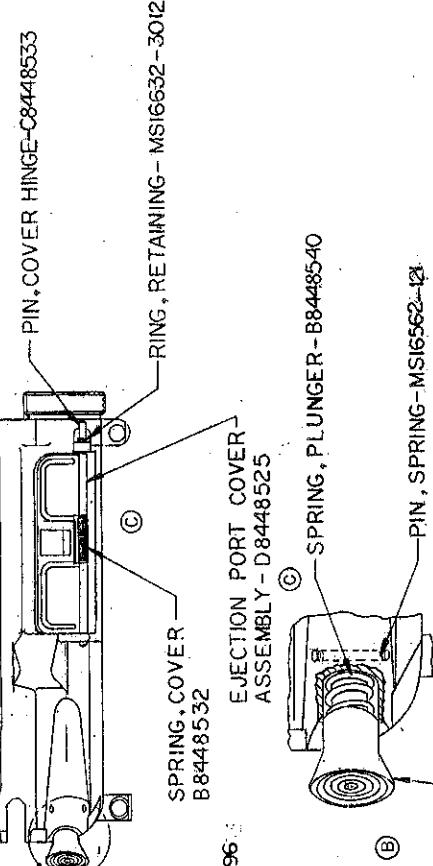
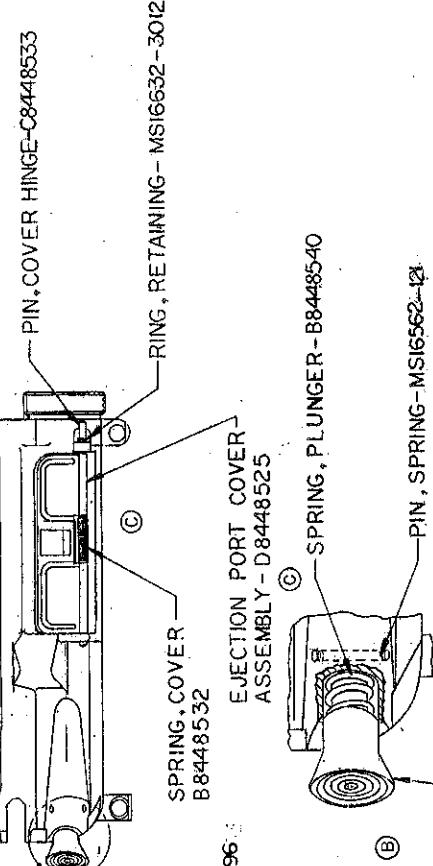
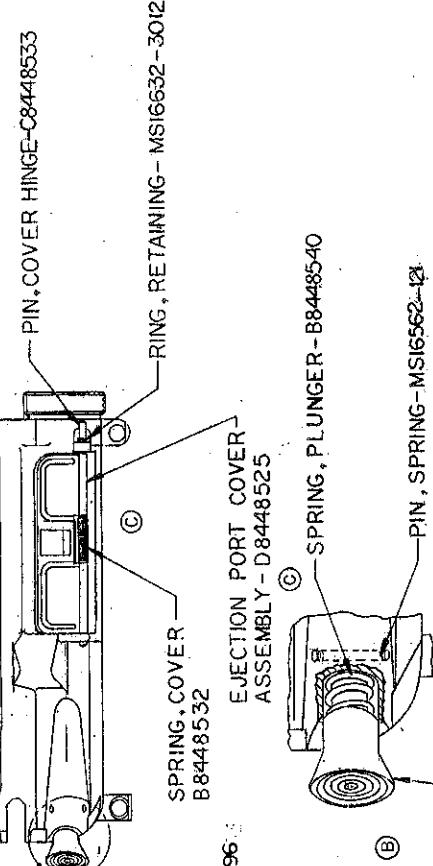
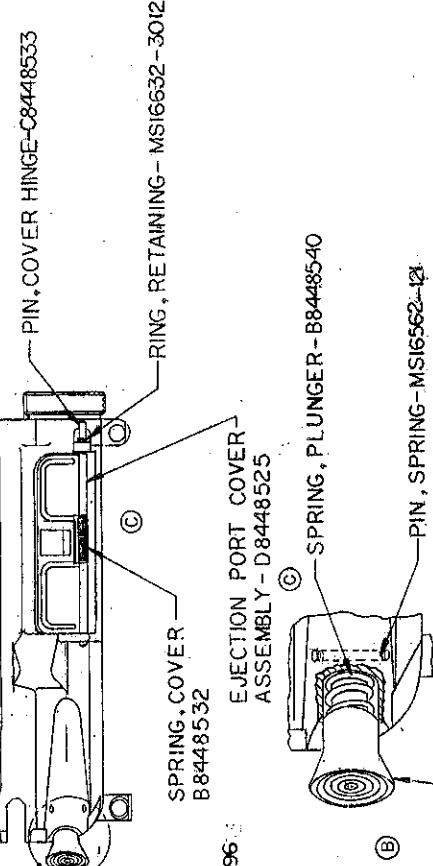
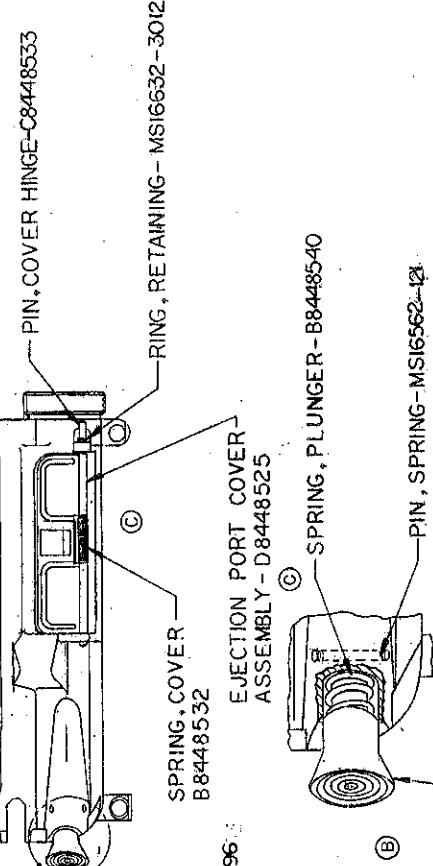
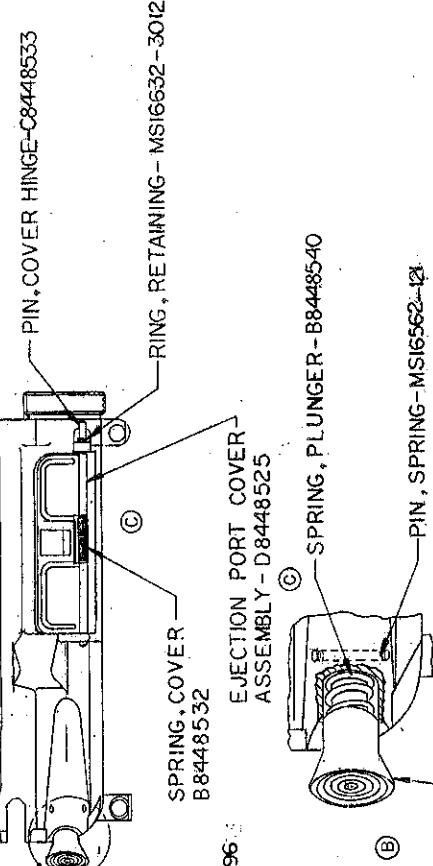
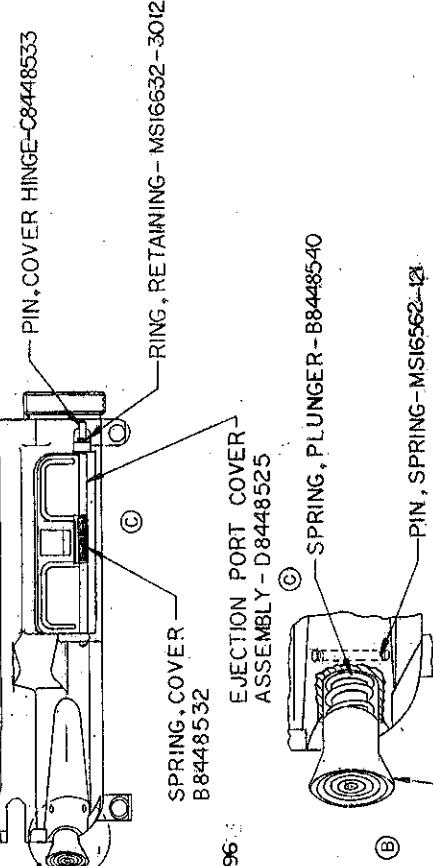
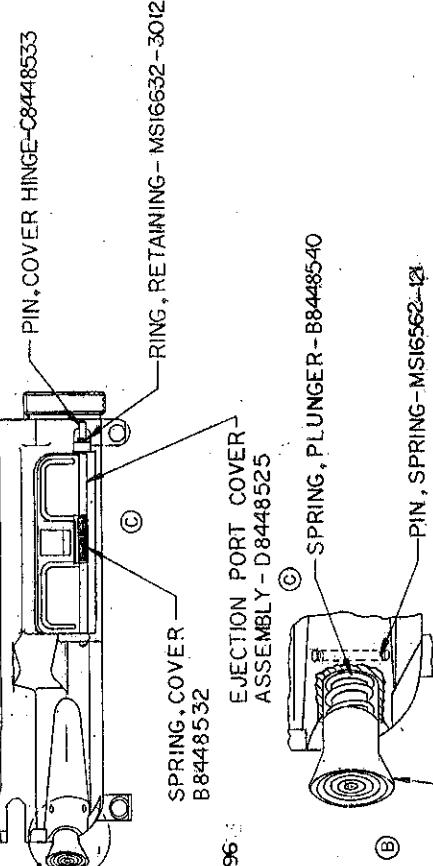
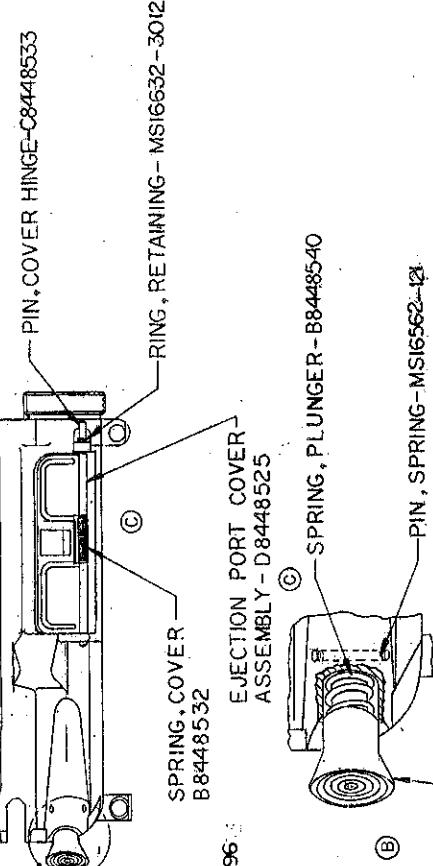
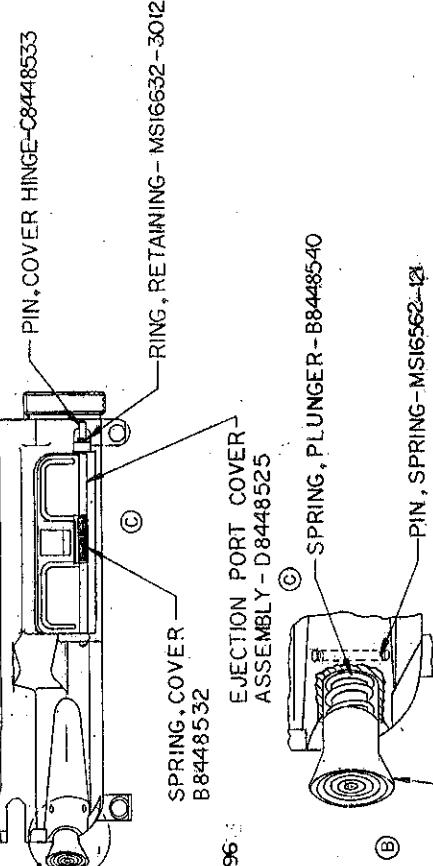
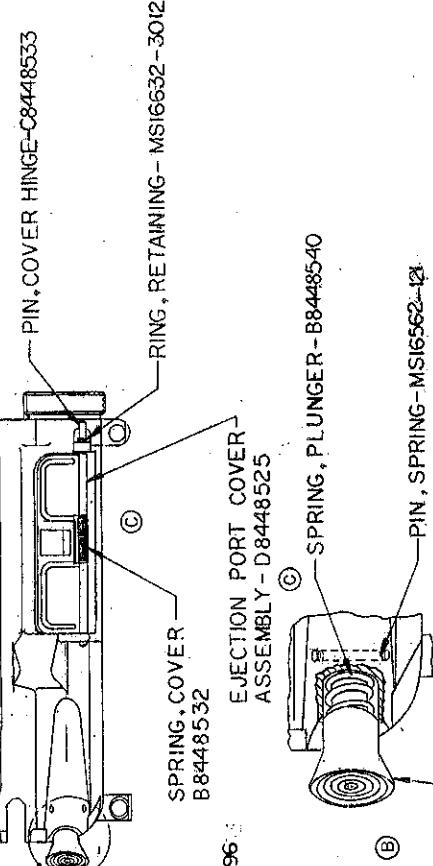
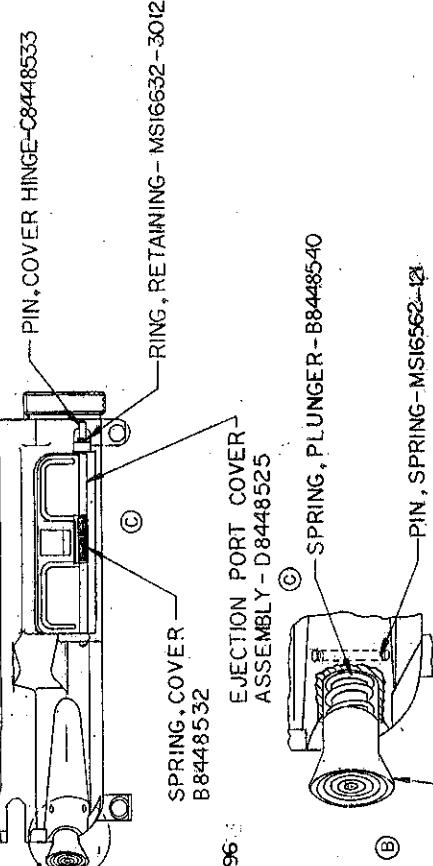
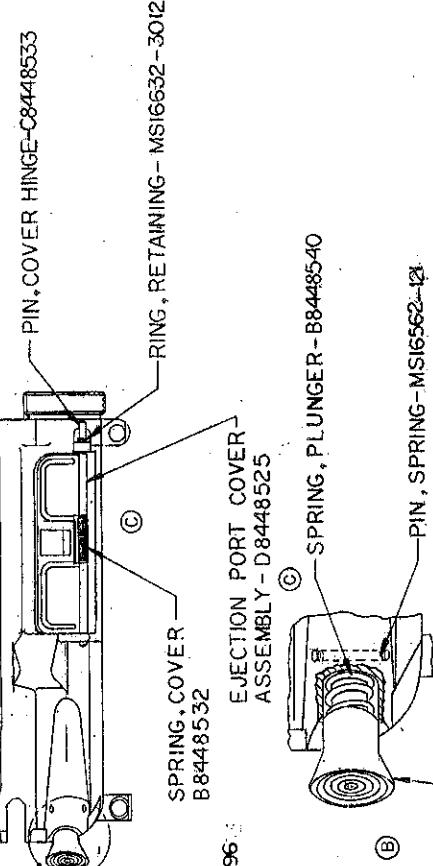
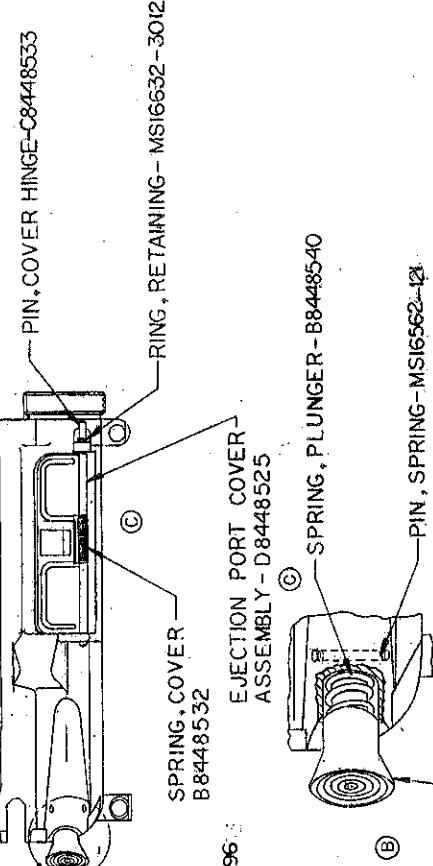
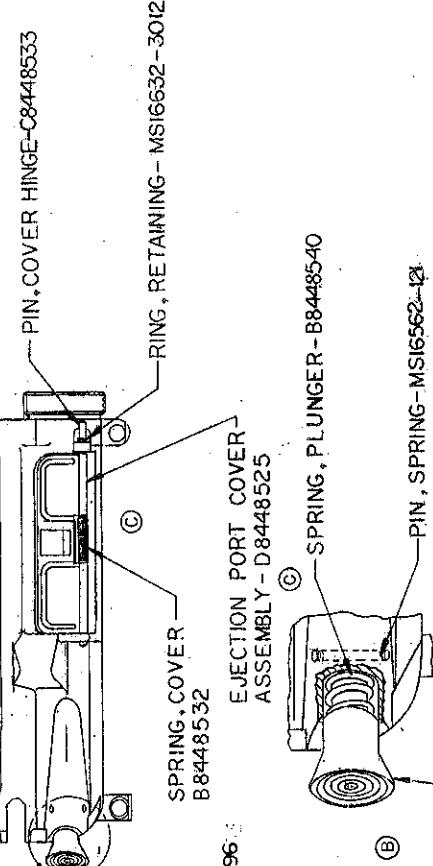
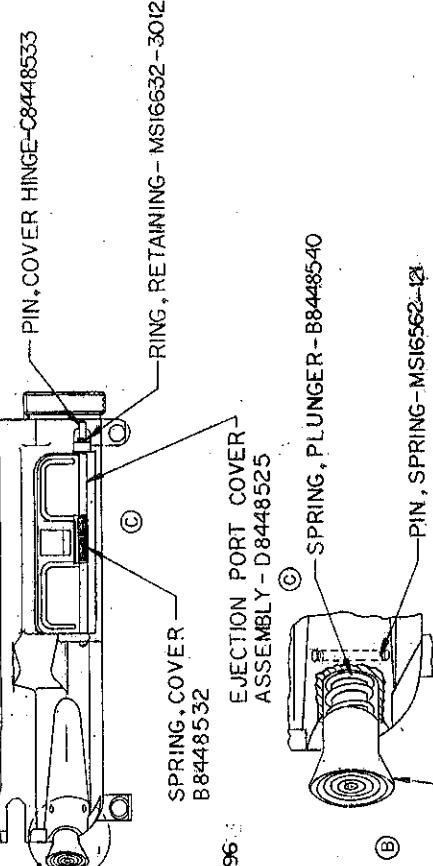
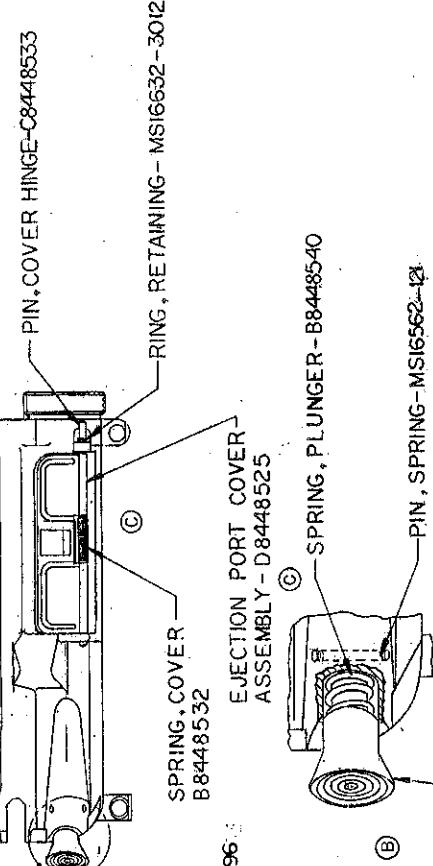
