

LUDWIG STIEFEL
22247
Chem Res Lab

UNCLASSIFIED

AD 483 309

BARREL EROSION STUDY OF RIFLES, 5.56MM, M16 AND XM
16E1-A JOINT ARMY - AIR FORCE TEST

P. R. Landry, et al.

January 1966

4/2-50

Processed for . . .

DEFENSE DOCUMENTATION CENTER
DEFENSE SUPPLY AGENCY

PL
Frank Miller



U. S. DEPARTMENT OF COMMERCE / NATIONAL BUREAU OF STANDARDS / INSTITUTE FOR APPLIED TECHNOLOGY

Digitized by:

XM16E1 BARREL EROSION TEST

Rifle #10 (105083) BORE MEASUREMENTS - AIR GAGE

INCHES FROM SUPPRESSOR MUZZLE	- Thousands of Rounds -							
	0	3	6	10	14	16	18	19
2	.2203	.2204	.2204	.2204	.2204	.2203	.2200	.2205
3	.2203	.2203	.2204	.2204	.2204	.2202	.2198	.2204
4	.2203	.2202	.2204	.2203	.2203	.2199	.2203	.2204
5	.2203	.2204	.2204	.2204	.2201	.2199	.2203	.2204
6	.2203	.2204	.2204	.2204	.2203	.2200	.2203	.2205
7	.2203	.2204	.2200	.2204	.2203	.2197	.2207	.2205
8	.2203	.2202	.2201	.2203	.2203	.2202	.2207	.2205
9	.2203	.2205	.2202	.2204	.2200	.2202	.2204	.2205
10	.2203	.2204	.2201	.2203	.2201	.2202	.2204	.2205
11	.2203	.2204	.2201	.2202	.2201	.2204	.2205	.2207
12	.2203	.2204	.2201	.2202	.2201	.2203	.2206	
13	.2203	.2203	.2200	.2202	.2201	.2203	.2209	
14	.2201	.2201	.2196	.2201	.2202	.2206		
15	.2202	.2199	.2199	.2200	.2205			
16	.2202	.2201	.2201	.2202				
17	.2201	.2203	.2201	.2202				
18	.2701	.2203	.2201	.2205				
19	.2201	.2207	.2201					

XM16E1 BARREL EROSION TEST

Rifle #11 (109085) BORE MEASUREMENTS - AIR GAGE

INCHES FROM SUPPRESSOR MUZZLE	- Thousands of Rounds -										
	0	6	10	14	16	18	20	22	24	25	
2	.2198	.2198	.2199	.2199	.2197	.2199	.2199	.2203	.2200	.2202	
3	.2196	.2199	.2199	.2198	.2197	.2199	.2197	.2200	.2199	.2200	
4	.2197	.2198	.2200	.2196	.2197	.2199	.2197	.2201	.2198	.2199	
5	.2192	.2197	.2197	.2197	.2191	.2199	.2198	.2199	.2198	.2199	
6	.2193	.2198	.2198	.2197	.2196	.2197	.2199	.2201	.2200	.2197	
7	.2192	.2197	.2195	.2196	.2196	.2196	.2198	.2198	.2197	.2196	
8	.2198	.2200	.2198	.2198	.2196	.2197	.2195	.2201	.2200	.2197	
9	.2193	.2197	.2196	.2191	.2190	.2194	.2195	.2193	.2198	.2192	
10	.2194	.2197		.2191	.2191	.2194	.2191	.2195	.2196	.2194	
11	.2193	.2196		.2193	.2191	.2194	.2192	.2195	.2197	.2197	
12	.2193	.2196		.2192	.2190	.2192	.2192	.2195	.2197	.2199	
13	.2193	.2197		.2193	.2190	.2192	.2193	.2197	.2003		
14	.2193	.2195		.2194	.2190	.2195	.2195	.2199			
15	.2194	.2196		.2195	.2195	.2196	.2197				
16	.2194	.2195		.2196	.2194	.2200					
17	.2194	.2196		.2196	.2201						
18	.2195	.2197									
19	.2195	.2203									

APPENDIX F

REPORT
SA-TR11-5000

XM16E1 BARREL EROSION TEST

Rifle #12 (112429) BORE MEASUREMENTS - AIR GAGE

- Thousands of Rounds -

INCHES FROM
SUPPRESSOR
MUZZLE

2	.2200	.2202	.2202	.2201	.2199	.2201	.2201	.2199	.2205
3	.2200	.2201	.2203	.2201	.2196	.2202	.2200	.2201	.2205
4	.2200	.2202	.2198	.2195	.2192	.2202	.2200	.2198	.2205
5	.2200	.2202	.2198	.2198	.2192	.2202	.2200	.2195	.2199
6	.2000	.2202	.2202	.2199	.2197	.2201	.2200	.2202	.2203
7	.2200	.2201	.2201	.2200	.2196	.2201	.2202	.2203	.2205
8	.2200	.2201	.2202	.2201	.2198	.2201	.2201	.2199	.2205
9	.2200	.2201	.2196	.2197	.2195	.2201	.2199	.2204	.2205
10	.2200	.2201	.2194	.2197	.2196	.2201	.2199	.2205	.2205
11	.2200	.2198	.2195	.2195	.2196	.2200	.2198	.2205	.2205
12	.2200	.2198	.2197	.2196	.2198	.2200	.2199	.2204	.2207
13	.2200	.2198	.2197	.2198	.2199	.2200	.2202	.2208	
14	.2200	.2001	.2199	.2199	.2199	.2201	.2203		
15	.2200	.2201	.2201	.2200	.2199	.2202			
16	.2200	.2200	.2200	.2200	.2199				
17	.2200	.2200	.2200	.2200	.2209				
18	.2200	.2199	.2199						
19	.2199	.2206							

REPORT
SA-TR11-5000

APPENDIX G

MALFUNCTION DATA

SUMMARY(1) Gun Serial No. 108860

<u>TOTAL</u>		<u>MALFUNCTION</u>
19	(FF)	FAIL TO FEED
1	(LBF)	BOLT NOT LOCKED
29	(HLB)	LIGHT BLOW *
22	(HFH)	HAMMER FOLLOW HOME
1	(XF)	FAIL TO EXTRACT
162	(JF)	FAIL TO EJECT
67	(MBR)	BOLT FAILED TO REMAIN OPEN AFTER LAST RD.
24	(MCI)	BOLT STOP INTERRUPTED FIRING CYCLE
11	(MSB)	SPIN BACK OF EMPTY CARTRIDGE INTO RECEIVER
<u>336</u>		<u>TOTAL MALFUNCTIONS</u>

27000

ROUNDS FIRED

(2) GUN SERIAL NO 123225SUMMARY

<u>TOTAL</u>		<u>MALFUNCTION</u>
10	(FF)	FAIL TO FEED
0	(LBF)	BOLT NOT LOCKED
17	(HLB)	LIGHT BLOW
17	(HFH)	HAMMER FOLLOW HOLE
0	(XF)	FAIL TO EXTRACT
266	(JF)	FAIL TO EJECT
200	(MBR)	BOLT FAILED TO REMAIN OPEN AFTER LAST ROUND
11	(MCI)	BOLT STOP INTERRUPTED FIRING CYCLE
16	(MSB)	SPIN BACK OF EMPTY CARTRIDGE INTO RECEIVER
<u>534</u>		<u>TOTAL MALFUNCTIONS</u>
35,000		<u>ROUNDS FIRED</u>

APPENDIX C

REPORT
SA-TR11-5000(3) GUN SERIAL NO 118603

SUMMARY

<u>TOTAL</u>	<u>MALFUNCTION</u>
25	(FF) FAIL TO FEED
1	(FUR) FAIL TO FEED, UNDER RIDE
6	(HLB) LIGHT BLOW
4	(HFH) HAMMER FOLLOW HOME
2	(HFR) HAMMER FAILED TO RELEASE
197	(JF) FAIL TO EJECT
126	(NBR) BOLT FAILED TO REMAIN OPEN AFTER LAST RD
45	(MCI) BOLT STOP INTERRUPTED FIRING CYCLE
12	(MSB) SPIN BACK OF EMPTY CARTRIDGE INTO RECEIVER
1	(MRG) RUN AWAY GUN
1	(AMR) MISFIRE (AMMUNITION DEFECT)
419	<u>TOTAL GUN MALFUNCTIONS</u>
1	<u>AMMUNITION DEFECT</u>
35,000	<u>ROUNDS FIRED</u>

REPORT
SA-TR11-5000

APPENDIX C

SUMMARY

(4) Gun Serial No. 122033

<u>TOTAL</u>	<u>MALFUNCTIONS</u>
8	(FF) FAIL TO FEED
1	(FOR) OVER RIDE
3	(FUR) UNDER RIDE
4	(CF) FAIL TO CHAMBER
1	(LBF) BOLT NOT LOCKED
2	(HLB) LIGHT BLOW
10	(HFH) HAMMER FOLLOW HOME
64	(JF) FAIL TO EJECT
105	(NBR) BOLT FAILED TO REMAIN OPEN AFTER LAST ROUND
25	(MCI) BOLT STOP INTERRUPTED FIRING CYCLE
7	(MSB) SPIN BACK OF EMPTY CARTRIDGE INTO RECEIVER
230	<u>TOTAL MALFUNCTIONS</u>
29000	<u>ROUNDS FIRED</u>

SUMMARY(5) Gun Serial No. 113821

<u>TOTAL</u>		<u>MALFUNCTION</u>
44	(FF)	FAIL TO FEED
1	(FUR)	FAIL TO FEED UNDER RIDE
17	(HLB)	LIGHT BLOW
1	(HPH)	HAMMER FOLLOW HOME
138	(JF)	FAIL TO EJECT
677	(MBR)	BOLT FAIL TO LOCK TO REAR AFTER LAST ROUND
74	(MCI)	BOLT STOP INTERRUPTED FIRING CYCLE
2	(MSB)	SPIN BACK OF EMPTY CARTRIDGE INTO RECEIVER
3	(MM)	MAGAZINE, DEFECTIVE LIPS
<u>957</u>		<u>TOTAL MALFUNCTIONS</u>
35000		ROUNDS FIRED

SUMMARY(6) Gun Serial No. 122994

<u>TOTAL</u>		<u>MALFUNCTIONS</u>
18	(FF)	FAIL TO FEED
1	(LBF)	BOLT NOT LOCKED
7	(HLB)	LIGHT BLOW
6	(HPH)	HAMMER FOLLOW HOME
4	(XF)	FAIL TO EXTRACT
190	(JF)	FAIL TO EJECT
86	(MBR)	BOLT FAILED TO REMAIN TO REAR AFTER LAST ROUND
13	(MCI)	BOLT STOP INTERRUPTED FIRING CYCLE
1	(MSB)	SPIN BACK OF EMPTY CART. INTO RECEIVER
326		<u>TOTAL MALFUNCTIONS</u>
30000		ROUNDS FIRED

APPENDIX C

REPORT
SA-TR11-5000SUMMARY(7) Gun Serial No. 121654

<u>TOTAL</u>		<u>MALFUNCTION</u>
2	(FF)	FAILURE TO FEED
21	(HLB)	LIGHT BLOW
152	(JF)	FAILURE TO EJECT
98	(MBR)	BOLT FAILED TO REMAIN OPEN AFTER LAST ROUND
1	(MSB)	SPIN BACK OF EMPTY CARTRIDGE INTO RECEIVER

274TOTAL MALFUNCTIONS

22,000

ROUNDS FIRED

REPORT
SA-TR11-5000

APPENDIX C

SUMMARY(8) Gun Serial No. 108860

<u>TOTAL</u>		<u>MALFUNCTION</u>
4	(FF)	FAIL TO FEED
18	(HLB)	LIGHT BLOW
8	(XF)	FAIL TO EXTRACT
82	(JF)	FAIL TO EJECT
163	(MBR)	BOLT FAILED TO REMAIN OPEN AFTER LAST RD
6	(MCI)	BOLT STOP INTERRUPTED FIRING CYCLE
3	(MSB)	SPIN BACK OF EMPTY CARTRIDGE INTO RECEIVER

284TOTAL MALFUNCTIONS

21,000

ROUNDS FIRED

SUMMARY

(9) Gun Serial No. 109068

<u>TOTAL</u>		<u>MALFUNCTION</u>
40	(FF)	FAIL TO FEED
10	(FDF)	DOUBLE FEED
3	(FOR)	FAIL TO FEED, OVER RIDE
1	(CF)	FAIL TO CHAMBER
23	(HLB)	LIGHT BLOW
4	(HPH)	HAMMER FOLLOW HOME
10	(XF)	FAIL TO EXTRACT
287	(JF)	FAIL TO EJECT
86	(MBR)	BOLT FAILED TO REMAIN OPEN AFTER LAST ROUND
16	(MCI)	BOLT STOP INTERRUPTED FIRING CYCLE
14	(MSB)	SPIN BACK OF EMPTY CART. CASE INTO RECEIVER
194		TOTAL MALFUNCTIONS
27000		ROUNDS FIRED

(10) GUN SERIAL NO 105083

SUMMARY

<u>TOTAL</u>		<u>MALFUNCTIONS</u>
17	(FF)	FAIL TO FEED
1	(FDF)	DOUBLE FEED
1	(LHF)	BOLT NOT FULLY LOCKED
5	(HPH)	HAMMER FOLLOW HOME
5	(HLB)	LIGHT BLOW
3	(XF)	FAIL TO EXTRACT
129	(JF)	FAIL TO EJECT
70	(MBR)	BOLT FAIL TO REMAIN OPEN AFTER LAST ROUND
5	(MSB)	SPIN BACK OF EMPTY CARTRIDGE CASE INTO RECEIVER.
11	(MCI)	BOLT STOP INTERRUPTED FIRING CYCLE.
247		TOTAL GUN MALFUNCTIONS
19,000		ROUNDS FIRED

SUMMARY(11) Gun Serial No. 109085

<u>TOTAL</u>		<u>MALFUNCTION</u>
2	(FF)	FAIL TO FEED
1	(FUR)	FAIL TO FEED, BOLT UNDERIDE
5	(HLB)	LIGHT BLOW
4	(HFR)	HAMMER FAILED TO RELEASE
3	(XF)	FAIL TO EXTRACT
81	(JF)	FAIL TO EJECT
44	(MBR)	BOLT FAILED TO REMAIN OPEN AFTER LAST RD.
8	(MSB)	SPIN BACK OF EMPTY CARTRIDGE INTO RECEIVER
<u>148</u>		<u>TOTAL MALFUNCTIONS</u>
25,000		ROUNDS FIRED

(12) GUN SERIAL NO 122429SUMMARY

<u>TOTAL</u>		
2	(FF)	FAIL TO FEED
6	(FDF)	DOUBLE FEED
2	(LBF)	BOLT FAIL TO LOCK
5	(HLB)	LIGHT BLOW
6	(XF)	FAIL TO EXTRACT
169	(JF)	FAIL TO EJECT
76	(MBR)	BOLT FAILED TO REMAIN OPEN AFTER LAST ROUND
2	(MSB)	SPIN BACK OF EMPTY CARTRIDGE CASE INTO RECEIVER
1	(MCL)	BOLT STOP INTERRUPTED FIRING CYCLE
1		AUTOMATIC FIRE DURING SEMI-AUTOMATIC FIRE
1		SEMI-AUTOMATIC FIRE DURING AUTOMATIC FIRE
<u>419</u>		<u>TOTAL GUN MALFUNCTIONS</u>
23000		ROUNDS FIRED

APPENDIX C

REPORT
SA-TP11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(1) Gun Serial No. 108860

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MSB	640	A	-	FF	9440	S	7
HLB	742	A	-	FF	9480	S	9
HLB	745	A	-	MBR	9740	A	7
HLB	747	A	-	JF	9924	A	2
HLB	749	A	-	JF	9950	A	3
AUTO SEAR REPLACED	759	-	-	MCI	10067	S	4
MSB	1625	S	-	JF	10165	A	9
MSB	1629	S	-	JF	10190	A	10
MSB	2381	A	10	JF	10236	S	12
LBF	2501	A	1	JF	10279	S	14
MSB	2689	S	10	JF	10296	S	15
MSB	4067	S	4	JF	10306	A	1
MSB	4165	A	9	JF	10312	A	1
MSB	4173	A	9	JF	10318	A	1
MSB	4249	S	13	JF	10336	A	2
MSB	4494	S	10	JF	10339	A	2
MSB	4769	A	9	EJECTOR SPRING REPLACED	10360	-	-
FF	4902	A	1	FF	11019	S	1
FF	5640	S	7	MBR	11060	S	3
FF	6719	A	6	FF	11080	S	4
FF	7678	S	4	FF	11140	A	7
FF	8160	A	8	MBR	11260	S	13

- 117 -

REPORT
SA-TP11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG

(1) Gun Serial No. 108860

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
BOLT RINGS REPLACED	13141	-	-	JF	14365	A	4
EXTRACTOR REPLACED	13428	-	-	JF	14366	A	4
HLB	13515	A	11	JF	14546	A	13
HLB	13518	A	11	JF	14569	A	14
HLB	13548	A	13	MCI	14585	A	15
HLB	13574	A	14	JF	14607	S	1
HLB	13724	A	7	MCI	14608	S	1
HLB	13751	A	8	JF	14672	S	5
MCI	13910	A	1	MCI	14710	A	6
MCI	13915	A	1	JF	14738	A	7
BOLT & CARRIER REPLACED	14000	-	-	JF	14745	A	8
JF	14034	S	2	JF	14751	A	8
HLB	14122	A	7	MCI	14930	A	2
HAMMER SPRING REPLACED	14122	-	-	JF	15004	S	1
JF	14162	A	9	JF	15156	A	8
JF	14251	S	13	MCI	15170	A	9
JF	14273	S	14	JF	15187	A	10
JF	14282	S	15	JF	15275	S	14
JF	14291	S	15	JF	15317	A	1
JF	14312	A	1	MCI	15330	A	2
MCI	14325	A	2	JF	15350	A	3
JF	14351	A	3	JF	15368	A	4

- 118 -

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(1) Gun Serial No. 108860

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	15393	A	5	JF	15912	A	1
JF	15439	S	7	JF	15921	A	2
JF	15484	S	10	JF	15950	A	3
JF	15517	A	11	JF	15975	A	4
JF	15531	A	12	JF	16002	S	1
JF	15540	A	12	EJECTOR SPRING 16100 REPLACED	-	-	-
MCI	15570	A	14	JF	16179	A	9
JF	15586	A	15	JF	16319	A	1
JF	15588	A	15	MCI	16439	S	7
JF	15626	S	2	MCI	16639	A	12
FF	15630	S	2	MCI	16649	A	13
BOLT CARRIER KEY TIGHTENED	15630	-	-	FF	16599	A	15
JF	15710	A	6	MBR	16760	A	8
JF	15715	A	6	MCI	16919	A	1
JF	15736	A	7	JF	17338	A	2
MCI	15770	A	9	HFH	17358	A	3
JF	15810	S	11	JF	17398	A	5
JF	15817	S	11	JF	17478	S	9
JF	15848	S	13	MCI	17479	S	9
JF	15854	S	13	HFH	17525	A	11
JF	15864	S	14	HFH	17526	A	11
JF	15877	S	14	HFH	17527	A	11

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(1) Gun Serial No. 108860

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	17535	A	12	JF	17829	S	12
JF	17536	A	12	JF	17830	S	12
HFH	17550	A	13	GUIDE ASSY REPLACED	17830	-	-
HFH	17551	A	13	MBR	17880	S	14
HFH	17552	A	13	XF	17922	A	2
HFH	17575	A	14	MBR	17940	A	3
HFH	17576	A	14	MBR	18000	A	5
HFH	17577	A	14	MBR	18120	A	6
HFH	17583	A	15	MBR	18140	A	7
HFH	17584	A	15	MBR	18160	A	8
HFH	17585	A	15	MBR	18180	A	9
JF	17697	S	5	MBR	18200	A	10
HFH	17709	A	6	MBR	18220	S	11
HFH	17710	A	6	JF	18300	S	15
HFH	17711	A	6	MBR	18340	A	2
HFH	17730	A	7	MBR	18400	A	5
HFH	17731	A	7	MBR	18440	S	7
HFH	17732	A	7	MBR	18460	S	8
HFH	17745	A	8	MBR	18480	S	9
HFH	17746	A	8	MBR	18500	S	10
HFH	17747	A	8	MBR	18520	A	11
JF	17814	S	11	MBR	18540	A	12

ENG BR
RES & ENG DIV

MALFUNCTIONS AND FAILURES

(1) Gun Serial No. 108860

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	18550	A	13	MBR	19500	S	10
MBR	18560	A	13	MBR	19560	A	13
MBR	18580	A	14	MBR	19580	A	14
MBR	18620	S	1	MBR	19800	A	10
MBR	18640	S	2	MBR	19940	A	2
MBR	18660	S	3	MBR	19980	A	4
MBR	18680	S	4	MBR	20600	A	15
MBR	18760	A	8	MBR	20720	A	6
MBR	18780	A	9	FF	20722	A	7
MBR	18800	A	10	MBR	20840	S	13
MBR	18860	S	13	MBR	20860	S	14
MBR	18880	S	14	MBR	20900	S	15
MBR	18900	S	15	FF	20989	A	5
MBR	18940	A	2	FF	21140	A	7
JF	18960	A	3	FF	21440	S	7
MCI	19125	A	7	MBR	21860	S	13
MBR	19180	A	9	MBR	21880	S	14
BOLT REPLACED	19220	-	-	EXTRACTOR SPRING REPLACED	22000	-	-
MBR	19280	S	14	MBR	22200	A	10
MBR	19320	A	1	MBR	22380	A	4
MBR	19400	A	5	MBR	22500	S	10
MBR	19490	S	9	MBR	22560	A	13

