DRAWING SIZE B
(ARRADCOMR 70-12)

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
H	REPLACES REV G WITH CHNG. NOR W8S3014 79-05-01	79-11-07	R Hall
J	NOR W5S 2007 / 85-03-15	850703	[illegible]
K	ERR Z9Z1239A (ECP G9S2088/891107)	900214	ORFI JB

NOTES:-

1- WIRE, MUSIC, ASTM A228.
2- STRESS RELIEVE AT 435°F ± 10°F FOR 30 MINUTES AFTER FORMING.
3- DO NOT COMPRESS SOLID. NOTE 7 APPLIES.
4- FINAL PROTECTIVE FINISH: FINISH 3.3.1 OF MIL-STD-171 WITH MIL-L-3150 SUPPLEMENTARY OIL TREATMENT.
5- HOLE DIA. INTO WHICH SPRING FITS FREELY.....076 MIN.
6- ROD DIA. OVER WHICH SPRING SLIDES FREELY.....038 MAX.
7- MANUFACTURE IN ACCORDANCE WITH MIL-S-13572, TYPE 1, GRADE B, EXCEPT THAT PARA. 4.4.4.1 (PROCEDURE FOR REMOVING SET)SHALL NOT APPLY. PARA. 4.4.4. (LOAD TEST) SHALL APPLY AFTER SPRING HAS BEEN COMPRESSED TO A HEIGHT OF .084 FIVE (5) TIMES.

WIRE DIAMETER	.0135
COIL DIAMETER (O.D.)	.071 ± .003
FREE LENGTH	.138 REF.
TOTAL COILS	5 REF
DIRECTION OF HELIX	L.H. OR R.H.
LOAD AT COMPRESSED LENGTH OF .106	2.0 LB ± 0.2 LB
LOAD AT COMPRESSED LENGTH OF .095	2.67 LB ± .27
SPRING RATE	62 LB./IN. REF,
SOLID LENGTH	.084 MAX.
TYPE OF ENDS	OPEN ENDS NOT GROUND.

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

~~(USED WITH PLUNGER 5163398)~~

PART NO. 5163397

	.30 BMGMI9A4 FXD
	.30 BMGMI9A4 FLX
	.30 BMG-MI9A6
D 5564208	
D 5545964	
D 7267936	.50 BMG-M2
	FXD & FLEX
NEXT ASSY	USED ON
APPLICATION	

MECHANICAL PROPERTIES	
YP	
TS	
EL2	
RA	
BH	
RH	

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON DECIMALS ±
FRACTIONS ± ANGLES ±
MATERIAL: NOTE 1 APPLIES
FINAL PROTECTIVE FINISH: NOTE 4 APPLIES

ORIGINAL DATE OF DRAWING
10 MAR 39

DRAFTSMAN LAS	CHECKER
ENGR RHA	ENGR WFF
ENGR WF FRIGON	ENGR R HENRY
VA LUUKKONEN	
HF LYNCH	

SPRINGFIELD ARMORY,
SPRINGFIELD, MA

SPRING, HELICAL COMPRESSION

SIZE	CODE IDENT NO.	
B	19205	5163397
SCALE —	UNIT WT.	SHEET 1 OF 1

ARRADCOM FORM 66 AUG 77 REPLACES SARPA FORM 1039 OCT 75 WHICH MAY BE USED UNTIL EXHAUSTED

Spring, Helical Compression - 5163397.c4