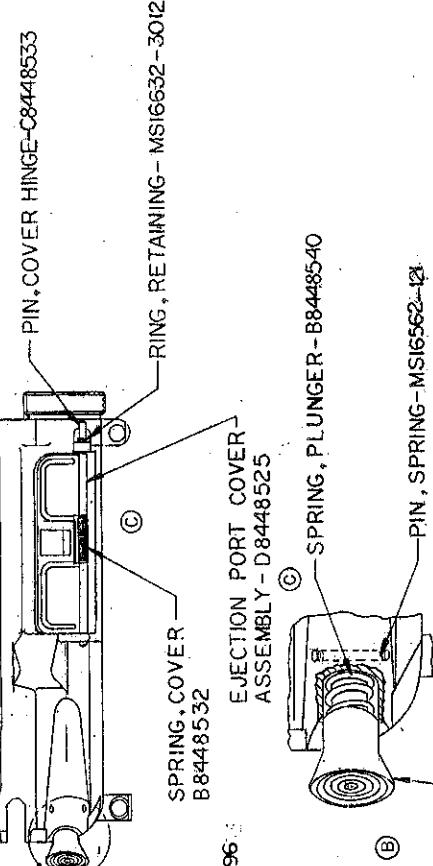
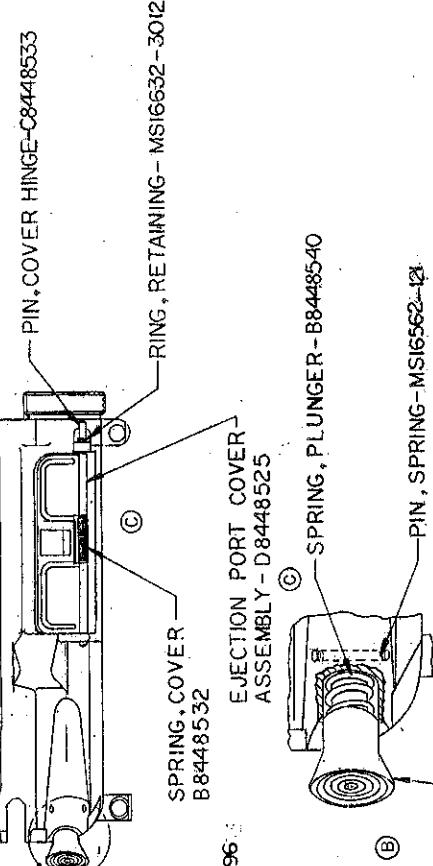
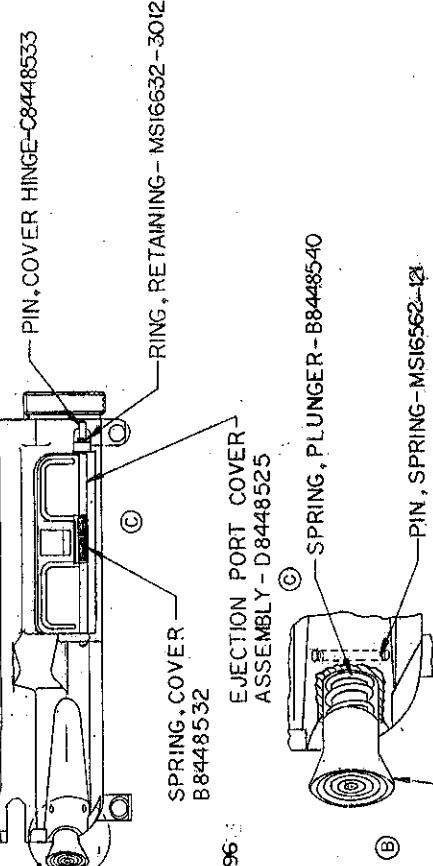
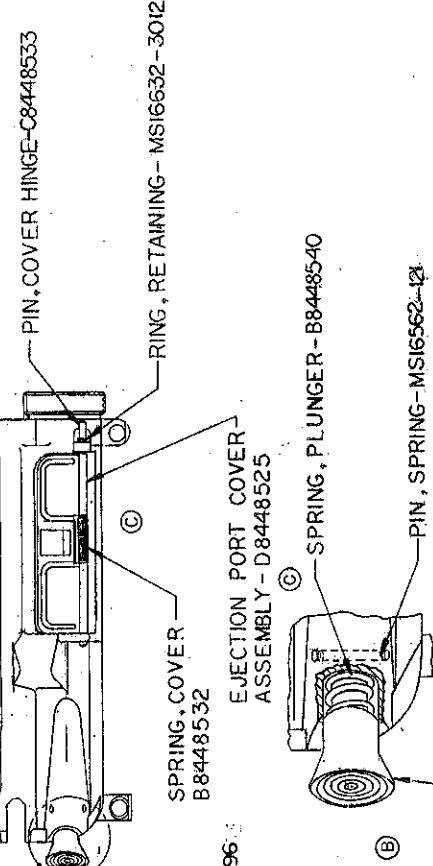
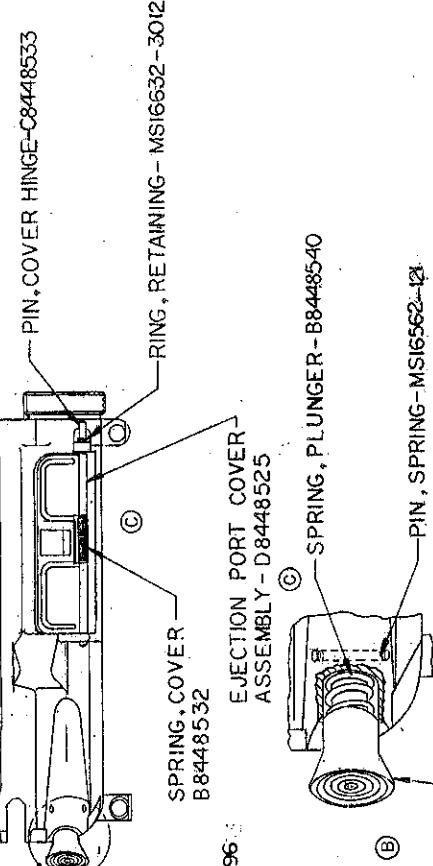
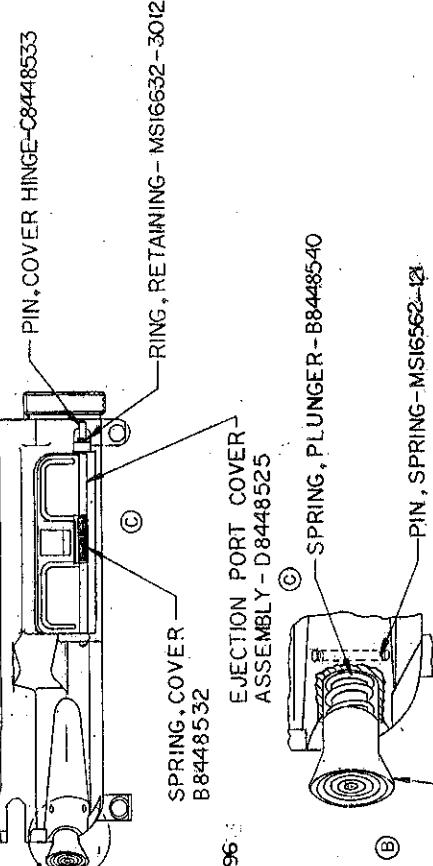
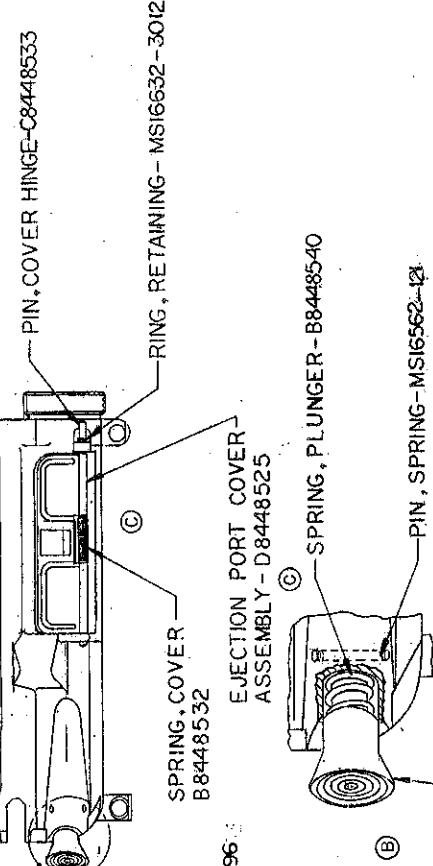
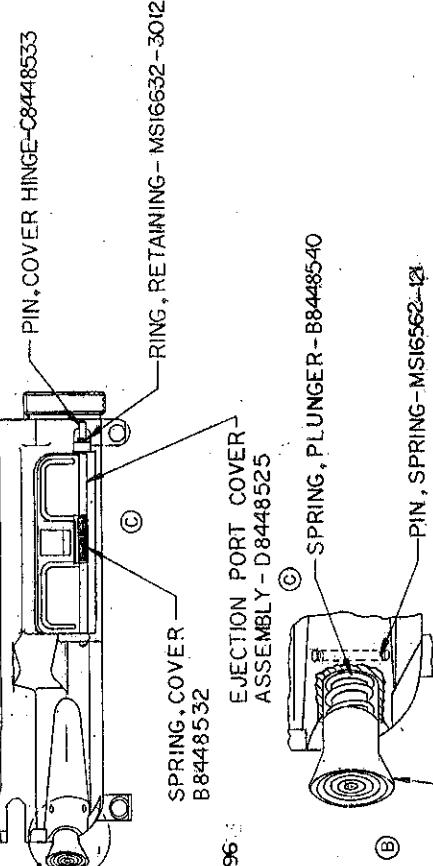
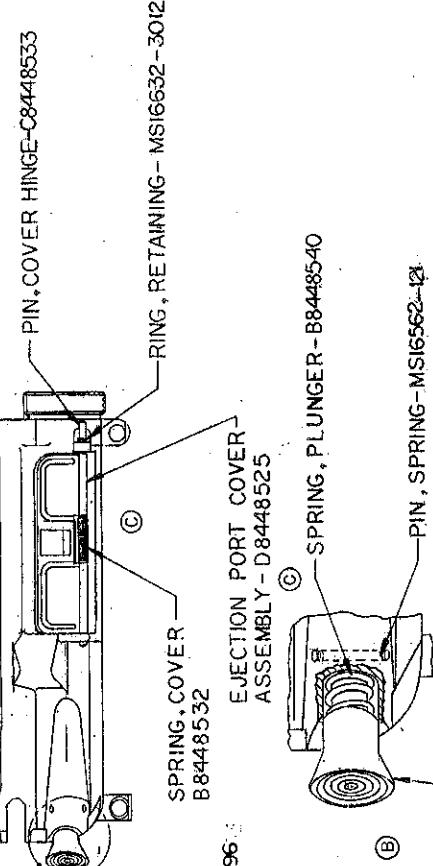
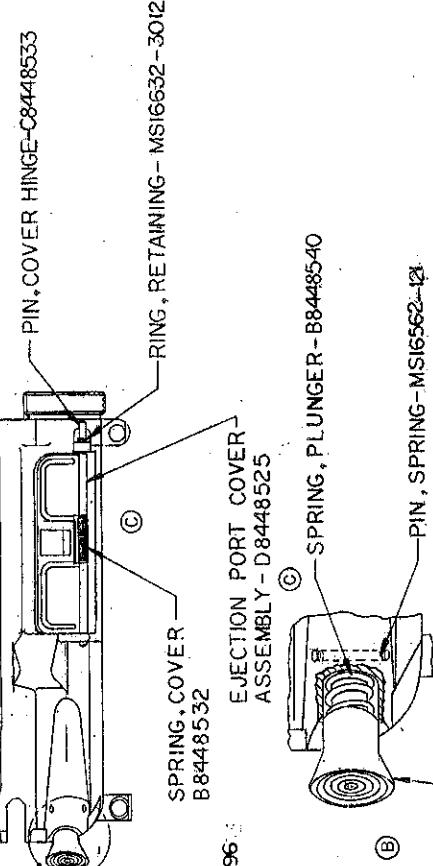
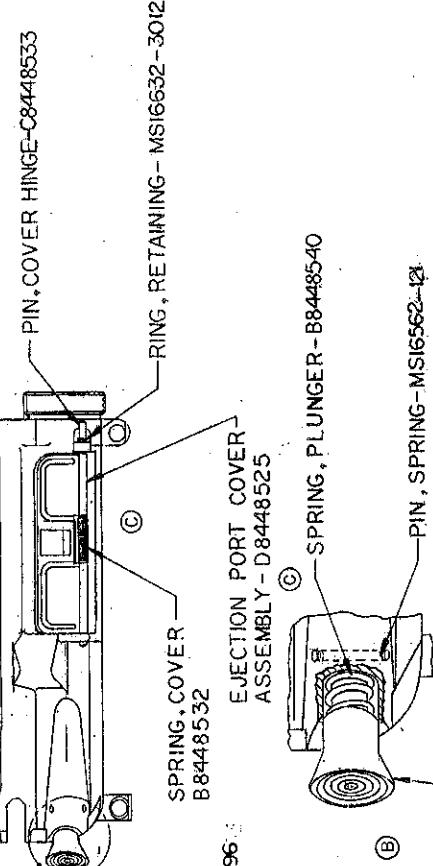
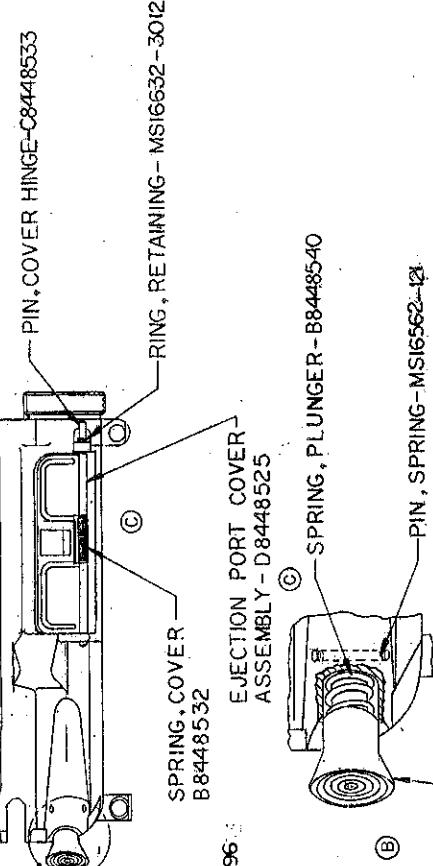
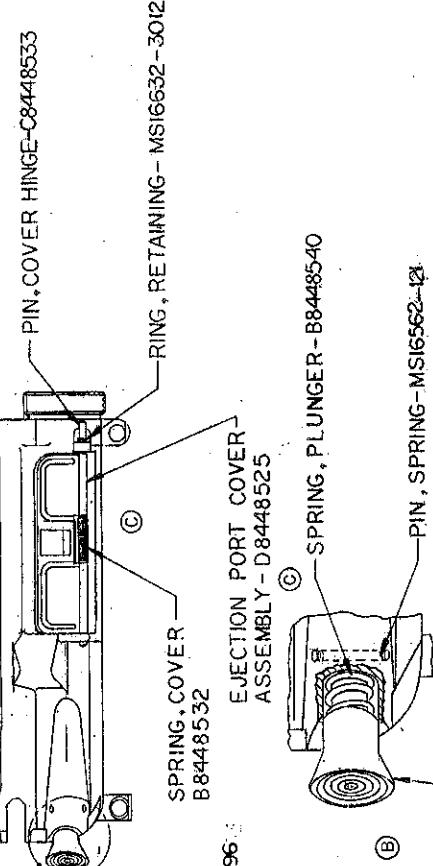
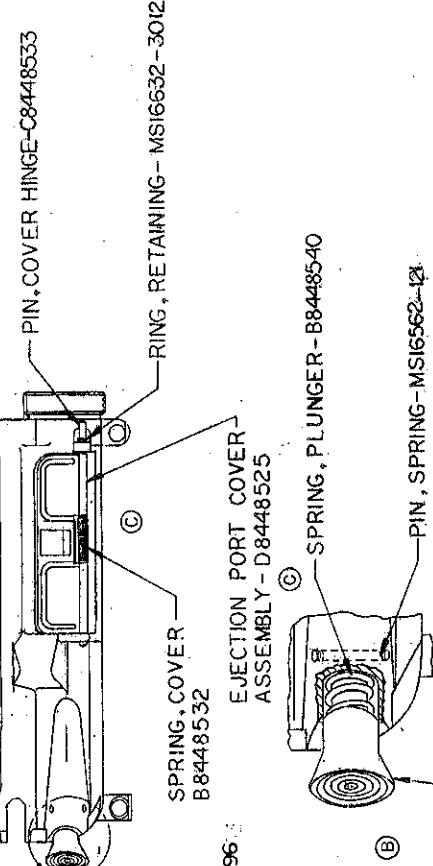
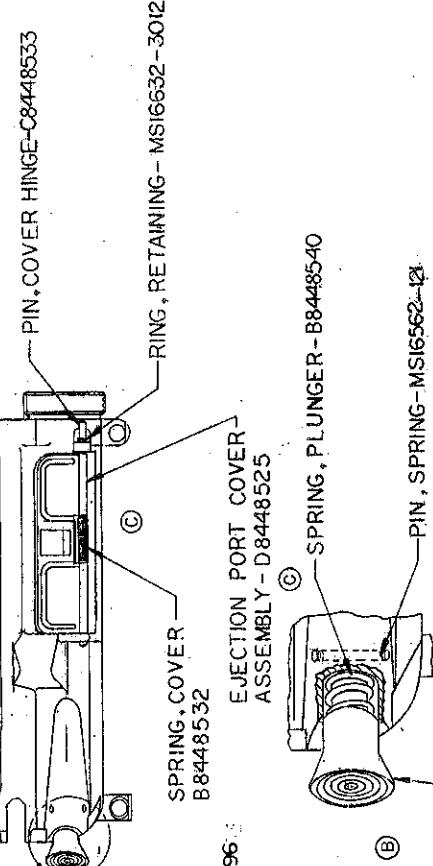
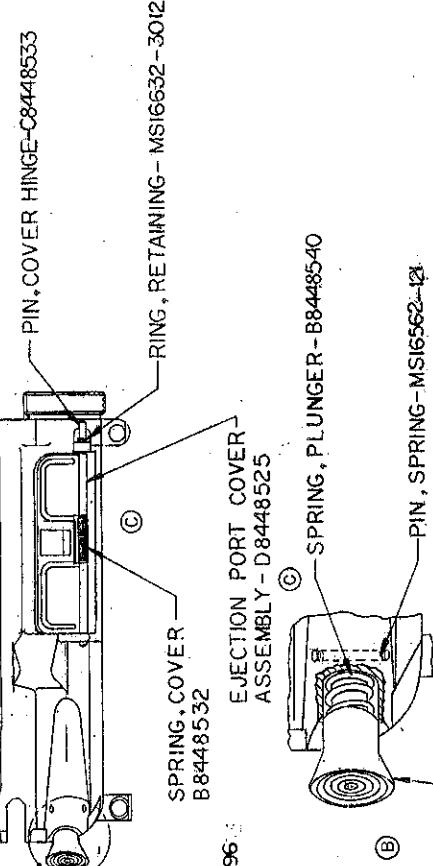
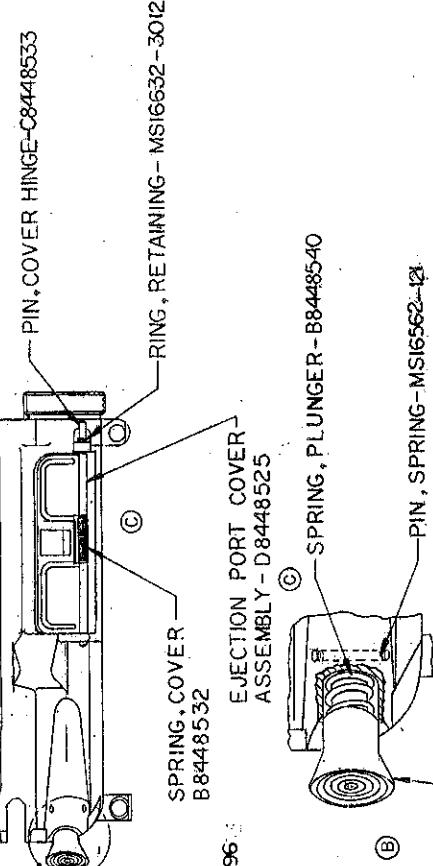