MALFUNCTIONS AND FAILURES

(1) Gun Serial No. 108860

ENG BR
RES & ENG DIV

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	22580	A	14	HLB	23470	S	8
MBR	22600	A	15	JF	23471	S	8
MBR	22640	S	2	JF	23472	S	8
MBR	22760	A	8	JF	23473	S	8
MBR	22800	A	10	JF	23488	S	9
MBR	22960	A	3	JF	23489	S	9
JF	23159	A	8	HLB	23523	A	12
MBR	23160	A	8	HLB	23524	A	12
HLB	23181	A	10	JF	23525	A	12
HLB	23202	S	11	JF	23526	A	12
HLB	23222	S	12	HLB	23628	S	1
HLB	23242	S	13	HLB	23629	S	1
HLB	23272	S	14	HLB	23632	S	2
HLB	23282	S	15	HLB	23633	S	2
MBR	23360	A	3	JF	23699	S	5
JF	23368	A	4	JF	23700	S	5
JF	23369	A	4	MBR	23760	A	8
HLB	23381	A	5	JF	23809	S	11
HLB	23417	S	6	JF	23857	S	13
HLB	23430	S	7	JF	23875	S	14
HLB	23468	S	8	JF	23876	S	14
HLB	23469	S	8	JF	23877	S	14

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(1) Gun Serial No. 108860

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
FF	23888	S	15	EXTRACTOR PIN REPLACED	24880	-	-
FF	23917	A	1	JF	24900	S	15
JF	23922	A	2	MBR	24980	A	4
JF	23923	A	2	JF	25000	A	5
JF	23924	A	2	JF	25052	S	3
JF	23950	A	3	JF	25076	S	4
JF	23951	A	3	JF	25079	S	4
JF	23952	A	3	JF	25083	S	5
JF	23970	A	4	JF	25086	S	5
*JF	23971	A	4	JF	25113	A	6
JF	24133	A	7	JF	25139	A	7
JF	24195	A	10	JF	25258	S	13
JF	24355	A	4	JF	25262	S	14
JF	24470	S	9	JF	25276	S	14
MBR	24580	A	14	JF	25278	S	14
JF	24586	A	15	JF	25378	A	4
JF	24670	S	4	JF	25379	A	4
JF	24675	S	4	JF	25437	S	7
FF	24710	A	7	JF	25438	S	7
JF	24750	A	10	JF	25452	S	8
JF	24875	S	14	MCI	25459	S	8
JF	24880	S	14	JF	25611	S	1
				JF	25616	S	1

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(1) Gun Serial No. 108860

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	25622	S	2	JF	25872	S	14
JF	25638	S	2	JF	25874	S	14
JF	25647	S	3	JF	25876	S	14
JF	25665	S	4	JF	25890	S	15
JF	25668	S	4	JF	25898	S	15
JF	25682	S	5	JF	25902	A	1
JF	25693	S	5	JF	25907	A	1
JF	25702	A	6	JF	25914	A	1
JF	25718	A	6	JF	26004	S	1
JF	25719	A	6	JF	26018	S	1
MCI	25739	A	7	EJECTOR SPRING REPLACED	26100	-	-
JF	25750	A	8	MCI	26119	A	7
JF	25790	A	10	JF	26170	A	8
JF	25791	A	10	MCI	26179	A	9
JF	25795	A	10	MCI	26300	A	1
JF	25830	S	12	JF	26372	A	4
JF	25841	S	13	MCI	26419	S	7
JF	25843	S	13	EXTRACTOR SPRING REPLACED	26478	-	-
JF	25847	S	13	JF	26792	S	5
JF	25851	S	13				
JF	25857	S	13				
JF	25870	S	14				

MALFUNCTIONS AND FAILURES (2) Gun Serial No. 123225				ENG BR RES & ENG DIV 19 May 65			
MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MSB	1304	A	16	MBR	7180	A	22
MSB	1571	A	29	MBR	7180	A	24
MSB	2701	A	16	MBR	7200	A	25
MSB	2764	A	19	MBR	7380	A	19
MSB	3318	A	16	EJECTOR SPRING REPLACED	8000	-	-
MSB	3955	A	18	FF	10600	A	30
MSB	3970	A	19	BOLT RINGS REPLACED	11000	-	-
FF	5103	A	26	BUFFER RINGS REPLACED	11000	-	-
JF	5124	A	27	JF	11221	S	26
JF	5411	S	26	JF	11231	S	27
JF	5498	S	30	MBR	11240	S	27
JF	5504	A	16	JF	11283	S	30
MBR	5760	A	28	JF	11303	A	17
MBR	5960	A	23	JF	11307	A	17
MBR	6200	A	25	JF	11318	A	17
MBR	6360	A	18	JF	11323	A	18
MBR	6400	A	20	EJECTOR SPRING REPLACED	11360	-	-
MBR	6580	A	29	HLB	11600	A	20
MBR	6720	A	21	HAMMER SPRING REPLACED	11600	-	-
MBR	6760	A	23	HLB	12545	A	28
MBR	6980	A	18	HLB	12549	A	28

* NUMEROUS MBR'S WERE NOT RECORDED BETWEEN 10,000 and 11,000 RDS.

MALFUNCTIONS AND FAILURES (2) Gun Serial No. 123225				ENG BR RES & ENG DIV 19 May 65			
MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
HLB	12555	A	28	MBR	14440	S	22
HLB	12566	A	29	MBR	14460	S	23
HLB	12572	A	29	MBR	14480	S	24
HLB	12578	A	29	MBR	14500	S	25
HLB	12705	A	21	MBR	14520	A	26
HLB	12710	A	21	MBR	14540	A	27
HLB	12715	A	21	MBR	14560	A	28
HLB	13324	A	16	MBR	14580	A	29
HLB	13338	A	17	MBR	14620	S	16
HLB	13341	A	18	MBR	14640	S	17
HLB	13371	A	19	MBR	14700	S	20
HLB	13382	A	20	MBR	14720	A	21
BOLT RINGS REPLACED	13540	-	-	MBR	14740	A	22
BOLT & CARRIER REPLACED	14000	-	-	MBR	14800	A	25
MBR	14060	S	18	MBR	14840	S	27
MBR	14120	A	21	MBR	15120	A	21
MBR	14160	A	23	MBR	15160	A	23
MBP	14180	A	24	MBR	15220	S	26
MCI	14219	S	26	MBR	15240	S	27
MBR	14300	S	30	MBR	15280	S	29

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

(2) Gun Serial No. 123225

ENG BR
RES & ENG DIV
19 May 65

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	15300	S	30	MBR	15840	S	27
MBR	15320	A	16	MBR	15880	S	29
MBR	15340	A	17	MBR	16020	S	16
MBR	15380	A	19	MBR	16040	S	17
MBR	15400	A	20	MBR	16080	S	19
MBR	15420	S	21	MBR	16100	S	20
MBR	15440	S	22	MBR	16120	A	21
MBR	15460	S	23	MBR	16140	A	22
MBR	15500	S	25	MBR	16160	A	23
MBR	15540	A	27	MBR	16180	A	24
MBR	15560	A	28	MBR	16200	A	25
MBR	15580	A	29	MBR	16220	S	26
MBR	15600	A	30	MBR	16240	S	27
MBR	15620	S	16	MBR	16280	S	29
MBR	15680	S	19	MBR	16300	S	30
MBR	15700	S	20	MBR	16320	A	16
MCI	15710	A	21	MBR	16340	A	17
MCI	15715	A	21	MBR	16380	A	19
MBR	15760	A	23	FF	16479	S	24
MBR	15780	A	24	MCI	16505	A	26
MBR	15820	S	26	MCI	16510	A	26

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

(2) Gun Serial No. 123225

ENG BR
RES & ENG DIV
19 May 65

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MCI	16525	A	27	MBR	17800	A	25
MCI	16530	A	27	MBR	17900	S	30
HFH	16715	A	21	MBR	17920	A	16
MBR	16760	A	23	HFH	17924	A	17
MBR	16860	S	28	HFH	17937	A	18
MBR	16900	S	30	MBR	17980	A	19
MBR	16940	A	17	MBR	18000	A	20
MCI	17379	A	18	ACTION SPRING REPLACED	18000	-	-
JF	17402	S	21	MBR	18100	S	20
MBR	17460	S	23	MBR	18120	A	21
MBR	17520	A	26	MBR	18160	A	23
MBR	17540	A	27	MBR	18180	A	24
MBR	17560	A	28	MBR	18200	A	25
MBR	17580	A	29	JF	18218	S	26
MBR	17600	A	30	MBR	18220	S	26
MBR	17640	S	17	JF	18223	S	27
MBR	17660	S	18	MBR	18240	S	27
MBR	17700	S	19	JF	18268	S	29
MBR	17720	A	21	JF	18277	S	30
MBR	17760	A	23	MBR	18280	S	30
MBR	17780	A	24	MBR	18340	A	16

APPENDIX G

 REPORT
 SA-TR11-5000

 REPORT
 SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES				ENG BR RES & ENG DIV 19 May 65			
(2) Gun Serial No. 123225							
MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	18380	A	19	JF	18835	S	28
MBR	18400	A	20	JF	18836	S	28
MBR	18420	S	21	JF	18837	S	28
JF	18427	S	22	JF	18848	S	28
JF	18448	S	23	JF	18849	S	28
MBR	18480	S	29	JF	18850	S	28
MBR	18500	S	25	MBR	18900	S	30
JF	18518	A	26	JF	18918	A	16
MBR	18540	A	27	MBR	18960	A	18
JF	18552	A	28	JF	19089	S	20
MBR	18620	S	16	JF	19164	A	24
MBR	18640	S	17	JF	19224	S	27
JF	18644	S	18	JF	19225	S	27
JF	18645	S	18	JF	19226	S	27
JF	18646	S	18	JF	19227	S	27
MBR	18680	S	19	FF	19242	S	28
MBR	18700	S	20	JF	19261	S	29
JF	18719	A	21	JF	19264	S	29
MBR	18720	A	21	JF	19266	S	30
MBR	18760	A	23	JF	19276	S	30
MBR	18800	A	25	JF	19305	A	16

- 129 -

MALFUNCTIONS AND FAILURES				ENG BR RES & ENG DIV 19 May 65			
(2) Gun Serial No. 123225							
MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	19310	A	16	JF	19741	A	23
JF	19315	A	16	JF	19832	S	27
JF	19330	A	17	JF	19874	S	29
JF	19350	A	18	JF	19875	S	29
JF	19380	A	19	JF	19931	A	17
EJECTOR SPRING REPLACED	19380	-	-	JF	19972	A	19
JF	19405	S	21	JF	19978	A	19
JF	19448	S	23	JF	20012	S	16
JF	19449	S	23	JF	20026	S	17
JF	19475	S	24	JF	20033	S	17
JF	19500	S	25	JF	20034	S	17
BOLT KEY TIGHTENED	19500	-	-	JF	20037	S	17
JF	19525	A	27	JF	20044	S	18
JF	19545	A	28	JF	20066	S	19
JF	19572	A	29	JF	20067	S	19
MBR	19580	A	29	JF	20090	S	20
MBR	19600	A	30	JF	20202	S	26
JF	19604	S	16	JF	20209	S	26
JF	19607	S	16	JF	20224	S	27
JF	19625	S	17	JF	20251	S	28
JF	19630	S	17	JF	20284	S	30

- 130 -

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

(2) Gun Serial No. 123225

ENG BR
RES & ENG DIV
19 May 65

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	20286	S	30	JF	20571	A	29
JF	20297	S	30	JF	20582	A	30
FF	20308	A	16	JF	20589	A	30
FF	20309	A	16	JF	20593	A	30
FF	20310	A	16	JF	20598	A	30
FF	20323	A	17	JF	20604	S	16
BOLT KEY TIGHTENED	20400	-	-	JF	20608	S	16
JF	20406	S	21	JF	20616	S	16
MBR	20420	S	21	JF	20625	S	17
JF	20428	S	22	JF	20627	S	17
JF	20448	S	23	JF	20629	S	17
JF	20452	S	23	BOLT REPLACED	20630	-	-
JF	20468	S	24	MBR	20760	A	22
JF	20479	S	24	MBR	20840	S	27
JF	20496	S	25	MBR	20860	S	27
JF	20517	A	26	MBR	20900	S	30
JF	20535	A	27	JF	20977	A	19
MBR	20540	A	27	MBR	21180	A	24
JF	20555	A	28	MBR	21240	S	27
MBR	20560	A	28	MBR	21340	A	17
JF	20566	A	29	MBR	21380	A	19

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

(2) Gun Serial No. 123225

ENG BR
RES & ENG DIV
19 May 65

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	21500	S	25	JF	22893	S	30
MBR	21520	A	26	MBR	22920	A	16
MBR	21540	A	27	EXTRACTOR SPRING REPLACED	22920	-	-
JF	21677	S	19	JF	22940	A	17
JF	21700	S	20	MBR	22960	A	18
MBR	21760	A	23	JF	22975	A	19
JF	21882	S	27	JF	22976	A	19
MBR	22020	S	16	MBR	23000	A	20
MBR	22040	S	17	JF	23094	S	20
MBR	22100	S	20	JF	23159	A	21
JF	22472	S	24	JF	23215	S	26
MBR	22500	S	25	JF	23216	S	26
MBR	22560	A	28	JF	23251	S	28
JF	22589	A	27	JF	23252	S	28
JF	22658	S	17	MBR	23260	S	28
JF	22654	S	18	JF	23268	S	30
JF	22689	S	19	JF	23269	S	30
JF	22699	S	20	JF	23270	S	30
MBR	22760	A	23	JF	23271	S	30
MBR	22800	A	25	EXTRACTOR PIN REPLACED	23300	-	-
JF	22892	S	30	JF	23338	A	17

APPENDIX G

REPORT
SA-TR11-5000REPORT
SA-TR11-5000

APPENDIX G

MALFUNCTIONS AND FAILURES				ENG BR RES & ENG DIV 19 May 65			
(2) Gun Serial No. 123225							
MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	23379	A	19	JF	24539	A	27
JF	23388	A	20	JF	24583	A	30
MBR	23460	S	23	JF	24613	S	16
MBR	23480	S	24	MBR	24620	S	16
JF	23497	S	25	JF	24900	S	30
JF	23540	A	27	HAMMER SPRING REPLACED	25000	-	-
JF	23558	A	28	BOLT REPLACED	25000	-	-
JF	23598	A	30	JF	25072	S	19
JF	23614	S	16	MBR	25240	S	27
JF	23629	S	17	MBR	25300	S	30
JF	23689	S	19	MBR	25380	A	19
JF	23691	S	20	MBR	25480	S	24
JF	23723	A	22	JF	25498	S	25
JF	23743	A	23	MBR	25560	A	28
MBR	23880	S	29	JF	25674	S	19
JF	23891	S	30	JF	25698	S	20
MBR	24340	A	17	JF	25796	A	25
JF	24473	S	24	JF	25797	A	25
JF	24478	S	24	JF	25798	A	25
MBR	24500	S	25	JF	25912	A	16
MBR	24520	A	26	JF	26218	S	26

MALFUNCTIONS AND FAILURES				ENG BR RES & ENG DIV 19 May 65			
(2) Gun Serial No. 123225							
MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	26250	S	28	JF	27372	A	19
JF	26256	S	28	JF	27374	A	19
JF	26272	S	29	JF	27396	A	20
JF	26290	S	30	JF	27398	A	20
JF	26292	S	30	MBR	27480	S	24
JF	26296	S	30	JF	27515	A	26
JF	26465	A	18	JF	27536	A	27
JF	26472	A	19	JF	27547	A	28
JF	26478	A	19	JF	27570	A	29
MBR	26480	A	20	JF	27578	A]	29
JF	26511	A	26	JF	27708	A	21
JF	26551	A	28	JF	27717	A	21
JF	26574	A	29	MSB	27754	A	23
JF	26598	A	30	JF	27762	A	24
JF	26739	S	17	MCI	27762	A	24
JF	26797	S	20	MSB	27784	A	25
JF	26874	A	24	MSB	27798	A]	25
JF	26915	A	16	JF	27934	A	16
MBR	26940	A	17	JF	27942	A	17
EXTRACTOR REPLACED	26966	-	-	MSB	27945	A	17
MCI	27060	S	18	HLB	27960	A	18

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

(2) Gun Serial No. 123225

ENG BR
RES & ENG DIV
19 May 65

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
HLB	27961	A	19	HFH	29405	S	21
MCI	28725	S	20	HFH	29408	S	21
JF	28732	A	22	HFH	29421	S	22
MSB	28791	A	25	HFH	29428	S	22
JF	28917	A	16	HFH	29435	S	22
MSB	28934	A	17	GUIDE ASSY REPLACED	29458	-	-
FF	28958	A	18	JF	29578	A	29
JF	28966	A	19	JF	29638	S	17
JF	28968	A	19	JF	29655	S	18
JF	28978	A	19	EXTRACTOR SPRING REPLACED	29772	-	-
MSB	28993	A	20	EXTRACTOR PIN REPLACED	29772	-	-
MBR	29140	A	22	JF	30160	A	23
HFH	29309	A	16	MSB	30260	S	28
HFH	29314	A	16	MBR	30300	S	30
HFH	29322	A	17	MBR	30320	A	16
HFH	29323	A	17	JF	30623	S	17
HFH	29325	A	17	JF	31083	S	20
HFH	29327	A	17	JF	31178	A	24
HFH	29362	A	19	JF	31179	A	24
HFH	29366	A	19	JF	31180	A	24
HFH	29385	A	20	EXTRACTOR SPRING REPLACED	31180	-	-

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

(2) Gun Serial No. 123225

ENG BR
RES & ENG DIV
19 May 65

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	31199	A	25	MBR	32680	S	19
MBR	31220	S	26	MBR	32700	S	20
MBR	31420	S	21	JF	32776	A	23
MBR	31440	S	22	MBR	32780	A	24
MBR	31460	S	23	MBR	32820	S	26
MBR	31480	S	24	MBR	32840	S	27
MBR	31580	A	29	JF	32844	S	28
MBR	32180	A	24	MBR	32860	S	28
MBR	32200	A	25	MBR	32969	A	19
MBR	32220	S	26	BOLT REPLACED	32969	-	-
MBR	32240	S	27	MBR	33100	S	25
FF	32251	S	28	JF	33132	A	27
MBR	32260	S	28	JF	33187	A	30
MBR	32280	S	29	JF	33223	S	17
MBR	32300	S	30	JF	33227	S	17
MBR	32340	A	17	JF	33229	S	17
MBR	32400	A	20	JF	33242	S	18
MBR	32500	S	25	JF	33249	S	18
MBR	32540	A	27	JF	33257	S	18
MBR	32580	A	29	JF	33267	S	19
MBR	32660	S	18	JF	33270	S	19

APPENDIX G

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

(2) Gun Serial No. 123225

ENG BR
RES & ENG DIV
19 May 65

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	33274	S	19	JF	34245	S	28
JF	33276	S	19	JF	34250	S	28
MBR	33280	S	19	JF	34258	S	28
JF	33281	S	20	JF	34263	S	29
JF	33287	S	20	JF	34267	S	29
JF	33292	S	20	JF	34270	S	29
JF	33296	S	20	JF	34278	S	29
MBR	33320	A	21	JF	34305	A	16
EJECTOR SPRING REPLACED	33300	-	-	JF	34312	A	16
MBR	33380	A	25	JF	34316	A	16
JF	33572	A	19	JF	34318	A	16
JF	33596	A	20	JF	34326	A	17
JF	33655	S	24	JF	34330	A	17
JF	33804	S	17	JF	34333	A	17
JF	33810	S	17	JF	34339	A	17
JF	33815	S	17	JF	34341	A	18
JF	33819	S	17	JF	34345	A	18
JF	33919	A	22	JF	34348	A	18
JF	34151	A	23	JF	34350	A	18
JF	34239	S	27	JF	34362	A	19
JF	34242	S	28	JF	34365	A	19

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

(2) Gun Serial No. 123225

ENG BR
RES & ENG DIV
19 May 65

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	34368	A	19				
JF	34372	A	19				
JF	34377	A	19				
JF	34385	A	20				
JF	34390	A	20				
JF	34397	A	20				
EJECTOR SPRING REPLACED	34400	-	-				
JF	34611	A	26				
JF	34643	A	28				
JF	34655	A	28				
JF	34684	A	30				
JF	34692	A	30				
JF	34756	S	19				
MSB	34877	S	29				

APPENDIX G*

MALFUNCTIONS AND FAILURES
(3) Gun Serial No. 118603REPORT
SA-TR11-5000ENG BR
RES & ENG DIV
19 May 65

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MSB	617	A	34	MSB	4728	A	42
MSB	1252	S	43	MBR	5020	S	41
MSB	1391	A	34	MBR	5120	A	31
MSB	1488	S	40	HFR	5136	A	32
MSB	1624	S	32	MBR	5200	A	35
FF	1664	S	34	MBR	5220	S	36
MSB	2102	A	41	MBR	5280	S	39
MSB	2231	S	32	MBR	5300	S	40
MBR	2680	S	44	MBR	5320	A	41
MBR	2740	A	37	MBR	5340	A	42
MBR	3400	A	35	MBR	5360	A	43
MBR	3440	S	37	MBR	5400	A	45
MBR	3460	S	38	MBR	5420	S	31
MBR	3540	A	42	MBR	5500	S	35
MBR	3560	A	43	MBR	5680	S	44
MBR	3740	A	37	MBR	5700	S	45
MBR	3760	A	38	MBR	5740	A	47
MBR	3780	A	39	MBR	5860	S	33
MBR	3800	A	40	MBR	5880	S	34
MBR	3900	S	45	JF	6198	A	35
MBR	3920	A	31	MBR	6340	S	42
EXTRACTOR PIN REPLACED	4044	-	-	MBR	6360	S	43
MBR	4100	S	40	MBR	6380	S	44
FF	4118	A	41	MBR	6400	S	45

REPORT
SA-TR11-5000MALFUNCTIONS AND FAILURES
(3) Gun Serial No. 118603

APPENDIX G

ENG BR
RES & ENG DIV
19 May 65

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
NBR	4140	A	42	JF	6643	S	43
MBR	4180	A	1	MBR	6660	S	43
EXTRACTOR REPLACED	4365	A	39	MBR	6720	A	31
JF	6744	A	32	JF	10876	S	44
MBR	6760	A	33	JF	11739	A	37
FF	6778	A	34	JF	11797	A	40
AMR	8294	S	45	JF	12013	S	31
JF	8495	S	40	JF	12133	A	37
JF	8505	A	41	MC1	12135	A	37
JF	8538	A	42	MBR	12200	A	40
JF	8570	A	44	JF	12314	A	31
JF	8612	S	31	JF	12396	A	35
JF	8772	A	39	JF	12526	A	42
JF	8833	S	42	JF	12578	A	44
JF	8843	S	43	MC1	12739	A	37
JF	9030	A	32	JF	12763	A	38
JF	9073	A	34	JF	12789	A	40
JF	9077	A	34	JF	12837	S	41
JF	9078	A	34	JF	12915	A	31
JF	9444	S	43	JF	12921	A	32
JF	9530	A	31	JF	12946	A	33
HFR	9781	A	44	JF	12964	A	34
JF	9957	A	38	JF	12985	A	35

APPENDIX G

MALFUNCTIONS AND FAILURES

(3) Gun Serial No. 118603

REPORT
SA-TR11-5000

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	10003	S	31	JF	13006	S	31
JF	10070	S	34	JF	13577	A	44
JF	10215	S	41	JF	13604	A	45
JE	10325	A	32	MC1	13635	S	32
JF	10580	A	44	JF	13719	A	36
JF	10778	A	39	MC1	13756	A	38
JF	10836	S	42	HLB	13781	A	40
MC1	13836	S	42	JF	15970	A	34
Extractor Pin Spring (RPL)	13842	S	43	Bolt & Carrier (Replaced)	16000	-	-
JF	13883	S	45	JF	16076	S	34
JF	13937	A	32	JF	16092	S	35
JF	13955	A	33	JF	16108	A	36
JF	13974	A	34	JF	16183	A	40
JF	13987	A	35	Extractor & Ejector Sprs (Replaced)	16200	-	-
MBR	14020	S	31	MBR	16300	S	45
JF	14098	A	36	MC1	16312	A	31
MBR	14100	A	36	MC1	16525	A	42
HFH	14147	A	38	JF	16587	A	45
JF	14215	A	40	JF	16530	S	31
MBR	14360	A	33	JF	16667	S	34
MBR	14380	A	34	JF	16873	S	44
MC1	14390	A	35	JF	17310	A	31
MC1	14533	A	42	JF	17389	A	35
Hammer Spring (Replaced)	14620	-	-	MBR	17560	A	43

- 141 -

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

(3) Gun Serial No. 118603

APPENDIX G

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MC1	14651	S	33	MBR	17600	A	45
MC1	14747	A	38	MBR	17640	S	32
*MRG	15010	S	31	MBR	17680	S	34
MC1	15073	S	34	MBR	17720	A	36
JF	15199	A	40	MBR	17740	A	37
MC1	15275	S	44	MBR	17760	A	38
MC1	15391	S	36	JF	17774	A	39
MC1	15553	A	44	MBR	17780	A	39
MC1	15714	A	37	MBR	17840	S	42
JF	15915	A	31	MBR	17860	S	43
MBR	17980	A	34	MBR	19260	S	43
MBR	18000	A	35	MBR	19380	A	34
JF	18102	S	35	MBR	19460	S	38
Safety (Replaced)	18110	-	-	MBR	19540	A	42
JF	18110	A	36	MBR	19600	A	45
MBR	18140	A	38	MBR	19660	S	33
MBR	18160	A	39	JF	19694	S	35
MBR	18220	S	41	MBR	19700	S	35
MBR	18260	S	44	MBR	19800	A	40
MBR	18320	A	31	MBR	19840	S	42
MBR	18380	A	34	MBR	19860	S	43
MBR	18420	S	36	MBR	19880	S	44
MBR	18440	S	37	MBR	19980	A	34

*Section of broken Hammer Spring caused malfunction.

