

Each small arms cleaning kit for **M16 Series Rifles** shall be composed of one of each of the following items except as noted:

Nomenclature	NSN	Part Number
BOTTLE, 0.5 OZ. CYLINDRICAL, FOR SEMI-FLUID LUBRICATING OIL	1005-00-242-5687	8448444
BRUSH, CLEANING, SMALL ARMS	1005-00-903-1296	11686340
BRUSH, CHAMBER CLEANING	1005-00-999-1435	8432358
BRUSH, CLEANING, GENERAL PURPOSE	1005-00-494-6602	8448462
CASE, SMALL ARMS ACCESSORIES	1005-00-403-5804	8448751
HANDLE ASSEMBLY	1005-01-113-0321	8436776
ROD SECTION, CLEANING, SMALL ARMS ¹	1005-00-050-6357	8436775
SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD	1005-00-937-2250	11686327
SWAB, SMALL ARMS CLEANING: 5.56 MM ²	1005-00-912-4248	11686408
PIPE CLEANER ³	9920-00-292-9946	840507

Each small arms cleaning kit for **M4 Series Carbines** shall be composed of one of each of the following items except as noted:

Nomenclature	NSN	Part Number
BOTTLE, 0.5 OZ. CYLINDRICAL, FOR SEMI-FLUID LUBRICATING OIL	1005-00-242-5687	8448444
BRUSH, CLEANING, SMALL ARMS	1005-00-903-1296	11686340
BRUSH, CHAMBER CLEANING	1005-00-999-1435	8432358
BRUSH, CLEANING, GENERAL PURPOSE	1005-00-494-6602	8448462
CASE, MAINTENANCE EQUIPMENT, SMALL ARMS (FOR USE WITH NON-STOWAGE BUTTSTOCK ONLY)	8465-00-781-9564	<i>Per MIL-C-43737</i>
HANDLE ASSEMBLY	1005-01-113-0321	8436776
ROD SECTION, CLEANING, SMALL ARMS ¹	1005-00-050-6357	8436775
SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD	1005-00-937-2250	11686327
SWAB, SMALL ARMS CLEANING: 5.56 MM ²	1005-00-912-4248	11686408
PIPE CLEANER ³	9920-00-292-9946	840507

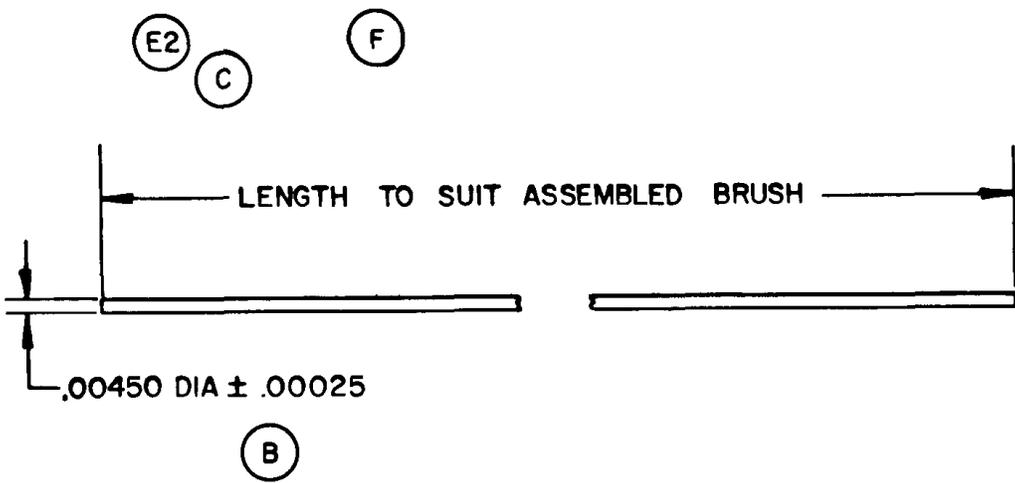
¹ Quantity = 3 sections.

² Quantity = 10 swabs.

³ Quantity = 4 cleaners.

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

MECHANICAL PROPERTIES	DO NOT DO-	APPLY PART NO AS SPECIFIED	REVISIONS			
			SYM	DESCRIPTION	DATE	APPROVAL
YP		APPLICATION	16		1-29-58	
TS		NEXT ASSY USED ON				
EL2		SEE ENGINEERING RECORDS	A	REDRAWN AND REVISED SEE EO NO. SA27167	20 SEP 63	RE Aho
RA						
BH		C7162132 BRUSH,CAL38	B	SEE EO NO. SA27218	19 JUN 64	[Signature]
		C5564174 BRUSH,CAL30	C	(1) SEE EO NO. SA28327	23 JUL 65	[Signature]
RH		BRUSH,SM	D	SEE EO RIA - 14411	9-22-67	[Signature]
		C11686340 ARMS	E	(1-2) SEE EO RIA - 14470	10-18-67	[Signature]
		C8432358 BRUSH,	F	(1) SEE ERR HQR 20747	11 AUG 72	[Signature]
		MI6/MI6AI	G	NOR G6S2014 960412	960716	FET



NOTE:
WIRE, COPPER ALLOY, NO. 510,
PER ASTM B159.

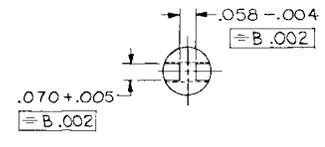
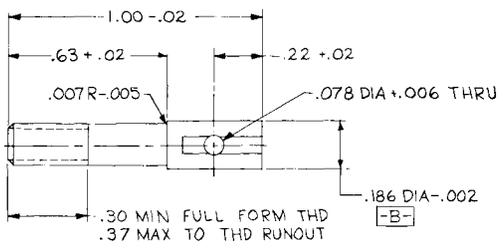
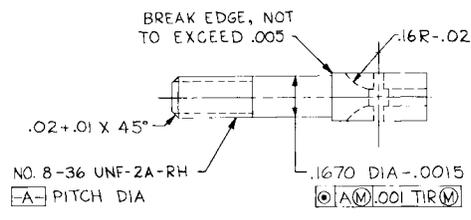
CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. **5013034**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING 15 JAN 35	DEPT OF THE ARMY ROCK ISLAND ARSENAL, ROCK ISLAND, ILL. 61201	
TOLERANCES ON FRACTIONS DECIMALS ANGLES + + + - - -	DRAFTSMAN <i>pac</i> CHECKER <i>Wes</i> TRACER <i>pac</i> CHECKER <i>Wes</i> ENGR <i>CR</i> ENGR <i>RE Aho</i>	WIRE, CLEANING BRUSH	
MATERIAL SEE NOTE	SUBMITTED <i>RE Aho</i>	CODE IDENT NO 19204	DWG SIZE A
HEAT TREATMENT	APPROVED <i>DA Lundstrom</i>	5013034	
FINAL PROTECTIVE FINISH		SCALE 20/1	UNIT WT SHEET OF

SWESP 1181-1
28 AUG 62

REVISIONS				
WF	SYM	DESCRIPTION	DATE	APPROVAL
	A	NOR W452081/84-12-29	85-04-08	<i>[Signature]</i>
	B	NOR 66S2014 / 960412	960716	FET



NOTES:

1. BRASS, COMP 360 HALF-HARD, PER ASTM B16.
2. FINISH $\sqrt{125}$ ALL OVER.
3. ALL EDGES SHALL BE BROKEN .005 + .005 UNLESS OTHERWISE SPECIFIED.

CURRENT DESIGN ACTIVITY FSCM NO.19200
 US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
 DOVER, NEW JERSEY 07801

PART NO. 8430367

ROCK ISLAND ARSENAL, ROCK ISLAND, ILL
 U.S. ARMY WEAPONS COMMAND

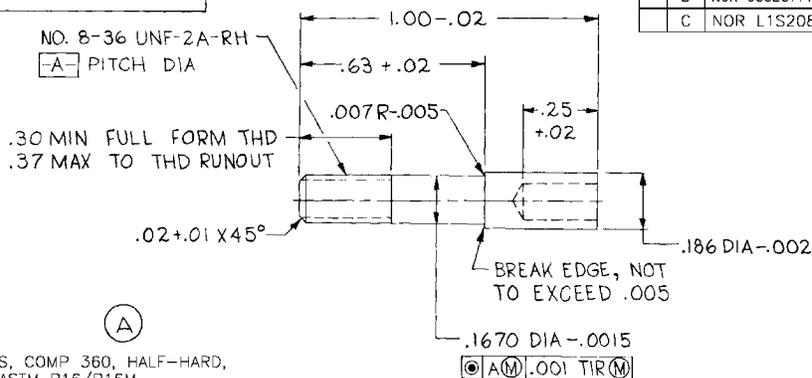
TIP

CODE IDENT NO. 19204 C
 8430367

SCALE 4/1 UNIT WT SHEET OF

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING DEC 13, 1965	
YP		RIFLE M1G,	TOLERANCES ON .XX ±	GRAFTSMAN D.A. GRIFFIN	CHECKER <i>[Signature]</i>
TS	CB432358	M1GAI, M1GAZ	ANGLES ± 2° .XXX ±	ENGINEER R.F.	C.A.C.
EL 2		SEE ENGINEERING RECORDS	SEE NOTE 1		
RA		NEXT ASSY USED ON	HEAT TREATMENT		
BH		APPLICATION	SUBMITTED <i>[Signature]</i>		
RH		DO NOT APPLY PART NO.	APPROVED <i>[Signature]</i>		
DO		AS-SPECIFIED	FINAL PROTECTIVE FINISH		

REVISIONS				
MF	SYM	DESCRIPTION	DATE	APPROVAL
	A	SEE EO RIA-1441	9 22 67	<i>[Signature]</i>
	B	NOR G6S2014 / 960412	960716	FET
	C	NOR L1S2084 010507	010607	RLV



NOTES:

(A)

- BRASS, COMP 360, HALF-HARD, PER ASTM B16/B16M.
- FINISH ^{125/} ALL OVER.
- ALL EDGES SHALL BE BROKEN .005 + .005 UNLESS OTHERWISE SPECIFIED.