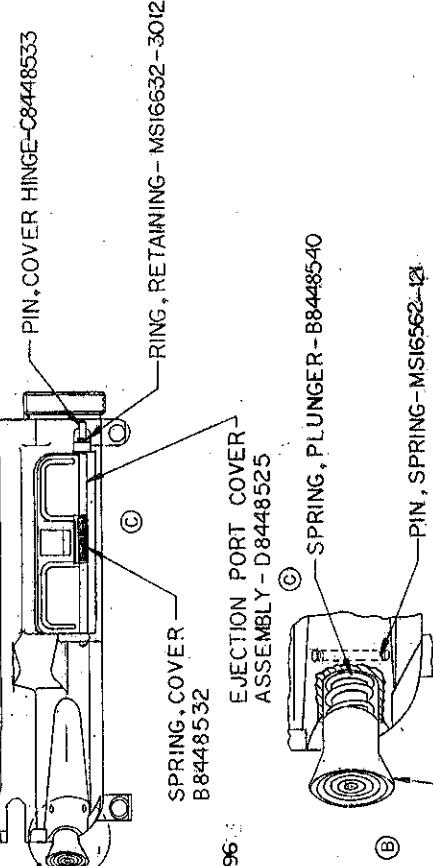
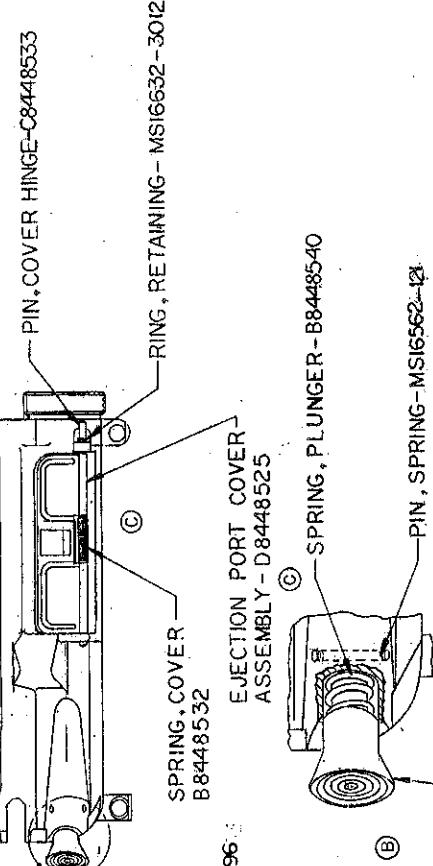
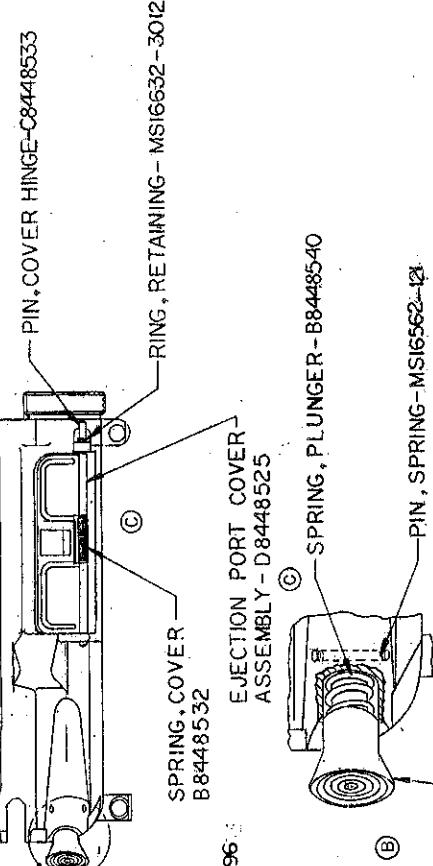
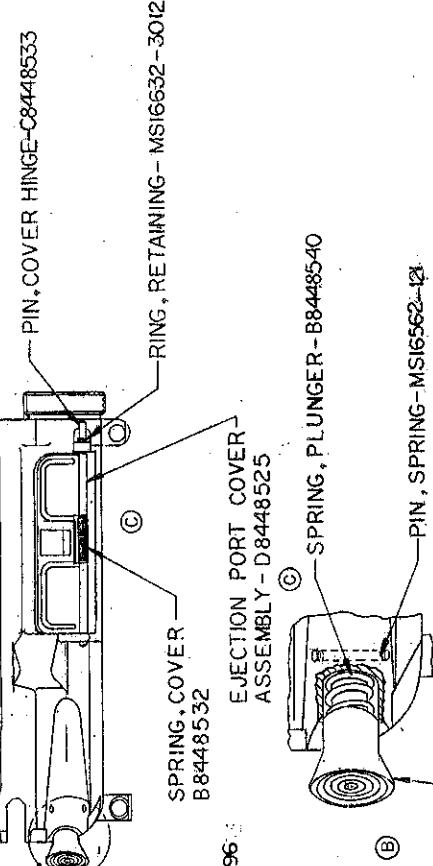
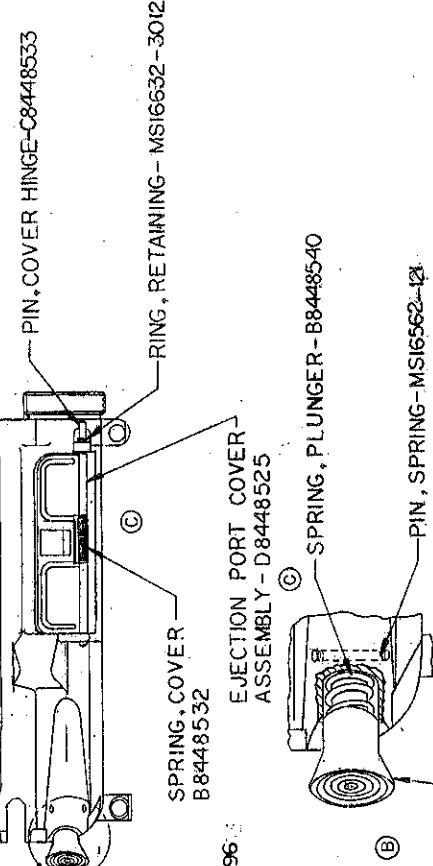
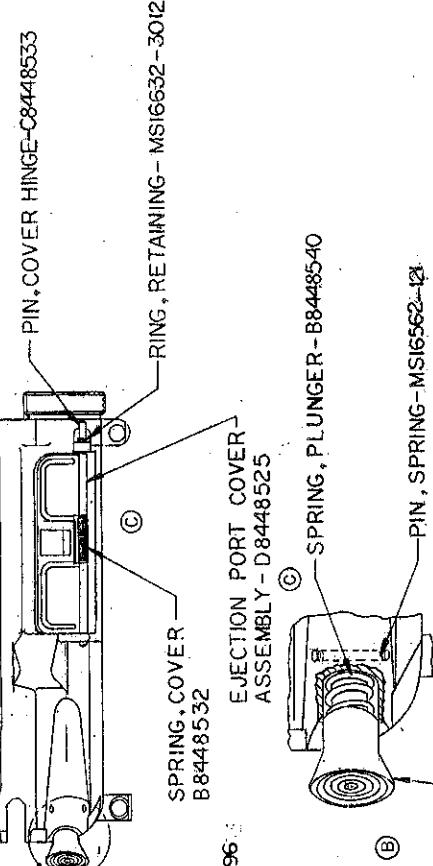
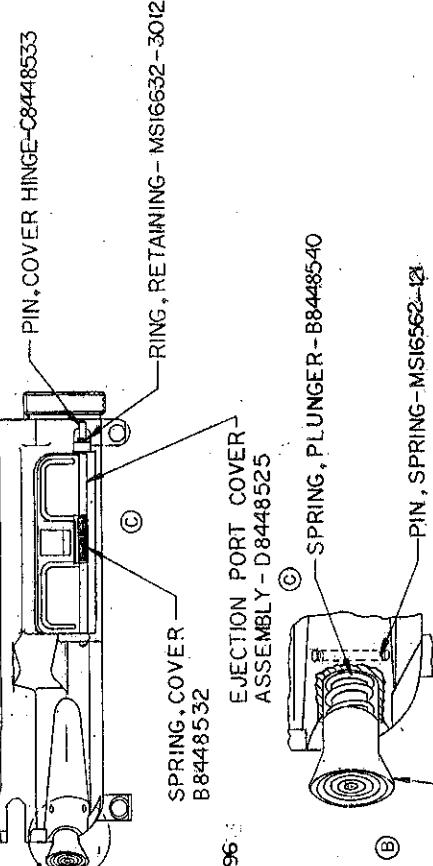
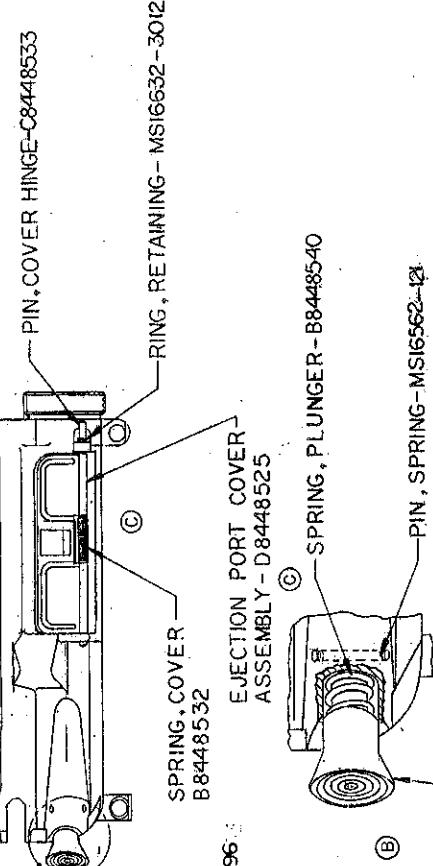
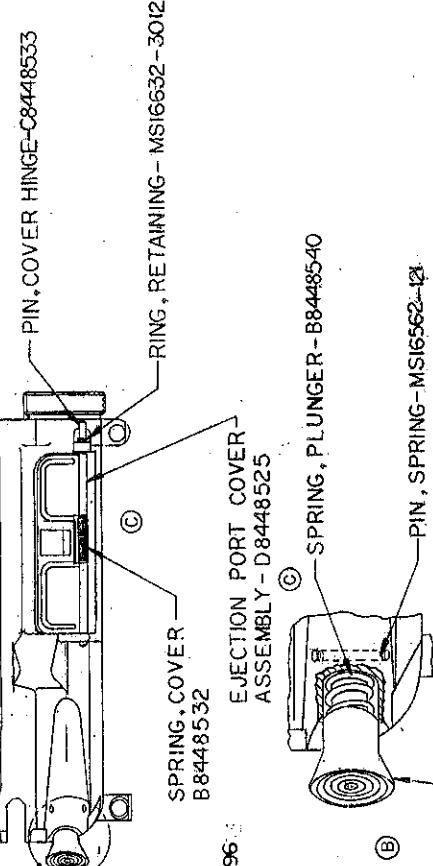
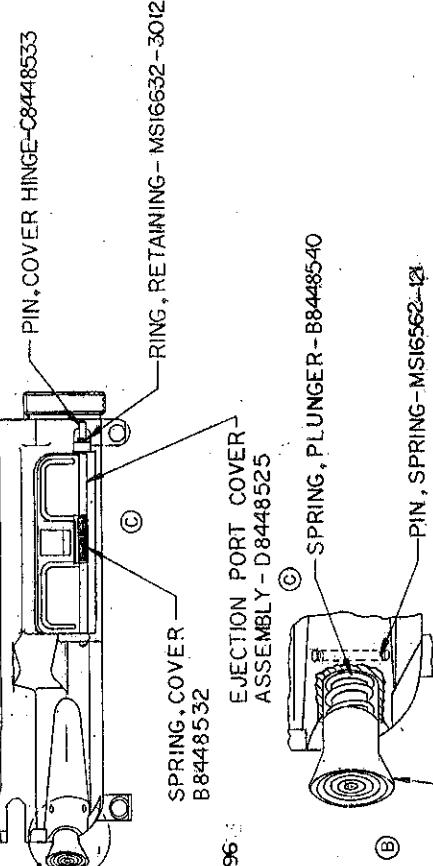
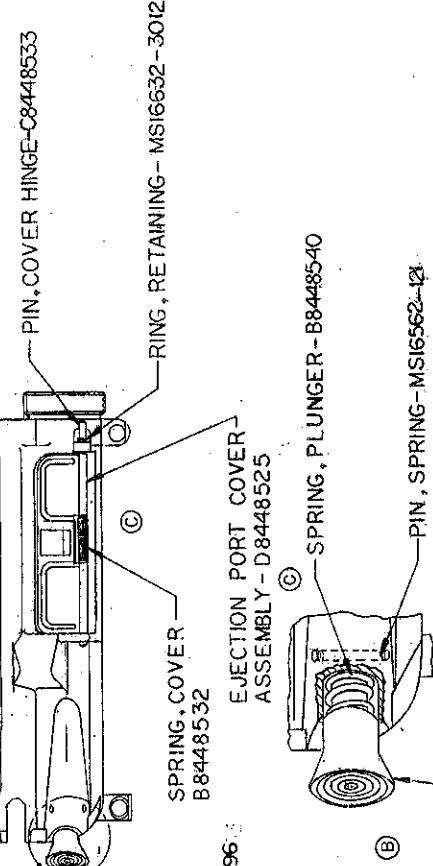
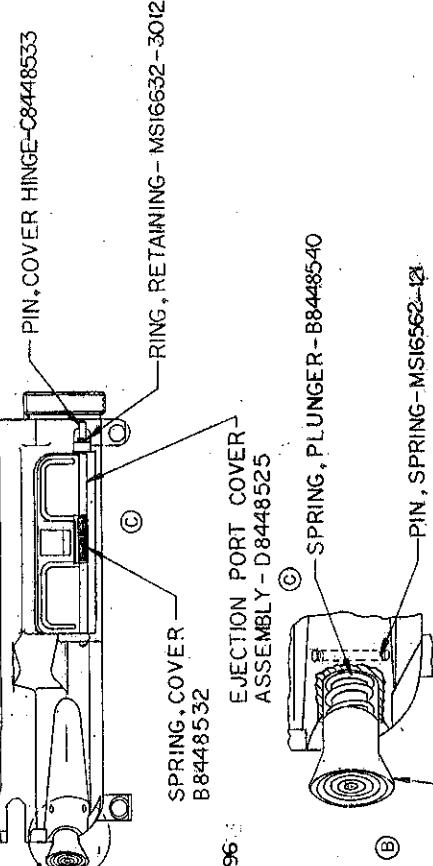
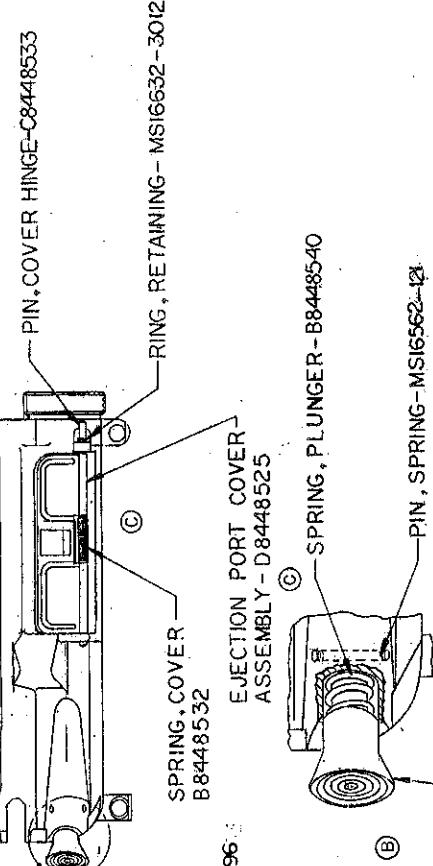
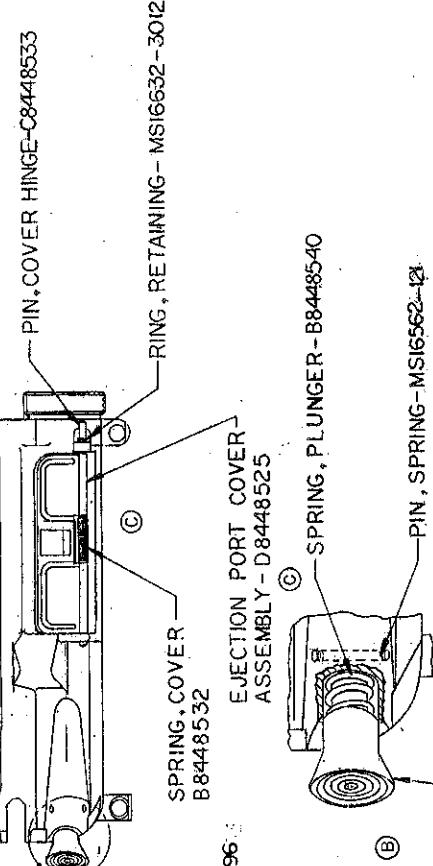
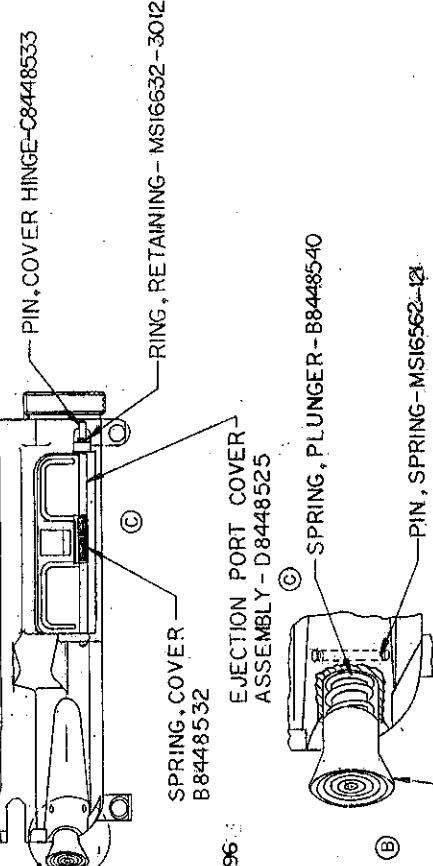
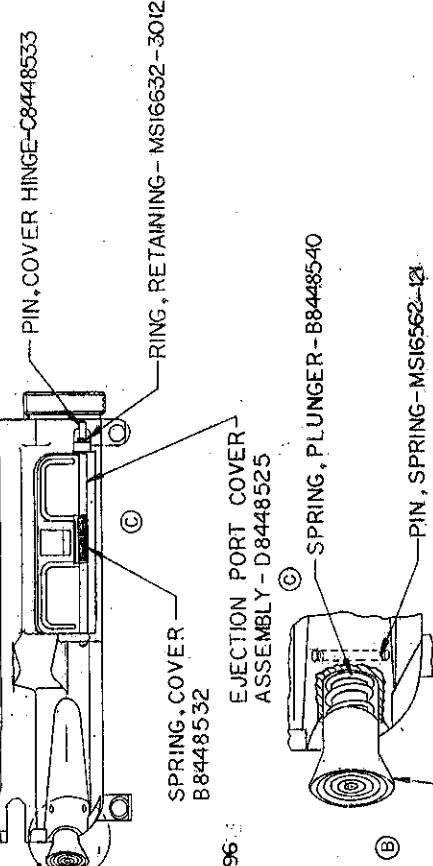
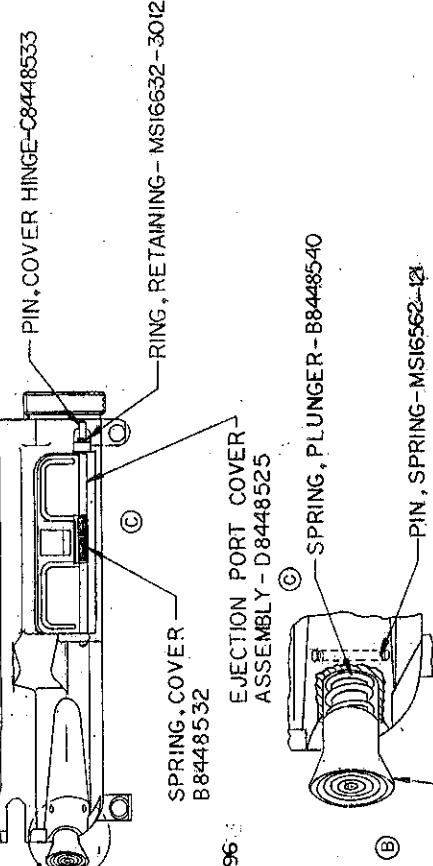