- 142 -

APPENDIX G

MALFUNCTIONS AND FAILURES

(3) Gun Serial No. 118803

REPORT
SA-TR11-5000

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	18540	A	42	MBR	20000	A	35
MBR	18560	A	43	JF	20060	S	33
MBR	18600	A	45	MBR	20180	A	39
MBR	18640	S	31	MBR	20280	S	44
MBR	18680	S	34	JF	20340	A	32
MBR	18780	A	39	MBR	20380	A	34
MBR	18800	A	40	MBR	20400	A	35
MBR	18840	S	42	JF	20434	S	37
MBR	18860	S	43	MBR	20480	S	39
MBR	18920	A	31	MBR	20500	S	40
MBR	18960	A	33	MBR	20520	A	41
MBR	18980	A	34	MCI	20559	A	43
JF	18991	A	35	MBR	20580	A	44
MBR	19160	A	38	MBR	20640	S	32
MBR	20660	S	33	JF	23128	A	37
MBR	20680	S	34	JB	23144	A	38
MBR	20700	S	35	JF	23147	A	38
MBR	20720	A	36	JF	23152	A	38
JF	20832	S	42	JF	23165	A	39
MBR	20860	S	43	JF	23171	A	39
MBR	20880	S	44	JF	23181	A	40
JF	20958	A	33	JF	23182	A	40
MBR	20980	A	34	JF	23185	A	40
MBR	21000	A	35	JF	23187	A	40

MALFUNCTIONS AND FAILURES

(3) Gun Serial No. 118803

REPORT
SA-TR11-5000

APPENDIX G

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	21108	A	36	JF	23203	S	41
MBR	21320	A	31	JF	23207	S	41
MBR	21440	S	36	JF	23209	S	41
JF	21560	A	43	JF	23218	S	41
FF	22440	S	37	JF	23222	S	42
JF	22559	A	43	JF	23227	S	42
JF	22565	A	44	JF	23234	S	42
JF	22775	A	39	JF	23246	S	43
JF	22781	A	40	JF	23258	S	43
MCI	22879	S	44	JF	23268	S	44
JF	23005	S	31	JF	23270	S	44
JF	23008	S	31	JF	23274	S	44
JF	23009	S	31	JF	23282	S	45
JF	23013	S	31	MBR	23300	S	45
JF	23124	A	37	Ejector Spr (Replaced)	23320	A	31
JF	23126	A	37	FF	23380	A	34
JF	23127	A	37	JF	23413	S	36
FF	23440	S	37	MBR	24740	A	37
JF	23448	S	38	MCI	24978	A	34
JF	23478	S	39	(Bolt)(Replaced)	25000	-	-
JF	23593	A	45	MCI	25439	S	36
JF	23604	S	31	MCI	25479	S	39
JF	23732	A	37	MCI	25599	A	45
FF	23760	A	38	MCI	25699	S	35
JF	23798	A	40	MCI	25739	A	37

APPENDIX G

MALFUNCTIONS AND FAILURES

(3) Gun Serial No. 118603

REPORT
SA-TR11-5000

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	23824	S	42	MC1	25759	A	38
JF	23891	S	45	JF	25763	A	39
JF	23893	S	45	JF	25791	A	40
JF	23903	A	31	JF	25792	A	40
FF	23920	A	31	JF	25793	A	40
FF	24110	A	37	JF	25848	S	43
FF	24120	A	37	JF	25849	S	43
FF	24164	A	39	JF	25874	S	44
FF	24168	A	39	MC1	25899	S	45
FF	24174	A	39	JF	25927	A	32
FF	24180	A	39	JF	25979	A	34
FF	24184	A	40	JF	25999	A	35
FF	24194	A	40	MBR	26000	A	35
FF	24197	A	40	HLB	26219	A	36
Ejector Spring (Replaced)	24200	-	-	MBR	26239	A	37
F	24335	A	32	MBR	26259	A	38
HLB	24351	A	33	JF	26271	A	39
FF	24380	A	34	(Buffer) (Replaced)	26281	A	40
FF	24400	A	35	MBR	26340	S	43
MBR	26380	S	44	MC1	27942	A	33
MBR	26480	A	34	MC1	27944	A	33
MBR	26540	S	37	MC1	27946	A	33
JF	26684	A	44	MC1	27970	A	34

- 145 -

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

(3) Gun Serial No. 118603

APPENDIX G

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	26699	A	45	MC1	28190	A	39
MBR	26820	A	37	MC1	28290	S	45
JF	26883	A	40	MC1	28450	S	38
JF	26884	A	40	HLB	28998	A	35
MBR	27000	A	35	HLB	28999	A	35
JF	27014	S	31	Hammer Spring (Replaced)	29000	-	-
MC1	27080	S	34	MC1	29591	A	45
JF	27181	S	40	JF	29600	A	45
JF	27201	S	41	MBR	29760	A	38
FUR	27378	A	34	MC1	29779	A	39
JF	27407	S	36	JF	29825	S	42
JF	27436	S	37	MSB	30140	A	37
MC1	27438	S	37	MC1	30299	S	45
JF	27456	S	38	MC1	30319	A	31
JF	27518	A	41	MC1	30439	S	37
JF	27535	A	42	HLB	30511	A	41
MSB	27553	A	44	JF	30572	A	44
JF	27592	A	45	MC1	30679	S	34
MC1	27594	A	45	MBR	30700	S	35
MC1	27670	S	34	MBR	30780	A	39
MC1	27730	A	37	MBR	30860	S	43
JF	27749	A	38	JF	31124	A	37
JF	27798	A	40	JF	31138	A	37

- 146 -

APPENDIX G

MALFUNCTIONS AND FAILURES
(3) Gun Serial No. 118603REPORT
SA-TR11-5000

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
Extractor Spring (Replaced)	31140	-	-	JF	32275	S	43
JF	31149	A	38	JF	32284	S	44
JF	31155	A	38	JF	32285	S	44
JF	31168	A	39	JF	32291	S	45
JF	31173	A	39	JF	32292	S	45
JF	31179	A	39	JF	32293	S	45
JF	31189	A	40	JF	32335	A	32
MSB	31195	A	40	JF	32336	A	32
JF	31345	A	33	JF	32357	A	33
JF	31355	A	33	JF	32358	A	33
JF	31388	A	35	JF	32394	A	35
JF	31396	A	35	JF	32395	A	35
JF	31445	A	43	JF	32396	A	35
JF	31456	A	43	JF	32479	S	38
JF	31710	A	36	JF	32519	A	41
JF	31730	A	37	FF	32560	A	43
JF	31759	A	38	FF	32600	A	45
MSB	31765	A	39	Ejector Spr. (RPL)	32600	-	-
JF	31906	A	31	FF	32740	A	37
JF	31954	A	33	JF	32884	S	44
JF	31973	A	34	JF	32885	S	44
JF	32128	A	37	FF	32892	S	45
JF	32129	A	37	JF	32893	S	45
JF	32130	A	37	FF	32894	S	45
JF	32159	A	38	JF	32895	S	45

MALFUNCTIONS AND FAILURES

(3) Gun Serial No. 118603

APPENDIX G

REPORT
SA-TR11-5000

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	32274	S	43	HFH	33302	A	36
HFH	33307	A	36	HFH	33314	A	36
Buffer Rings (Repaired)	33320	-	-	Extractor & Spring (Replaced)	34878	-	-

MALFUNCTIONS AND FAILURES				ENG BR RES & ENG DIV			
(4) Gun Serial No. 122033							
MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MSB	2018	S	51	MBR	3800	A	55
JF	2379	A	54	MBR	3820	S	56
MBR	2480	S	59	MBR	3840	S	57
MBR	2500	S	60	MBR	3860	S	58
MSB	2593	A	55	MSR	3880	S	59
MBR	2640	S	57	MBR	3900	S	60
MSB	2820	S	51	GUIDE ASSN REPLACED	4000	-	-
MBR	2840	S	52	EXT. SPR. REPLACED	4000	-	-
MSB	2965	A	59	MBR	4020	S	46
MSB	3027	S	47	MBR	4040	S	47
MBR	3080	S	49	BOLT REPLACED	5000	-	-
MBR	3220	S	56	MBR	5020	S	51
MBR	3260	S	58	MBR	5080	S	54
MBR	3275	S	59	MBR	5120	A	56
MBR	3400	A	50	MBR	5140	A	57
MBR	3540	A	57	MBR	5160	A	58
MBR	3560	A	58	MPR	5180	A	59
MBR	3580	A	59	MBR	5260	S	48
MBR	3600	A	60	MBR	5280	S	49
MBR	3620	S	46	MBR	5300	S	50
MBR	3700	S	50	MBR	5320	A	51
MBR	3780	A	54	MBR	5340	A	52

MALFUNCTIONS AND FAILURES				ENG BR RES & ENG DIV			
(4) Gun Serial No. 122033							
MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	5360	A	53	JF	6670	S	58
MBR	5380	A	54	JF	6686	S	59
MBR	5400	A	55	JF	6706	A	46
MBR	5420	S	56	JF	6884	S	55
MBR	5500	S	60	JF	7038	S	47
MBR	5520	A	46	JF	7115	A	51
MBR	5560	A	48	JF	7133	A	52
JF	5593	A	50	JF	7187	A	55
MBR	5660	S	53	JF	7293	S	60
JF	5668	S	54	JF	7303	A	46
MBR	5840	S	47	JF	7454	S	53
MBR	5860	S	48	JF	7567	A	59
MBR	5880	S	49	MBR	7620	S	46
MBR	5940	A	52	JF	7691	S	50
JF	5993	A	55	JF	7717	A	52
MBR	6140	A	47	JF	7796	A	55
MBR	6160	A	48	MBR	7980	A	50
MBR	6180	A	49	EJECTOR SPR. REPLACED	8000	-	-
JF	6191	A	50	MCI	10118	A	51
JF	6252	S	52	MCI	10199	A	55
JF	6259	S	52	MCI	10259	S	58
JF	6293	S	55	MCI	10310	A	46

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES				ENG BR RES & ENG DIV			
(4) Gun Serial No. 122033							
MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MCI	10387	A	50	BOLT RINGS REPLACED	11291	-	-
MCI	10391	A	50	HLB	11430	S	51
MCI	10395	A	50	HAMMER SPR. REPLACED	11430	-	-
MBR	10500	S	55	JF	11719	A	51
JF	10517	A	56	MCI	12159	A	58
JF	10636	S	47	MCI	12479	S	59
JF	10716	A	51	JF	12487	S	60
JF	10726	A	52	MBR	12580	A	49
JF	10755	A	53	JF	12688	S	55
JF	10777	A	55	MCI	12759	A	58
FF	10939	A	47	MCI	12779	A	59
FF	10959	A	48	MCI	12799	A	60
HPH	11206	S	56	MBR	12940	A	52
HPH	11212	S	56	MBR	13180	A	54
HPH	11228	S	57	JF	13391	A	50
HPH	11255	S	58	FOR	13559	A	58
HPH	11263	S	59	JF	13599	A	60
HPH	11264	S	59	MCI	13859	S	58
HPH	11268	S	59	FF	13959	A	48
HPH	11282	S	60	JF	13977	A	49
HPH	11289	S	60	MCI	13999	A	50
HPH	11291	S	60	BOLT & CARRIER REPLACED	14000	-	-

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES				ENG BR RES & ENG DIV			
(4) Gun Serial No. 122033							
MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MCI	14559	A	58	MBR	17660	S	47
MCI	14579	A	59	MBR	17680	S	48
MCI	14599	A	60	MBR	17920	A	46
JF	15341	A	47	MBR	17960	A	48
JF	15399	A	50	FF	17997	A	50
JF	15512	A	56	MBR	18160	A	53
JF	15515	A	56	MBR	18420	S	51
JF	15518	A	56	MBR	18440	S	52
JF	15525	A	57	MBR	18460	S	53
FF	15539	A	58	MBR	18580	A	59
JF	15814	S	56	FF	18648	S	48
MCI	15839	S	57	MBR	19440	S	52
MCI	15859	S	58	MBR	20400	A	50
MCI	16139	A	53	FUR	20813	S	56
MCI	16159	A	54	FUR	20855	S	58
MCI	16339	A	47	FUR	20856	S	58
MCI	16359	A	48	MCI	20859	S	59
MCI	16379	A	49	JF	20919	-	-
MBR	16480	S	54	EXTRACTOR REPLACED	21000	-	-
MBR	17360	A	48	MBR	21980	A	49
MBR	17400	A	50	JF	22510	A	56
FF	17560	A	50	JF	22545	A	58

APPENDIX C

REPORT
SA-T11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(4) Gun Serial No. 122033

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	22578	A	59	JF	27023	S	47
FF	23280	S	59	MBR	27120	A	51
MBR	23400	S	52	JF	27137	A	52
MBR	23440	S	52	MBR	27240	S	57
MBR	24560	A	58	EXTRACTOR REPLACED	27240	-	-
MBR	24780	A	54	FAIL TO CHAMBER	27257	S	57
MBR	24900	S	60	FAIL TO CHAMBER	27258	S	57
MBR	25280	S	59	FAIL TO CHAMBER	27259	S	57
MBR	25460	S	53	FAIL TO CHAMBER	27260	S	57
MBR	25500	S	55	JF	27281	S	60
MBR	25700	S	50	JF	27282	S	60
MBR	25940	A	47	HLB	27319	A	46
MBR	25960	A	48	JF	27350	A	48
JF	26240	A	52	LBF	27550	A	58
JF	26380	S	59	JF	27904	A	46
JF	26489	A	50	JF	28184	A	54
JF	26814	A	52	JF	28297	S	60
JF	26826	A	53	MBR	28500	A	49
JF	26855	A	54	MBR	28600	S	54
JF	26856	A	54	MBR	28700	A	60
MBR	26900	A	55	JF	28791	S	50
EXT. PIN & SPR. REPLACED	27000	-	-				

- 153 -

REPORT
SA-T11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	20	S	131	MBR	800	A	140
MBR	40	S	132	MBR	840	S	142
MBR	60	S	133	MBR	860	S	143
MBR	100	S	135	MBR	880	S	144
MBR	160	A	138	HLB	975	A	134
MBR	180	A	139	HLB	979	A	134
MBR	200	A	140	MBR	1100	S	140
MBR	240	S	142	MBR	1120	A	141
MBR	260	S	143	MBR	1240	S	132
MBR	280	S	144	MBR	1260	S	133
MBR	340	A	132	MBR	1300	S	135
MBR	380	A	134	MBR	1320	A	136
MBR	420	A	135	MBR	1340	A	137
MBR	460	S	138	MBR	1460	S	143
MBR	500	S	140	MBR	1480	S	144
MBR	560	A	143	MBR	1500	S	145
MBR	600	A	144	MBR	1520	A	131
MBR	620	S	145	MBR	1560	A	133
MBR	680	S	131	JF	1570	A	134
MBR	720	A	134	JF	1584	A	135
MBR	740	A	136	MBR	1600	A	135
MBR	780	A	139	MBR	1640	S	137

- 154 -

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	1680	S	139	JF	2987	A	145
MBR	1700	S	140	MBR	3000	A	145
MBR	1800	A	145	BOLT REPLACED	3000	-	-
JF	1815	S	131	MBR	3020	S	131
MBR	1820	S	131	MBR	3040	S	132
MBR	1900	S	135	MBR	3060	S	133
MBR	2080	S	144	MBR	3120	A	136
MBR	2220	S	136	MBR	3140	A	137
MBR	2260	S	138	MBR	3200	A	140
MBR	2280	S	139	JF	3232	S	142
MBR	2300	S	140	MBR	3260	S	143
MBR	2514	A	136	MBR	3260	S	143
MBR	2520	A	136	JF	3311	A	138
MBR	2523	A	137	MBR	3320	A	131
MBR	2560	S	143	MBR	3340	A	132
MBR	2660	S	143	MBR	3360	A	133
MBR	2680	S	144	MBR	3380	A	134
MBR	2740	A	131	MBR	3400	A	135
MBR	2800	A	135	MBR	3420	S	136
MBR	2840	A	135	MBR	3440	S	137
MBR	2880	S	139	MBR	3460	S	138
JF	2984	A	145	MBR	3480	S	139

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	3580	A	144	JF	4577	A	134
MBR	3600	A	145	JF	4655	S	138
MBR	3720	A	136	MBR	4660	S	138
MBR	3760	A	138	MBR	4700	S	140
MBR	3920	A	131	MBR	4740	A	142
MBR	4020	S	136	MBR	4800	A	145
MBR	4040	S	137	MBR	4820	S	131
MBR	4060	S	138	MBR	4840	S	132
MBR	4080	S	139	JF	4855	S	133
MBR	4100	S	140	MBR	4860	S	133
MBR	4140	A	142	MBR	4880	S	134
MBR	4180	A	144	MBR	4900	S	135
MBR	4200	A	145	MBR	4940	A	137
MBR	4240	S	132	MBR	4960	A	138
JF	4236	S	134	MBR	4980	A	139
JF	4356	A	138	MBR	5000	A	140
MBR	4360	A	138	MBR	5060	S	134
MBR	4360	A	138	JF	5091	S	135
MBR	4380	A	139	MBR	5180	A	139
MBR	4400	A	140	JF	5196	A	140
MBR	4460	S	143	MBR	5200	A	140
MBR	4500	S	145	MBR	5260	S	143
MBR	4560	A	133				

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
FF	5264	S	144	EJECTOR SPR. REPLACED	6000	-	-
MBR	5300	S	131	HLB	6762	A	139
MBR	5320	A	131	HLB	6763	A	139
MBR	5340	A	132	JF	7475	S	139
MBR	5360	A	133	JF	7645	S	133
MBR	5380	A	134	JF	7649	S	133
MBR	5400	A	135	FF	8180	A	139
MBR	5420	S	136	JF	8210	S	141
MBR	5480	S	139	JF	8346	A	133
MBR	5600	A	145	FF	8480	S	139
MBR	5620	S	131	FF	8640	S	132
MBR	5660	S	133	FF	8000	A	140
JF	5674	S	134	MCI	8882	A	131
MBR	5700	S	135	MCI	8885	A	131
MBR	5720	A	136	MCI	9039	S	132
MBR	5820	S	141	JF	9058	S	133
JF	5835	S	143	MCI	9179	A	139
MBR	5840	S	143	JF	9201	S	141
MBR	5920	A	131	JF	9249	S	143
MBR	5940	A	132	JF	9255	S	143
MBR	5960	A	133	EJECTOR SPR. REPLACED	9300	-	-
MBR	5980	A	134	HLB	9380	A	135

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	9737	A	137	JF	10470	S	139
MCI	9779	A	139	JF	10484	S	140
BOLT KEY TIGHTENED	10200	-	-	JF	10488	S	140
BOLT RINGS REPLACED	10220	-	-	JF	10604	S	131
JF	10241	S	143	JF	10607	S	131
JF	10244	S	143	JF	10609	S	131
JF	10265	S	144	JF	10631	S	132
JF	10271	S	145	JF	10633	S	132
JF	10295	S	145	JF	10639	S	132
JF	10423		136	JF	10655	S	133
JF	10424		136	JF	10656	S	133
JF	10428		136	JF	10664	S	134
JF	10433		137	JF	10668	S	134
JF	10434	S	137	JF	10688	S	134
JF	10435	S	137	JF	10689	S	135
JF	10436	S	137	MBR	10720	A	136
JF	10443	S	138	MCI	10735	A	136
JF	10446	S	138	JF	10738	A	137
JF	10447	S	138	MBR	10760	A	137
JF	10448	S	138	JF	10766	A	138
JF	10463	S	139	JF	10772	A	139
JF	10468	S	139	MBR	10780	A	139