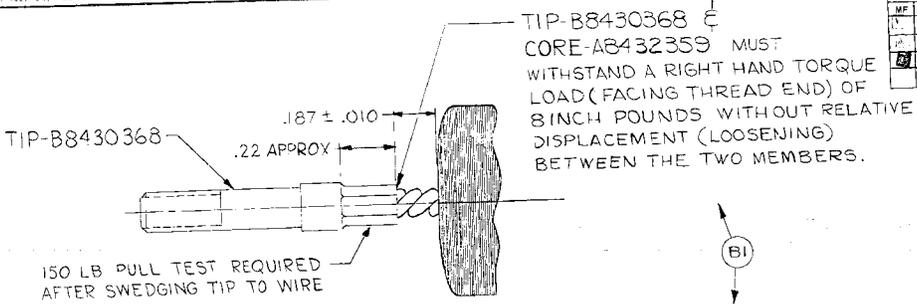
CURRENT DESIGN ACTIVITY CAGE CODE 19200
U.S. ARMY
ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 8430368

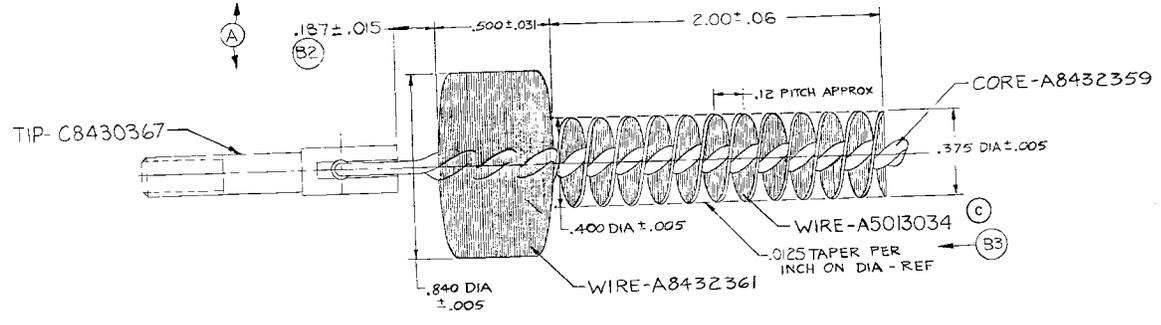
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YP		TOLERANCES ON	.XX ±	DRAFTSMAN	CHECKER	TIP	
TS	C8432358 RIFLE M16 E	ANGLES ±	2° .XXX ±	D.A. GRIFFIN	<i>[Signature]</i>		
EL 2	SEE ENGINEERING RECORDS	MATERIAL	SEE NOTE 1	TRACER	CHECKER	CODE IDENT NO. 19204 B SIZE 8430368	
RA	NEXT ASSY USED ON	HEAT TREATMENT		ENGINEER R.F.	ENGINEER C.A.C.		
BH	APPLICATION	FINAL PROTECTIVE FINISH		SUBMITTED		SCALE 4 / 1 UNIT WT SHEET OF	
RH	DO NOT APPLY PART NO.			APPROVED	<i>[Signature]</i>		
DE		***STANDARD		APPROVED			

B8430368

REVISONS		DATE	APPROVAL
1	A	12-13-65	MCH
2	B	6-2-67	GH
3	C	10-18-67	W. H. H.
4	D	1-25-73	W. B. T.



ALTERNATIVE DESIGN



QUANTITY OF BRISTLES (.0045 DIA) BY WEIGHT (UNTRIMMED) AT .40% CUT		QUANTITY OF BRISTLES (.006 DIA) BY WEIGHT (UNTRIMMED) AT 1.00% CUT	
METHOD OF TWISTING	WEIGHT	METHOD OF TWISTING	WEIGHT
MACHINE TWISTING	2.56 GRAM	MACHINE TWISTING	1.30 GRAM

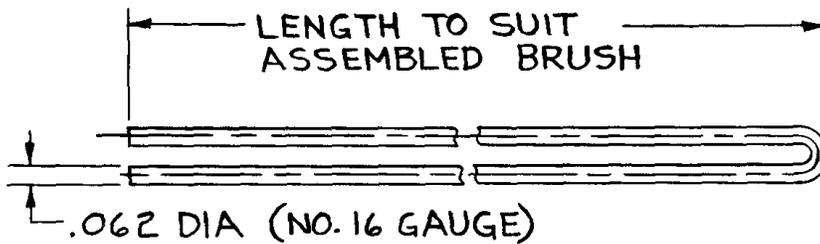
SEE PL-8432358

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING AUG 3, 1965		ROCK ISLAND ARSENAL, ROCK ISLAND, ILL U.S. ARMY WEAPONS COMMAND	
YP	AB448795	RIFLE, 5.56MM	TOLERANCES ON .XX ±	DRAFTSMAN SAF	CHECKER M. Hoover	BRUSH, CHAMBER CLEANING	
TS		MIG/MIGAI	ANGLES ± .XXX ±	TRADER	ENGINEER CAC		
EL 2		SEE ENGINEERING RECORDS	MATERIAL	ENGINEER			
RA		NEXT ASSY USED WITH APPLICATION	HEAT TREATMENT	SUBMITTED	FOSTER E. ADAMS	CODE IDENT NO. 19204	SIZE C
BH		DO NOT APPLY PART NO.	FINAL PROTECTIVE FINISH	APPROVED	ARNOLD A. KESTER	8432358	
RH		DO				SCALE	UNIT WT

C8432358

NOTICE.— When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever, and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

MECHANICAL PROPERTIES	DO NOT	APPLY PART NO. AS SPECIFIED	REVISIONS				
			MF	SYM	DESCRIPTION	DATE	APPROVAL
YP							
TS							
EL 2							
RA							
BH							
RH							



NOTE:

WIRE, STEEL, CARBON, COMP 1006, FINISH 5, TEMP SOFT, CLASS OPTIONAL, PER ASTM A641

OR

WIRE, STEEL, CORROSION RESISTING, FORM I, COMP 304 OR 305, COND. A, PER ASTM A580.

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

PART NO. 8432359

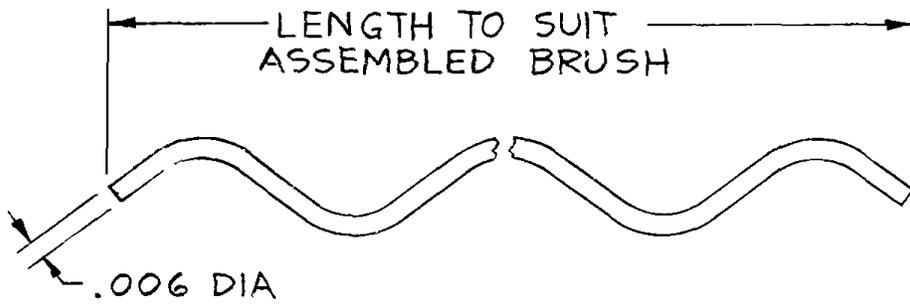
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON ANGLES .XX .XXX	ORIGINAL DATE OF DRAWING AUG 3, 1965	ROCK ISLAND ARSENAL, ROCK ISLAND, ILL U.S. ARMY WEAPONS COMMAND	
	DRAFTSMAN 297	CHECKER	CORE
MATERIAL SEE NOTE	TRACER	CHECKER	
HEAT TREATMENT	ENGR	ENGR	CODE IDENT NO 19204 SIZE A 8432359
FINAL PROTECTIVE FINISH	SUBMITTED	APPROVED	
			UNIT WT
			SHEET OF

00 FORM 1 APR 54 1181-3

↓ A 8432361

NOTICE - When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way suggested the said drawings, specifications or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

MECHANICAL PROPERTIES	DO NOT DO	APPLY PART NO. AS SPECIFIED	REVISIONS				
			MF	SYM	DESCRIPTION	DATE	APPROVAL
YP		APPLICATION					
TS		NEXT ASSY					
EL 2		USED ON					
RA		SEE ENGINEERING RECORDS					
BH		C8432358 RIFLE,					
RH		MIG & MICEI					



NOTE:
 WIRE, STEEL, CORROSION RESISTING,
 FORM I, COMP 304, COND B,
 SPEC QQ-W-423
 WIRE TO BE PIN CRIMPED.

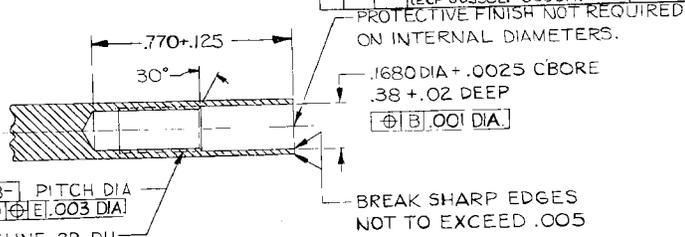
PART NO. 8432361

UNLESS OTHERWISE SPECIFIED	ORIGINAL DATE OF DRAWING AUG 3, 1965	ROCK ISLAND ARSENAL, ROCK ISLAND, ILL U.S. ARMY WEAPONS COMMAND	
DIMENSIONS ARE IN INCHES TOLERANCES ON ANGLES .XX .XXX	DRAFTSMAN SAF	CHECKER	
	TRACER	CHECKER	
MATERIAL SEE NOTE	ENGR	ENGR <i>etc</i>	WIRE
HEAT TREATMENT	SUBMITTED		
FINAL PROTECTIVE FINISH	APPROVED <i>Donald G. Kester</i>	CODE IDENT NO. 19204	SIZE A 8432361
		SCALE NONE	UNIT WT SHEET OF

NOTE:
 1. STEEL, COMP 1144 OR 1144, CONDITION COLD DRAWN AND STRESS RELIEVED (.15 TO .25 C_U PERMISSIBLE) SPEC ASTM A108. (A)

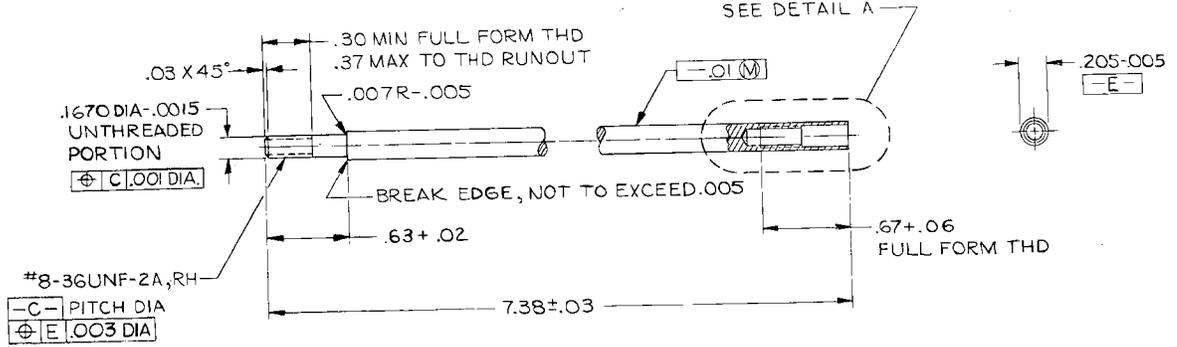
- 2. MACHINE FINISH AS DRAWN
- 3. ALL EXTERIOR EDGES SHALL BE BROKEN .005 + .005 UNLESS OTHERWISE SPECIFIED.
- 4. DIMENSIONS APPLY BEFORE PHOSPHATE COATING.
- 5. FINISH 5.3.1.2 OR 5.3.2.2 OF MIL-STD-171, ALKALINE CLEANING IS AUTHORIZED FOR CLEANING IN LIEU OF ABRASIVE BLASTING. FINISH COATING SHALL BE APPLIED WITHIN 4 HOURS OF EITHER CLEANING PROCESS.