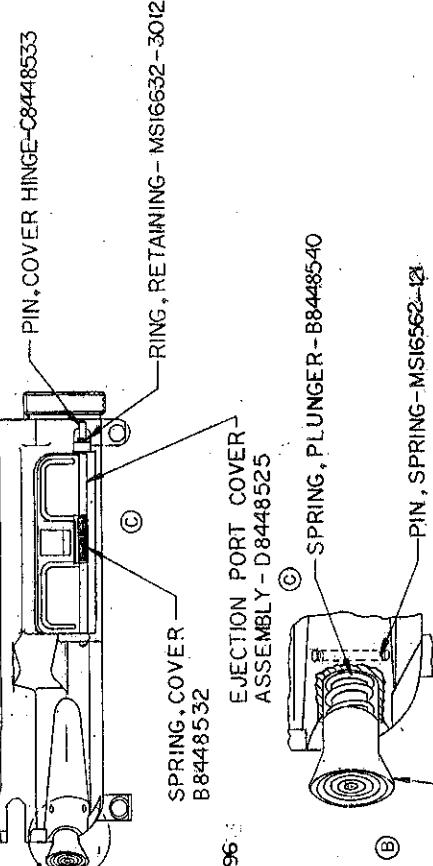
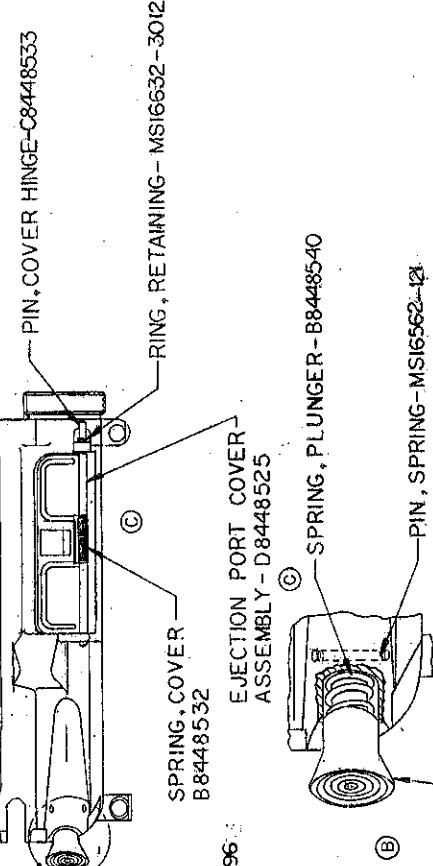
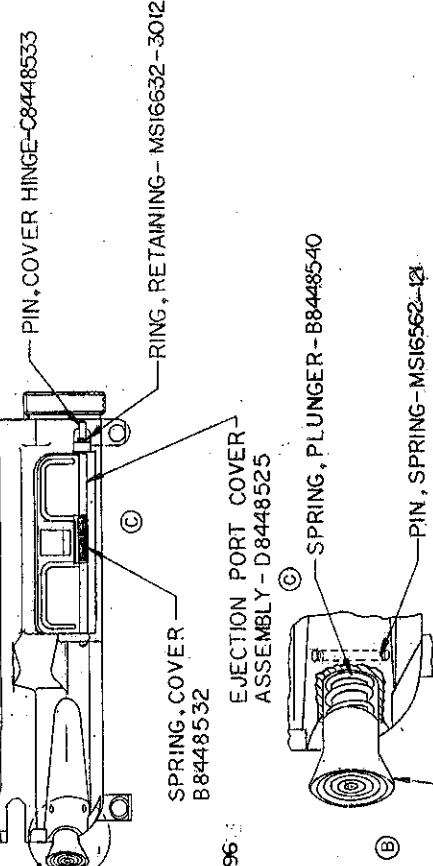
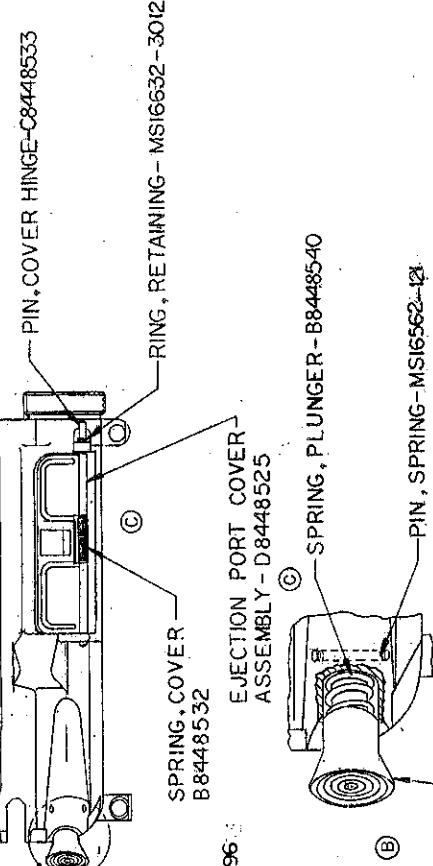
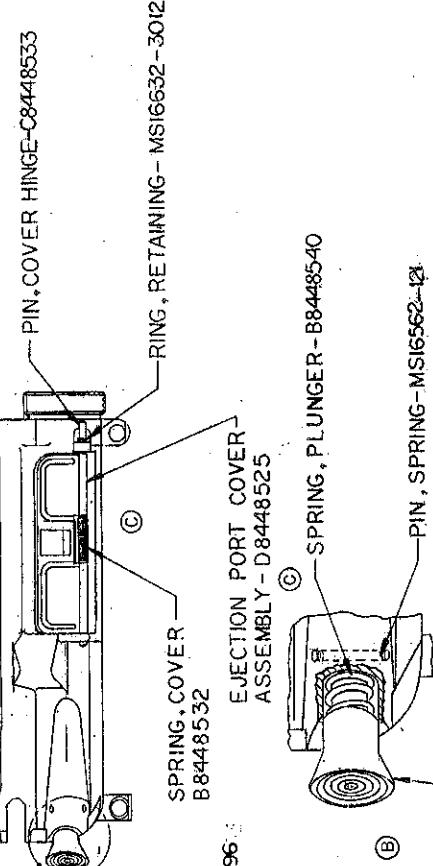
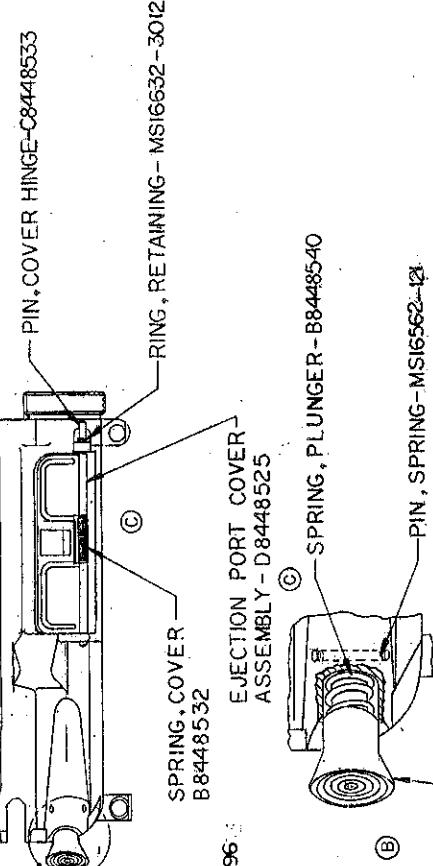
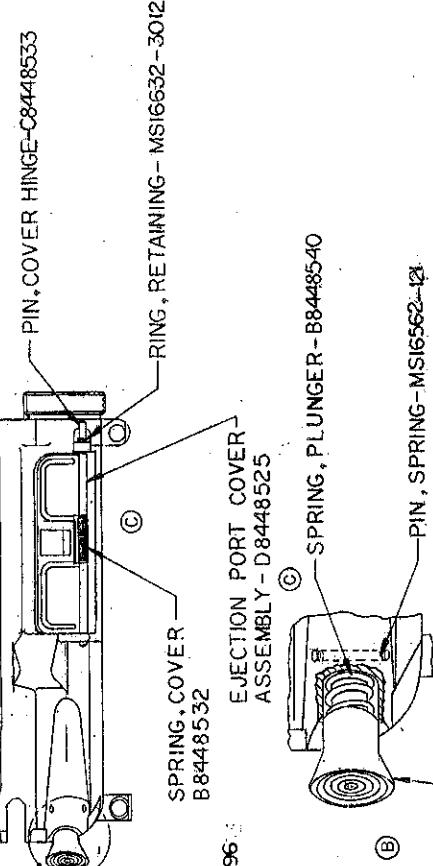
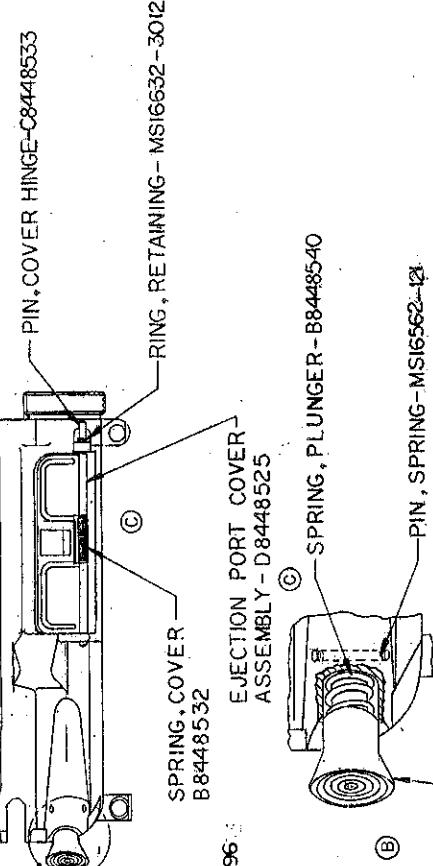
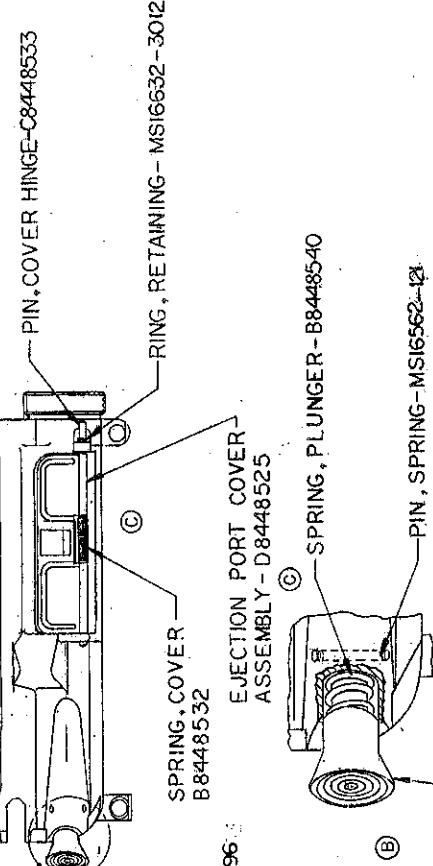
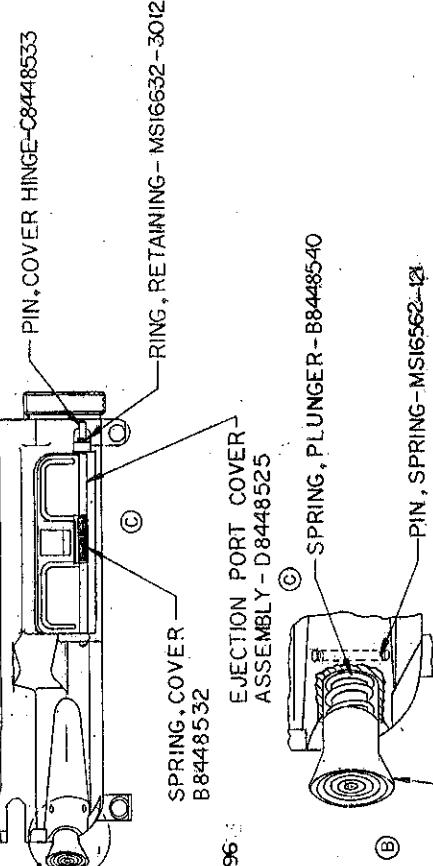
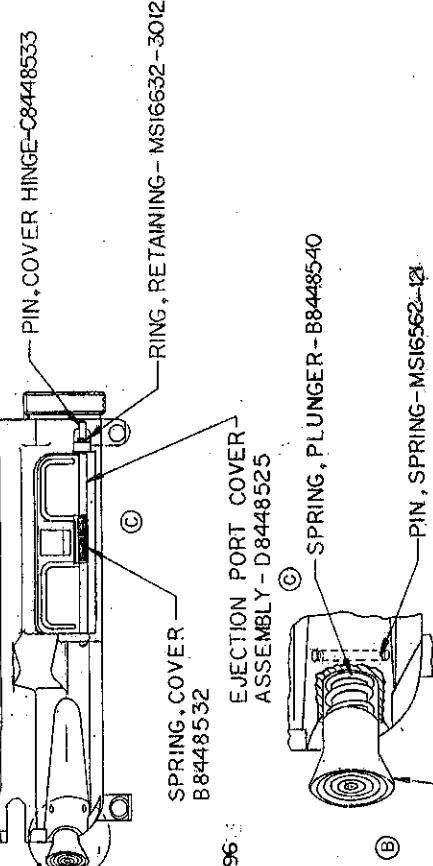
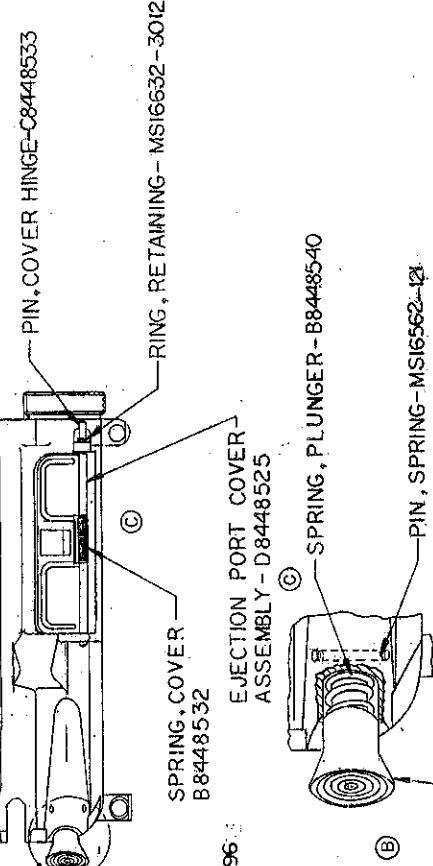
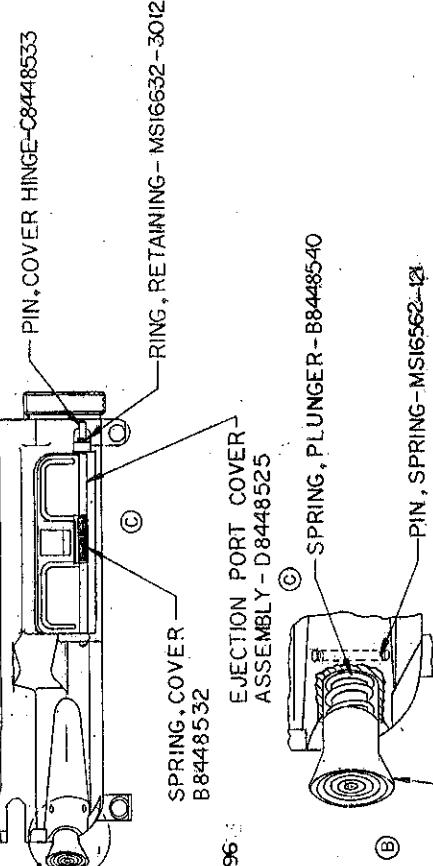
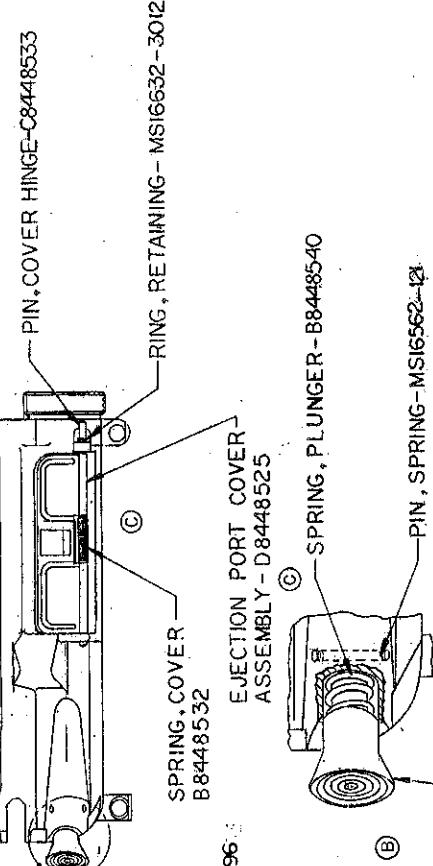
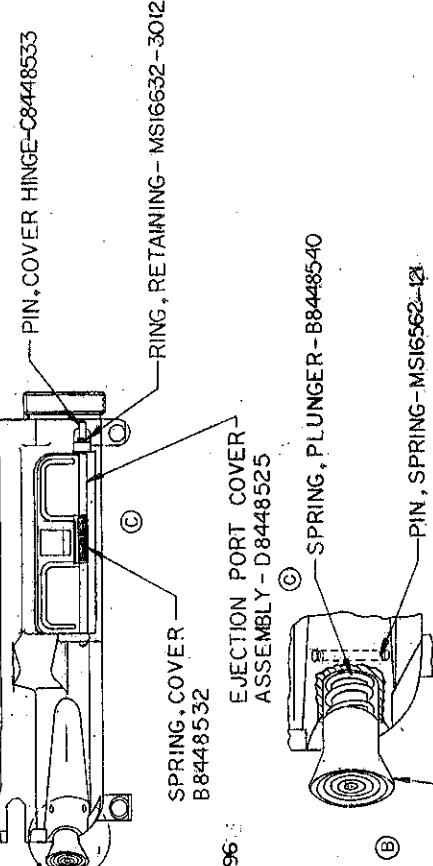
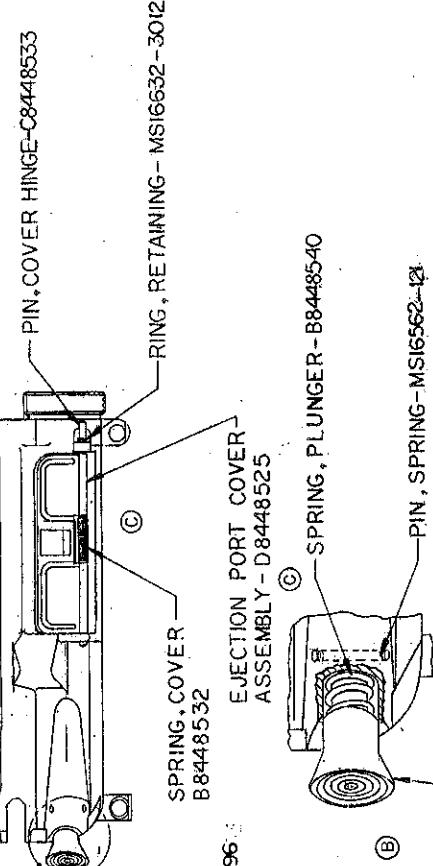
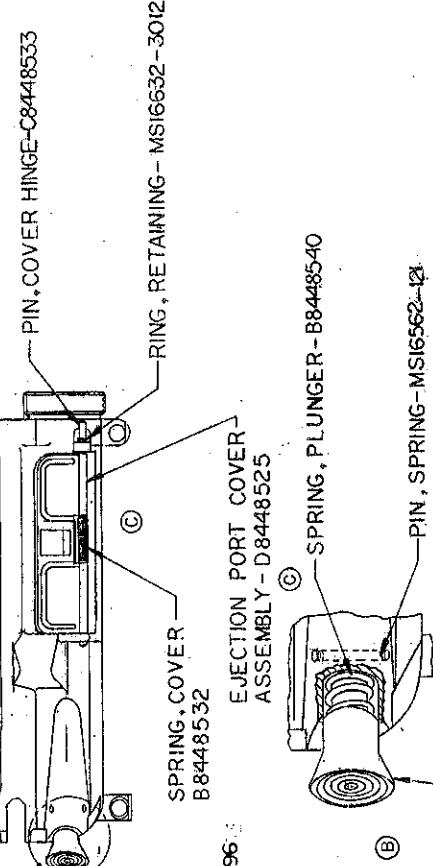
(A)