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MCI	10789	A	140	JF	11394	A	135
JF	10793	A	140	JF	11395	A	135
JF	10818	S	141	JF	11457	S	138
JF	10835	S	142	JF	11497	S	140
JF	10850	S	143	JF	11498	S	140
JF	10876	S	144	JF	11558	A	142
JF	10895	S	145	JF	11559	A	142
JF	10918	A	131	JF	11572	A	143
JF	10928	A	132	JF	11573	A	143
JF	10956	A	133	JF	11574	A	143
JF	10968	A	134	JF	11575	A	143
JF*	10990	A	135	JF	11586	A	144
JF	11074	S	135	JF	11622	S	131
JF	11118	A	136	JF	11623	S	131
JF	11122	A	137	JF	11631	S	133
JF	11123	A	137	JF	11632	S	133
JF	11200	A	140	JF	11633	S	133
JF	11218	S	141	JF	11645	S	134
FF	11277	S	144	JF	11680	S	135
FF	11378	A	133	JF	11681	S	135
JF	11387	A	139	JF	11682	S	135
JF	11388	A	139	JF	11757	A	138

*Receiver Modified 11,000

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	11780	A	139	MBR	14000	-	-
JF	11781	A	139	FF	14482	S	140
JF	11782	A	139	FF	14822	S	142
JF	11783	A	139	MBR	14822	S	142
JF	11791	A	140	(42)		-	-
JF	11792	A	140	MBR	15000	-	-
JF	11793	A	140	(44)		-	-
JF	11809	A	140	MBR	16000	-	-
JF	11873	S	142	FF	16221	S	142
JF	11874	S	144	FF	16262	S	144
JF	11875	S	144	FF	16661	S	134
MBR	11900	S	145	HLB	16710	A	136
MBR	11940	A	132	HLB	16728	A	137
MBR	11960	A	133	HLB	16748	A	138
MBR	11980	A	134	HLB	16772	A	139
MBR	12000	A	135	MBR	16000	-	-
FF	12180	A	139	(35)		-	-
FF	12477	S	139	MBR	17000	-	-
MBR	12000	-	-	HLB	17241	S	142
(39)		-	-	HAMMER SPR. REPLACED	17241	-	-
MBR	13000	-	-	FF	17262	S	144
(40)		-	-	BOLT REPLACED	17637	-	-

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	17000	-	-	FF	19572	A	144
(36)	-	-	-	FF	19576	A	144
MBR	18000	-	-	EXT. & EXT. SPR. REPLACED	19780	-	-
MCI	18539	A	132	MCI	19821	S	142
MCI	18555	A	133	MCI	19822	S	142
MCI	18732	A	142	HLB	19912	A	131
MCI	18732	A	142	HLB	19930	A	132
MCI	18903	A	136	HLB	19945	A	133
MCI	18909	A	136	MCI	19948	A	133
MCI	18915	A	136	MBR	19000	-	-
MBR	18000	-	-	(6)	-	-	-
(22)	-	-	-	MBR	20,000	-	-
MBR	19000	-	-	JF	20130	A	137
FF	19151	A	137	MCI	20150	A	138
FF	19165	A	139	MCI	20155	A	138
FF	19171	A	139	MCI	20158	A	138
FF	19180	A	139	MBR	20,000	-	-
FF	19184	A	140	(26)	-	-	-
FF	19340	A	132	MBR	21000	-	-
FF	19393	A	135	(29)	-	-	-
FF	19467	S	139	MBR	22000	-	-
FF	19484	S	139	MCI	22180	A	139
FF	19568	A	144				

- 161 -

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
FF	22515	A	141	FF	25343	A	133
MCI	22599	A	145	FF	25920	A	131
FF	22680	S	134	FF	25940	A	132
MCI	22739	A	137	MBR	25000	-	-
FF	22750	A	138	(27)	-	-	-
MCI	22759	A	138	MBR	26000	-	-
MBR	22000	-	-	HANDER SPR. REPLACED	26082	-	-
(8)	-	-	-	MCI	26355	A	138
MBR	23000	-	-	MM	26400	S	136
MCI	23199	A	140	MM	26420	S	138
MCI	23319	A	131	MM	26421	S	139
MCI	23339	A	132	MCI	26539	A	132
MCI	23399	A	135	EXT. SPR. REPLACED	26583	-	-
MBR	23000	-	-	MCI	26725	A	141
(6)	-	-	-	HLB	26936	A	137
MBR	24000	-	-	HLB	26955	A	138
HLB	24552	A	143	HLB	26977	A	139
MBR	24000	-	-	HLB	26990	A	140
(15)	-	-	-	MBR	26000	-	-
MBR	25000	-	-	(18)	-	-	-
FF	25180	A	139	MBR	27000	-	-
FF	25263	S	144	FF	2787	S	139

- 162 -

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
FDI	27343	A	138	MBR	29000	-	-
MCI	27362	A	139	MCI	29139	A	141
MCI	27364	A	139	MCI	29339	A	137
MCI	27366	A	139	BOLT RINGS REPLACED	29400	-	-
BOLT REPLACED	27400	-	-	MCI	29519	A	131
MCI	27439	A	132	JF	29525	A	132
FF	27794	A	145	MCI	29529	A	134
HFH	27925	A	136	MCI	29579	A	134
FDI	27975	A	138	MCI	29599	A	135
MBR	27000	-	-	MCI	29715	A	141
(12)		-	-	MCI	29719	A	141
MBR	28000	-	-	JF	29752	A	143
MCI	28359	A	137	JF	29754	A	143
MCI	28376	A	139	JF	29756	A	143
MCI	28539	A	132	JF	29770	A	144
FUR	28660	S	138	JF	29772	A	144
MCI	28739	A	142	JF	29776	A	144
MCI	28773	A	144	JF	29782	A	145
MCI	28919	A	136	MCI	29936	A	137
MCI	28999	A	140	MBR	29000	-	-
MBR	28000	-	-	(12)		-	-
(18)		-	-	MBR		-	-

- 163 -

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	30118	A	136	MCI	30799	A	140
MCI	30179	A	139	TRIGGER PIN REPLACED	30820	-	-
MCI	30399	A	135	MCI	30939	A	132
MCI	30399	A	135	MCI	30959	A	133
JF	30466	S	139	MBR	30,000	-	-
MCI	30516	A	141	(18)		-	-
MCI	30525	A	142	MBR	31000	-	-
JF	30549	A	143	JF	31180	A	136
MCI	30576	A	144	JF	31170	A	138
MCI	30598	A	145	FF	31265	S	143
MCI	30719	A	136	FF	31272	S	144
MCI	30722	A	137	JF	31828	S	141
MCI	30725	A	137	JF	31864	S	143
MCI	30730	A	137	JF	31685	S	134
MCI	30750	A	138	MBR	31000	-	-
MCI	30759	A	138	(29)		-	-
MCI	30765	A	139	MBR	32000	-	-
MCI	30770	A	139	JF	32159	A	137
MCI	30779	A	139	JF	32385	A	135
MCI	30785	A	140	DISCONNECT REPLACED	32404	-	-
MCI	30789	A	140	MCI	32519	A	141
MCI	30792	A	140	FF	32565	A	144
MCI	30795	A	140	MBR	32000	-	-

- 164 -

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG

(5) Gun Serial No. 113821

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
(23)		-	-				
MBR	33000	-	-				
FF	33223	S	142				
JF	33295	S	145				
JF	33450	S	138				
JF	33452	S	138				
JF	33478	S	139				
JF	33500	S	140				
EJECTOR SPR. REPLACED	33500	S	140				
FF	33682	S	135				
MBR	33000	-	-				
(29)		-	-				
MBR	34000	-	-				
MBR	34119	A	136				
MBR	34545	A	144				

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(6) Gun Serial No. 122994

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	100	S	150	MBR	1160	A	158
MBR	160	A	153	JF	1274	S	149
MBR	280	S	155	MBR	1440	S	157
JF	355	A	148	JF	1454	S	158
MBR	420	S	151	JF	1465	S	159
JF	456	S	156	MBR	1480	S	159
MBR	480	S	154	JF	1490	S	160
MBR	500	S	155	JF	1491	S	160
MBR	580	A	158	JF	1492	S	160
JF	635	S	147	JF	1493	S	160
JF	657	S	148	MBR	1500	S	160
JF	663	S	149	JF	1512	A	146
MBR	740	A	152	HFH	1525	A	147
JF	752	A	153	JF	1567	A	149
JF	793	A	154	MBR	1600	A	150
JF	911	A	146	JF	1658	S	153
JF	1038	S	152	JF	1659	S	153
JF	1054	S	153	JF	1678	S	154
MBR	1060	S	153	MBR	1720	A	156
JF	1091	S	155	JF	1735	A	157
JF	1092	S	155	JF	1736	A	157
MBR	1100	S	155	JF	1817	A	160

APPENDIX C

REPORT
SA-TP11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(6) Gun Serial No. 122994

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
HFH	1818	A	160	JF	2709	A	1511
MBR	1860	S	148	JF	2719	A	151
JF	1874	S	149	JF	2736	A	152
EJC SPR	2000	-	-	JF	2752	A	153
RPL				JF	2754	A	153
MBR	2020	S	146	JF	2755	A	153
MBR	2140	A	153	JF	2860	S	159
MBR	2180	A	154	MBR	2880	S	160
MBR	2200	A	155	MBR	2977	A	148
JF	2304	S	160	JF	2994	A	149
JF	2345	A	148	JF	2997	A	149
JF	2350	A	148	JF	2999	A	149
JF	2504	A	156	JF	3036	S	147
JF	2506	A	156	HLB	3000	-	-
JF	2510	A	156	MBR			
JF	2560	A	158	(60)			
JF	2604	S	146	MBR	6000	-	-
JF	2606	S	146	JF	4391	A	155
JF	2608	S	146	JF	4620	S	151
JF	2619	S	146	JF	4707	A	156
JF	2664	S	149	JF	4892	S	150
JF	2668	S	149	JF	4908	A	151
JF	2677	S	149	JF	4915	A	151

- 107 -

REPORT
SA-TP11-5000

MALFUNCTIONS AND FAILURES

APPENDIX C

ENG BR
RES & ENG DIV

(6) Gun Serial No. 122994

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	5030	S	147	JF	9230	S	157
JF	5032	S	147	MCI	9255	S	158
JF	5034	S	147	MCI	9455	S	153
JF	5070	S	149	MBR	9460	S	153
JF	5196	A	155	EXT RPL	9491	-	-
JF	5858	S	158	MCI	9575	A	159
BLT RPL	6000	-	-	JF	9656	S	148
MBR	6040	S	146	JF	9678	S	149
MBR	6060	S	148	JF	9714	A	151
MBR	6080	S	149	MCI	9775	A	154
MBR	6100	S	150	JF	9872	S	159
MBR	6600	A	160	JF	9879	S	159
JF	7569	A	159	MBR	9920	A	146
MBR	7660	S	148	JF	9935	A	147
MCI	8223	S	157	JF	9972	A	149
MCI	8455	S	152	JF	10128	A	152
MCI	8735	A	152	JF	10169	A	156
FF	8844	S	158	MCI	10165	A	154
FF	8865	S	159	MCI	10275	S	159
JF	9130	A	152	MCI	10435	S	152
JF	9187	A	155	JF	10530	A	157
JF	9198	A	155	JF	10558	A	158

- 108 -

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

(6) Gun Serial No. 122994

ENG BR
RES & ENG DIV

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	10563	A	159	JF	11083	S	150
JF	10566	A	159	MBR	11100	S	150
MCI	10615	S	146	JF	11117	A	151
MCI	10715	A	151	JF	11118	A	151
JF	10760	A	153	JF	11138	A	153
JF	10780	A	154	JF	11139	A	153
FF	10840	S	157	JF	11147	A	154
FF	10860	S	158	JF	11200	S	156
MCI	10875	S	159	JF	11201	S	156
FF	10890	S	160	JF	11202	S	156
FF	10915	A	146	JF	11277	S	159
JF	10940	A	147	JF	11278	S	159
JF	10960	A	148	JF	11315	A	146
JF	10980	A	149	JF	11320	A	148
JF	11000	A	150	MBR	11620	S	151
RCVR MOD	11000	-	-	JF	11516	A	156
JF	11017	S	146	JF	11525	A	156
JF	11034	S	147	JF	11523	A	157
JF	11047	S	148	JF	11655	-	-
JF	11048	S	148	33	-	-	-
JF	11049	S	148	JF	12097	-	-
JF	11068	S	149	BUFF RPL	12097	-	-

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

(6) Gun Serial No. 122994

ENG BR
RES & ENG DIV

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	12436	S	152	FF	19149	A	153
LBF	12756	A	153	HLB	19172	A	154
HFH	13274	S	160	FF	19187	A	155
HFH	13275	S	160	FF	19193	A	155
JF	13551	A	157	BUFF RPL	19200	-	-
MBR	13760	A	153	HLB	19246	S	158
JF	13881	S	160	HLB	19251	S	158
MBR	13940	A	147	HLB	19257	S	158
HFH	13961	A	149	HLB	19278	S	159
MBR	14000	A	150	HLB	19290	S	160
EXTR RPL	14261	-	-	HAM SPR RPL	19290	-	-
MBR	16520	A	156	XF	19879	S	159
BLT RPL	16595	-	-	XF	19987	A	150
MBR	17440	S	152	EXTR RPL	19987	-	-
MBR	17460	S	153	FF	21706	A	152
MBR	17500	S	155	XF	21802	S	156
JF	18095	S	155	XF	21804	S	156
JF	18195	A	160	EXTR SPR RPL	21820	-	-
HFH	18330	A	152	FF	21856	S	158
JF	18371	A	154	FF	21878	S	159
JF	18757	A	158	FF	21911	A	146
JF	18889	S	150	FF	21930	A	147

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(6) Gun Serial No. 122994

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
FF	21947	A	148	JF	24380	A	149
FF	21958	A	148	JF	24632	S	147
FF	21973	A	149	JF	24644	S	148
FF	21988	A	150	EXTR RPL	24740	-	-
MBR	22000	A	150	JF	25336	A	147
JF	22145	A	153	JF	25342	A	148
JF	22150	A	153	MBR	25500	S	155
JF	22160	A	153	JF	25710	A	151
JF	22217	S	156	JF	25833	S	157
JF	22226	S	157	JF	25896	S	160
JF	22365	A	149	JF	25904	A	146
JF	22474	S	154	JF	25915	A	146
JF	22752	A	153	MBR	25920	A	146
JF	23755	A	153	JF	28536	A	157
JF	23951	A	148	JF	28954	A	148
JF	24001	S	146	JF	29032	S	147
JF	24013	S	147	JF	29044	S	148
JF	24015	S	148	JF	29072	S	149
JF	24017	S	149	MBR	29140	A	152
JF	24100	S	150	JF	29160	A	153
MSB	24220	S	156	JF	29180	A	154
JF	24221	S	157	JF	29200	A	155

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(6) Gun Serial No. 122994

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	29240	S	157				
JF	29334	A	147				
MBR	29340	A	146				
JF	29452	S	153				
JF	29738	S	148				
JF	29820	S	156				
BLT RPL	30000	-	-				

MALFUNCTIONS AND FAILURES
ENG BR
RES & ENG DIV

(7) Gun Serial No. 121654

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	202	S	71	JF	2445	S	302
"	228	S	72	MBR	2000	-	-
"	445	S	68	(9)		-	-
"	541	A	78	MBR	3000	-	-
MBR	-	-	-	JF	3078	S	323
(9)	-	-	-	JF	3135	A	302
MBR	1000	-	-	JF	3239	S	303
MSB	1150	A	162	"	3375	A	323
JF	1204	S	303	"	3655	S	161
"	1324	A	301	"	3660	S	161
"	1458	S	324	"	3679	S	161
"	1506	A	303	"	3680	S	161
"	1600	A	163	"	3743	A	162
"	1676	S	323	"	3965	A	323
"	1880	S	313	"	4000	-	-
"	1945	A	301	BOLT REPLACED			
"	1990	A	161	MBR	3000	-	-
EJECTOR SPR. REPLACED	2000	-	-	(12)		-	-
MBR	1000	-	-	MBR	4000	-	-
(11)	-	-	-	JF	4000	-	-
MBR	2000	-	-	(63)		-	-
				JF	5140	-	-

- 173 -

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
EJECTOR SPR. REP. GUIDE ASSY REPLACED	5140	-	-	JF	7995	A	161
MBR	5000	-	-	MBR	7998	A	161
MBR	4000	-	-	MBR	8085	S	161
(9)		-	-	BOLT REPLACED	9000	-	-
MBR	5180	-	-	MBR	9145	A	162
JF	6191	A	162	"	9188	A	162
MBR	6285	A	162	"	9348	A	161
JF	6270	S	325	"	9365	A	313
"	6340	A	301	"	9388	A	161
"	6493	S	162	"	9786	A	162
MBR	6745	A	162	JF	9840	S	163
MBR	6855	S	163	MBR	9955	A	161
MBR	6952	A	301	"	10255	S	163
"	7142	A	162	JF	10393	A	323
"	7185	A	162	"	10396	A	161
JF	7272	S	325	"	10427	S	302
JF	7329	A	301	JF	10442	S	162
MBR	7395	A	161	JF	10462	S	324
MBR	7485	S	162	MBR	10748	A	162
MBR	7595	A	163	JF	10797	A	162
JF	7727	A	302	HLB	11083	S	161
JF	7734	A	162	HLB	11084	S	161
MBR	7738	A	162	HAMMER SPR. REPL.	11166	-	-

- 174 -

APPENDIX G

REPORT
DA-TF11-5000

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	11166	A	324	"	11968	A	161
MBR	11166	A	324	"	12181	A	162
JF	11187	A	162	"	12353	A	323
HLB	11210	S	303	"	12382	A	161
"	11211	S	303	"	12388	A	161
"	11223	S	303	"	12392	A	161
"	11234	S	163	"	12398	A	161
"	11236	S	163	"	12703	A	163
"	11241	S	163	HLB	12931	A	161
"	11252	S	313	BOLT REPLACED	12976	-	-
"	11256	S	313	JF	13175	A	324
"	11263	S	313	GUIDE ASSY REPLACED	13180	-	-
"	11265	S	313	JF	13846	S	163
JF	11297	A	161	HLB	14176	A	324
MBR	11555	A	313	"	14377	A	323
JF	11692	S	161	"	14547	A	163
"	11812	S	303	MBR	14550	A	163
"	11819	S	303	"	14785	A	162
"	11841	S	163	"	14995	A	161
"	11874	S	313	"	15187	A	162
JF	11928	A	161	EXTRACTOR SPR. REPLACED	15844	-	-
"	11940	A	323	MBR	15875	S	313
"	11963	A	161	MBR	15995	A	161

REPORT
DA-TF11-5000

APPENDIX G

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	16240	S	163	"	19295	S	163
MBR	16335	A	301	"	19325	A	301
JF	16347	A	161	JF	19662	S	324
DISCONNECT REPLACED	16485	-	-	JF	19845	S	163
TRIGGER PIN REPLACED	16485	-	-	JF	19881	S	163
MBR	16945	A	161	MBR	19890	S	163
HLB	16958	A	323	"	19945	A	161
JF	17297	S	163	JF	19975	A	323
JF	17547	A	163	MBR	19995	A	161
MBR	17595	A	163	"	20185	A	162
HLB	17941	A	301	JF	20285	S	163
"	17943	A	301	"	20341	A	161
"	17945	A	301	"	20343	A	161
"	17995	A	161	"	20344	A	161
JF	18004	S	301	"	20481	S	162
"	18140	A	162	"	20519	A	303
MBR	18190	A	162	"	20523	A	303
FF	18283	S	163	"	20529	A	303
FF	18347	A	161	"	20560	A	313
MBR	18585	A	163	"	20565	A	313
"	18748	A	162	"	20570	A	313
"	18992	A	162	"	20584	A	163
"	19186	A	162	"	20590	A	163

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
"	20596	A	163				
EJECTOR SPR. REPLACED	20596	-	-				
MBR	21246	S	163				
"	21400	A	161				
"	21500	S	161				
"	21700	A	161				
"	21760	A	162				
EXTRACTOR SPRING REPLACED	21835	-	-				
JF	21865	S	313				
JF	21945	A	161				
"	21962	A	323				
"	21978	A	323				

MALFUNCTIONS AND FAILURES

Eng Br
Res & Eng Div

(8) Gun Serial No. 121185

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
HLB	180	A	84	JF	2240	S	166
FF	289	S	90	JF	2250	S	164
JF	587	A	90	JF	2670	S	316
JF	720	A	81	JF	2790	A	314
MBR	0	-	-	MBR	2000	-	-
(15)		-	-	(17)		-	-
MBR	1000	-	-	MBR	3000	-	-
JF	1330	A	304	BOLT REPLACED	3000	-	-
JF	1364	A	314	MBR	3000	-	-
JF	1470	S	315	(18)		-	-
JF	1490	S	165	MBR	4000	-	-
JF	1692	S	164	(20)		-	-
JF	1744	A	165	MBR	5000	-	-
JF	1775	A	315	GUIDE ASSN. REPLACED	5000	-	-
JF	1849	S	166	MBR	5160	A	63
JF	1865	S	316	MBR	5200	A	165
JF	1950	A	304	XF	6296	S	166
JF	1995	A	164	XF	6324	A	304
MBR	1000	-	-	XF	6525	A	306
(9)		-	-	EXTRACTOR REPLACED	6527	-	-
MBR	2000	-	-	XF	6531	A	66
EJECTOR SPRING REPLACED	2000	-	-	XF	6599	A	166