REVISIONS				
NO	ZONE	DESCRIPTION	DATE	APPROVED
A		SEE FO RIA-14553	4 DEC 87	<i>[Signature]</i>
B		NOR W3S 2051783-11-04	85-02-06	<i>[Signature]</i>
C		ERR Z9Z1180G (ECP W602063 861009) (ECP 6753039 870316) (ECP 6653021 880314)	890823	<i>[Signature]</i>



-B- PITCH DIA
 PD ± .003 DIA
 #8 -36UNF-2B, RH

DETAIL A
 SCALE 4/1



-C- PITCH DIA
 ± .003 DIA
 #8-36UNF-2A, RH

CURRENT DESIGN ACTIVITY FSCM NO.19200
 US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
 DOVER, NEW JERSEY 07801

DEPT OF THE ARMY
 ROCK ISLAND ARSENAL ROCK ISLAND, ILL 61201

ROD SECTION, CLEANING,
 SMALL ARMS

DWG SIZE: C FSCM NO.: 19204 8436775
 SCALE: 2/1 UNIT WT: SHEET 1 OF 1

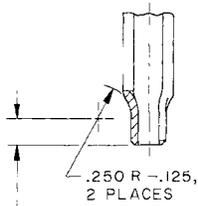
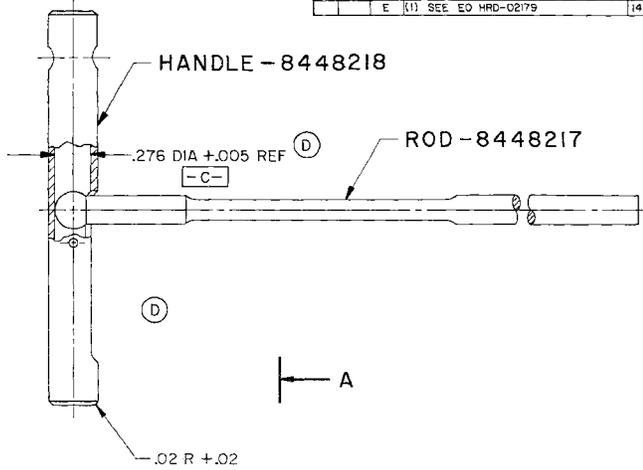
MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING JUNE 23, 1967	
YP	100,000 PSI MIN	TOLERANCES ON DECIMALS	XX # .01	DATE	<i>[Signature]</i>
TS		ANGLES	± 2°	CHECKED	<i>[Signature]</i>
EL 2		MATERIAL	SEE NOTE 1	DESIGNED	<i>[Signature]</i>
RA		HEAT TREATMENT		SUBMITTED	<i>[Signature]</i>
BH	M1E3 SM ARMS	FINAL PROTECTIVE FINISH	SEE NOTE 5	APPROVED	<i>[Signature]</i>
RH	D8436777 ROD, CLN.	APPLICATION			

SWER1 FORM 40 C 1 MAR 67

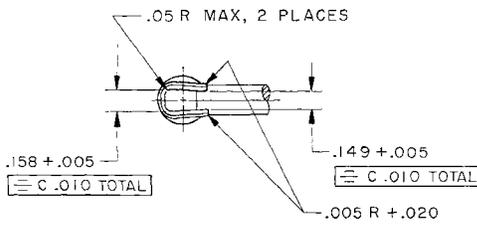
DUPLICATE ORIGINAL

NOTES:
 1. TOUCH UP FINISHES WHICH ARE DAMAGED OR REMOVED AS A RESULT OF FABRICATION OR ASSEMBLY OPERATIONS IN ACCORDANCE WITH NOTE 2.
 2. MIL-W-13855 APPLIES.

REVISIONS					
MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
		C	REDRAWN W/CHANGE	15 SEP 68	<i>Robert</i>
		D	SEE EO HRD 82156	30 DEC 68	<i>Robert</i>
		E	(1) SEE EO HRD 82365	14 JULY 70	<i>E. Hunter</i>



VIEW A
 END FORMED
 AFTER ASSEMBLY



FOR LIST OF PARTS, SEE ENGINEERING PARTS LISTS - 8436776

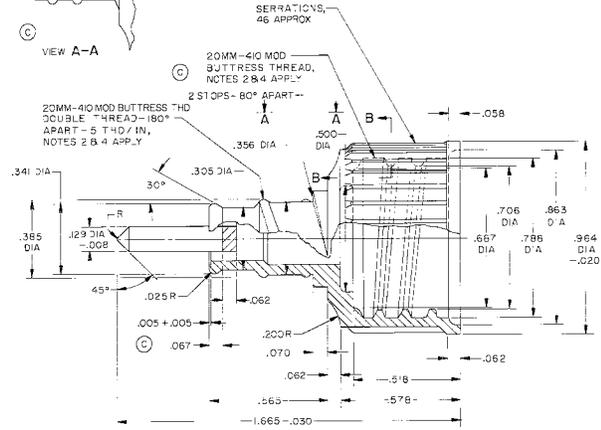
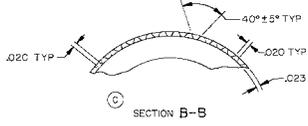
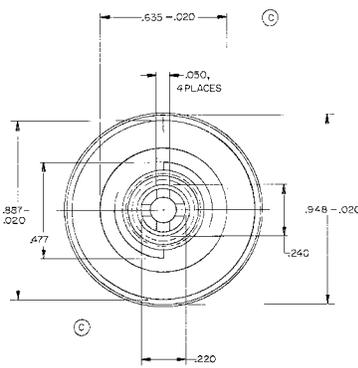
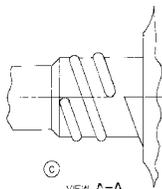
PART NO. 8436776

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING	23 JUN 1967	DEPT OF THE ARMY ROCK ISLAND ARSENAL ROCK ISLAND, ILL 61201	
YP		TOLERANCES ON DECIMALS	XX ± .01	ENGINEER	GLR	CHECKER	AJA
TS		ANGLES ±	XXX ±	TITLE	<i>Tom B. Goodrich</i>	CHECKER	<i>W. H. Wilson</i>
EL 2		MATERIAL		ENGINEER	<i>W. H. Wilson</i>	CHECKER	<i>E. D. Dwyer</i>
RA		MIL-E-3		SUBMITTED	<i>Robert</i>		
BH		SM ARMS,		HEAT TREATMENT			
RH		C 8436777	ROD, CLEANING	FINAL PROTECTIVE FINISH			
APPLICATION		NEXT ASSY	USED ON	APPROVED	<i>W. A. Leukkoren</i>	DWG SIZE	CODE IDENT NO.
						C	19204
							8436776
						SCALE	UNIT WT
						2/1	
							SHEET 1 OF 1

SWERT FORM 40 C. 1 JUL 66

- NOTES:
1. MATERIAL: PLASTIC, POLYETHYLENE, TYPE I, BLACK, SPEC L-P-390.
 2. THREAD SHALL BE FREE FROM FLASH, ROUGH PARTING LINES AND OTHER DEFECTS WHICH WILL INTERFERE WITH PROPER SEALABILITY.
 3. DIMENSIONS NOT CONTROLLED ON DRAWING SHALL BE DETERMINED BY THE PRODUCER.
 4. ALL THREADS TO BE IN ACCORDANCE WITH "M" STYLE OF SOCIETY OF PLASTICS INDUSTRY TECHNICAL BULLETIN PBD-2-1968, REVISION I, UNLESS OTHERWISE SPECIFIED.
 5. MIL-W-13855 APPLIES.

REVISIONS				
NO.	DATE	DESCRIPTION	BY	APPROVED
A	10 FEB 68	REVISED	J. J. [Signature]	[Signature]
B	10 FEB 68	REVISED	J. J. [Signature]	[Signature]
C	17 APR 68	REVISED	J. J. [Signature]	[Signature]



MECHANICAL PROPERTIES		PLACES WHERE SHOWN DIVIDED BY INCHES	ORIGINAL DATE OF DRAWING	DEPT OF THE ARMY
17	88448444 LUB OIL	RESEARCH OR DEVELOPMENT	19 MAR 58	ROCK ISLAND ARSENAL ROCK ISLAND, ILL. 61201
18	BOTTLE, 05 OZ	ANALYSIS		
19	C8436793 LUB OIL	SEE NOTE 1		
20	BOTTLE, 05 OZ	HEAT TREATMENT		
21	C8436792 LUB OIL			
22	BOTTLE, 05 OZ			
23	HEAT TREATMENT			
24	APPLICATION			

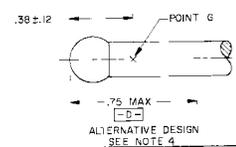
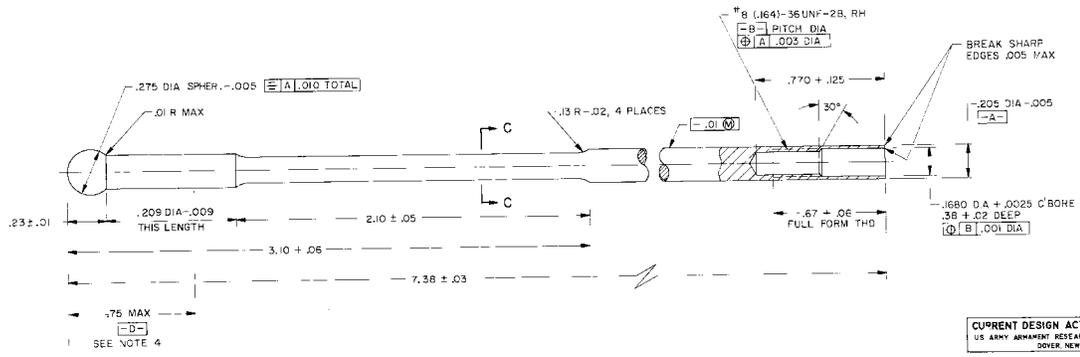
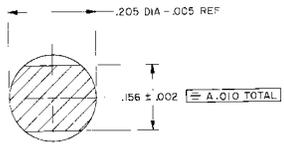
PART NO. 8448203	
CAP, BASE	
DWG NO. 19204	8448203
SCALE 3/4" = 1"	SHEET 1 OF 1

REVISIONS			
NO.	DATE	DESCRIPTION	APPROVED
A	15-01-30	ISSUE FOR PRODUCTION	
B	15-01-30	REVISED TO REFLECT CHANGES	
C	15-01-30	REVISED TO REFLECT CHANGES	

NOTES:
 1. FINISH 125/ ALL OVER.
 2. VIL-W 13-88 APPLIES.

3. MATERIAL:
 STEEL, COMP 1144, CONDITION CD, B, RB (15 TO 25 CU PERMISSIBLE), SPEC ASTM A103.
 4. BASIC DESIGN: NO HEAT TREATMENT REQUIRED.

ALTERNATIVE DESIGN:
 HARDNESS REQUIREMENT OF R1ST 86 MIN IS SUBSTITUTED IN LIEU OF MIN YIELD STRENGTH SPECIFIED FOR LENGTH (D-D) ONLY. HARDNESS TO BE TAKEN AT POINT G.
 5. FINAL PROTECTIVE FINISH: FINISH 5.3.2 OR 5.3.2.2 OF MIL-STD-171, ALKALINE CLEANING IS AUTHORIZED FOR CLEANING IN LIEU OF ABRASIVE BLASTING. FINISH COATING SHALL BE APPLIED WITHIN 4 HOURS OF EITHER CLEANING PROCESS.
 6. DIMENSIONS APPLY BEFORE FINAL PROTECTIVE FINISH.