1. APPLY MIL-L-46000 AT ASSEMBLY OF
 B8448537 DETENT AND B8448538 SPRING.

(B)

(A)

2. MIL-W-13855 APPLIES.

RECEIVER, UPPER -
 J 12576280FORWARD ASSIST -
 ASSEMBLY- 9349086VIEW B
 SCALE 2/1

DRAWING SIZE C 4

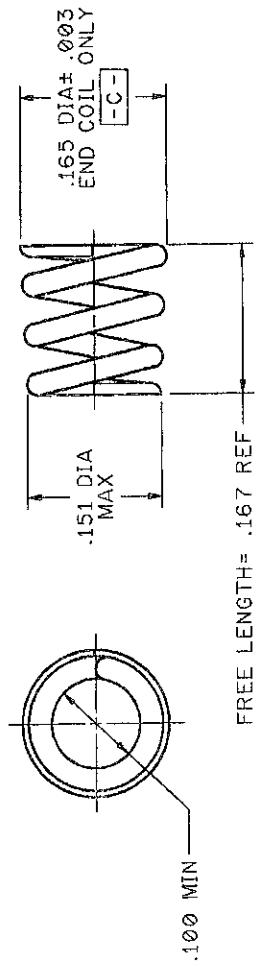
2

3

1

NOTES:

1. WIRE, STEEL, MUSIC SPRING QUALITY PER ASTM-A228 .022 SIZE EXCEPT TENSILE STRENGTH TO BE 363 000 TO 393,000 PSI.
2. STRESS RELIEVE- HOLD AT 450°F ± 25°F FOR 30 MIN.
3. SUGGESTED SOURCE OF SUPPLY:
- NATIONAL STANDARD NILES, MICHIGAN 49120;
- MAPES PIANO STRING CO.
ELIZABETHAN, TENN 37644;
- JOHNSON WIRE & STEEL
WORCESTER, MASS.
4. MANUFACTURE IN ACCORDANCE WITH TYPE I,
GRADE A, MIL-S-13572.
5. MIL-W-13855 APPLIES.
6. BREAK SHARP EDGES .003± .012
- * 7. PRESET- COMPRESS TO SOLID HEIGHT
3 TIMES PRIOR TO CHECKING LOADS.