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

Eng Br
Res & Eng Div

(8) Gun Serial No. 121185

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
XF	6694	S	164	HLB	10483	S	165
JF	6775	A	315	HLB	10487	S	165
JF	6797	A	165	HAMMER SPRING REPLACED	10487	-	-
FF	6976	A	64	JF	10800	A	165
XF	6991	A	314	MBR	10000	-	-
MBR	6000	-	-	(11)	-	-	-
(8)	-	-	-	MBR	11,000	-	-
MBR	7000	-	-	EXTRACTOR SPR. REPLACED	11,000	-	-
BOLT REPLACED	7481	-	-	JF	11244	S	66
XF	7397	A	164	JF	11910	A	304
MBR	7000	-	-	MBR	11000	-	-
(11)	-	-	-	(10)	-	-	-
MBR	8000	-	-	MBR	12000	-	-
(17)	-	-	-	JF	12018	S	304
MBR	9000	-	-	JF	12141	A	65
(10)	-	-	-	JF	12209	S	306
MBR	1000	-	-	JF	12248	S	66
JF	10177	A	315	JF	12259	S	316
HLB	10431	S	65	JF	12283	S	166
HLB	10433	S	65	JF	12287	S	166
HLB	10455	S	315	JF	12325	A	304
HLB	10458	S	315	HLB	12344	A	64

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(8) Gun Serial No. 121185

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	12376	A	314	HLB	14720	A	305
MCI	12390	A	-	MBR	14800	A	165
MCI	12391	A	164	MBR	14860	S	66
EJECTOR SPR. REPLACED	12400	-	-	MBR	15000	A	164
MBR	12520	A	165	MBR	15200	A	165
MCI	12545	A	66	JF	15435	S	65
JF	12598	A	166	JF	15546	A	66
FF	12798	A	315	MCI	15788	A	165
HLB	12790	A	165	HLB	15996	A	164
JF	13175	A	165	MBR	16200	A	165
JF	13282	S	166	MBR	16260	S	66
JF	13298	S	166	MBR	16400	A	164
JF	13334	A	64	MCI	16745	A	305
JF	13347	A	64	JF	16977	A	314
JF	13352	A	314	MBR	17140	A	305
JF	13357	A	314	MBR	17160	A	65
JF	13359	A	314	JF	17226	S	306
MSB	13365	A	364	MCI	17335	A	304
EJECTOR SPR. REPLACED	13400	-	-	JF	17540	A	66
MBR	14300	S	166	JF	17546	A	66
MBR	14400	A	164	JF	17590	A	166
MBR	14600	A	166	MBR	17640	S	304

APPENDIX C

REPORT
SA-T 11-5000

MALFUNCTION AND FAILURES

ENG BR
RES & ENG DIV

(8) Gun Serial No. 121185

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	17710	A	305	JF	19165	A	315
JF	17712	A	305	JF	19189	A	165
JF	17745	A	65	JF	19260	S	316
JF	17748	A	65	JF	19285	S	166
JF	17751	A	65	JF	19351	A	304
MSB	17762	A	315	JF	19384	A	164
MSB	17768	A	315	JF	19385	A	164
JF	17792	A	304	JF	19386	A	164
CAM PIN REPLACED	18000	-	-	EJECTRO SPR. REPLACED	19386	-	-
JF	18132	A	65	JF	19465	S	315
JF	18136	A	65	JF	19751	A	315
JF	18144	A	65	JF	19862	S	316
JF	18153	A	315	JF	19975	A	314
JF	18348	A	64	JF	20397	A	164
JF	18396	A	164	JF	20561	A	316
JF	18398	A	164	JF	20672	S	314
MBR	18480	S	315	JF	20675	S	314
JF	18595	A	166	JF	20678	S	314
JF	18676	S	164	JF	20686	S	164
JF	18797	S	166	HLB	20742	A	65
HLB	18941	A	304	HLB	20745	A	65
FF	19120	A	305	HLB	20750	A	65

- 181 -

REPORT
SA-T 11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(8) Gun Serial No. 112185

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
HLB	20752	A	65
HLB	20756	A	65
HLB	20758	A	65
HLB	20759	A	65
HAMMER SPRING REPLACED	20980	-	-
DISCONNECT REPLACED	20980	-	-
TRIGGER PIN REPLACED	20980	-	-

- 182 -

APPENDIX G

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(9) Gun Serial No. 109068

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
FF	135	A	107	"	3406	S	106
MBR	160	A	108	"	3418	S	106
JF	675	S	104	"	3435	S	107
"	676	S	104	"	3440	S	107
MSB	1540	A	102	MSB	3620	S	101
"	1620	S	106	FF	3920	A	101
MBR	1640	S	107	JF	3979	A	104
"	1820	S	101	"	3980	A	104
MSB	1820	S	101	"	4946	A	103
MBR	1940	A	107	FF	5160	A	108
MSB	2020	S	111	JF	5420	S	106
"	2040	S	112	FF	5540	A	112
"	2140	A	102	JF	6145	A	110
"	2380	A	114	MBR	6300	S	115
JF	2425	S	102	MCI	6339	A	102
"	2499	S	105	JF	6728	A	107
MSB	2520	A	106	"	6737	A	107
HLB	2561	A	109	"	6755	A	108
"	2782	A	105	"	6790	A	110
MSB	2940	S	112	MBR	6790	A	110
JF	3078	S	104	JF	6806	S	111
"	3190	A	110	"	6822	S	112

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

APPENDIX G

ENG BR
RES & ENG DIV

(9) Gun Serial No. 109068

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
"	6838	S	112	PDF	8784	A	115
"	6850	S	113	JF	8813	S	101
"	6860	S	113	"	8822	S	102
"	6916	S	115	"	9002	A	105
EJC SPR	6968	-	-	PDF	9005	A	106
RPL	7015	S	101	MBR	9000	-	-
HLB	7043	S	103	(16)	-	-	-
"	7045	S	103	MBR	1000	-	-
"	7058	S	103	MCI	9008	A	106
JF	8101	S	111	MCI	9010	A	106
JF	8106	S	111	MCI	9015	A	106
"	8140	A	112	JF	9005	S	101
"	8160	A	113	MBR	9040	S	102
"	8238	S	102	MBR	9140	A	107
"	8275	S	104	JF	9140	A	007
"	8281	S	105	JF	9154	A	108
"	8456	S	113	"	9187	A	110
"	8464	S	114	"	9189	S	114
"	8483	S	115	"	9215	A	102
PDF	8603	S	106	MBR	9440	S	107
JF	8634	S	107	"	9500	S	110
FF	8701	A	111	MCI	9562	A	114

APPENDIX G

 REPORT
 SA-TR11-5000
 ENG BR
 RES & ENG DIV

MALFUNCTIONS AND FAILURES

(9) Gun Serial No. 109068

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
"	9565	A	114	"	10112	A	107
"	9568	A	114	"	10130	A	108
"	9575	A	114	HLB	10178	A	109
"	9578	A	114	JF	10208	S	111
MBR	9620	S	101	"	10268	S	114
"	9622	S	102	FF	10298	S	115
JF	9622	S	102	MCI	10321	A	102
MBR	9660	S	101	"	10325	A	102
"	9740	A	107	"	10330	A	102
"	9840	S	112	"	10335	A	102
"	9860	S	113	"	10337	A	102
"	9880	S	114	"	10339	A	102
HLB	9935	A	101	JF	10512	A	111
"	9938	A	101	FF	10522	A	112
MBR	9940	A	102	JF	10569	A	114
"	9960	A	103	FOR	10584	A	115
JF	9979	A	104	"	10589	A	115
"	9980	A	104	"	10597	A	115
"	10012	S	102	JF	10665	A	104
"	10049	S	103	"	10708	A	106
JF	10075	S	101	"	10723	A	106
"	10077	S	101	"	10733	A	106

 REPORT
 SA-TR11-5000

APPENDIX G

MALFUNCTIONS AND FAILURES

(9) Gun Serial No. 109068

 ENG BR
 RES & ENG DIV

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
"	10744	A	108	RCVR MOD	11000	-	-
"	10749	A	108	MBR	11140	A	107
"	10770	A	109	FF	11281	S	115
"	10789	A	110	FF	11287	S	115
JF	10804	S	111	HPH	11673	S	104
"	10816	S	111	DCNT RPL	11686	-	-
"	10819	S	111	FF	11897	S	115
"	10824	S	112	JF	11000	-	-
"	10830	S	112	(21)		-	-
"	10838	S	112	JF	1200	-	-
"	10842	S	113	FF	12299	S	115
"	10845	S	113	XF	12299	S	115
"	10862	S	114	XF	12301	A	101
"	10864	S	114	BLT CAR RPL	12301	-	-
"	10884	S	115	MBR	12340	A	102
"	10886	S	115	XF	12475	S	109
"	10903	A	101	FF	12475	S	109
"	10905	A	101	"	12480	S	110
"	10915	A	102	MBR	12520	A	111
"	10923	A	102	"	12600	A	115
"	10935	A	105	EJC SPR RPL	12620	-	-
"	10983	A	105	MBR	12640	S	103

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(9) Gun Serial No. 109068

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
"	12680	S	104	XF	16533	A	103
"	12720	S	111	XF	16545	A	103
"	12940	A	101	MBR	16580	A	104
"	13000	A	105	FF	16728	A	112
JF	12000	-	-	FF	16737	A	112
(27)		-	-	JF	16758	A	113
JF	13000	-	-	"	16764	A	114
MBR	13020	S	106	FF	16905	A	106
"	13040	S	106	FF	17232	S	112
MAG 115 RPL13200 BY MAG 175		-	-	XF	17356	A	104
JF	13000	-	-	XF	17440	A	107
(33)		-	-	"	17448	S	108
JF	14000	-	-	"	17449	S	108
BLT RPL	13399	-	-	"	17460	S	108
HAM SPR RPL CF	14520	-	-	EXT SPR RPL FF	17460	-	-
FF	14683	S	115	FF	17522	A	112
FF	15824	S	112	FF	17525	A	112
BLT CAR RPL	16000	-	-	NCI	17719	A	106
MBR	16260	S	103	BLT RPL	18000	-	-
HFH	16342	A	108	JF	18165	A	109
"	16355	A	108	FF	18318	A	101
"	16358	A	108	"	18357	A	103

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(9) Gun Serial No. 109068

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
"	18546	A	111	"	19350	A	103
"	18551	A	113	"	19355	A	103
"	18598	A	115	GDE ASSY RPL	19380	-	-
"	18823	S	112	JF	19574	A	114
"	18828	S	112	"	19738	A	106
"	18832	S	112	"	19739	A	106
"	18837	S	112	MSB	19788	A	110
"	18920	A	101	"	19794	A	110
FDF	18940	A	102	"	19800	A	110
JF	18000	-	-	FF	19892	S	115
(13)				"	19895	S	115
JF	19000	-	-	"	19925	A	102
HLB	19139	A	107	"	19956	A	102
"	19170	A	109	JF	20419	S	111
"	19173	A	109	FF	20525	A	102
"	19179	A	109	FDF	20747	A	113
JF	19271	S	114	FDF	20748	A	113
HLB	19310	A	101	JF	21192	A	110
"	19325	A	102	FDF	21222	S	112
"	19330	A	102	"	21226	S	112
"	19337	A	102	"	21229	S	112
"	19345	A	103	"	21239	S	112

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(9) Gun Serial No. 109068

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	22040	S	102	FF	23298	S	115
MBR	22060	S	103	MBR	23400	A	105
JF	22151	A	108	JF	23400	A	105
"	22271	S	114	MBR	23560	A	112
"	22287	S	115	JF	23584	A	114
MBR	22360	A	101	FF	23570	A	114
JF	22379	A	104	MBR	23860	S	102
MBR	22460	S	108	"	23760	A	108
MBR	22640	S	102	"	23700	A	109
"	22780	A	109	"	23800	A	110
JF	22872	S	114	HLB	23000	S	111
"	22888	S	115	JF	23995	A	105
"	22939	A	102	MBR	24140	A	107
MBR	22960	A	103	JF	24170	A	109
JF	22995	A	105	MBR	24200	A	110
MBR	23100	S	105	JF	24237	S	112
"	23180	A	109	MBR	24240	S	112
JF	23189	A	110	JF	24255	S	113
"	23190	A	110	MBR	24360	A	103
MBR	23260	S	113	JF	24537	A	113
JF	23262	S	114	"	24555	A	114
MBR	23280	S	114	"	24563	A	115

MALFUNCTIONS AND FAILURES

ENG BR
RES & ENG DIV

(9) Gun Serial No. 109068

MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MAL OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
DCNT RPL	24672	-	-	FF	25482	S	110
HLB	24697	S	105	MBR	25585	A	115
JF	24713	A	106	MBR	25620	S	101
"	24725	A	106	"	25640	S	102
MBR	24740	A	108	HLB	25650	S	102
"	24760	A	108	MBR	25740	A	107
"	24780	A	109	"	25980	A	104
JF	24797	A	110	JF	25000	-	-
"	25104	A	106	(29)			
"	25114	A	106	JF	26000	-	-
"	25125	A	107	HAM SPR	26000	-	-
"	25135	A	107	RPL			
"	25143	A	108	FF	26010	A	106
"	25150	A	108	EJC SPR	26261	-	-
EXT SPR	25160	-	-	RPL			
RPL	25180	A	108	MBR	26400	A	105
MBR	25200	A	110	"	26460	S	108
"	25280	S	111	"	26740	A	107
"	25280	S	111	"	26760	A	108
MBR	25260	S	112	JF	26000	-	-
"	25340	A	102	(42)			
"	25400	A	105	JF	27000	-	-
FF	25425	S	107				

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

(10) Gun Serial No. 105083

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTIONS OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
HLB	303	S	116	HLB	5923	A	117
HLB	318	S	116	JF	6007	S	116
				Ejector Spring Replaced	6100		
HLB	340	S	117				
MBR	620	S	116	JF	6473	S	124
MBR	940	A	117	JF	6511	A	126
MBR	980	A	119	XF	6537	A	127
JF	1060	S	123	XF	6547	A	128
MBR	1300	S	120	Extractor Spring Replaced	6560		
MBR	1360	A	123				
FF	1503	A	116	FDF	8121	A	127
MBR	1540	A	117	LBF	8225	S	117
FF	1801	S	116	FF	8321	A	122
MSB	3180	A	124	FF	8341	A	123
MBR	3200	A	125	FF	8521	A	117
JF	3266	S	129	FF	8641	S	123
HLB	3991	A	120	FF	8941	A	121
HLB	3992	A	120	Bolt Carrier Replaced	9000		
FF	4601	S	122	MBR	9000		
MBR	4700	S	126	(22)	to		
MBR	5040	S	116	MBR	10000		
FF	5601	S	116	MCI	9000		

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

(10) Gun Serial No. 105083

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTIONS OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
6	to			JF	11027	S	117
MCI	10000			JF	11036	S	117
JF	9000			JF	11046	S	118
(11)	to			JF	11054	S	118
JF	10000			MBR	11080	S	119
JF	10000			JF	11092	S	120
(27)	to			JF	11123	A	122
JF	11000			JF	11144	A	123
MCI	10000			JF	11165	A	124
(5)	to			JF	11199	A	125
MCI	11000			FF	11204	S	126
FF	10000			JF	11401	A	120
(6)	to			MBR	11460	S	123
FF	11000			FF	11462	S	124
HLB	10222			FF	11462	S	124
Ejector Spring Replaced	10233			MBR	11580	A	128
Hammer Spring Replaced	10233			MBR	11600	A	129
MBR	10260	S	127	JF	11710	A	121
MBR	10300	S	130	FF	11803	S	126
Receiver Modified	11000			MBR	11860	S	129

MALFUNCTIONS AND FAILURES
(10) Gun Serial No. 105083

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTIONS OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	11880	S	130	MBR	13400	A	125
MSB	11932	A	117	MBR	13420	A	126
MBR	11940	A	117	MBR	13440	S	127
MSB	11958	A	117	JF	13705	A	126
MBR	11980	A	119	HFH	13768	A	129
MSB	11988	A	120	XF	13769	A	129
JF	12112	A	121	MBR	13800	A	130
JF	12217	S	126	HFH	13920	A	121
Bolt Replaced	12262			MBR	14240	S	121
JF	12531	A	126	HFH	14520	A	121
MBR	12540	A	127	HFH	14522	A	121
MBR	12560	A	128	HFH	14526	A	121
MBR	12680	S	119	MBR	14700	S	130
MBR	12700	S	120	MBR	14960	A	128
MBR	12760	S	123	MBR	15180	A	124
MBR	12780	S	124	MBR	15360	A	118
MBR	12800	S	125	MBR	15440	S	122
MBR	13000	A	120	MBR	15460	S	123
MBR	13180	A	128	MBR	15560	A	128
FF	13182	A	130	MBR	15720	A	121
FF	13183	A	130	MBR	15760	A	123

MALFUNCTIONS AND FAILURES
(10) Gun Serial No. 105083

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	15800	A	125	FF	18337	A	117
JF	15857	S	128	HLB	18545	A	130
JF	15956	A	118	MSB	18733	A	122
JF	16000			MBR	18980	A	120
(35)	to						
JF	17000						
Bolt Replaced	16600						
MBR	16540	A	117				
MBR	16560	A	118				
MBR	16760	A	128				
MBR	16940	A	122				
JF	17179	A	124				
JF	17200	A	125				
JF	17260	S	128				
JF	17479	S	124				
JF	17576	A	128				
JF	17591	A	129				
JF	18000						
(28)	to						
JF	19000						
FF	18082	S	120				

MALFUNCTIONS AND FAILURES

(11) Gun Serial No. 109085

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	14473	S	318	JF	18829	A	318
JF	16000	-	-	JF	18844	A	318
(36)				JF	18846	A	318
JF	18000	-	-	JF	18857	A	318
MSB	17296	S	169	HFR	18860	A	168
HLB	17303	A	307	HFR	18861	A	168
MSB	17374	A	317	HFR	18862	A	168
FUR	17643	S	67	JF	19138	A	67
JF	18101	A	68	JF	19522	A	68
MSB	18130	A	318	JF	19678	S	169
BUFFER RINGS REPLACED	18224	A	307	JF	19738	A	67
MBR	18320	A	167	JF	19750	A	317
JF	18430	A	69	JF	19903	A	309
FF	18448	A	319	FF	20150	A	318
MBR	18520	S	67	HFR	20161	A	168
XF	18728	S	317	BUFFER REPLACED	20180	-	-
XF	18729	S	317	JF	20247	S	69
EXTRACTOR SPRING REPLACED	18728	-	-	BOLT REPLACED	20501	-	-
JF	18828	A	68	DISCONNECTOR REPLACED	21000	-	-

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	21240	S	69				
MBR	21580	S	169				
MBR	21740	A	68				
MBR	21780	A	168				
MBR	21840	S	69				
MBR	22100	A	167				
MBR	22380	A	167				
MBR	22540	A	69				
MBR	22580	A	169				
MBR	22940	A	67				
MBR	22960	A	317				
MSB	23375	A	167				
MSB	23375	S	168				
JF	23515	A	309				
JF	23537	A	69				
JF	23578	A	169				
EJECTOR SPRING REPLACED	23578	-	-				
MBR	23740	A	308				
JF	24114	A	308				
MSB	24138	A	68				
JF	24850	S	319				
JF	24998	A	167				
BUFFER REPLACED	25000	-	-				

APPENDIX C

REPORT
SA-TR11-5000

MALFUNCTIONS AND FAILURES

(12) Gun Serial No. 122429)

MALFUNCTIONS OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
MBR	700	S	180	JF	6273	S	322
HLB	873	S	189	MBR	6300	S	172
HLB	874	S	189	JF	6348	A	70
JF	1866	S	322	JF	6391	A	170
MBR	2040	S	71	MBR	6400	A	170
MBR	2200	A	172	JF	6412	S	311
HLB	2999	A	171	MBR	6440	S	71
JF	3061	S	320	JF	6440		
JF	3090	S	70	(38)	1		
MBR	3100	S	70	JF	7000		
JF	3669	S	320	MBR	6540	A	72
MBR	3900	S	172	MBR	6600	A	172
MBR	5180	A	321	MSB	6730	A	71
JF	6132	A	71	FDF	6745	A	321
JF	6139	A	71	MSB	6784	A	171
JF	6182	A	171	MBR	7200	A	171
JF	6184	A	171	MBR	7340	A	70
JF	6207	S	312	MBR	7400	A	170
JF	6208	S	312	FDF	7554	A	322
JF	6243	S	72	FDF	7560	A	322
JF	6244	S	72	MBR	7940	A	70
MBR	6260	S	322	JF	7000		

- 197 -

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

(12) Gun Serial No. 122429

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
(27)	to			MBR	9400	A	170
JF	8000			MBR	9540	A	72
MBR	8140	A	71	MBR	9600	A	172
MBR	8440	S	71	MBR	9740	A	71
MBR	8500	S	171	JF	9898	A	171
MBR	8600	A	172	MBR	9840	S	72
MBR	8640	S	70	MBR	9900	S	172
MBR	8700	S	170	MBR	9940	A	70
MBR	8800	A	171	MBR	10000		
MBR	8820	S	312	(9)	to		
MBR	8860	A	70	MBR	11000		
MBR	8880	A	320	(8)	to		
MBR	9040	S	70	MBR	12000		
MBR	9100	S	170	JF	11323	A	310
HLB	9108	A	311	JF	11927	A	310
JF	9116	A	311	JF	11949	A	70
MBR	9140	A	71	JF	12013	S	310
JF	9198	A	171	MBR	12020	S	310
MBR	9200	A	171	MBR	12200	A	171
MBR	9240	S	72	JF	12249	S	72
JF	9289	S	172	MBR	12400	A	170
JF	9290	S	172	MBR	12440	S	71
MBR	9300	S	172	JF	12490	S	171

- 198 -

APPENDIX C

REPORT -
SA-TR11-5000

MALFUNCTIONS AND FAILURES

(12) Gun Serial No. 122429

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	12492	S	171	JF	13923	A	310
JF	12493	S	171	JF	13974	A	320
MBR	12500	S	171	JF	14184	A	171
MBR	12540	A	72	JF	14187	A	171
JF	12595	A	172	JF	14191	A	171
Auto fire	12802	S	312	JF	14196	A	171
Disconnecter replaced.	12802			JF	14371	A	320
MBR	12900	A	310	JF	14392	A	170
MBR	13220	A	171	FDF	14570	A	320
JF	13260	S	312	JF	15123	A	71
MBR	13300	S	172	JF	15126	A	71
MBR	13360	A	310	JF	15129	A	71
MBR	13400	A	170	JF	15133	A	71
JF	13449	S	311	XF	15192	A	171
JF	13474	S	321	Extractor Replaced	15192		
MBR	13500	S	171	JF	15389	A	170
MBR	13600	A	172	FF	15532	A	322
JF	13845	S	322	JF	15615	S	310
JF	13846	S	322	JF	15628	S	70
JF	13847	S	322	JF	15977	A	320
MBR	13900	S	172	Bolt Replaced	16000		

REPORT
SA-TR11-5000

APPENDIX C

MALFUNCTIONS AND FAILURES

(12) Gun Serial No. 122429

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
LBF	16220	S	312	JF	17276	S	322
LBF	16380	A	170	MBR	17300	S	172
Hammer Spring Replaced	16406			JF	17343	A	70
				JF	17356	A	70
JF	16494	S	171	JF	17378	A	320
JF	16527	A	312	JF	17457	S	71
FDF	16541	A	322	JF	17494	S	171
FDF	16545	A	322	JF	17648	S	70
JF	16791	A	171	JF	17659	S	70
JF	16793	A	171	JF	17684	S	170
JF	16796	A	171	JF	17686	S	170
JF	16826	S	72	JF	17777	A	321
JF	16838	S	322	MBR	17800	A	171
JF	16848	S	322	JF	17853	S	72
JF	16886	S	172	JF	17857	S	72
JF	16892	S	172	JF	17875	S	312
JF	16894	S	172	JF	17937	A	310
JF	16931	A	70	JF	17948	A	70
MBR	17100	S	170	JF	17967	A	320
JF	17242	S	72	JF	17974	A	170
JF	17255	S	322	JF	18010	S	310

MALFUNCTIONS AND FAILURES

(12) Gun Serial No. 12249

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	18030	S	70	JF	18947	A	70
JF	18050	S	320	JF	19140	A	70
Ejector Spring Replaced	18100			Bolt rings Replaced	19380	A	172
Buffer Rings Replaced	18318			JF	19577	A	171
MBR	18440	A	72	JF	19818	S	311
XF	18457	A	322	JF	19917	A	312
XF	18471	A	172	JF	19955	A	322
FF	18728	S	320	Semi-auto Fire	20101	A	311
Buffer Ring Outer Replaced	18729			MCI	20599	A	172
MBR	18560	S	170	JF	20625	S	310
XF	18669	A	321	JF	20647	S	70
XF	18672	A	321	JF	20716	A	311
XF	18680	A	321	FF	20752	A	321
Extractor Spring Replaced (Defective)	18880			HLB	21159	A	321
Extractor Spring Replaced	18880			JF	21335	A	320
MBR	18728	S	72	Cam Pin Replaced	21600		
				Bolt Replaced	21700		

MALFUNCTIONS AND FAILURES

(12) Gun Serial No. 12249

MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.	MALFUNCTION OR FAILURE	ROUNDS FIRED	TYPE FIRE	MAG NO.
JF	22177	A	321				
JF	22234	S	312				
FF	22325	A	310				
JF	22474	S	321				
JF	22947	A	70				
JF	22957	A	70				
JF	22974	A	320				
JF	22991	A	170				

APPENDIX B

REPORT
SA-TR11-5000

PARTS BREAKAGE

PHOTOGRAPHS (pages 205 through 227) depict unserviceable components as reflected by the individual listing (Parts Replacement) on facing page.