CURRENT DESIGN ACTIVITY FSCM NO 19200
 US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
 OVERSEAS NEW JERSEY 07801

PART NO. 8448217

MECHANICAL PROPERTIES	UNITS	ORIGINAL DATE	DEPT OF THE ARMY
YIELD STRENGTH	MIN	15 SEP 38B	ROCK ISLAND ARSENAL, ROCK ISLAND, ILL 61201
TENSILE STRENGTH	MIN		
ELONGATION	MIN		
REDUCTION OF AREA	MIN		
HARDNESS	MIN		
ROD CLEANING	APPLICATION		

REVOLUTION		DESCRIPTION		DATE	APPROVED
A	A	REDRAWN WITH CHANGE, SEE EO HRD 02089		26 MAR 70	[Signature]
B	B	(3) SEE HQR 10683		7 APR 71	[Signature]
C	C	SEE ERR HQR 20839		25 JAN 73	[Signature]

NOTES:

- BOTTLES WITH CLOSURE CAP ATTACHED SHALL BE CAPABLE OF PASSING THE LEAKAGE TEST PER MIL-P-116, WHEN BASE CAP IS TORQUED TO 8LB IN. ± 2LB IN.
- MIL-W-13855 APPLIES.

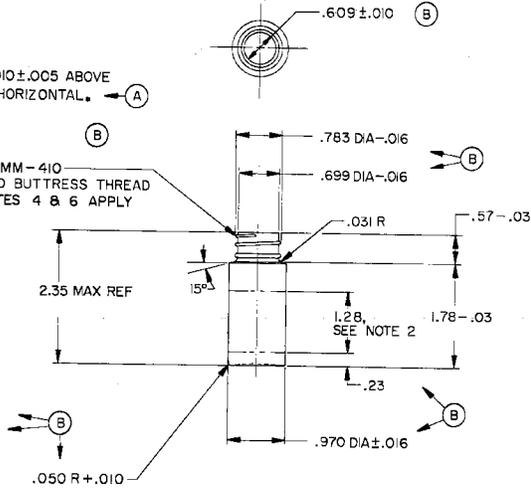
FOR LIST OF PARTS, SEE ENGINEERING PARTS LIST - 8448444 PART NO. **8448444**

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CONTRACT NO.
YS MIN		TOLERANCES	DATE 15 OCT 69
YS MAX	A8448795	ANGLES	PREP K.L. Broy
EL 2		3 PLACE DECIMALS ±	CHE [Signature]
SA		2 PLACE DECIMALS ±	ENDR [Signature]
BH		MATERIAL	SUBMITTED [Signature]
RH		MIG/MIGAI	APPROVED [Signature]
		FINAL PROTECTIVE FINISH	DATE 15 OCT 69
		APPLICATION	DEPT OF THE ARMY US ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201
			BOTTLE, 0.5 OZ. CYLINDRICAL, FOR SEMI-FLUID LUBRICATING OIL
			SIZE CODE IDENT NO. DRAWING NO. B 19204 8448444
			SCALE 1/1 SHEET 1 OF 1

NOTES:

1. PLASTIC, POLYETHYLENE, TYPE I, CLASS L, GRADE 2, NATURAL COLOR, SPEC L-P-390. WEIGHT OF BOTTLE: 4.0 ± 0.5 GRAMS.
2. THE FOLLOWING INFORMATION TO APPEAR ON EACH BOTTLE, WITHIN 1.28 REF AREA:
LSA
WEAPONS OIL, MEDIUM
SHAKE WELL
REFILLABLE
FSN
CHARACTERISTICS TO BE LEGIBLE AND RAISED $.010 \pm .005$ ABOVE $.970$ DIA REF. INFORMATION MAY BE VERTICAL OR HORIZONTAL.
3. BOTTLE SHALL HAVE A MINIMUM CAPACITY AFTER OVEN DRYING OF $.68 \pm .12$ FLUID OUNCES WHEN FILLED TO OVERFLOW.
4. THREAD SHALL BE FREE FROM FLASH, ROUGH PARTING LINES AND OTHER DEFECTS WHICH WILL INTERFERE WITH PROPER SEALABILITY.
5. DIMENSIONS NOT CONTROLLED ON DRAWING SHALL BE DETERMINED BY THE PRODUCER.
6. THREAD SHALL BE IN ACCORDANCE WITH STYLE "M" OF SOCIETY OF PLASTICS INDUSTRY TECHNICAL BULLETIN PBD-2-1968, REVISION 1, UNLESS OTHERWISE SPECIFIED.
7. MIL-W-13855 APPLIES.

MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
	A	(-3)	SEE EO HRD 02089	26 MAR 70	<i>[Signature]</i>
	B	(7)	SEE HQR 0683	7 APR 71	<i>[Signature]</i>



MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CONTRACT NO.		PART NO. 8448445	
YS	MIN	TOLERANCES		DATE 15 OCT 69		DEPT OF THE ARMY	
YS	MAX	ANGLES ± 9°		PREPARED <i>[Signature]</i>		U.S. ARMY WEAPONS COMMAND	
EL	2	3 PLACE DECIMALS ± .010		CHECKED <i>[Signature]</i>		ROCK ISLAND, ILLINOIS, 61201	
RA		2 PLACE DECIMALS ± .02		ENGINEER <i>[Signature]</i>		BOTTLE, CYLINDRICAL	
SH		MATERIAL		SUBMITTED		0.5 OZ	
RH		SEE NOTE 1		APPROVED <i>[Signature]</i>		SIZE CODE IDENT NO. DRAWING NO.	
		NEXT ASSY USED ON		SCALE 1/1		C 19204 8448445	
		APPLICATION		SHEET 1 OF 1			

NOTES:

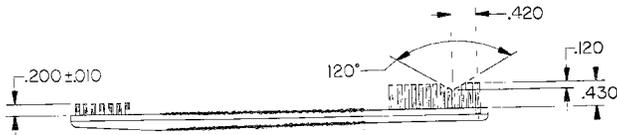
1. MATERIAL:
SYNTHETIC FILAMENT, CLASS N,
TYPE II, COLOR: NATURAL,
FED SPEC H-S-951.
2. MIL-W-13855 APPLIES.
3. TUFTS SHALL BE SET IN SUCH A
MANNER THAT THE TUFT CANNOT
BE LOOSENED OR BE REMOVED
BY OTHER THAN MECHANICAL MEANS.

REVISIONS					
MP	ZONE	LTR	DESCRIPTION	DATE	APPROVED
		B	REPLACES REV (A) W/CHANGE SEE EO HRD 02269	4 DEC 70	<i>[Signature]</i>
		C	2) SEE EO HCR-10504	4 FEB 71	<i>[Signature]</i>
		D	SEE ERR HQR 20839	25 JAN 73	<i>[Signature]</i>

HANDLE-8448463

7 TUFTS, 16-18 FILAMENTS PER
TUFT. FILAMENT DIA .011±.001,
SEE NOTE 1.

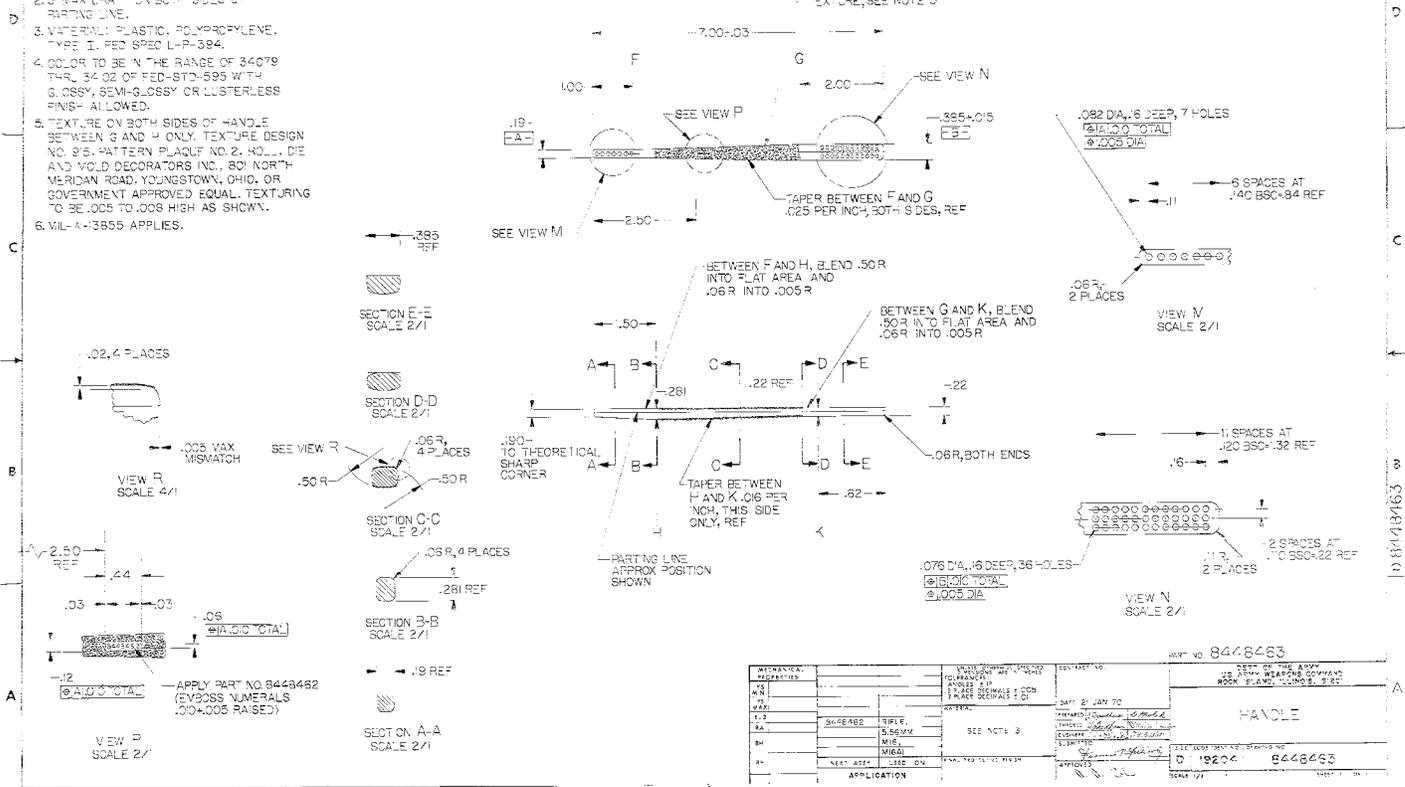
36 TUFTS, 9-11 FILAMENTS PER TUFT.
FILAMENT DIA .013±.001,
SEE NOTE 1.