SPRING DATA

WIRE DIA	.022
TOTAL COILS	4 REF
DIRECTION OF HELIX	OPTIONAL
* LOAD AT COMPRESSED LENGTH OF	.140 IN = 2.0 LB ± 0.2 LB
* LOAD AT COMPRESSED LENGTH OF	.112 IN = 4.2 LB ± 0.4 LB
ONE END EXPANDED TO DIM.	[-C-]
TYPE OF ENDS	CLOSED AND GROUND
SOLID LENGTH	.090 MAX

ZONE		DESCRIPTION		DATE (YR MO DA) APPROVED
G	NOR	G3S3076	930817	931102 RL V 52

CURRENT DESIGN ACTIVITY CAGE CODE 19200
ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PIATNIKY ARSENAL, NEW JERSEY, 07805 50000

THIS DRAWING HAS BEEN GENERATED
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PART NO. 8448753

PMIC		DO NOT SCALE DRAWING	CONTRACT NUMBER
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
MECHANICAL PROPERTIES		TOLERANCES ON DECIMAL FRACTION	CONTRACTOR
	2 PL ±	*	
	3 PL ± .005	*	DRAWN BY T. A. WILSON DATE/YR (MO DA) D. KUBLAK 71-11-04
DISTRIBUTION STATEMENT F.		CHECKER/ROUTER R. ELBE S. BESSE/ROUTER L. BRUNTON	ARMED FORCES IDENT NO.
FURTHER DISTRIBUTION ONLY AS DIRECTED BY ASQNC-ARI OR HIGHER DOD AUTHORITY: DATE OF DERMINATION:		DRAWING APPROVAL A. A. COLE	C 19204
TS	B11828591	M231	SCALE 10/1
EL2	B8448755	M16	UNIT WT.
RA		M16A1	SHEET
BH	NEXT ASSY	USED ON	
RH	APPLICATION	MATL ENGR C 72P	
		DESIGN APPROVAL R. S. HENRY	

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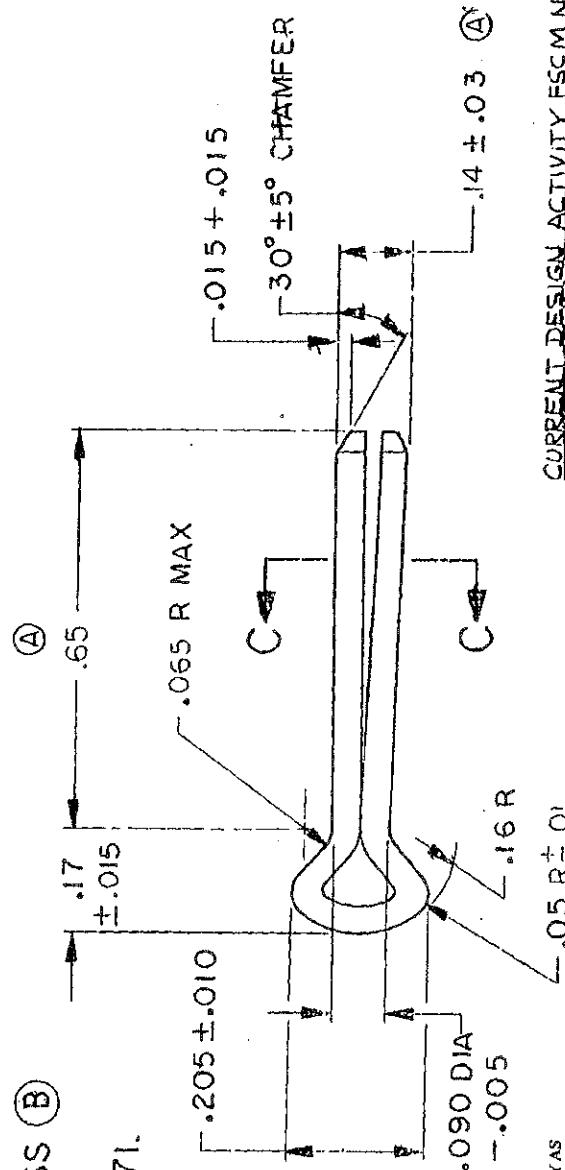
NOTES

1. FINISH $12.5 \sqrt{}$
2. HEAT TREATMENT: QUENCH AND TEMPER TO HARDNESS \textcircled{B} SPECIFIED.
3. FINISH 5.3.1.2 OF MIL-STD-171.
4. MIL-W-13855 APPLIES. \textcircled{B}

		REVISIONS			
MFG ZONE	LTR	DESCRIPTION	DRAWING	DATE	APPROVED
		REDRAWN FROM COLTS DRAWING	C62335 REVISION B	27APR70	
A	(2)	SEE EO HRD 02197-3		15 JUL 70	<i>J. H. H.</i>
B	(4)	SEE ERR HQR 20778		30 OCT 72	<i>R. C. H.</i>
C	NOR W952009	80-02-13		80-05-16	<i>R. C. H.</i>
D	NOR W2S3258/82-12-30			82-09-04	<i>R. C. H.</i>
E	NOR G152018	91-07-08		91-10-11	<i>R. C. H.</i>
F	NOR G352019/930701			930701	<i>R. C. H.</i>

EQUAL WITHIN
.005 (TRUE)

SECTION C-C



DISTRIBUTION STATEMENT: FURTHER DISSEMINATION ONLY AS
DIRECTED BY ASQ NC-A-R 91025,
OR HIGHER DoD AUTHORITY

CURRENT DESIGN ACTIVITY ESC M NO. 19290
U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO	DRAWING NO	
YS MIN	8448501	M4	ANGLES: 3 PLACE DECIMALS ± .005	27 APR 1970	CDI	U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801
YS MAX	D9327072	M231	2 PLACE DECIMALS ± .01	PREP C. G. H. CHK C. G. H. ENG R. C. H. SUBMITT R. C. H. FIRING PIN		
EL/2 RA	D8448501	M16	MATERIAL WIRE, STEEL, CMPSN 1038, ASTM A310			
BH		M16A2	FINAL PROTECTIVE FINISH			
		NEXT ASSY	USED ON	APPROVED		
	RH 151305-835	APPLICATION	SEE NOTE 3	<i>R. C. H. Kennedy</i>		

SHEET	OF
5	1

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Within The Jurisdiction of The State of New Jersey. Any Violation of This Document Will Result in The Imposition of A Fine of \$1000.00 Per Violation,
Within The Jurisdiction of The State of New Jersey.

D

NOTE:

1. FINISH 125/ EXCEPT AS NOTED.
2. OIL QUENCH FROM 1600°F, TEMPER AT 275°F TO 400°F.
3. AFTER TEMPERING, STEEL SHOT PEEN ALL OVER-S-70 SHOT, .005+.002-.A2 ALMEN, 150% COVERAGE.
4. CLEAN IN ACCORDANCE WITH TT-C-490, METHOD III OR IV. FINISH 5.3I.2 OF MIL-STD-171.
5. MIL-W-13855 APPLIES.

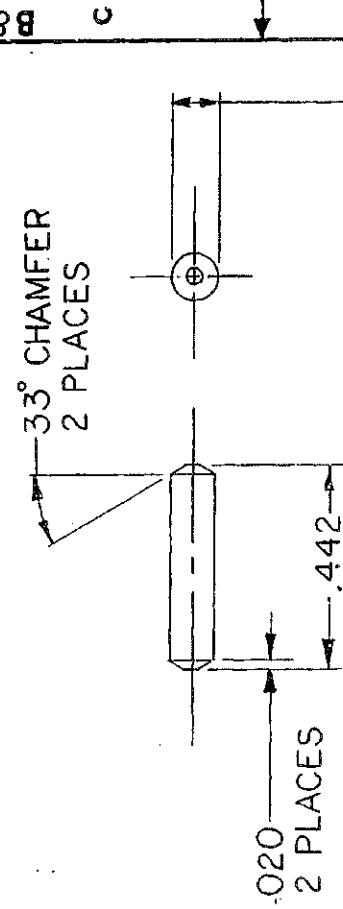
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4

1

REVISIONS

MF ZONE	LTR	DESCRIPTION	DATE APPROVED
M		REDRAWN FROM COLT'S DRAWING C61563 REV C	27 APR 70
-M	A	(3) SEE ERR HQR 2077 8	6 OCT 72 R.C. H
B	NOR W9S2009	80-02-13	80-05-16 R.C. H
C	ERR Z9Z1251Y (ECP 68S2073/890110		900622 ORE-COE
D	NOR G1S2018	91 07 08	91-10-11 RR H
E	NOR G2S3025	920330	920427 R.SL H



B

.1000 DIA ± .0003 32/
DIAMETER AFTER
FINISH .1001 + .0010.

CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
FACILITY: ROCK ISLAND ARSENAL, NEW JERSEY 07806-5000

MECHANICAL PROPERTIES		SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	
YS MIN	8448509	M4	ANGLES ± 3 PLACE DECIMALS ±.005	PREP B.R.S.	A.J.S.
YS MAX	C9327073	M231	2 PLACE DECIMALS ± MATERIAL	CHK D.H.W.	H.L.
EL2		M16		ENGR D.S.	D.B.
RA	C8448509	M16AI	TOOL STEEL CLASS S2 ASTM-A681	SUBMITTED F.P. GILHOOY	DRAWING NO.
BH	NEXT ASSY	USED ON	FINAL PROTECTIVE FINISH	APPROVED	
RH	15N	APPLICATION	SEE NOTE 4	K.S. HENRY	

AMSW Form 403B, 29 Jul 69
October 18, 2004 10:55 AM

CDI SCANNED DUPLICATE ORIGINAL
SHEET 4/1 SHEET 1 OF 1

A

CDI SCANNED DUPLICATE ORIGINAL
SHEET 4/1 SHEET 1 OF 1

REVISIONS			
MF	ZONE	LTR	DESCRIPTION
A	NOV 25 1965	2	82-05-21
B	NORGIS 2018	91 07 08	83-22-03 91-10-11 R3d

NOTE:
MIL-W-13855 APPLIES.

5 4 3 2 1

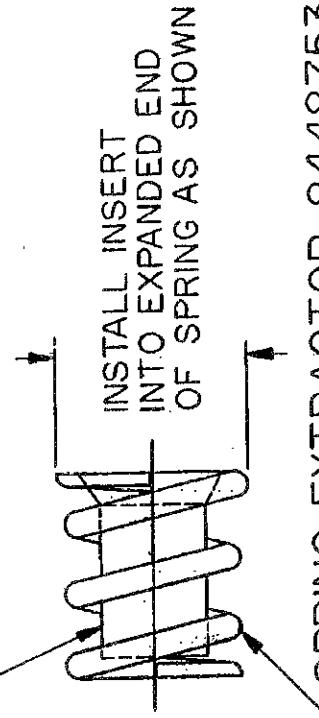
D

SEE PL 8448755

NOTE:
MIL-W-13855 APPLIES.

NOTE:
MIL-W-13855 APPLIES.

INSERT-8448754



SPRING, EXTRACTOR-8448753

CURRENT DESIGN ACTIVITY ESCM NO. 19200
U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

PART NO. 8448755

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO:	DEPT OF THE ARMY
YS	TOLERANCES:	DATE	U.S. ARMY WEAPONS COMMAND
MIN	ANGLES	11-14 NOV 71	ROCK ISLAND, ILLINOIS, 61201
MAX	3 PLACE DECIMALS ± —	PREP T.H. <i>[Signature]</i>	'SPRING ASSY,
EL2	2 PLACE DECIMALS ± —	CHK J. F. <i>[Signature]</i>	EXTRACTOR
RA	MATERIAL	ENGR D. C. <i>[Signature]</i>	SUBMITTED
BH	MI6A1	Q. Q. <i>[Signature]</i>	CODE IDENT NO. DRAWING NO.
RH	NEXT ASSY USED ON APPLICATION	APPROVED P. S. <i>[Signature]</i>	B 19204 8448755
RH		SCALE 10/1	1 OF 1

AMSWE Form 403B, 13 Nov 70

EDITION OF 29 JUL 69 MAY BE USED.

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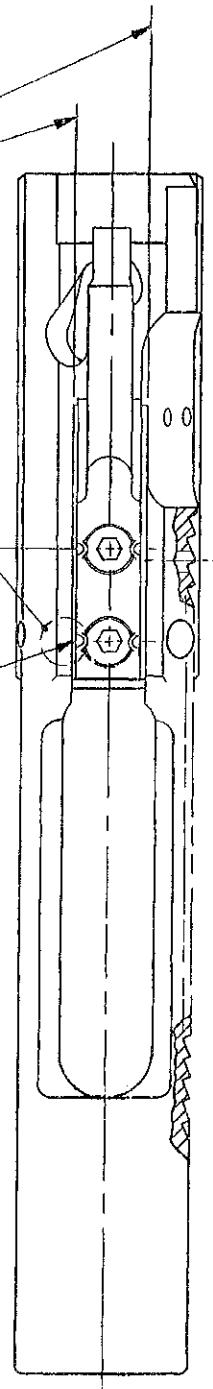
- STAKE 4 PLACES - STAKE EACH SCREW
 (2) PLACES SIMULTANEOUSLY, STAKES
 TO BE $180^\circ \pm 5^\circ$ OPPOSED. DEPTH TO BE
 SUFFICIENT TO GIVE A REMOVAL
 TORQUE OF 55 TO 100 IN. LB.

NO DISTORTION PERMISSIBLE
 ON THESE SURFACES

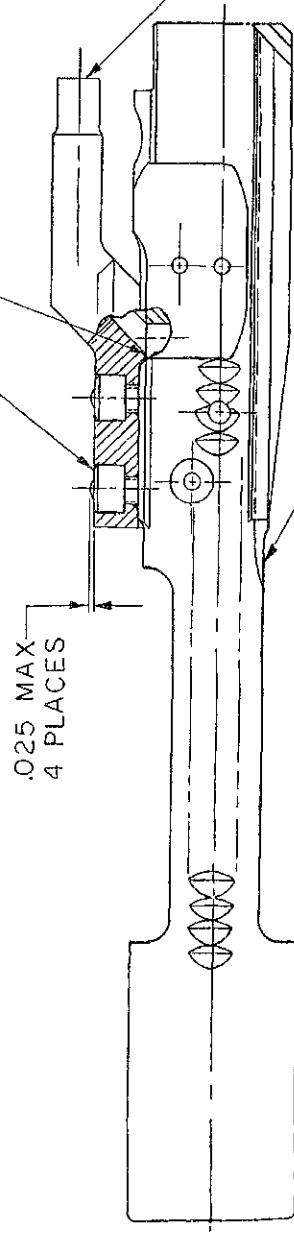
.01, 4 PLACES

- SEE VIEW B
- 2-SCREW, CAP, HEX SOCKET HEAD — 8448508
 TIGHTENING TORQUE 58 LB IN.-8 LB IN.