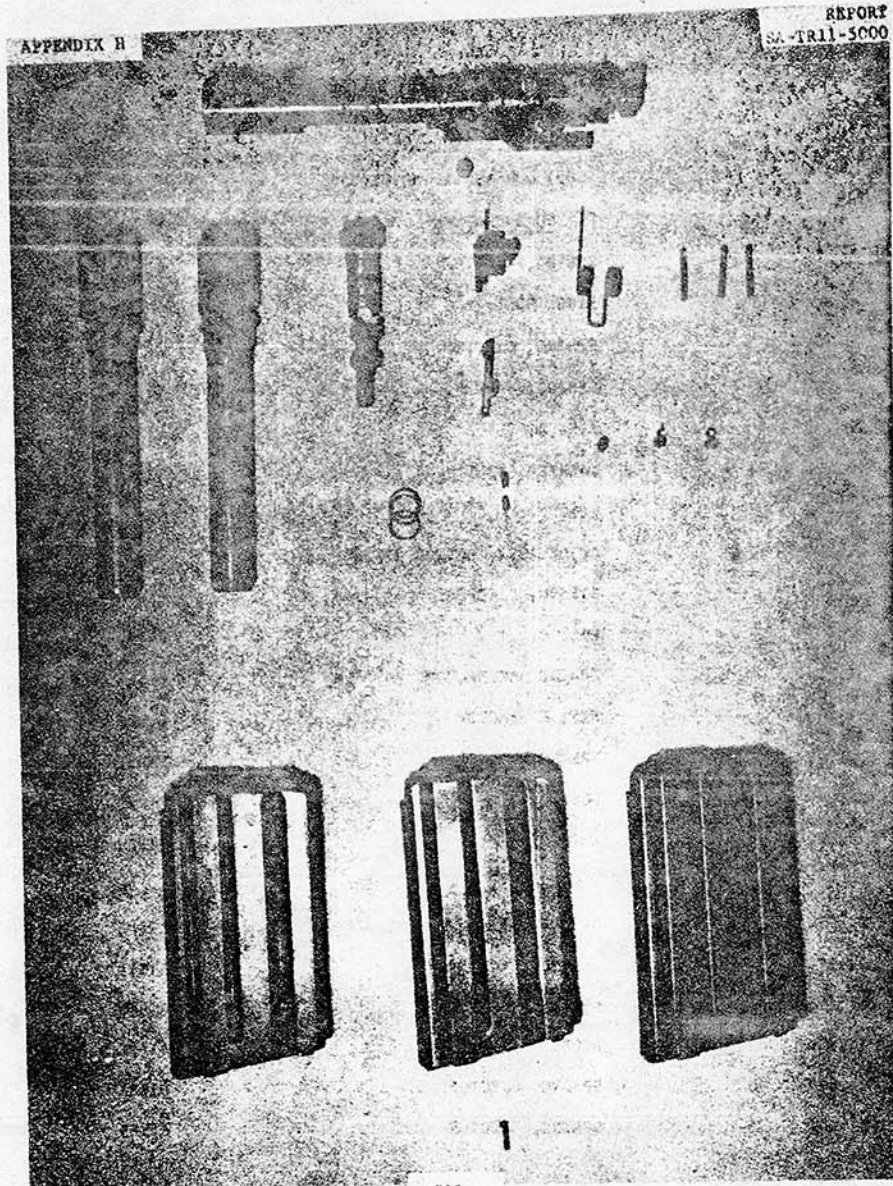
FARTS REPLACEMENT

(1) Gun Serial No. 108860

ROUNDS FINED	NOMENCLATURE	PART NUMBER
759	SEAR, AUTOMATIC	61622
10360	SPRING, EJECTOR	GX5380
13141	RING, BOLT	61540
13428	EXTRACTOR	GX5555
14000	CARRIER, BOLT	GX5552
14000	BOLT	GX5282
14122	SPRING, HAMMER	GX4976
16100	SPRING, EJECTOR	GX5380
17830	GUIDE ASSY, ACTION SPRING	62119
18000	SPRING, EJECTOR	61569
19205	BOLT	61538
20722	MAGAZINE ASSY	62103
21140	MAGAZINE ASSY	62103
21440	MAGAZINE ASSY	62103
22000	SPRING EXTRACTOR	61568
23480	GUIDE ASSY, ACTION SPRING	62119
24880	PIN, EXTRACTOR	61563
26100	SPRING, EJECTOR	GX5380
26478	SPRING, EXTRACTOR	61568

APPENDIX H

REPORT
SA-TR11-5000

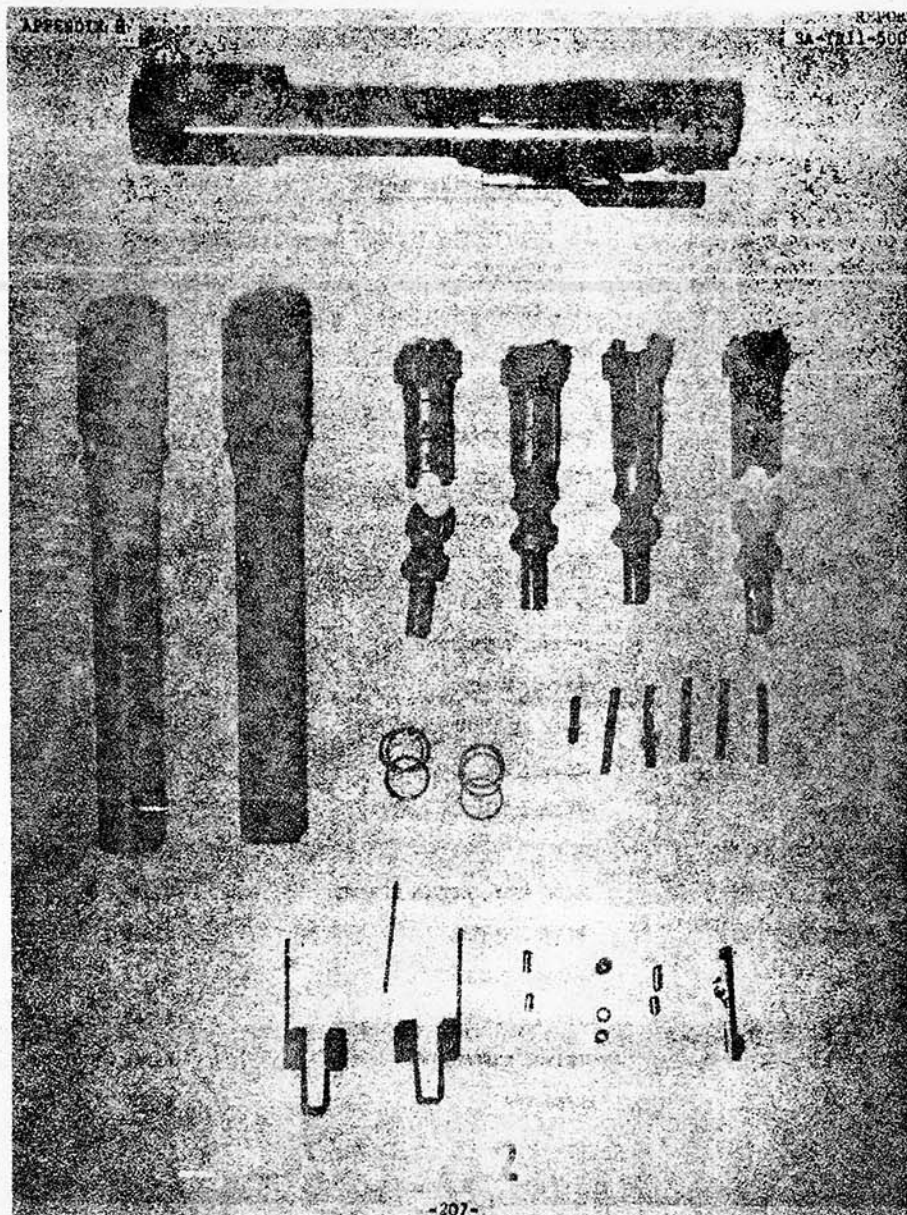


APPENDIX II

PARTS REPLACEMENT

(2) GUN SERIAL NO. 123225

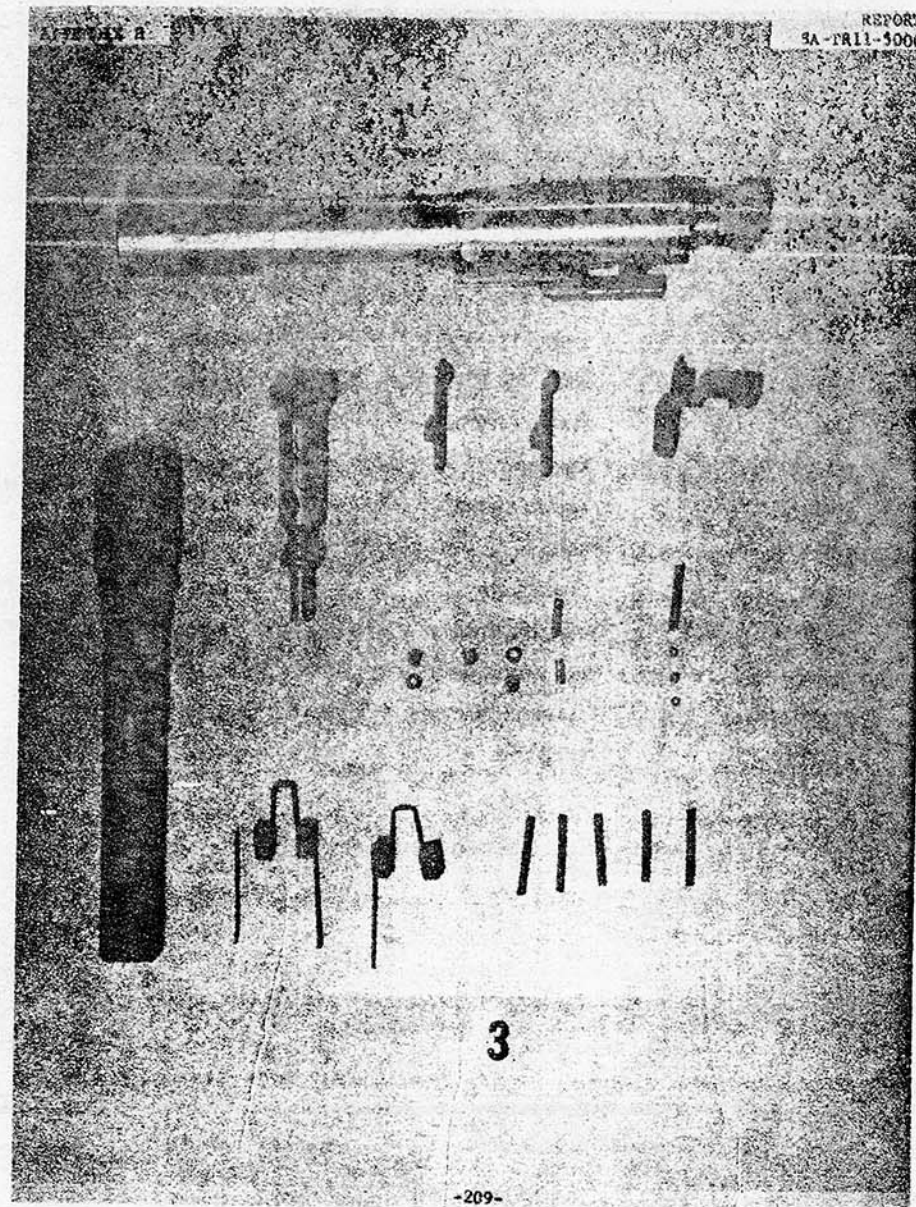
<u>ROUNDS FIRED</u>	<u>NOMENCLATURE</u>	<u>PART NUMBER</u>
8000	SPRING, EJECTOR	GX5380
11,000	RING, BOLT	GX1540
11,323	SPRING, EJECTOR	GX5380
11,620	SPRING, HAMMER	GX4976
13,540	RING, BOLT	G1540
14,000	CARRIER, BOLT	GX5552
14,000	BOLT	GX5282
18,000	GUIDE ASSY, ACTION SPRING	62119
19,380	SPRING, EJECTOR	61564
20,630	BOLT	61538
22,920	SPRING, EXTRACTOR	61568
23,300	PIN, EXTRACTOR	61563
25,000	SPRING, HAMMER	61697
25,000	BOLT	61538
27,966	EXTRACTOR	61562
29,458	GUIDE ASSY, ACTION SPRING	62119
29,772	SPRING, EXTRACTOR	61568
29,772	PIN, EXTRACTOR	61563
31,178	SPRING, EJECTOR	61569
33,969	BOLT...	61538
33,300	SPRING, EJECTOR	61569
34,400	SPRING, EJECTOR	61569



PARTS REPLACEMENT

(3) GUN SERIAL NO. 118603

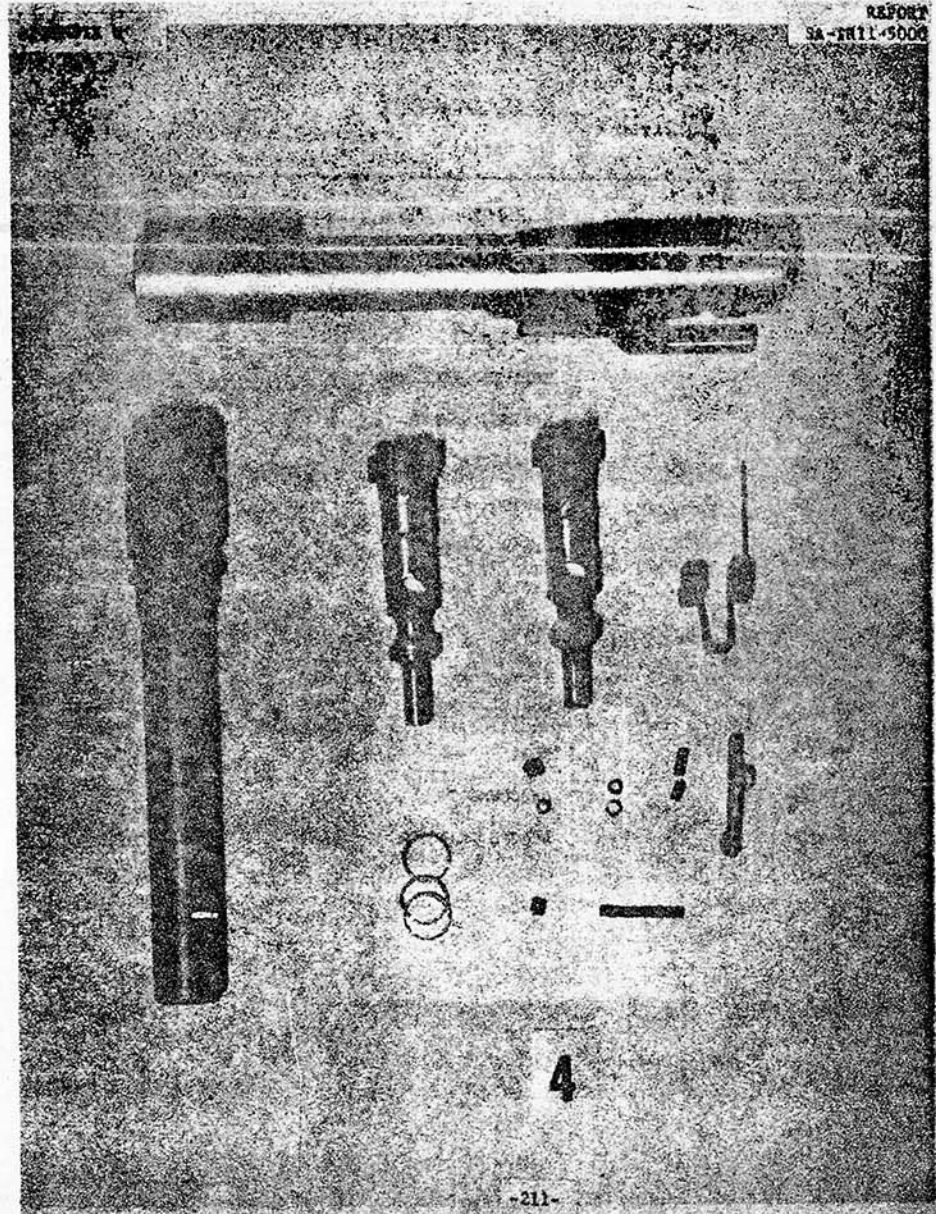
<u>ROUNDS FIRED</u>	<u>NOMENCLATURE</u>	<u>PART NUMBER</u>
4044	PIN, EXTRACTOR	61563
4365	EXTRACTOR	61562
8000	SPRING, EJECTOR	61569
13842	SPRING, EXTRACTOR	61568
13842	PIN, EXTRACTOR	61563
14620	SPRING, HAMMER	61697
16000	BOLT	61538
16000	CARRIER, BOLT	62274
16200	SPRING, EXTRACTOR	61568
16200	SPRING, EJECTOR	61569
18102	LEVER SELECTOR, SAFETY	61959
23320	SPRING, EJECTOR	61569
24200	SPRING, EJECTOR SPECIAL	NONE
25000	BOLT	61538
27281	GUIDE ASSY, ACTION SPRING	62119
28998	SPRING, HAMMER	61697
31124	SPRING, EJECTOR	61569
32600	SPRING, EJECTOR	61569
34878	SPRING, EXTRACTOR	61568
34878	EXTRACTOR	61562



PARTS REPLACEMENT

(4) Gun Serial No. 122033

ROUNDS FIRED	NOMENCLATURE	PART NUMBER
4000	GUIDE ASSY. ACTION SPRING	62119
4000	SPRING EXTRACTOR	61568
5000	BOLT	61538
8000	SPRING EJECTOR	61569
11282	RING BOLT	61540
11430	SPRING HAMMER	61697
14000	BOLT	61538
14000	CARRIER BOLT	62274
21000	SPRING EXTRACTOR	61568
27000	PIN EXTRACTOR	61563
27000	SPRING EXTRACTOR	61568
27240	EXTRACTOR	61562