SEE PL-8448462		PART NO. 8448462																																																	
<table border="1"> <tr> <th colspan="2">MECHANICAL PROPERTIES</th> </tr> <tr> <td>YS</td> <td></td> </tr> <tr> <td>MIN</td> <td></td> </tr> <tr> <td>YS</td> <td></td> </tr> <tr> <td>MAX</td> <td></td> </tr> <tr> <td>EL 2</td> <td></td> </tr> <tr> <td>RA</td> <td>A8448795 RIFLE, 5.56MM</td> </tr> <tr> <td>BH</td> <td>MIG</td> </tr> <tr> <td>RH</td> <td>MIGAI</td> </tr> <tr> <td colspan="2">NEXT ASSY USED WITH</td> </tr> <tr> <td colspan="2">APPLICATION</td> </tr> </table>		MECHANICAL PROPERTIES		YS		MIN		YS		MAX		EL 2		RA	A8448795 RIFLE, 5.56MM	BH	MIG	RH	MIGAI	NEXT ASSY USED WITH		APPLICATION		<table border="1"> <tr> <td colspan="2">UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</td> </tr> <tr> <td colspan="2">TOLERANCES</td> </tr> <tr> <td colspan="2">ANGLES ± 5°</td> </tr> <tr> <td colspan="2">3 PLACE DECIMALS ±.015</td> </tr> <tr> <td colspan="2">2 PLACE DECIMALS ±</td> </tr> <tr> <td colspan="2">MATERIAL</td> </tr> <tr> <td colspan="2">SEE NOTE 1</td> </tr> <tr> <td colspan="2">DATE 21 JAN 70</td> </tr> <tr> <td colspan="2">PREPARED <i>[Signature]</i></td> </tr> <tr> <td colspan="2">CHECKED <i>[Signature]</i></td> </tr> <tr> <td colspan="2">ENGINEER <i>[Signature]</i></td> </tr> <tr> <td colspan="2">SUBMITTED <i>[Signature]</i></td> </tr> <tr> <td colspan="2">APPROVED <i>[Signature]</i></td> </tr> </table>		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		TOLERANCES		ANGLES ± 5°		3 PLACE DECIMALS ±.015		2 PLACE DECIMALS ±		MATERIAL		SEE NOTE 1		DATE 21 JAN 70		PREPARED <i>[Signature]</i>		CHECKED <i>[Signature]</i>		ENGINEER <i>[Signature]</i>		SUBMITTED <i>[Signature]</i>		APPROVED <i>[Signature]</i>	
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DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILLINOIS, 61201		BRUSH, CLEANING GENERAL PURPOSE																																																	
SIZE COST DENT NO. DRAWING NO.		C 19204 8448462																																																	
SCALE 1/1		SHEET 1 OF 1																																																	

- NOTES:
1. ALL EDGES SHALL BE BROKEN .005R+.00 UNLESS OTHERWISE SPECIFIED.
 2. 3° MAX CHAMF ON BOTH SIDES OF PARTING LINE.
 3. MATERIAL: PLASTIC, POLYPROPYLENE, TYPE I, FED SPEC L-P-384.
 4. COLOR TO BE IN THE RANGE OF 34079 THRU 3402 OF FED-STD-595 WITH 0.05% SEMI-GLOSSY OR LUSTERLESS FINISH ALLOWED.
 5. TEXTURE ON BOTH SIDES OF HANDLE BETWEEN G AND K ONLY. TEXTURE DESIGN NO. 95. PATTERNS PLAQUE NO. 2. HOLLAND AND WOLD DECORATORS INC., 801 NORTH MERIDAN ROAD, YOUNGSTOWN, OHIO. OR GOVERNMENT APPROVED EQUAL. TEXTURING TO BE .005 TO .008 HIGH AS SHOWN.
 6. MIL-A-13855 APPLIES.

REV. NO.		DESCRIPTION	DATE	APPROVED
1	001	REP. 0015 REV. (A) W/C CHANGES	03/22/70	
2	002	REV. 0015		



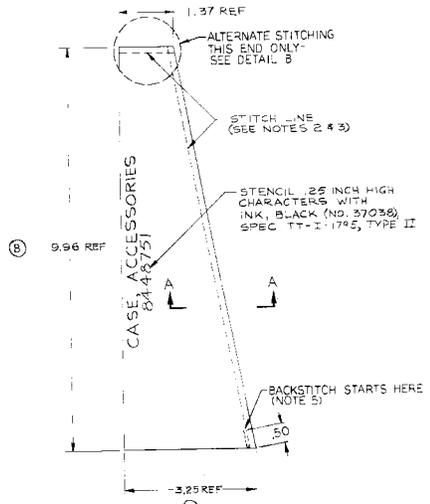
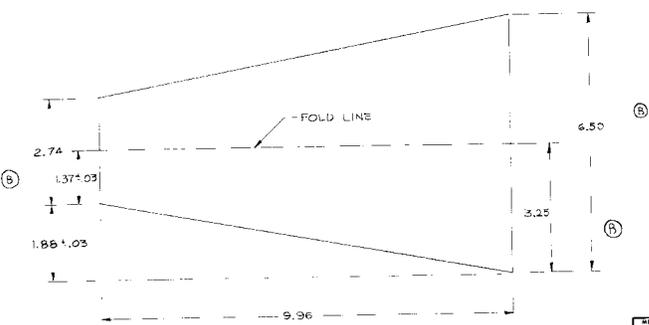
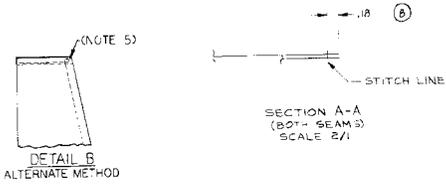
HWY NO. 8448483

DISCREPANCY	WHICH DRAWING CORRECT	REVISION NO.	DATE	BY	APP. OF THE ARMY
1	1	1	21 JAN 70		US ARMY WEAPON COMMAND
2	2	2			ROCK ISLAND, ILLINOIS, U.S.A.
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NO.	REVISIONS	DATE	APPROVED
1	A SEE IRR HQR 20639	25 JAN 73	JPS
2	B (U) SEE IRR HQR 40680	9 OCT 74	...
3	C (U) HQR G'S 53378/223
4	D (U) HQR 753063/6705-15	300763 70	...

- NOTES:
1. MATERIAL:
CLOTH, NYLON, TYPE I, CLASS 3,
OLIVE DRAB 34079 THRU 34102,
MIL-C-20696.
 2. WREAD, POLYESTER, TYPE I,
CLASS 1, SIZE E, OLIVE DRAB
(SHADE 5-D), SPEC V-T-289.
 3. MACHINE STITCH WITH LOCKSTITCH
TYPE 301 IN ACCORDANCE WITH
FED. STD. 761.
72 STITCHES PER INCH.
BACKSTITCH .50 INCH MIN. (4 PLACES)
 4. MANUFACTURE IN ACCORDANCE
WITH MIL-C-10692 EXCEPT THAT
COVERMENT SAMPLES AND PATTERNS
SHALL NOT BE PROVIDED.
 5. USE CONTINUOUS STITCH TO
SECURE ENDS.
 6. MIL-W-18855 APPLIES.

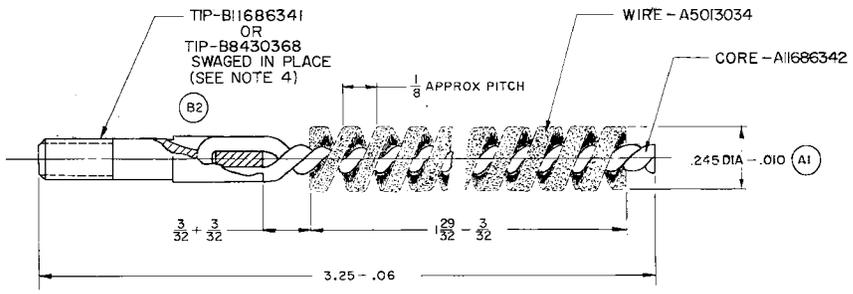


CURRENT DESIGN ACTIVITY CASE CODE 19300
ARMAMENT, RESEARCH, DEVEL. CENTER AND OPERATING CENTER
ROCK ISLAND, ILLINOIS, 61201

MECHANICAL PROPERTIES		QUALITY CONTROL METHOD		CONTRACT NO.	
VE		STRENGTH		DATE	5 JUNE 1970
WE		ELONGATION		PREPARED BY	J. Schmitt
WEI		STRENGTH		DESIGNED BY	W. J. Schmitt
WEII		STRENGTH		INSTRUMENTED BY	W. J. Schmitt
SA	AR44875	RIE	SEE NOTE 1	TESTED BY	J. Schmitt
SH	50 556 1000	MIG. M/GAL.		APPROVED BY	J. Schmitt
EM		APPLICATION		DATE	1926 844875

REVISIONS		
SYM	DESCRIPTION	DATE APPROVAL
A	(1) SEE EO SA29338	2 MAY 66 <i>[Signature]</i>
B	(2) SEE EO SA29353	17 MAY 66 <i>[Signature]</i>
C	SEE EO RA-144	9 22 67 <i>[Signature]</i>
D	SEE ERR HQR 20639	1 25 73 <i>[Signature]</i>

- NOTE:
- SPEC MIL- B-20100 APPLIES EXCEPT THAT BRISTLE WEIGHT SHALL NOT BE LESS THAN 75 PERCENT OF THE ORIGINAL WEIGHT AFTER TESTING. (B1)
 - WEIGHT OF BRISTLES, 1.0 GRAMS MIN.
 - WEIGHT OF ASSEMBLED BRUSH = 5.3 GRAMS APPROX
 - A. IF ALTERNATE DESIGN OF SWAGED TIP-B430368 IS USED, THE TIP MUST WITHSTAND A 150 LB PULL TEST AFTER SWAGING.
 B. TIP-B430368 MUST RESIST A RIGHT HAND TORQUE LOAD (FACING THREAD END) OF 8 INCH POUNDS WITHOUT MOVEMENT. (C)



SEE EPL-11686340

PART NO 11686340

MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING	23 JUL 65	DEPT OF THE ARMY U.S. ARMY WEAPONS COMMAND ROCK ISLAND, ILL. 61201	
YF	A8448795	RIFLE, 5.56MM	TOLERANCES ON DIMENSIONS	DRAFTSMAN	NEW	CHECKER	<i>[Signature]</i>
TS		M16/M16A1	FRACTIONS ±	TRACER	NEW	CHECKER	<i>[Signature]</i>
EL 2		SEE ENGINEERING RECORDS	ANGLES ±	ENGINEER	<i>[Signature]</i>	ENGINEER	<i>[Signature]</i>
RA		NEXT ASSY USED WITH	MATERIAL	SUBMITTED	<i>[Signature]</i>		
BH		APPLICATION	HEAT TREATMENT	APPROVED	<i>[Signature]</i>		
RH		DO NOT APPLY PART NO	FINAL PROTECTIVE FINISH		<i>[Signature]</i>		
		AS SPECIFIED					

BRUSH, CLEANING, SMALL ARMS

CODE IDENT NO, DWG SIZE
19204 C 11686340
SCALE 4/1 UNIT WT SHEET 1 OF 1

MECHANICAL PROPERTIES		-APPLY PART NO.-		REVISIONS			
YP		APPLICATION		LTR	DESCRIPTION	DATE	APPROVED
TS		NEXT ASSY	USED WITH	A	SEE ERR HQR 20839	25 JAN 73	<i>J.B.</i>
EL2		SEE ENGINEERING RECORDS		B	NORW9S8007 79 10 19	81-06-08	<i>V.P.</i>
RA		A8448795	RIFLE	C	NORW4S2019/84-05-07	8407-30	<i>M.B.</i>
BH			5.56 MM,				
RH			M16 &				
			M16A1				

(A)

NOTES:

- MATERIAL:
UNBLEACHED, CLEAN, SINGLE
EVENLY DEVELOPED NAP,
COTTON CLOTH. SEE DWG 9341775
FOR ALTERNATIVE MATERIAL SOURCES.
- COLOR: NATURAL.
- PHYSICAL REQUIREMENTS:
SPEC ----- FED-STD-191.
WEIGHT OZ / SQ YD: . . . 4.85 ± .24,
METHOD 5041.
YARNS / INCH: WARP 43 MIN.
FILLING 39 MIN, METHOD 5050.
BREAKING STRENGTH:
WARP 40 MIN.
FILLING 30 MIN.
METHOD 5100.
- *CLOTH SHALL BE CUT PARALLEL
TO THE WARP YARNS.

