

SHEET NO.

PROJ. NO.

BAREL

Bot

-19-

Model No	Rebar Area in.	Bolt Area in.	Bolt Dia in.	Grip Length in.	Nonmin Yield Point	Load Bolt Spacing	Mean Pressure Possible	Barrel Size or Adj. at Neck	Steel Yield Point	Mean Pressure Possible	Mean Pressure Possible
720	.443	.377	.109	.0015	2340	196	83,000	1.081	X-4130	58,000	54,000
721	.480	.429	.141	.0013	1335	75	10,600	1.071	X-4130	58,000	53,000
* X-760	.303	.206	.114	.0014	1335	75	8,600	.897	X-4130	48,000	44,000
X-760	.355	.071	.0150	.0015	1315	75	5,350	.892	X-4130	48,000	43,000
Y-0343	.470	.329	.084	.0020	8620	130	10,900	1.011	1350	34,000	32,000
Y-704W	.537	.400	.086	.0020	45	190	16,400	.959	X-4130	57,000	48,000

* THE BARREL EXTENSION IS THE REBAR IN THE 1X7L

NOTE! THE ABOVE FORCE AND PRESSURE FIGURES ARE THEORETICAL AND SHOULD BE USED FOR COMPARISON ONLY AGAINST THE MAXIMUM ALLOWABLE STRESS OF 100,000 P.S.I.

* THE BARREL EXTENSION IS THE RECEIVER IN THE INITIAL

NOTE! THE ABOVE FORCE AND PRESSURE FIGURES ARE

THEORETICAL AND SHOULD BE USED FOR COMPARISON

RD-1645

REMINGTON ARMS COMPANY, INC.

ENGINEERING DEPARTMENT



COMPUTATION SHEET

SHEET NO. _____

TITLE OF PROJ. _____

PROJ. NO. _____

SUBJECT _____

LIMITING LOADS ON VARIOUS BELTS

WORKS _____

COMPUTER _____

DATE _____

19 _____

X-170 DEL	STEEL USED	YIELD POINT	30-06 STANDARD LOAD				300 4th STANDARD LOAD				#
			LIMITED P.S.I.	LIMITED P.S.I.	LIMITED P.S.I.	LIMITED P.S.I.	LIMITED P.S.I.	LIMITED P.S.I.	LIMITED P.S.I.	LIMITED P.S.I.	
N/A			IN 30-06	IN 30-06	IN 30-06	IN 30-06	IN 30-06	IN 30-06	IN 30-06	IN 30-06	FACE
			25% F.S.	25% F.S.	25% F.S.	25% F.S.	25% F.S.	25% F.S.	25% F.S.	25% F.S.	AT
			118,000	118,000	118,000	118,000	118,000	118,000	118,000	118,000	YIELD
720	2340	190,000	118,000	89,000	81,000	61,000	93,000	70,000	64,000	48,000	20,750
721	1335	75,000	60,000	45,000	41,000	31,000	48,000	34,000	33,000	25,000	19,600
"	2340	190,000	153,000	115,000	105,000	99,000	120,000	90,000	83,000	67,000	26,800
X-1760	1335	75,000	49,000	37,000	34,000	27,000	39,000	29,000	27,000	20,000	8,600
"	2340	190,000	124,000	93,000	81,000	64,000	91,000	73,000	68,000	50,000	21,750
X-1760	1315	75,000	31,000	23,000	21,000	16,000	24,000	18,000	17,000	12,000	5,350
M-0.5-A3	8620	130,000	67,000	47,000	43,000	37,000	49,000	37,000	34,000	26,000	10,900
M-170-W		190,000	94,000	71,000	65,000	49,000	74,000	55,000	51,000	38,000	16,400
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RD-3845

REMINGTON ARMS COMPANY, INC.

ENGINEERING DEPARTMENT



COMPUTATION SHEET

SHEET No. _____

TITLE OF PROJ. _____

PROJ. No. _____

SUBJECT _____

RECEIVER AND BOLT STRENGTH

WORKS _____

COMPUTER _____

DATE 2-25-1944

MODEL No	AREA IN AREA IN SHEAR	COMPRESS.	REQUIRE STRENGTH	DEFLEC. AREA IN	DEFLEC. AREA IN	RECEIVER
	sq. in.	sq. in.	sq. in.	sq. in.	sq. in.	DEFLEC. E = 3 x 10 ⁻³
						TENSION 17,400
M-720	.397	.1092	116,000	11.40	sq. in. 59.14	.443
M-721	.429	.1410	99,000			.480
M-760-1X	.206	.1144	111,000			.303
M-760-2X	.0713	.17800	244,000	.017		.555 .005
M-03-S	.329	.0947	134,000	.009		.470
		.0837	132,000			
M-70-W	.400	.1053	121,000			.527
		.0862	147,000			