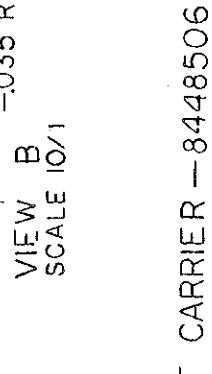
WF ZONE LTR	DESCRIPTION	DATE	APP'D
A	REDRAWN FROM COLT'S DRAWING C 62286 REVISION C	27 APR 70	
A	SEE ERR HQR 20778	6 OCT 72	ORC
B	NOB/H-230265	03-02-02	BSM/PW
C NOR GIS2018	91 07 08	91-10-11	CE
D NOR G2S2012/320330	--	9204-9 FR	
E NOR G2S3034/920408	--	920707R	CE
F NOR G2S3056/92-07-16	--	92-0-01 CE	
G NOR G2S3081/92 09-01	--	93-0108 CE	
H NOR G3S3007 930305	--	930402 CE	
J NOR G6S3024	960426	961023 MG	



APPLY PERMATEX NO. 3D
 AVIATION FORM-A-GASKET
 (LIQUID) AROUND GAS HOLE
 ONLY ON BOLT CARRIER
 PRIOR TO ASSEMBLY.
 SEE NOTE 2



VIEW B
 SCALE 10/1



KEY, BOLT CARRIER R - 8448506

CURRENT DESIGN ACTIVITY CODE 192000
 ARMAMENT, RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
 PATRIOTIC ARSENAL, NEW JERSEY 07056-5000

SEE PL - 8448505

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES	CONTRACT NO	DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201
YS MIN	ANGLES \pm 3 PLACE DECIMALS $\pm .005$		
YS MAX	DECIMALS $\pm .01$		
EL-2	MATERIAL	DATE 27 APR 1970	PREPARED R.E.B. R.J. AT
RA	8448501 M4		CHECHED <i>R.E.B.</i> <i>R.J. At</i>
SH	M16		ENGINEERED <i>R.E.B.</i>
RH	D8448501 M16		SUBMITTED <i>R.E.B.</i>
			APPROVED <i>R.E.B.</i>
	NEXT ASSY USED ON FINAL PROTECTIVE FINISH		
	APPLICATION		

NOTE:

1. MIL-W-13855 APPLIES. (A)
 2. ALTERNATIVE MATERIAL:
 MIL-S-45180 TYPE III

KEY AND BOLT
 CARRIER ASSEMBLY

SIZE CODE IDENT NO DRAWING NO.
 C 19204 8448505

SCALE 2 : 1 SHEET OF 1
 CDL

DISTRIBUTION STATEMENT E
 FURTHER DISSEMINATION ONLY AS DIRECTED BY ARDEC, SMAG-ESW, ROCK
 ISLAND, IL 61201, AUTHORITY 920323.

AMSAW Form 403C, 29 Jul 69
 October 18, 2004 7:14 AM

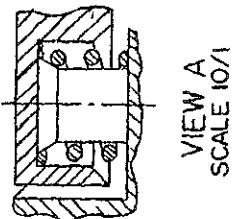
DRAWING SIZE C 4

NOTES:-

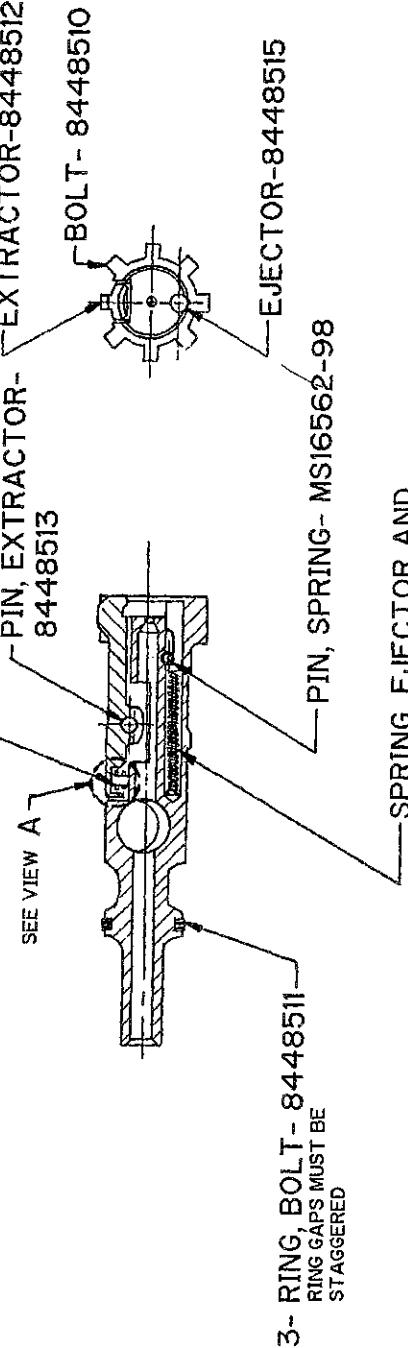
1- MIL-W-13855 APPLIES.

ZONE	REV	DESCRIPTION	DATE (R/MO DAY APPROVED)
	-	PRODUCT BASELINE ERR G5S3081	951211 HIS

-SPRING ASSY, EXTRACTOR- 12972692
FLARED END OF SPRING MUST BE BOTTOMED
IN EXTRACTOR AS SHOWN IN VIEW A.



VIEW A
SCALE 10/1



3- RING, BOLT - 8
RING GAPS MUST BE
STAGGERED

-SPRING, EJECTOR AND
SAFETY DETENT- 8448516

PART NO. 12972691

PART NO. 12972691		DESIGN ACTIVITY U.S. ARMY ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER PIQUATARY ARSENAL, NEW JERSEY 07805-5000	
BOLT ASSEMBLY			
P/N/MC		CONTRACT NUMBER	
		30 NO. SCALE DRAWING	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN. INCHES TOLERANCES ON DECIMAL FRAC.	
MECHANICAL PROPERTIES		CONTRACTOR	
YP		DRAWN BY HUS DATE 10-19-04	
TS		951211	
EL2		CHECKED BY ENGR	
RA		DRAFTING APPROVAL	
BH		DESIGN APPROVAL	
RH		MATERIALS APPROVAL	
12011849		NEXT ASSY USED ON	
M4/M4A1		MATERIALS	
APPLICATION		CAGE CODE 13200	
RH		SCALE 2/1	
		IN. WT. 65	
		SHEET 1	

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HIGHER DOD AUTHORITY: 92-06-22.

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FURTHER DISTRIBUTION ONLY
AS DIRECTED BY ASQNC-4 OR
HIGHER DOD AUTHORITY. 92-06-22

SMCAR FORM 67-1 DEC 87(TEMP). REPLACES SMCAR FORM 67-1 MAR 87(TEMP).
WHICH MAY BE USED UNTIL EXHAUSTED.

1

2

3

4

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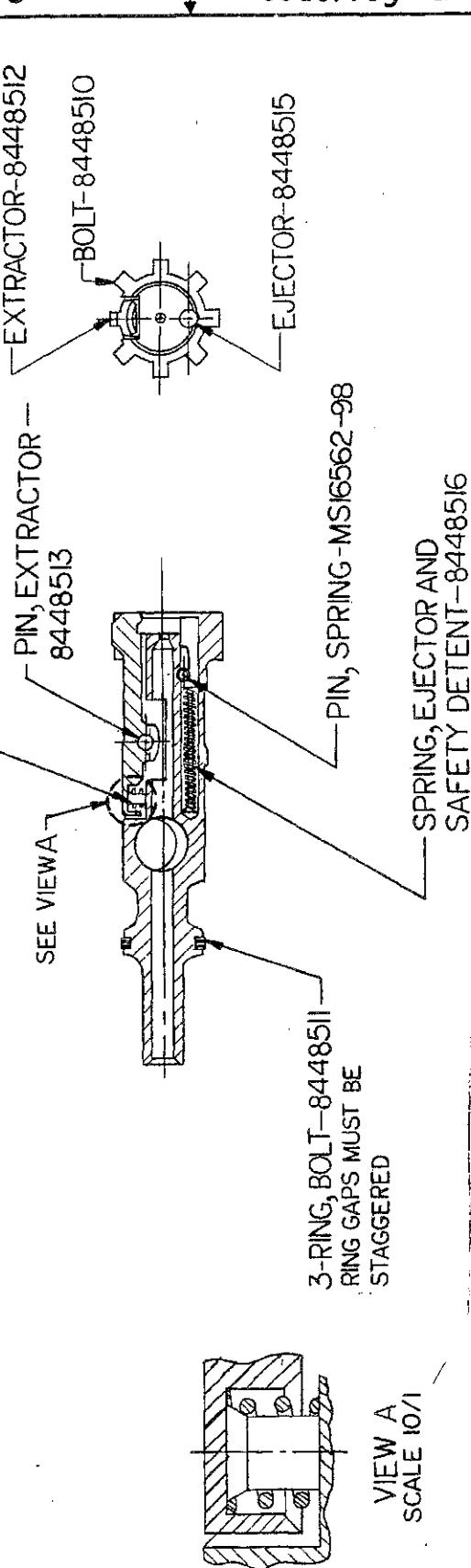
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NOTES:

- MIL-W-13855 APPLIES.

SPRING ASSY, EXTRACTOR-8448755
FLARED END OF SPRING MUST BE BOTTOMED
IN EXTRACTOR AS SHOWN IN VIEW A.

REF.	REV.	ZONE LTR.	DESCRIPTION	DATE APPROVED
A	M	D	REPLACES REV C WHICH CHANGE SEE FRR NOR-20778	6 OCT 72 RC
	E	NORW250020	82-06-09	63-02-03 LAH 8140
F	NOR W25 0026 /	82-05-21	83-09-24 R.P. 101	
G	NOR GIS2018	81-07-08	91-10-11 R.P. 101	
H	NOR G2S3059/920716	92-08-11 AJL	92-08-11 AJL	
	IECPG2S3060/9206-30)			



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SEE PL-8448509

CURRENT DESIGN ACTIVITY FSCM No. 19200
U.S. ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801
PART NO. 8448509

MECHANICAL PROPERTIES	UNLESS OTHERWISE SPECIFIED TOLERANCES ARE IN INCHES			CONTRACT NO:
	ANGLES 3 PLACE DECIMALS	2 PLACE DECIMALS	MATERIAL	
YS				DATE 27 APR 1970
MIN				PREPARED BY S. L. [unclear] CHECKED [unclear] R. [unclear] ENGINEER R. C. [unclear]
MAX				SUBMITTED [unclear]
EL.2				
RA	8448501	M4		
BH		M16		
RH	D8448501	M16 AL		
			FINAL PROTECTIVE FINISH	APPROVED
			APPLICATION	R. J. Henry
				SCALE 2/1 C 19204 8448509
				SHEET 1 OF 1

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NOTE:

- 1 FINISH 125° EXCEPT AS NOTED.
- 2 SUGGESTED HEAT TREAT PROCEDURE:
OIL QUENCH FROM 1575°F. TEMPER
AT 1100°F FOR 1 HOUR.
- 3 FINISH 122.2 OF MIL-STD-171 ON DIA
[EA] AND [EC]. FILM THICKNESS
.0002-.0003.
- 4 ALL OTHER SURFACES TO RECEIVE
FINISH 5.3.12 OF MIL-STD-171.
- 5 BREAK SHARP EDGES .005+.010.
- 6 MIL-W-13855 APPLIES.
7. FOR GAGING PURPOSES ONLY, THE DEPTH
OF PENETRATION OF A.1158 -.0002 GAGE PIN
SHALL BE 1.00 MIN TO 1.05 MAX.

REVISIONS:

REV.	DESCRIPTION	DATE APPROVED
A	REDRAWN FROM COLT'S DRAWING D61547 REV D	27APR70
B	C SEE ED HOR 10631	20 FEB 71
C	C SEE ED HOR 50604	6 OCT 71 C.R.C.
D	D 402-62-220005	28-05-72
E	E FDR 729172955 (ECP 605310/900709)	9/11/81 V3
F	F NOR 005346-301011	9/10/80 F.C.E.
G	G NOR GIS2018 910708	9-10-11 F.C.E.
H	H NOR GS5059 320716	52-08-11 A.I.L.
J	J NOR 6653142 961024	9/21/85 J.B.

SECTION E-E

SECTION J-J

SECTION A-A

KEY, BOLT CARRIER

ITEM	DESCRIPTION	QUANTITY	REF.
1	COLLAR	1	FIG. 1
2	SCREW	1	FIG. 2
3	SCREW	1	FIG. 2
4	SCREW	1	FIG. 2
5	SCREW	1	FIG. 2
6	SCREW	1	FIG. 2
7	SCREW	1	FIG. 2
8	SCREW	1	FIG. 2
9	SCREW	1	FIG. 2
10	SCREW	1	FIG. 2
11	SCREW	1	FIG. 2
12	SCREW	1	FIG. 2
13	SCREW	1	FIG. 2
14	SCREW	1	FIG. 2
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17	SCREW	1	FIG. 2
18	SCREW	1	FIG. 2
19	SCREW	1	FIG. 2
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21	SCREW	1	FIG. 2
22	SCREW	1	FIG. 2
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24	SCREW	1	FIG. 2
25	SCREW	1	FIG. 2
26	SCREW	1	FIG. 2
27	SCREW	1	FIG. 2
28	SCREW	1	FIG. 2
29	SCREW	1	FIG. 2
30	SCREW	1	FIG. 2
31	SCREW	1	FIG. 2
32	SCREW	1	FIG. 2
33	SCREW	1	FIG. 2
34	SCREW	1	FIG. 2
35	SCREW	1	FIG. 2
36	SCREW	1	FIG. 2
37	SCREW	1	FIG. 2
38	SCREW	1	FIG. 2
39	SCREW	1	FIG. 2
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253	SCREW	1	FIG. 2
254	SCREW	1	FIG. 2
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290	SCREW	1	FIG. 2
291	SCREW	1	FIG. 2
292	SCREW	1	FIG. 2
293	SCREW	1	FIG. 2
294	SCREW	1	FIG. 2
295	SCREW	1	FIG. 2
296	SCREW	1	FIG. 2
297	SCREW	1	FIG. 2
298	SCREW	1	FIG. 2
299	SCREW	1	FIG. 2
300	SCREW	1	FIG. 2
301	SCREW	1	FIG. 2
302	SCREW	1	FIG. 2
303	SCREW	1	FIG. 2
304	SCREW	1	FIG. 2

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DECLASSIFICATION PURSUANT TO THE UNITED STATES GOVERNMENT'S AUTOMATIC
DECLASSIFICATION SCHEDULE.