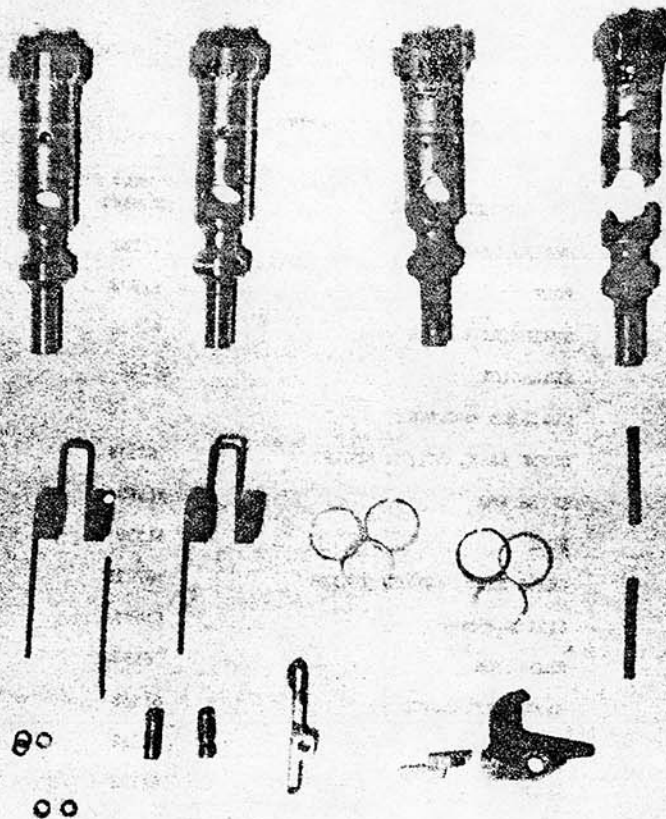


PARTS REPLACEMENT

(5) Gun Serial No. 113821

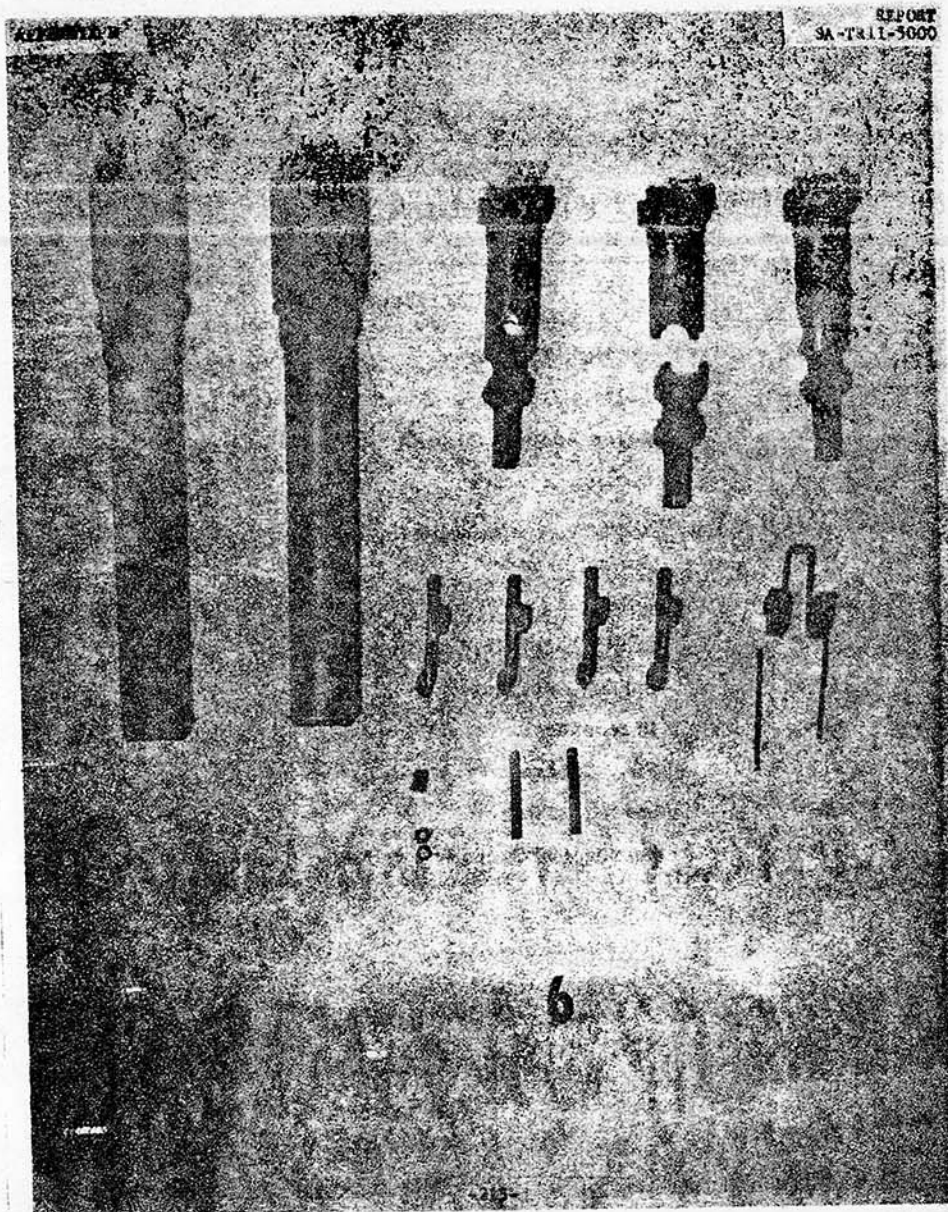
<u>ROUNDS FIRED</u>	<u>NOMENCLATURE</u>	<u>PART NUMBER</u>
3000	BOLT	61538
6000	SPRING, EJECTOR (SPECIAL)	NONE
10220	RING, BOLT	61540
11000	MODIFIED RECEIVER	
17222	SPRING, HAMMER	61697
19780	EXTRACTOR	61562
19780	SPRING, EXTRACTOR	61568
26082	SPRING, HAMMER	61697
26583	SPRING, EXTRACTOR	61568
27400	BOLT	61538
29400	RING, BOLT	61540
30000	PIN, TRIGGER	61654
31000	BOLT	61538
32400	DISCONNECT	61918
33500	SPRING, EJECTOR	61569

APPENDIX H



PARTS REPLACEMENT
(6) GUN SERIAL NO, 122994

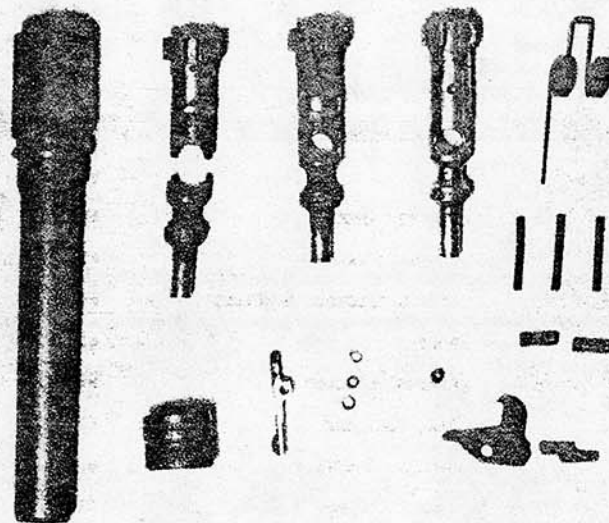
ROUNDS FIRED	NOMENCLATURE	PART NUMBER
2000	SPRING,EJECTOR	61569
6000	BOLT	61538
9370	SPRING,EXTRACTOR	61568
9491	EXTRACTOR	61562
11000	MODIFIED RECEIVER	
12097	GUIDE ASSY, ACTION SPRING	62119
14261	EXTRACTOR	61562
16595	BOLT	61538
19200	GUIDE ASSY, ACTION SPRING	62119
19290	SPRING,HAMMER	61697
19987	EXTRACTOR	61562
21802	SPRING,EXTRACTOR	61568
24740	EXTRACTOR	61562
30000	BOLT	61538



PARTS REPLACEMENT

(7) Gun Serial No. 121654

ROUNDS FIRED	NOMENCLATURE	PART NUMBER
2000	Spring, Ejector	61569
4000	Bolt	61538
5000	Guide Assy, Action Spring	62119
5140	Spring, Ejector	61569
9000	Bolt	61538
11166	Spring, Hammer	61697
12976	Bolt	61569
13180	Guide Assy, Action Spring	62119
15844	Spring, Extractor	61568
16485	Disconnect	61918
16485	Pin, Trigger	61654
20596	Spring, Ejector	61569
21835	Spring, Extractor	61568
21978	Bolt	61569

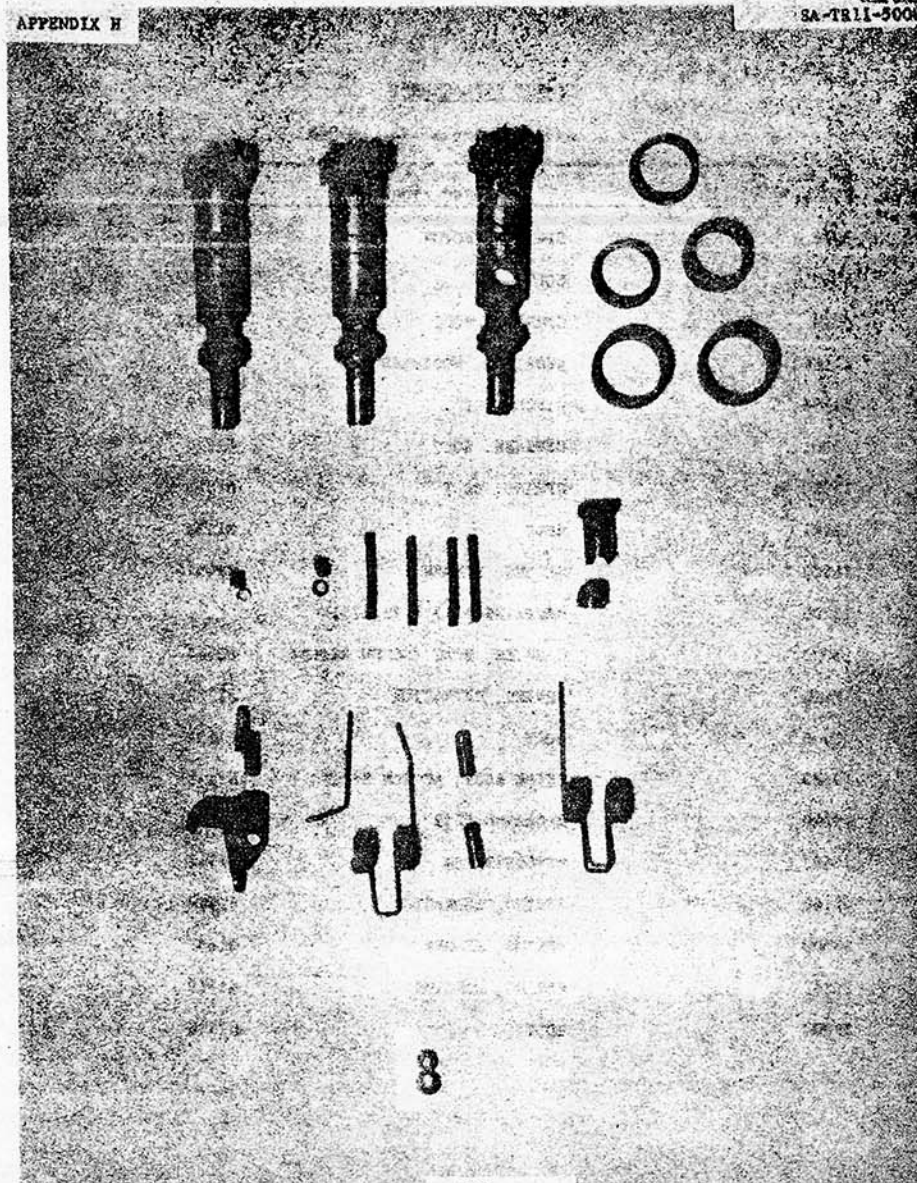


7

PARTS REPLACEMENT

(8) Gun Serial No. 121185

ROUNDS FIRED	NOMENCLATURE	PART NUMBER
2000	SPRING, EJECTOR	61569
3000	BOLT	61538
5000	BUFFER RINGS, OUTER	61578
6531	SPRING, EXTRACTOR	61568
7481	BOLT	61538
10487	SPRING, HAMMER	61697
11000	SPRING, EXTRACTOR	61568
12400	SPRING, EJECTOR (SPECIAL)	NONE
13000	BOLT	61538
13400	SPRING, EJECTOR	61569
18000	PIN, BOLT CAM	61704
19386	SPRING, EJECTOR	61569
20980	SPRING, HAMMER	61697
20980	DISCONNECT	61918
20980	PIN, TRIGGER	61654
21000	BOLT	61538

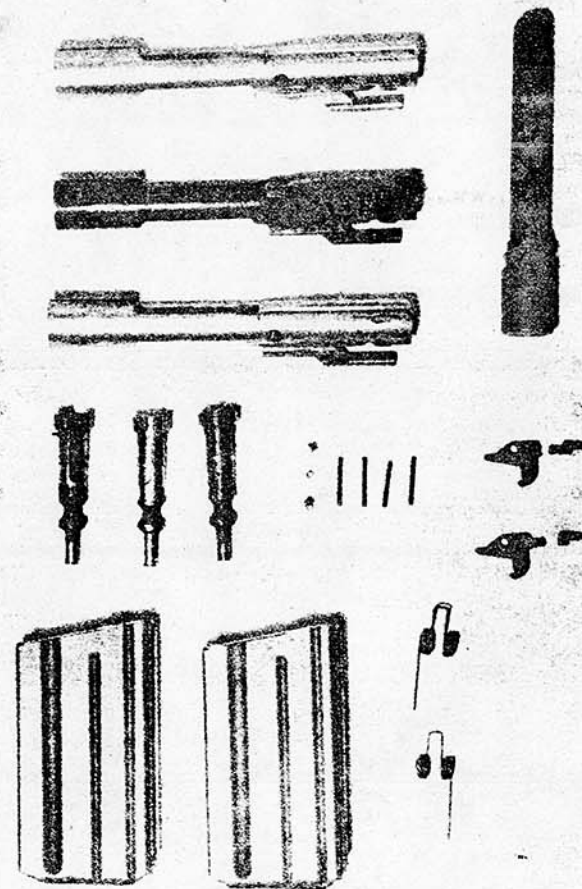


8

PARTS REPLACEMENT

(9) Gun Serial No. 109068

<u>ROUNDS FIRED</u>	<u>NOMENCLATURE</u>	<u>PART NUMBER</u>
6968	SPRING EJECTOR	GK5380
8000	BOLT	GK5282
8000	CARRIER, BOLT	GK5552
(11000)	RECEIVER, MODIFIED	
11686	DISCONNECT	61918
12301	CARRIER, BOLT	62274
12620	SPRING, BOLT	61569
13999	BOLT	61538
14520	SPRING, HAMMER	GK4976
13200	MAGAZINE #115 (BY 175)	
16000	CARRIER, BOLT (SCREW BROKEN)	62274
17400	SPRING, EXTRACTOR	61568
18000	BOLT	61538
19380	GUIDE ASSY, ACTION SPRING	62119
19840	MAGAZINE #112	
24692	DISCONNECTOR	61918
25160	SPRING, EXTRACTOR	61568
26000	SPRING, HAMMER	61697
26261	SPRING, EJECTOR	61569
27000	BOLT	61538



REPORT
SA-TR11-5000

APPENDIX II

PARTS REPLACEMENT

(10) GUN SERIAL NO. 105083

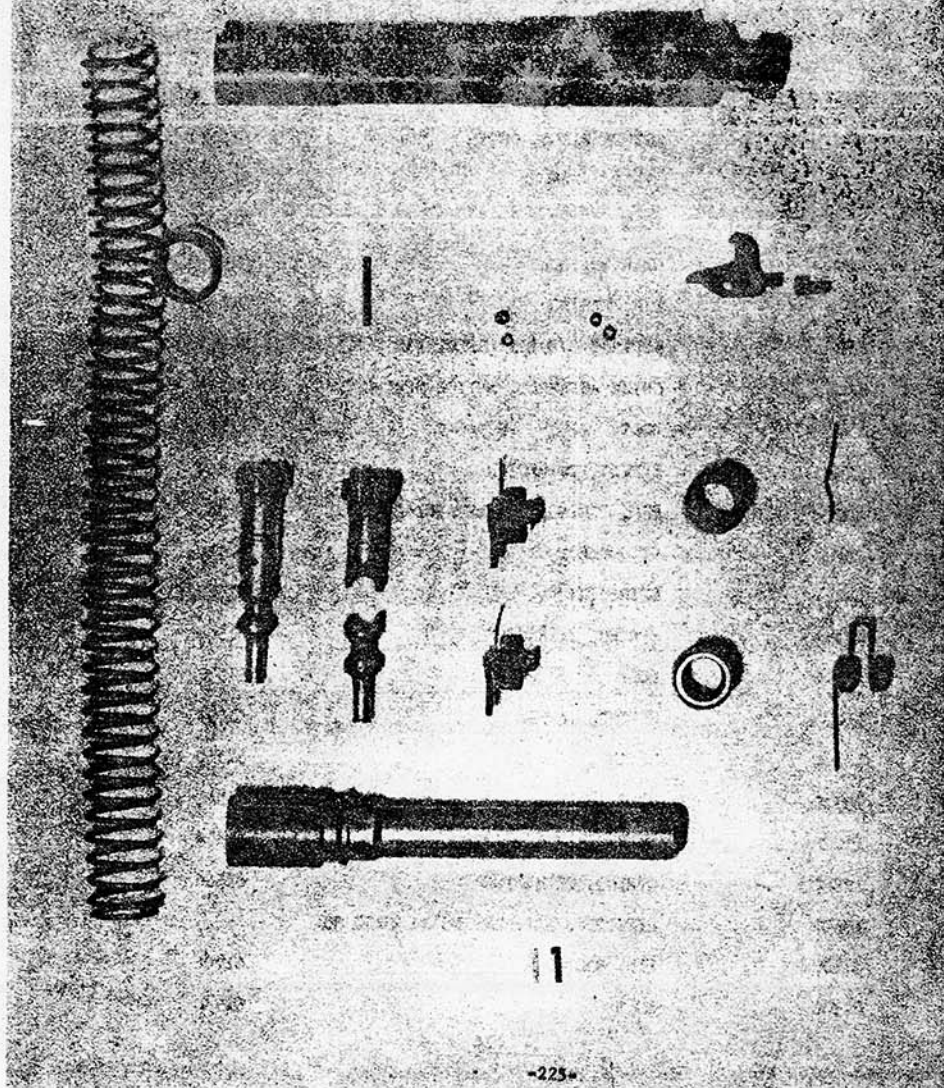
<u>ROUNDS FIRED</u>	<u>NOMENCLATURE</u>	<u>PART NUMBER</u>
6100	Spring Ejector	GX5380
6580	Spring Extractor	61568
9000	Bolt	GX5282
9000	Carrier Bolt	GX5552
10220	Spring Ejector	61569
10223	Spring Hammer	GX4976
12262	Bolt	61538
16600	Bolt	61538
(11000)	Receiver modified	
19,000	Spring Hammer	61697



PARTS REPLACEMENT

(11) GUN SERIAL NO. 109685

OUNDS FIRED	NOMENCLATURE	PART NUMBER
3000	SEAR, AUTO	61622
4000	SEAR, AUTO	61622
5000	BUFFER RINGS, OUTER	61578
7187	SPRING, EXTRACTOR EJM - EXT ETC	61568
10273	BOLT	GX 5282
10273	CARRIER, BOLT	GX 5552
12326	SPRING, HAMMER	GX 4976
13000	BOLT	61538
13091	DISCONNECT	61918
16224	BUFFER RINGS, OUTER	61578
18738	SPRING, EXTRACTOR	61568
20180	GUIDE ASSY, ACTION SPRING	62119
20501	BOLT	61538
21000	DISCONNECT	61918
23576	SPRING, EXTRACTOR	61569
25000	SPRING, ACTION	61581