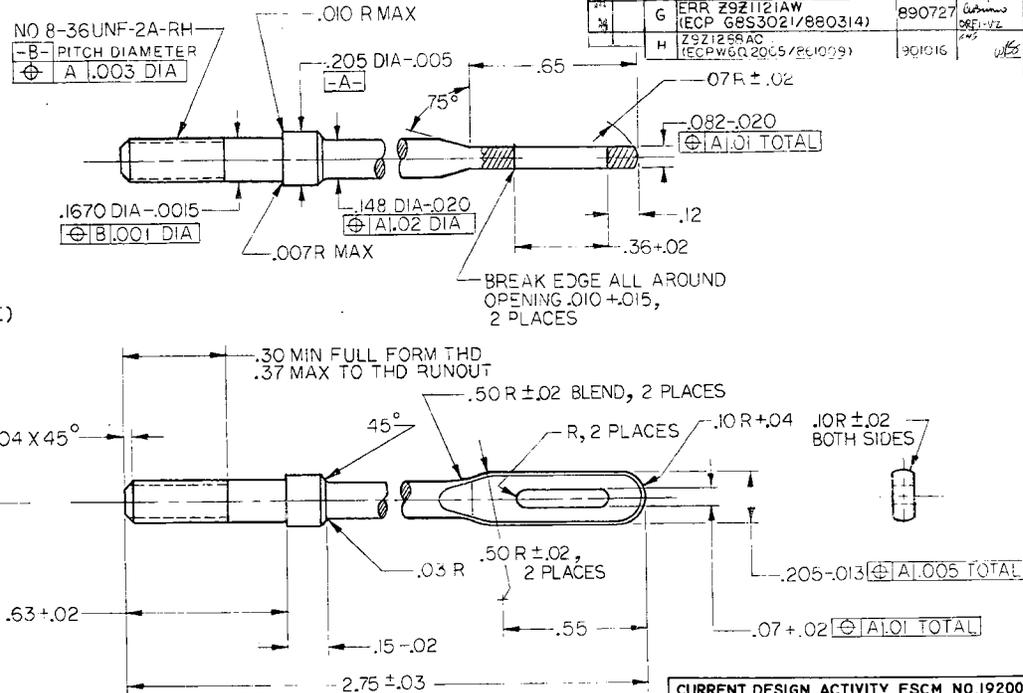
1 3/8" × 1 1/8"

U S ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER DOVER, NEW JERSEY 07801		ORIG FSCM 19205
FSCM NO. 19200	PART NO. 11686408	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DEPT OF THE ARMY U S ARMY WEAPONS COMMAND ROCK ISLAND, ILL, 61201
TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±	ORIGINAL DATE OF DRAWING 17SEP65	SWAB, SMALL ARMS CLEANING: 5.56 MM
DRAFTSMAN <i>NSA</i> CHECKER <i>CB</i>	TRACER <i>NSA</i> CHECKER <i>CB</i>	
MATERIAL SEE NOTE 1	ENGINEER <i>NSA</i>	DWG SIZE A
HEAT TREATMENT	SUBMITTED <i>Q W Leno</i>	CODE IDENT NO 19204
FINAL PROTECTIVE FINISH	APPROVED <i>DA Lunkhouse</i>	11686408
	SCALE NONE	UNIT WT /
		SHEET OF

SWESP FORM NO. 1181-1
20 MAR 64 REV.

NOTES:

1. FINISH 125/
2. ALL EDGES SHALL BE BROKEN .005 +.005 UNLESS OTHERWISE SPECIFIED.
3. MIL-W-13855 APPLIES.
4. MATERIAL:
STEEL, GRADE 1008 THRU 1022. CONDTN ANNEALED, COLD HEADING QUALITY, OR STEEL, GRADE 1144 (.15 TO .25 Cu PERMISSIBLE) CONDITION CD & SR, ASTM-A108.
5. ALKALINE CLEANING IS AUTHORIZED FOR CLEANING IN LIEU OF ABRASIVE BLASTING. FINISH COATING .04 X 45° SHALL BE APPLIED WITHIN 4 HOURS OF EITHER CLEANING PROCESS.



REVISIONS					
MF	ZONE	LTR	DESCRIPTION	DATE	APPROVED
		E	REPLACES REV D W/CHNG SEE ERR HQR 50689	31 JUL 75	R8
		F	NOR W452081/84-12-29	85-04-08	WSP
		G	ERR Z9Z1121AW (ECP G8S3021/880314)	890727	WSP
		H	Z9Z1258AC (ECP W8Q2005/891029)	901016	WSP

CURRENT DESIGN ACTIVITY FSCM NO.19200
US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

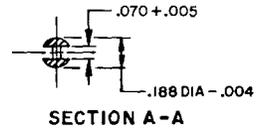
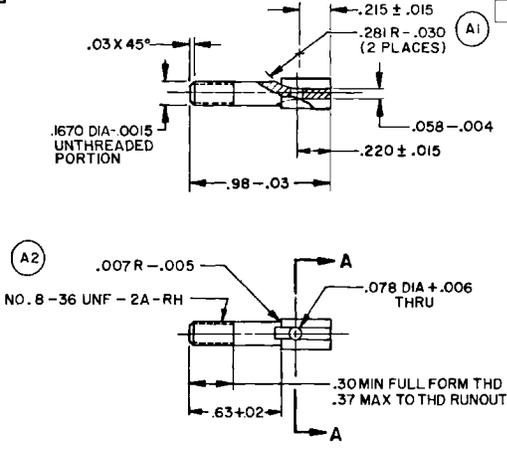
PART NO. 11686327

MECHANICAL PROPERTIES	D8436777	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING	23 JUL 65	SPRINGFIELD ARMOY, SPRINGFIELD, MASS.
YP		TOLERANCES ON DECIMALS	DESIGNED BY	W. A. Myers	SWAB HOLDER SECTION, SMALL ARMS CLEANING ROD
TS		ANGLES ± 2°	CHECKED BY	W. A. Myers	
EL 2		MATERIAL	APPROVED BY	R. A. De	
RA	MHE3	SEE NOTE 4	DATE		
BH		HEAT TREATMENT	DATE		
RH		FINAL PROTECTIVE FINISH	APPROVED	R. A. De	
	NEXT ASSY. USED ON APPLICATION	FINISH NO. 5.3.1.2 OR 5.3.2.2 OF MIL-STD-171, SEE NOTE 5			

DRWG SIZE C 19205 11686327
SCALE 4/1 UNIT WT SHEET 1 OF 1

NOTICE—WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH THEY WERE PREPARED, THE USER ASSUMES ALL LIABILITY FOR ANY INADEQUACIES, OMISSIONS, OR ERRORS. THE UNITED STATES GOVERNMENT DOES NOT WARRANT, GUARANTEE, OR ACCEPT ANY LIABILITY FOR THE USE OF SUCH DATA. THE UNITED STATES GOVERNMENT MAY HAVE FORMULATED, DISCOVERED, OR IN ANY MANNER SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IN ANY MANNER SUSCEPTIBLE OF PROTECTION BY PATENT, COPYRIGHT, OR OTHER RIGHTS. THE USER SHALL INDEMNIFY AND HOLD THE UNITED STATES GOVERNMENT HARMLESS FROM ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED HERETO.

- NOTES:
1. ALL EDGES SHALL BE BROKEN .005 + .005 UNLESS OTHERWISE SPECIFIED.
 2. FINISH $125\sqrt{}$ (B)
 3. MATERIAL: LEADED BRASS ROLLED BAR, ALLOYS UNS C34200 AND C35300, TEMPER H02, PER ASTM B121/B121M; OR FREE-CUTTING BRASS ROD, ALLOY UNS C36000, TEMPER H02, PER ASTM B16/B16M.
 4. EDGES AND CORNERS SHALL BE FREE OF BURRS.



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	(1-2) SEE EDSA29353	17 MAY 66	[Signature]
B	SEE ED RIA-144.1	9-22-67	[Signature]
C	NOR 66S2014 / 960412	960716	FET
D	NOR R7S2015 970730	970922	KN
E	NOR L1S2084 010507	010607	RLV

CURRENT DESIGN ACTIVITY GAGE CODE 19200
 U.S. ARMY
 ARMAMENT RESEARCH, DEVELOPMENT AND ENGINEERING CENTER
 PICATINNY ARSENAL, NEW JERSEY 07806-5000

PART NO. 11686341

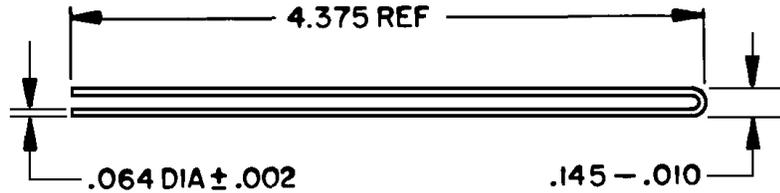
MECHANICAL PROPERTIES		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		ORIGINAL DATE OF DRAWING		SPRINGFIELD ARMOY U. S. ARMY WEAPONS COMMAND	
YP		TOLERANCES ON DECIMALS $\pm .01$		23 JUL 65		SPRINGFIELD 1, MASS. U. S. ARMY MATERIEL COMMAND	
TS	C11686340	FRACTIONS \pm ANGLES $\pm 2^\circ$		DRAFTSMAN DEW	CHECKER	TIP, CLEANING BRUSH	
EL 2	ARMS	MATERIAL SEE NOTE 3		TRACER DEW	CHECKER RSW		
RA	SEE ENGINEERING RECORDS	HEAT TREATMENT		ENGINEER RSW	ENGINEER CR		
BH	NEXT ASSY USED ON	FINAL PROTECTIVE FINISH		SUBMITTED			
APPLICATION				APPROVED [Signature]		CODE IDENT NO	DWG SIZE
RH	DO NOT APPLY PART NO					19205	B 11686341
AS-SPECIFIED						SCALE 2/1	UNIT WT SHEET OF

SWESP 1176-3
 28 AUG 62

MECHANICAL PROPERTIES		APPLY PART NO-	REVISIONS				
YP		APPLICATION		LTR	DESCRIPTION	DATE	APPROVED
TS		NEXT ASSY	USED ON	A	NOR W4S2081/84-12-29	85-04-08	HW <i>EW</i>
EL2		SEE ENGINEERING RECORDS		B	NOR G0S3150/901001	91-05-20	PF <i>SR AB</i>
RA		C11686340	BRUSH, SM	C	NOR G6S2014 / 960412	960716	FET
BH			ARMS				
RH							

NOTES:

- MATERIAL:
BRASS, WIRE, PER ASTM B134
COMP NO. 260, ANNEALED.