.005 R MAX
.020 R, 4 PLACES
.125 R ±.010

SEE VIEW V

465 R, BOTH SIDES

.0002

32.4 GRIND AFTER HEAT TREAT
420 ±.002
11.61002
11.61001

.015 R, 4 PLACES

2 PLACES

.870

2 PLACES

.63

2 PLACES

.003 MAX BOTH SIDES

ALLOWABLE MISMATCH
AS SHOWN

VIEW V

SCALE: 30:1

SECTION X-X
(SH 1, ZONE B-1)

D REF

ANGLE ADVANCE
BASIC ±.002
0 .042
1/4 .044
1/2 .046
1 1/2 .050
2 1/2 .057
3 .065
3 1/2 .069
4 .073
4 1/2 .076
5 .080
5 1/2 .084
6 .086
6 1/2 .092
7 1/2 .096
8 .103
8 1/2 .107
9 .111
9 1/2 .114
10 .118
10 1/2 .122
11 .126
11 1/2 .130
12 .134
12 1/2 .137
13 .141
13 1/2 .145
14 .142
14 1/2 .149
15 .157
15 1/2 .161
16 .164
16 1/2 .168
17 .172
17 1/2 .175
18 .179
18 1/2 .183
19 .187
19 1/2 .190
20 .195
20 1/2 .200
21 .207
21 1/2 .214
22 .216
22 1/2 .235
23 .255

.005 R MAX
.023 DIA ±.0003
MIN DIA AFTER FINISH .2514
NOTE 6 APPLIES

SECTION E-E
VIEW E

.0002

32.4 GRIND AFTER HEAT TREAT
420 ±.002
11.61002
11.61001

.015 R, 4 PLACES

2 PLACES

.870

2 PLACES

.63

2 PLACES

.003 MAX BOTH SIDES

ALLOWABLE MISMATCH
AS SHOWN

VIEW E

SCALE: 30:1

SECTION E-E
VIEW E

D REF

ANGLE ADVANCE
BASIC ±.002
0 .042
1/4 .044
1/2 .046
1 1/2 .050
2 1/2 .057
3 .065
3 1/2 .069
4 .073
4 1/2 .076
5 .080
5 1/2 .084
6 .086
6 1/2 .092
7 1/2 .096
8 .103
8 1/2 .107
9 .111
9 1/2 .114
10 .118
10 1/2 .122
11 .126
11 1/2 .130
12 .134
12 1/2 .137
13 .141
13 1/2 .145
14 .142
14 1/2 .149
15 .157
15 1/2 .161
16 .164
16 1/2 .168
17 .172
17 1/2 .175
18 .179
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19 .187
19 1/2 .190
20 .195
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21 .207
21 1/2 .214
22 .216
22 1/2 .235
23 .255

.005 R MAX
.023 DIA ±.0003
MIN DIA AFTER FINISH .2514
NOTE 6 APPLIES

SECTION E-E
VIEW E

.0002

32.4 GRIND AFTER HEAT TREAT
420 ±.002
11.61002
11.61001

.015 R, 4 PLACES

2 PLACES

.870

2 PLACES

.63

2 PLACES

.003 MAX BOTH SIDES

ALLOWABLE MISMATCH
AS SHOWN

VIEW E

SCALE: 30:1

SECTION E-E
VIEW E

D REF

ANGLE ADVANCE
BASIC ±.002
0 .042
1/4 .044
1/2 .046
1 1/2 .050
2 1/2 .057
3 .065
3 1/2 .069
4 .073
4 1/2 .076
5 .080
5 1/2 .084
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6 1/2 .092
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11 .126
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12 1/2 .137
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13 1/2 .145
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14 1/2 .149
15 .157
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19 .187
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20 .195
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21 .207
21 1/2 .214
22 .216
22 1/2 .235
23 .255

.005 R MAX
.023 DIA ±.0003
MIN DIA AFTER FINISH .2514
NOTE 6 APPLIES

SECTION E-E
VIEW E

.0002

32.4 GRIND AFTER HEAT TREAT
420 ±.002
11.61002
11.61001

.015 R, 4 PLACES

2 PLACES

.870

2 PLACES

.63

2 PLACES

.003 MAX BOTH SIDES

ALLOWABLE MISMATCH
AS SHOWN

VIEW E

SCALE: 30:1

SECTION E-E
VIEW E

D REF

ANGLE ADVANCE
BASIC ±.002
0 .042
1/4 .044
1/2 .046
1 1/2 .050
2 1/2 .057
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5 .080
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21 .207
21 1/2 .214
22 .216
22 1/2 .235
23 .255

.005 R MAX
.023 DIA ±.0003
MIN DIA AFTER FINISH .2514
NOTE 6 APPLIES

SECTION E-E
VIEW E

.0002

32.4 GRIND AFTER HEAT TREAT
420 ±.002
11.61002
11.61001

.015 R, 4 PLACES

2 PLACES

.870

2 PLACES

.63

2 PLACES

.003 MAX BOTH SIDES

ALLOWABLE MISMATCH
AS SHOWN

VIEW E

SCALE: 30:1

SECTION E-E
VIEW E

D REF

ANGLE ADVANCE
BASIC ±.002
0 .042
1/4 .044
1/2 .046
1 1/2 .050
2 1/2 .057
3 .065
3 1/2 .069
4 .073
4 1/2 .076
5 .080
5 1/2 .084
6 .086
6 1/2 .092
7 1/2 .096
8 .103
8 1/2 .107
9 .111
9 1/2 .114
10 .118
10 1/2 .122
11 .126
11 1/2 .130
12 .134
12 1/2 .137
13 .141
13 1/2 .145
14 .142
14 1/2 .149
15 .157
15 1/2 .161
16 .164
16 1/2 .168
17 .172
17 1/2 .175
18 .179
18 1/2 .183
19 .187
19 1/2 .190
20 .195
20 1/2 .200
21 .207
21 1/2 .214
22 .216
22 1/2 .235
23 .255

.005 R MAX
.023 DIA ±.0003
MIN DIA AFTER FINISH .2514
NOTE 6 APPLIES

SECTION E-E
VIEW E

.0002

32.4 GRIND AFTER HEAT TREAT
420 ±.002
11.61002
11.61001

.015 R, 4 PLACES

2 PLACES

.870

2 PLACES

.63

2 PLACES

.003 MAX BOTH SIDES

ALLOWABLE MISMATCH
AS SHOWN

VIEW E

SCALE: 30:1

SECTION E-E
VIEW E

D REF

ANGLE ADVANCE
BASIC ±.002
0 .042
1/4 .044
1/2 .046
1 1/2 .050
2 1/2 .057
3 .065
3 1/2 .069
4 .073
4 1/2 .076
5 .080
5 1/2 .084
6 .086
6 1/2 .092
7 1/2 .096
8 .103
8 1/2 .107
9 .111
9 1/2 .114
10 .118
10 1/2 .122
11 .126
11 1/2 .130
12 .134
12 1/2 .137
13 .141
13 1/2 .145
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VIEW E

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420 ±.002
11.61002
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SCALE: 30:1

SECTION E-E
VIEW E

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ANGLE ADVANCE
BASIC ±.002
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1/4 .044
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ALLOWABLE MISMATCH
AS SHOWN

VIEW E

SCALE: 30:1

SECTION E-E
VIEW E

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BASIC ±.002
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.005 R MAX
.023 DIA ±.0003
MIN DIA AFTER FINISH .2514
NOTE 6 APPLIES

SECTION E-E
VIEW E

.0002

32.4 GRIND AFTER HEAT TREAT
420 ±.002
11.61002
11.61001

.015 R, 4 PLACES

2 PLACES

.870

2 PLACES

.63

2 PLACES

.003 MAX BOTH SIDES

ALLOWABLE MISMATCH
AS SHOWN

VIEW E

SCALE: 30:1

SECTION E-E
VIEW E

D REF

ANGLE ADVANCE
BASIC ±.002
0 .042
1/4 .044
1/2 .046
1 1/2 .050
2 1/2 .057
3 .065
3 1/2 .069
4 .073
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.005 R MAX
.023 DIA ±.0003
MIN DIA AFTER FINISH .2514
NOTE 6 APPLIES

SECTION E-E
VIEW E

.0002

32.4 GRIND AFTER HEAT TREAT
420 ±.002
11.61002
11.61001

.015 R, 4 PLACES

2 PLACES

.870

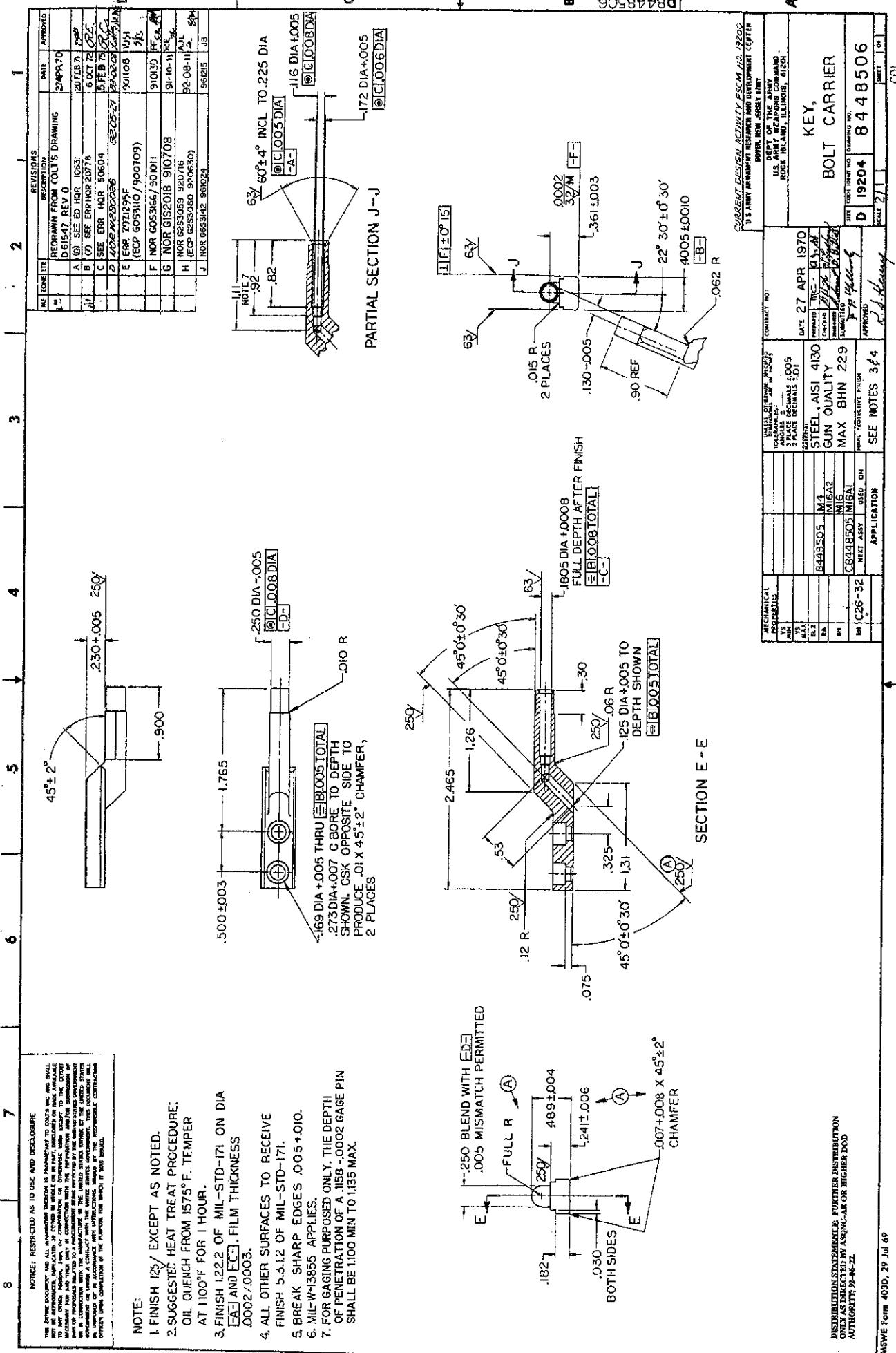
2 PLACES

.63

2 PLACES

.003 MAX BOTH SIDES

ALLOWABLE MISMATCH
AS SHOWN



NOTE:

1. STEEL, CORROSION-RESISTANT,
PER AMS 5906 OR 5913,
THICKNESS .016±.001.
2. FINISH $125\sqrt{}$ EXCEPT AS
NOTED IN NOTE 4.
3. EDGES TO BE SHARP TO
.005 R MAX.
4. MAX DIE BREAK ON $-B-$
TO BE 50% FINISH ON
SHEARED SURFACE TO
BE $63\sqrt{}$.
5. FINISH 5.4.1 OF
MIL-STD-171.
6. MIL-W-13855 APPLIES.

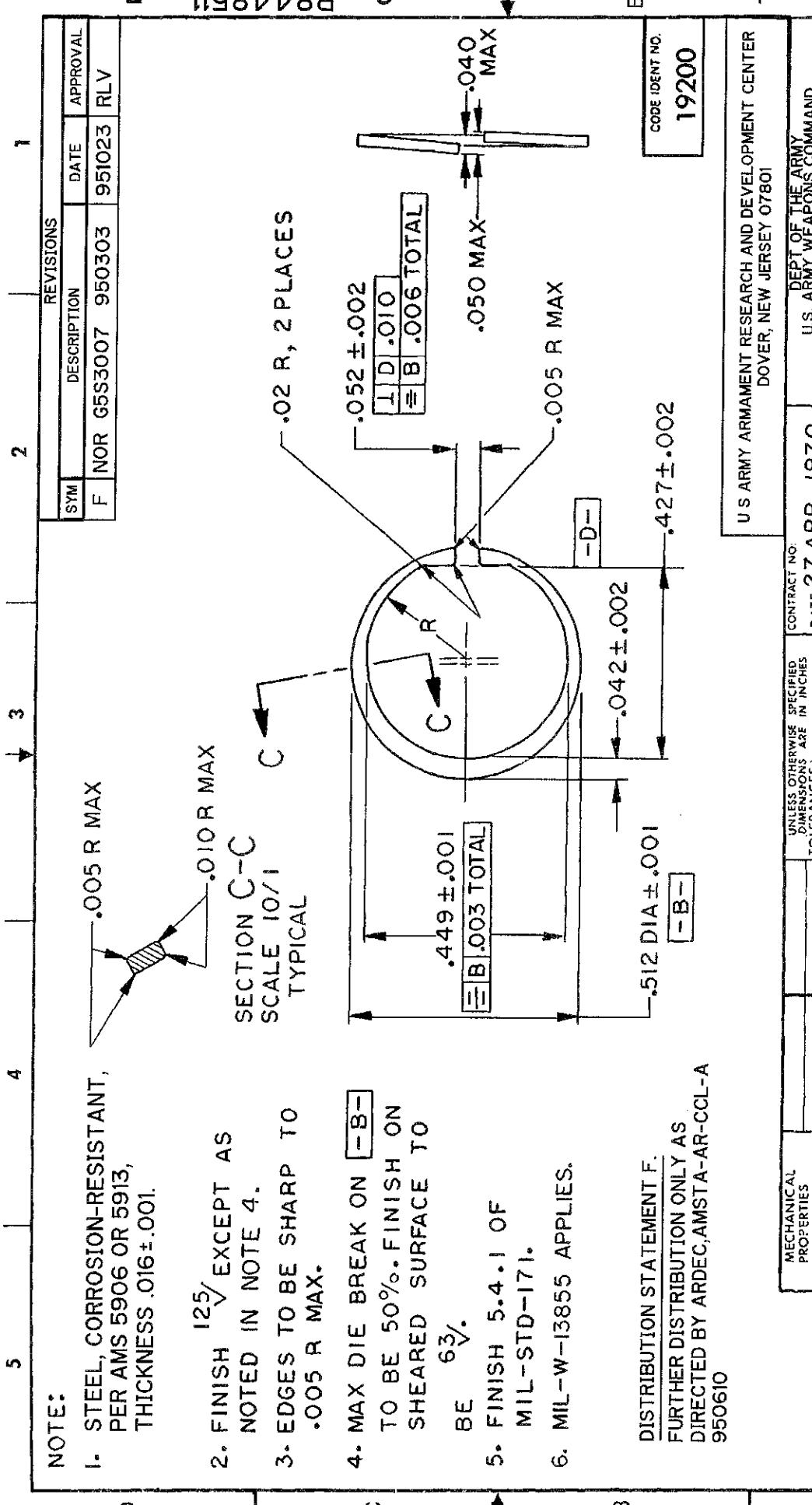
C $125\sqrt{}$ EXCEPT AS
NOTED IN NOTE 4.
3. EDGES TO BE SHARP TO
.005 R MAX.

D $125\sqrt{}$ EXCEPT AS
NOTED IN NOTE 4.
3. EDGES TO BE SHARP TO
.005 R MAX.

C $125\sqrt{}$ EXCEPT AS
NOTED IN NOTE 4.
3. EDGES TO BE SHARP TO
.005 R MAX.

D $125\sqrt{}$ EXCEPT AS
NOTED IN NOTE 4.
3. EDGES TO BE SHARP TO
.005 R MAX.

B DISTRIBUTION STATEMENT F.
FURTHER DISTRIBUTION ONLY AS
DIRECTED BY ARDEC, AMSTA-AIR-CCL-A
950610



MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.	
YS MIN	8448509	M 4	ANGLES °	DATE	27 APR 1970
YS MAX	C9327073	M 231	3 PLACE DECIMALS ± .01	PREP	G&H Q.Q. 046
EL 2		M 16	2 PLACE DECIMALS ± .01	CHK	<i>John P. Gillen</i>
RA		M 16A1	MATERIAL	ENGR	<i>John P. Gillen</i>
BH			SEE NOTE 1	SUBMITTED	<i>John P. Gillen</i>
RH			FINAL PROTECTIVE FINISH	DRAWING NO.	RING, BOLT
			SEE NOTE 5	CODE IDENT NO.	B 19204 8448511
			APPLICATION	SCALE	5 / 1
				SHEET	1 or 1
				CDI	