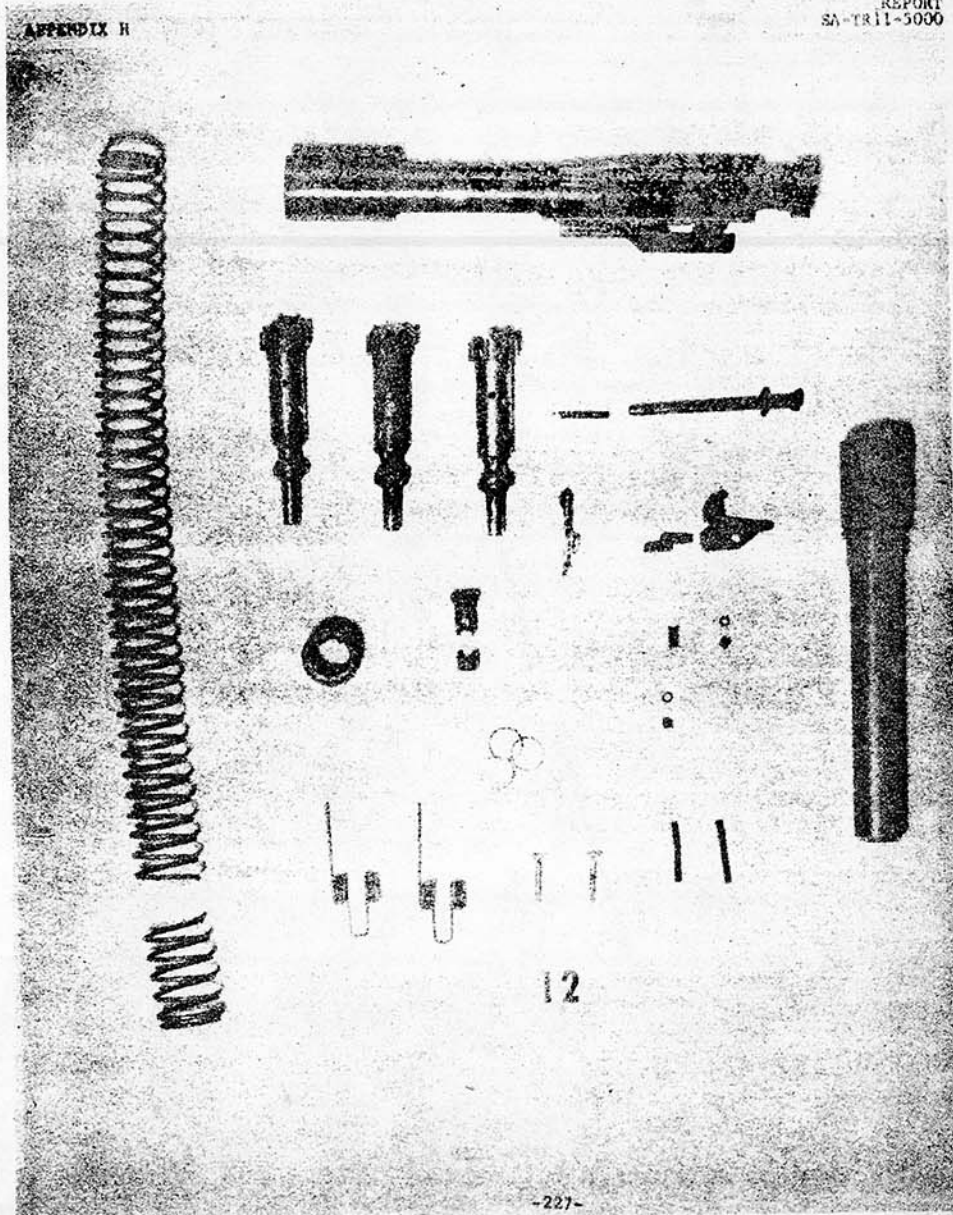


PARTS REPLACEMENT

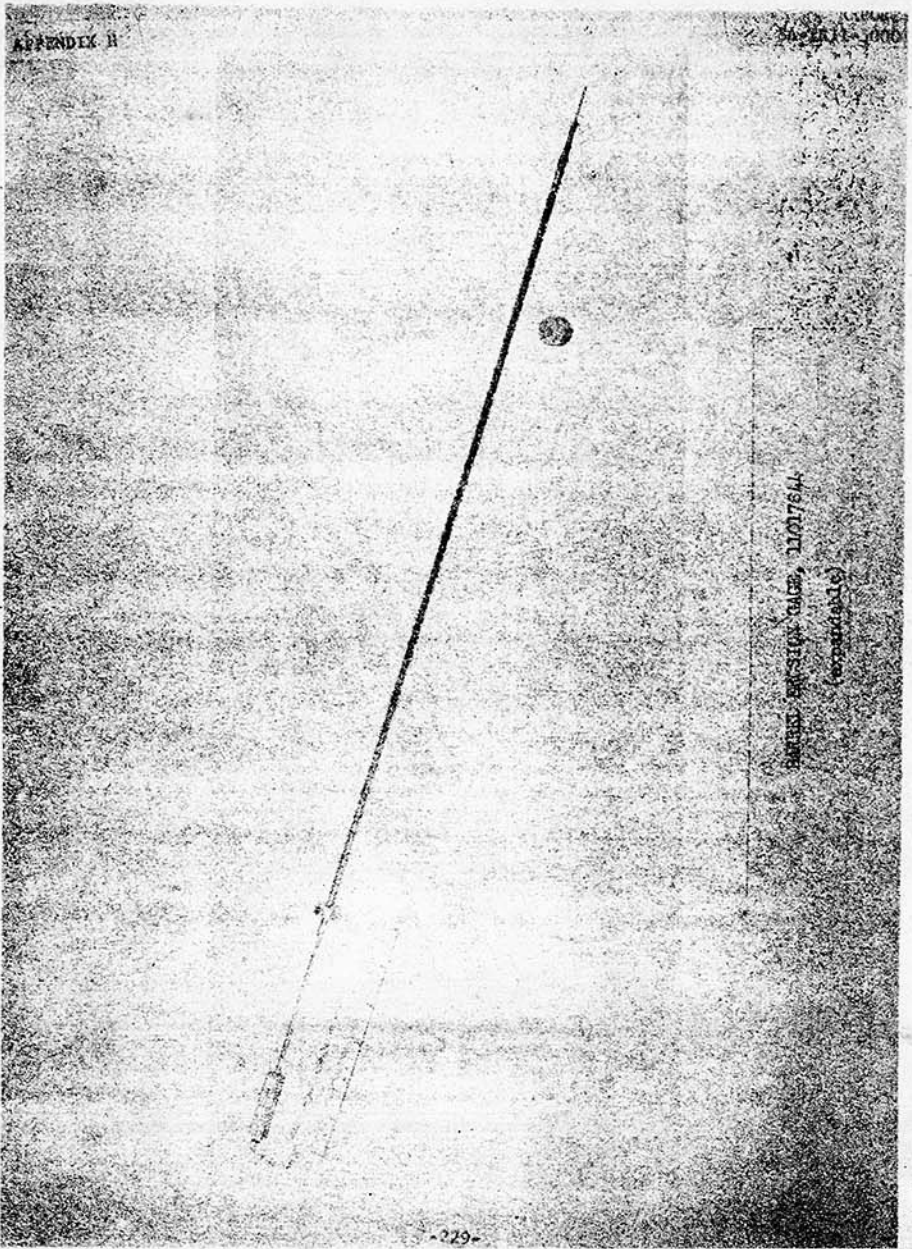
(12) GUN SERIAL NO. 122429

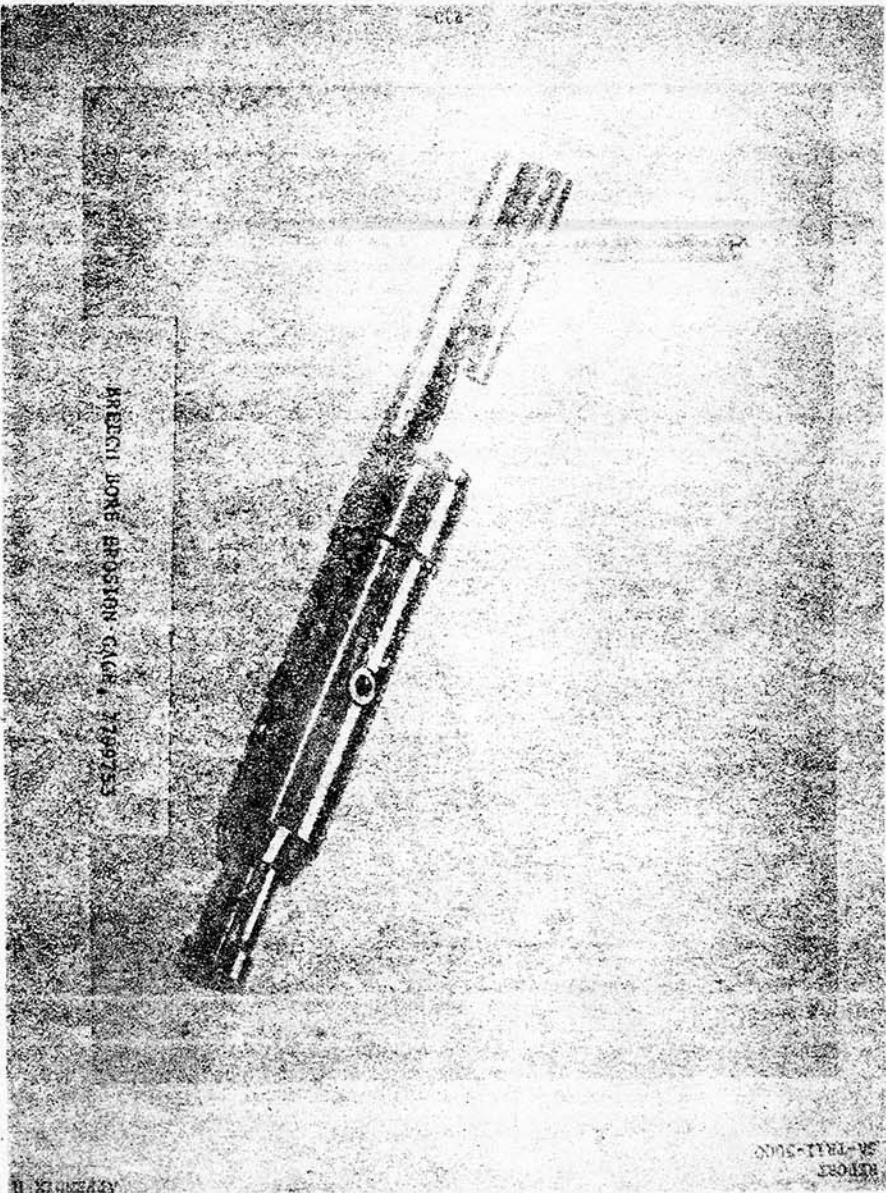
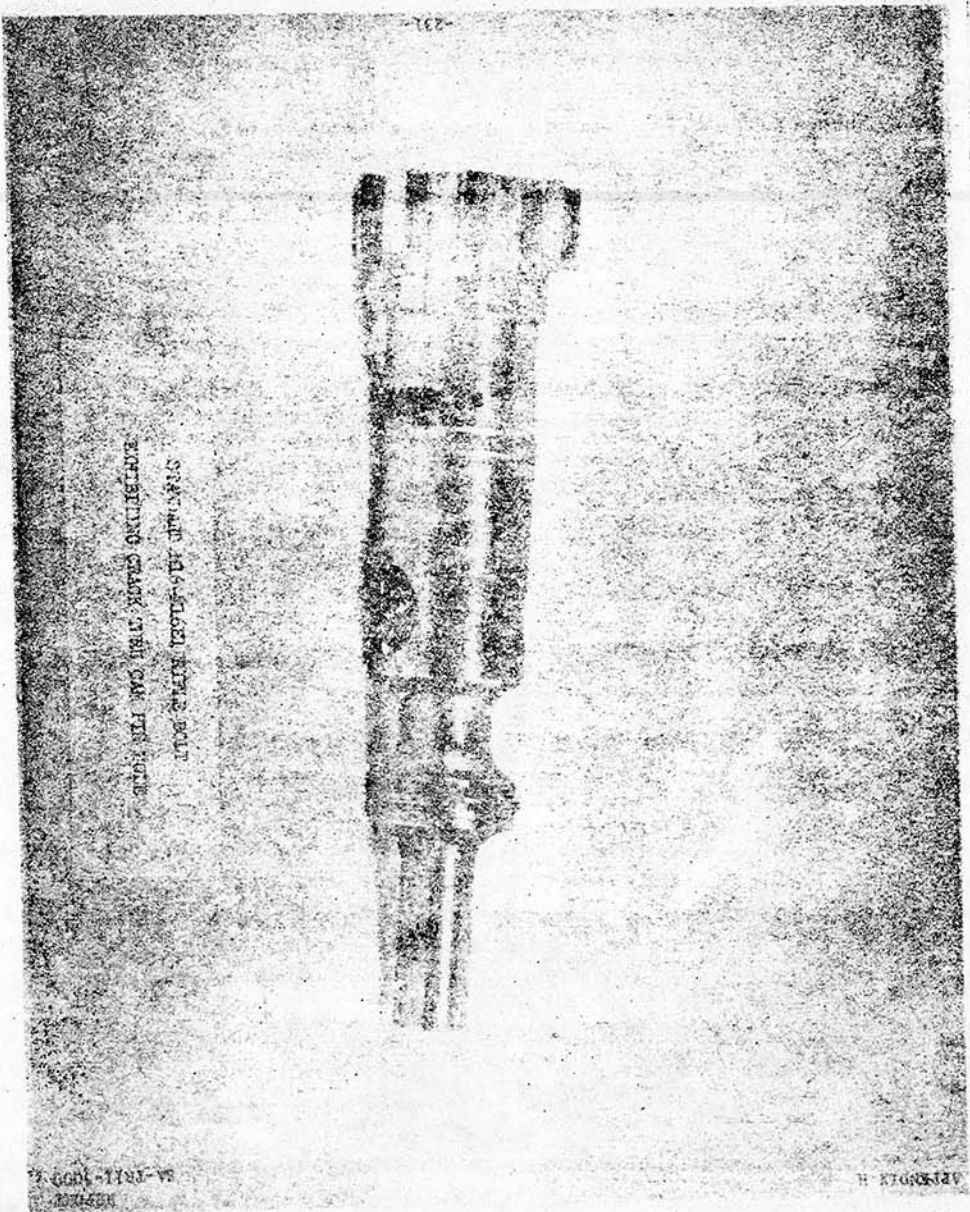
<u>ROUNDS FIRED</u>	<u>NOMENCLATURE</u>	<u>PART NUMBER</u>
4000	BUFFER RINGS, OUTER	61578
5000	SPRING, HAMMER	GX4976
6000	BOLT	GX5282
6000	CARRIER, BOLT	GX5552
6000	PIN, FIRING	GX5554
8000	SPRING, EJECTOR (SPECIAL)	NONE
8300	GUIDE ASSEMBLY, ACTION SPRING	62119
10000	BOLT	61538
11970	SPRING, EXTRACTOR	61568
12000	PIN, FIRING, PIN RETAINING	61561
12802	DISCONNECT	61918
15192	EXTRACTOR	61562
15192	SPRING, EXTRACTOR	61568
16000	BOLT	61538
16406	SPRING, HAMMER	61697
18100	SPRING, EJECTOR	61569
18312	RING, BOLT	61540
18728	BUFFER RINGS, OUTER	61578
18880	SPRING, EXTRACTOR	61568
18880	DEFECTIVE EXT. SPRING AS RECEIVED	
21600	PIN, BOLT CAM	61704
21700	BOLT	61538

APPENDIX H



PHOTOGRAPHS - MISCELLANEOUS

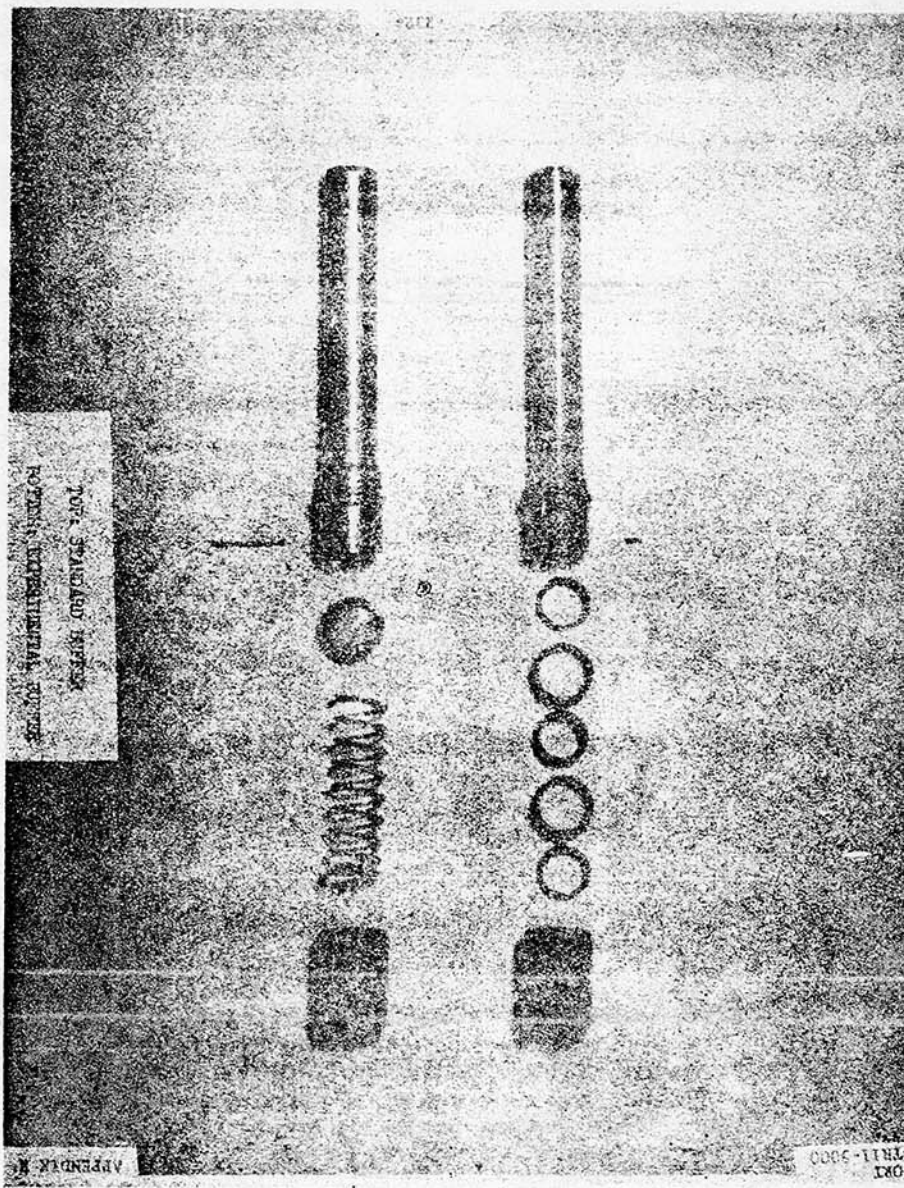






MODEL STAND & JACK FOR ACCURATE MEASUREMENTS

APPENDIX B



TOP STANDARD WEIGHT
ROTARY ELECTRICAL POWER

APPENDIX B

APPENDIX B

Unclassified

Security Classification

DOCUMENT CONTROL DATA - R&D <small>(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)</small>		
1. ORIGINATING ACTIVITY (Corporate author) Springfield Armory, Springfield, Massachusetts 01101		2. REPORT SECURITY CLASSIFICATION Unclassified
		2. REPORT SECURITY CLASSIFICATION Unclassified
		2. REPORT SECURITY CLASSIFICATION N/A
3. REPORT TITLE Barrel Erosion Study of Rifles, 5.56mm, M16 and XM16E1 - A Joint Army - Air Force Test		
4. DESCRIPTIVE NOTES (Type of report and inclusive dates) Technical Report		
5. AUTHOR(S) (Last name, first name, initial) Landry, P. R. Nilsson, C. E.		
6. REPORT DATE March 1966	7a. TOTAL NO. OF PAGES 236	7b. NO. OF REFS None
8a. CONTRACT OR GRANT NO.	8a. ORIGINATOR'S REPORT NUMBER(S) SA-TR11-5000	
a. PROJECT NO.	8b. OTHER REPORT NO(S) (Any other numbers that may be attached to this report) None	
c. AMCNS 4420-23-01-000-000		
10. AVAILABILITY/LIMITATION NOTICES Qualified requesters may obtain copies of this report from DDC. Others may purchase copies of this report from Clearinghouse, Department of Commerce, Springfield, Virginia (22151)		
11. SUPPLEMENTARY NOTES None	12. SPONSORING MILITARY ACTIVITY U.S. Army Materiel Command	
13. ABSTRACT Twelve rifles, 5.56mm, XM16E1 were fired to the end of their barrel bore service life. Measurements of the barrel bore were taken periodically with an air gage, and an expanding mandrel gage. It was determined that the maximum acceptable barrel bore diameter would be 6.2206 inches. The barrel bore was considered serviceable for either overseas or CONUS use if that diameter had not advanced forward of the origin of the rifling further than 3.625 inches. Advancement to 6.625 inches was considered the cut-off for CONUS use only and advancement beyond 6.625 inches would constitute complete rejection of the barrel. Gage, Barrel Erosion C7799792, designed by Springfield Armory, is recommended for this purpose. Several M11 Cleaning Rods and .22 caliber bore brushes, 11010021, were tested and found to be inadequate. It is also recommended that several components be revised to reduce the breakage and malfunction rates and improve the reliability. Test procedures are described and results discussed.		

DD FORM 1473
1 JAN 64

Unclassified
Security Classification

14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
1. Barrels, Rifles, 5.56mm, M16, XM16E1						
2. Erosion, Rifle Barrels						
3. Rifles, 5.56mm, M16, XM16E1						

INSTRUCTIONS

1. **ORIGINATING ACTIVITY:** Enter the name and address of the contractor, subcontractor, grantee, Department of Defense activity or other organization (corporate author) issuing the report.

2a. **REPORT SECURITY CLASSIFICATION:** Enter the overall security classification of the report. Indicate whether "Restricted Data" is included. Marking is to be in accordance with appropriate security regulations.

2b. **GROUP:** Automatic downgrading is specified in DoD Directive 5200.10 and Armed Forces Industrial Manual. Enter the group number. Also, when applicable, show that optional markings have been used for Group 3 and Group 4 as authorized.

3. **REPORT TITLE:** Enter the complete report title in all capital letters. Titles in all cases should be unclassified. If a meaningful title cannot be selected without classification, show title classification in all capitals in parentheses immediately following the title.

4. **DESCRIPTIVE NOTES:** If appropriate, enter the type of report, e.g., interim, progress, summary, annual, or final. Give the inclusive dates when a specific reporting period is covered.

5. **AUTHOR(S):** Enter the name(s) of author(s) as shown on or in the report. Enter last name, first name, middle initial. If military, show rank and branch of service. The name of the principal author is an absolute minimum requirement.

6. **REPORT DATE:** Enter the date of the report as day, month, year, or month, year. If more than one date appears on the report, use date of publication.

7a. **TOTAL NUMBER OF PAGES:** The total page count should follow normal pagination procedures, i.e., enter the number of pages containing information.

7b. **NUMBER OF REFERENCES:** Enter the total number of references cited in the report.

8a. **CONTRACT OR GRANT NUMBER:** If appropriate, enter the applicable number of the contract or grant under which the report was written.

8b, c, & 8d. **PROJECT NUMBER:** Enter the appropriate military department identification, such as project number, subproject number, system numbers, task number, etc.

9a. **ORIGINATOR'S REPORT NUMBER(S):** Enter the official report number by which the document will be identified and controlled by the originating activity. This number must be unique to this report.

9b. **OTHER REPORT NUMBER(S):** If the report has been assigned any other report numbers (either by the originator or by the sponsor), also enter this number(s).

10. **AVAILABILITY/LIMITATION NOTICES:** Enter any limitations on further dissemination of the report, other than those imposed by security classification, using standard statements such as:

- (1) "Qualified requester's may obtain copies of this report from DDC."
- (2) "Foreign announcement and dissemination of this report by DDC is not authorized."
- (3) "U. S. Government agencies may obtain copies of this report directly from DDC. Other qualified DDC users shall request through _____."
- (4) "U. S. military agencies may obtain copies of this report directly from DDC. Other qualified users shall request through _____."
- (5) "All distribution of this report is controlled. Qualified DDC users shall request through _____."

If the report has been furnished to the Office of Technical Services, Department of Commerce, for sale to the public, indicate this fact and enter the price, if known.

11. **SUPPLEMENTARY NOTES:** Use for additional explanatory notes.

12. **SPONSORING MILITARY ACTIVITY:** Enter the name of the departmental project office or laboratory sponsoring (paying for) the research and development. Include address.

13. **ABSTRACT:** Enter an abstract giving a brief and factual summary of the document indicative of the report, even though it may also appear elsewhere in the body of the technical report. If additional space is required, a continuation sheet shall be attached.

It is highly desirable that the abstract of classified reports be unclassified. Each paragraph of the abstract shall end with an indication of the military security classification of the information in the paragraph, represented as (TS), (S), (C), or (U).

There is no limitation on the length of the abstract. However, the suggested length is from 150 to 225 words.

14. **KEY WORDS:** Key words are technically meaningful terms or short phrases that characterize a report and may be used as index entries for cataloging the report. Key words must be selected so that no security classification is required. Identifiers, such as equipment model designation, trade name, military project code name, geographic location, may be used as key words but will be followed by an indication of technical context. The assignment of links, rules, and weights is optional.