- ADJUST LENGTH TO SUIT ASSEMBLY REQUIREMENTS SHOWN ON DWG C11686340.

CURRENT DESIGN ACTIVITY FSCM NO.19200
US ARMY ARMAMENT RESEARCH AND DEVELOPMENT CENTER
DOVER, NEW JERSEY 07801

PART NO. **11686342**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	ORIGINAL DATE OF DRAWING 23 JUL 65	U. S. ARMY SPRINGFIELD ARMORY SPRINGFIELD, MASS. 01101	
TOLERANCES ON FRACTIONS DECIMALS ANGLES + ± ±	DRAFTSMAN <i>DeW</i> CHECKER TRACER <i>DeW</i> CHECKER <i>RSW</i> ENGR <i>RSW</i> ENGR <i>CRG</i>	CORE, CLEANING BRUSH	
MATERIAL	SUBMITTED <i>DW Hunt</i>	DWG SIZE A	CODE IDENT NO 19205
HEAT TREATMENT	APPROVED <i>VA Lusk</i>	11686342	
FINAL PROTECTIVE FINISH		SCALE 1/1	UNIT WT
		SHEET 1 OF 1	

SWESP FORM NO. 1181-3
20 MAR 64 REV.

MILITARY SPECIFICATION
CASE MAINTENANCE EQUIPMENT,
SMALL ARMS, M16A1

This specification is approved for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the requirements for the design, materials and fabrication of a case for carrying maintenance equipment for the M16A1 Rifle.

2. APPLICABLE DOCUMENTS

* 2.1 Issues of documents. The following documents, of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein.

SPECIFICATIONS

FEDERAL

V-T-285	- Thread, Polyester
UU-P-268	- Paper, Kraft, Wrapping
DDD-L-20	- Label: For Clothing, Equipage, and Tentage, (General Use)
PPP-B-636	- Boxes, Shipping, Fiberboard

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: US Army Natick Research and Development Laboratories, Natick, MA 01760 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

MILITARY

- MIL-W-4088 - Webbing, Textile, Woven Nylon
- MIL-T-5038 - Tape, Textile and Webbing, Textile, Reinforcing, Nylon
- MIL-C-7219 - Cloth, Duck, Nylon
- MIL-H-9890 - Hardware, Individual Load Carrying Equipment: and Hardware, Miscellaneous
- MIL-F-10884 - Fasteners, Snap
- MIL-F-21840 - Fastener Tapes, Hook and Pile, Synthetic
- MIL-W-27265 - Webbing, Textile, Woven Nylon Impregnated

STANDARDS

FEDERAL

- FED-STD-751 - Stitches, Seams, and Stitchings

MILITARY

- MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes
- MIL-STD-129 - Marking for Shipment and Storage
- MIL-STD-147 - Palletized Unit Loads
- MIL-STD-1188 - Commercial Packaging of Supplies and Equipment
- MS 27981 - Fasteners, Snap, Style 2A (Small Wire Spring Clamp Type)

DRAWING

U.S. ARMY NATICK RESEARCH AND DEVELOPMENT LABORATORIES

- 2-2-282 - Case, Maintenance Equipment, Small Arms, (For M16A1 Rifle); Assembly Complete

(Copies of specifications, standards and drawings required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

3. REQUIREMENTS

* 3.1 Guide samples. Guide samples of the end item, when furnished, are solely for guidance and information to the contractor (see 6.3). Variations from the specification may appear in the sample, in which case the specification shall govern.

3.2 First article. When specified (see 6.2), the contractor shall furnish a sample for first article inspection and approval (see 4.3 and 6.4).

* 3.3 Materials (see 6.5).

3.3.1 Cloth, duck, nylon. The nylon cloth shall be Olive Green 106 and shall conform to type III, class 3 of MIL-C-7219.

* 3.3.2 Webbing, nylon. The nylon webbing shall be Olive Drab 7 and shall conform to type VIIIc, class 2 of MIL-W-4088 and class R of MIL-W-27265.

* 3.3.3 Tape, nylon. The nylon tape used for binding shall be dyed Olive Drab 7 and shall conform to type III, 3/4 inch wide of MIL-T-5038.

* 3.3.4 Fastener tape, hook and pile, nylon. The nylon fastener tape shall be dyed Olive Green 106 and shall conform to type II, class 1, 5/8 inch wide of MIL-F-21840.

* 3.3.5 Thread, polyester. The thread for all stitching shall conform to type I, class 1, sub-class A or B, size E of V-T-285.

3.3.5.1 Color. The thread shall be dyed Olive Drab S-1, C.A. 66022, and shall show fastness to weathering equal to or better than the standard sample.

3.3.6 Keeper, with slide. The keeper with slide shall conform to type X of MIL-H-9890.

3.3.7 Fasteners, snap. The snap fastener shall be style 2A, finish 2 conforming to MIL-F-10884 and the following listed part numbers of MS 27981:

<u>Component</u>	<u>Part number</u>
Button	-1B
Socket	-3B
Stud	-4B
Eyelet	-5B

3.4 Construction. The construction shall conform in all respects to Drawing 2-2-282 and as specified herein.

* 3.4.1 Stitching, machine. All stitching, except bartacking, shall conform to type 301 of FED-STD-751 with 8 to 10 stitches per inch.

3.4.1.1 Type 301 stitching. Ends of all stitching shall be backstitched or over-stitched 1/2 inch minimum except where ends are turned under in a hem or held down by other stitching. Thread tension shall be maintained so that there will be no loose stitching resulting in loose bobbin or top thread, or excessively tight stitching resulting in puckering of the materials sewn. The lock shall be embedded in the materials sewn.

3.4.1.1.1 Repairs of type 301 stitching. Repairs of type 301 stitching shall be as follows:

a. Unless otherwise specified, when thread breaks or bobbin run-outs occur during stitching, the stitching shall be repaired by restarting the stitching a minimum of 1/2 inch back of the end of the stitching. 1/

* b. Unless otherwise specified, thread breaks, or two or more consecutive skipped or runoff stitches noted during inspection of the item (in-process or end item) shall be repaired by overstitching. The stitching shall start a minimum of 1/2 inch in back of the defective area, continue over the defective area and continue a minimum of 1/2 inch beyond the defective area onto the existing stitching. Loose or excessively tight stitching shall be repaired by removing the defective stitching, without damaging the materials, and restitching in the required manner. 1/

1/ When making the above repairs, the ends of the stitching are not required to be backstitched.

3.4.1.2 Bartacking. Unless otherwise specified, bartacking shall be $1/2 + 1/16$ inch in length, $1/8 + 1/32$ inch in width and shall contain 28 stitches. Bartacking shall be free from thread breaks and loose stitching.

3.4.1.3 Automatic stitching. Automatic stitching machines may be used to perform any of the required stitch patterns provided the requirements for the stitch pattern, stitches per inch, and size and type of thread are met; and at least three tying, overlapping or backstitches are used to secure the ends of the stitching.

3.4.1.4 Thread ends. All thread ends shall be trimmed to a length of not more than 1/4 inch.

* 3.4.2 Setting of snap fasteners. A hole shall be prepunched through the materials before insertion of the button barrel of the female component and the eyelet barrel of the male component. The hole shall be smaller than the outside diameter of the button barrel or the eyelet barrel, as applicable, so that the barrel must be forced through the hole. The hole shall not be punched in the setting operation with the button or eyelet barrel. The fastener components shall be securely clinched without cutting the adjacent materials and no more than three splits shall occur in the button or eyelet barrels.

3.4.3 Fusing of nylon tape and webbing ends. All ends of nylon tape and webbing shall be fused. The apparatus used to fuse the tape and webbing ends shall be capable of providing sufficient heat to provide a smooth edge with the cut ends of the tape and webbing yarns all fused together.

3.4.4 Location marks. Location marks shall not be drilled except for locating snap fasteners.

* 3.4.5 Repairs. Repairs such as mends, darns or patches shall not be made to the case.

3.4.6 Replacement of defective components. During the spreading, cutting and manufacturing process, components having material defects or damages that are classified as defects in 4.4.3.1 shall be removed from production and replaced with non-defective and properly matched components.

3.5 Marking. The identification marking shall be applied in the location shown on the drawing and shall conform to type IV, class 5 of DDD-L-20. The nomenclature may be abbreviated to read "Case, Maint. Equip., M16A1 Rifle". The letters "US" shall be applied in the location and in the size characters indicated on Drawing 2-2-282 and shall conform to type IV, class 9 of DDD-L-20. Fastness of the class 9 marking shall be as specified for class 5 marking.

3.6 Workmanship. The finished case shall conform to the quality of product established by this specification. The occurrence of defects shall not exceed the applicable acceptable quality levels.

4. QUALITY ASSURANCE PROVISIONS

4.1 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.

4.1.1 Certificate of compliance. Where certificates of compliance are submitted, the Government reserves the right to check test such items to determine the validity of the certification.

4.2 Classification of inspection. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.3).
- b. Quality conformance inspection (see 4.4).

* 4.3 First article inspection. When a first article is required (see 6.2), it shall be examined for the defects specified in 4.4.3.1 and 4.4.3.2. The presence of any defect shall be cause for rejection of the first article.

4.4 Quality conformance inspection. Unless otherwise specified, sampling for inspection shall be performed in accordance with MIL-STD-105.

4.4.1 Component and material inspection. In accordance with 4.1, components and materials shall be inspected in accordance with all the requirements of referenced specifications, drawings and standards unless otherwise excluded, amended, modified or qualified in this specification or applicable purchase document.

* 4.4.2 In-process inspection. Inspection shall be made at any point or during any phase of the manufacturing process to determine whether construction details which cannot be examined on the finished item are in accordance with specified requirements. This inspection shall include verification that holes punched for snap fasteners conform to 3.4.2. Whenever nonconformance is noted, corrections shall be made to the items affected and lot in-process. Items which cannot be corrected shall be removed from production.

* 4.4.3 End item examination. The end item shall be examined in accordance with 4.4.3.1 and 4.4.3.2. The lot size shall be expressed in units of one case. The sample unit shall be one case.

* 4.4.3.1 Visual examination. The end item shall be examined for the defects listed below. The inspection level shall be II and the acceptable quality level (AQL) shall be 2.5 major and 6.5 total (major and minor combined) defects per hundred units.

Examine	Defect	Classification	
		Major	Minor
Cloth	Any hole, cut, tear, or abrasion.	X	
	Smash, open place, broken or missing yarn, or multiple floats.	X	
Webbing and tape	Cut ends not fused or not fused correctly, i.e., yarns not fused together or not smooth.		X
	Frayed or scalloped edges; not firmly and tightly woven.		X
Fastener tape, hook and pile	Any hole, cut, or tear.	X	
	Hooks missing or flattened impairing function.	X	

Examine	Defect	Classification	
		Major	Minor
Hardware:			
General	Broken or malformed, corroded area, burr, or sharp edge.	X	
	Finish omitted.	X	
	Finish defects, i.e., wrinkles, drops, thin or loose film.		X
Keeper	Slide component of keeper jams in open, partly closed, or closed position.	X	
	NOTE: Check operation of keeper by fully opening and closing.		
Snap fastener	Any fastener not functioning properly, i.e., fails to snap closed, provide a secure closure, or open freely.	X	
	NOTE: The fasteners shall be snapped and unsnapped twice to determine whether parts of fastener separate freely and also effect a secure closure.		
	Clinched excessively tight, cutting adjacent material.	X	
	Clinched loosely, permitting any component to rotate freely but not to the degree that any component can be expected to become detached during use.		X
	Clinched loosely to the degree that components can be expected to become detached during use.	X	
	NOTE: Incomplete roll of end of button or eyelet barrel is evidence of improper and insecure clinching.		
	Incorrect style.	X	
	More than three splits in eyelet or button barrels.		X

Examine	Defect	Classification	
		Major	Minor
Seams and stitching:			
Open seams	Less than 1/2 inch. 1/2 inch or more.	X	X
	NOTE: A seam shall be classified as open when one or more stitches joining a seam are broken or when two or more consecutive skipped or runoff stitches occur.		
Raw edges (except where required)	More than 1/2 inch when securely caught in stitching.		X
	NOTE: Raw edges not securely caught in stitching shall be classified as open seams.		
Seams and stitch types	Wrong seam or stitch type.	X	
Stitch tension	Loose, resulting in loose top or bobbin thread.		X
	Excessively tight, resulting in puckering of material.		X
Stitches per inch	One stitch less than minimum specified. <u>1/</u>		X
	Two or more stitches less than minimum specified. <u>1/</u>	X	
	One or more stitches in excess of maximum specified. <u>1/</u>		X
	<u>1/</u> Defect to be scored when condition exists on major portion of seam. Applicable to each individual seam.		
Stitching ends (on stitch type 301)	Not secured as specified (except where ends are held down by other stitching or turned under in a hem).		X
Thread breaks, skipped stitches or runoffs (on type 301 stitching)	Thread breaks, or two or more consecutive skipped or runoff stitches overstitched less than 1/2 inch in each direction beyond the defective stitching area.		X

Examine	Defect	Classification	
		Major	Minor
Thread breaks, NOTE: skipped stitches or runoffs (on type 301 stitching) (cont'd)	Thread breaks, or two or more consecutive skipped or runoff stitches not overstitched shall be classified as open seams.		
Bartacks	Loose stitching, incomplete or broken. Any omitted.	X	X
Rows of stitching	Any row missing except on keeper retainer. On keeper retainer: - One row of stitching omitted. - Two or more rows of stitching omitted.	X X	 X
Cleanness	Grease or oil stains clearly noticeable. Thread ends not trimmed throughout as specified.		X X
Components and assembly	Any component or required operation omitted (unless otherwise classified herein). Mend, darn or patch. Needle chews: - up to 1/8 inch in length. - 1/8 inch or more in length.	X X X	 X
Binding tape	Loosely applied but not exposing raw edge of material. Loosely applied exposing raw edge of material.		X X
Fastener tape	Location of hook and pile reversed, i.e., hook attached where pile is required or vice versa.		X
Identification marking	Omitted, incorrect, illegible, misplaced, or size of characters not as specified.		X

4.4.3.2 Dimensional examination. Examination shall be made for compliance with all dimensions shown on Drawing 2-2-282 which can be examined on the end item, including stitch margins and gage, excluding reference dimensions. Any dimension exceeding the applicable tolerance shall constitute a defect. The inspection level shall be S-3 and the AQL shall be 10.0 defects per hundred units.

* 4.4.4 Packaging examination. An examination shall be made to determine that the preservation, packing and marking comply with the section 5 requirements. Defects shall be scored in accordance with the list below. The sample unit shall be one shipping container fully packaged except that it need not be closed. Examination of closure defects listed below shall be made on shipping containers fully packaged. The lot size shall be the number of shipping containers in the end item inspection lot. The inspection level shall be S-2 and the AQL shall be 2.5 defects per hundred units.

<u>Examine</u>	<u>Defect</u>
Marking (exterior and interior)	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application.
Materials	Any component missing, damaged, or not as specified.
Workmanship	Inadequate application of components, such as incomplete closure of container flaps, improper taping, loose strapping, inadequate stapling. Bulged or distorted container.
Content	Number of bundles per shipping container is more or less than required. Number of cases per bundle is more or less than required. <u>1/</u>

1/ For this defect, two bundles from each shipping container in the sample shall be examined.

* 4.4.5 Palletization examination. An examination shall be made to determine that the palletization complies with the section 5 requirements. Defects shall be scored in accordance with the list below. The sample unit shall be one palletized unit load fully packaged. The lot size shall be the number of palletized unit loads in the end item inspection lot. The inspection level shall be S-1 and the AQL shall be 6.5 defects per hundred units.

<u>Examine</u>	<u>Defect</u>
Finished dimensions	Length, width, or height exceeds maximum requirement.
Palletization	Pallet pattern not as specified. Interlocking of loads not as specified. Load not bonded with required straps as specified.
Weight	Exceeds maximum load limits.
Marking	Omitted; incorrect; illegible; of improper size, location, sequence, or method of application.

5. PACKAGING

- * 5.1 Preservation. Preservation shall be level A or Commercial as specified (see 6.2).

5.1.1 Level A. Each case shall have the keeper and the flap closed. A pair of cases shall be placed together with fronts facing, flaps reversed, and keepers adjacent to each other. The keepers shall rest on the keeper retainer and not on the flap binding tape. Each pair of cases shall measure approximately 9-3/4 inches in length and 4-1/2 inches in width. Ten cases (5 pairs) shall be neatly stacked in a bundle to measure approximately 4 inches in depth. The bundle shall be securely tied at each end with cotton tape or twine.

- * 5.1.2 Commercial. Cases shall be preserved in accordance with MIL-STD-1188.

5.2 Packing. Packing shall be level A, B, or Commercial as specified (see 6.2).

- * 5.2.1 Level A packing. Four hundred cases, preserved as specified in 5.1.1, shall be packed in a fiberboard shipping container conforming to style RSC-L, grade 2 of PPP-B-636. The inside of each shipping container shall be fitted with a box liner conforming to type CF, class weather-resistant, variety DW, grade V15c of PPP-B-636. Level A unit packs shall be packed flat, five in length, two in width, and four in depth within a shipping container. Inside dimensions of the shipping container shall approximate 23 inches in length, 20 inches in width, and 16 inches in depth. Approximate dimensions are furnished as a guide only. Each container shall have the contents completely covered on the top and bottom with a sheet of 40-pound minimum basis weight kraft paper conforming to type I, grade B of UU-P of PPP-B-636. Each shipping container shall be closed in accordance with method III, water-tight in accordance with method V and reinforced as specified in the appendix of PPP-B-636, except that the inspection shall be in accordance with 4.4.4.

- * 5.2.2 Level B packing. Four hundred cases, preserved as specified in 5.1, shall be packed in a fiberboard shipping container conforming to style RSC-L, type CF (variety SW) or SF, class domestic, grade 275 of PPP-B-636. The inside of each shipping container shall be fitted with a box liner conforming to type CF, class domestic, variety DW, grade 275 of PPP-B-636. Level A unit packs shall be packed flat, five in length, two in width, and four in depth within a shipping container. Inside dimensions of the shipping container shall approximate 23 inches in length, 20 inches in width, and 16 inches in depth. Approximate dimensions are furnished as a guide only. Each container shall have the contents completely covered on the top and bottom with a sheet of 30 pound minimum basis weight kraft paper conforming to type I, grade B of UU-P-268. Each shipping container shall be closed in accordance with method II as specified in the appendix of the container specification, except that the inspection shall be in accordance with 4.4.4.
- * 5.2.2.1 Weather-resistant fiberboard containers. When specified (see 6.2), the shipping container shall be a grade V3c, V3s or V4s fiberboard box fabricated in accordance with PPP-B-636 and closed in accordance with method III as specified in the appendix of the container specification, except that the inspection shall be in accordance with 4.4.4.
- * 5.2.3 Commercial packing. Cases, preserved as specified in 5.1, shall be packed in accordance with MIL-STD-1188.

5.3 Palletization. When specified (see 6.2), cases, packed as specified in 5.2, shall be palletized in accordance with load type I of MIL-STD-147. Each prepared load shall be bonded with primary and secondary straps in accordance with bonding means K and L. Pallet patterns shall be in accordance with the appendix of MIL-STD-147. Interlocking of loads shall be effected by reversing the pattern of each course. If the container is of a size which does not conform to any of the pallet patterns specified in MIL-STD-147, the pallet pattern used shall first be approved by the contracting officer.

- * 5.4 Marking. In addition to any special marking required by the contract, unit packs, shipping containers and palletized unit loads shall be marked in accordance with MIL-STD-129 or MIL-STD-1188, as applicable. Each fourth unit pack shall have attached a manila colored paper shipping tag for the identification information.

6. NOTES

6.1 Intended use. The case is designed for carrying maintenance equipment for the M16A1 Rifle.

6.2 Ordering data. Procurement documents should specify the following:

- (a) Title, number and date of this specification.
- (b) When a first article sample is required (see 3.2, 4.3 and 6.4).
- * (c) Selection of applicable levels of preservation and packing (see 5.1 and 5.2).
- (d) When weather-resistant grade fiberboard shipping containers are required for level B packing (see 5.2.2.1).
- (e) When palletization is required (see 5.3).

6.3 Samples. For access to samples, address the procuring activity issuing the invitation for bid.

6.4 First article. When a first article sample is required, it shall be inspected and approved under the appropriate provisions of DAR 7-104.55. The first article should be a preproduction sample consisting of one completed case. The contracting officer should include specific instructions in all procurement instruments, regarding arrangements for inspection and approval of the first article.

* 6.5 Recycled material. It is encouraged that recycled material be used when practical as long as it meets the requirements of the specification.

6.6 Changes from previous issue. The margins of this specification are marked with an asterisk to indicate where changes (additions, modifications, corrections, deletions) from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:

Army - GL
Navy - MC
Air Force - 99

Preparing activity:

Army - GL
Project No. 8465-0825

Review activities:

Army - MD
DLA - CT

User activity:

Air Force - 45

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DOCUMENT IDENTIFIER (Number) AND TITLE

MIL-C-43737B SMALL ARMS, M16A1

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C. REASON FOR RECOMMENDED CHANGE(S)

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SUBMITTED BY (Printed or typed name and address - Optional)

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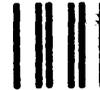
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