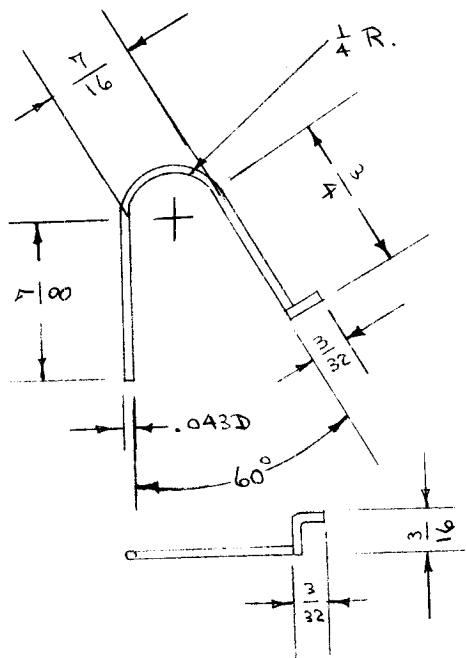


SP-100

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR THER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

QTY PER UNIT	USED ON		
	MODEL	PROJECT NO.	ASS'Y. NO.
1	A-1000	101	A-336



REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		.043 D	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE		
		SPRING STEEL	SPRING	
		MATERIAL		
		WEIGHT PER PC.		
		TYPE & TEMPER	ADD 1-14-53	AJJ
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
		HEAT TREAT. SPEC.	HECKED	FINAL APPROVAL
		S-105 CADMIUM PLATE FINISH & SPEC. NO.	SUPERCEDES AMS-223	SP-100

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
ALL OTHERS		DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±					

SCALE: _____

DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

SP-101

C

RELEASED

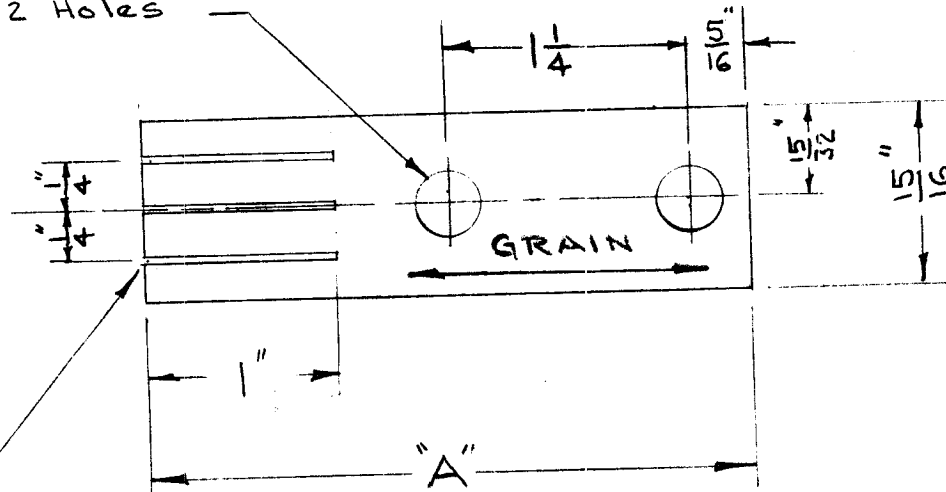
IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	#141	A-126	8-22-52

1/32 Drill (.343)
2 Holes



1/32 Saw Slots

TMC NO	DIM. "A"
SP-101-1	3 5/32
SP-101-2	3"
SP-101-3	2 11/16"

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
C	3	GENERAL REVISION	12-10-52	3	HAQ	RTB	
B	2	1"	11/18/52	2	HAQ	RTB	
A	1	2 1/32 TO 2 1/64 (.328)	10/8/52	1	CDD	RTB	

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		.031	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE	SPRING CONTACT	
		PHOSPHOR BRONZE		
		MATERIAL		
		WEIGHT PER PC.		
		TYPE & TEMPER	HAQ 8-22-52	
		HEAT TREAT. SPEC.	RFB 8/29/52	
		SILVER PLATING 1000		
		FINISH & SPEC. NO.		
TOLERANCES			SCALE	FINAL APPROVAL
ALL THERS DEC. DIM. ± FRAC. DIM. ± 1/64 ANGULAR DIM. ±			DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.	SP-101 C

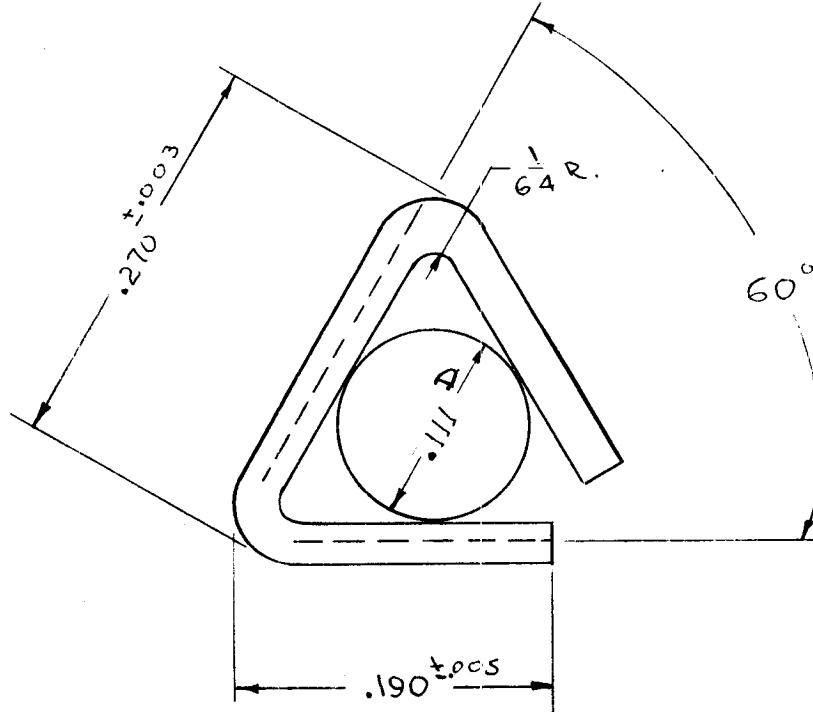
IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

STANDARD DRAWING

SP-102 C

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	A-1387			5-1-58
2	GPR-92		TT-148	10/29/62



NOTE:
REMOVE ALL SHARP EDGES

REF: CAMBRIDGE THERMIONIC CORP. CAT. # X2053-1

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		.028	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
		STOCK SIZE		
		BERYLLIUM COPPER.	SPRING LOCK	
		MATERIAL		
		WEIGHT PER PC.		
		TYPE & TEMPER	RB. 9-16-54	
			DRAWN	ELEC. DES. APP. MECH. DES. APP.
		HEAT TREAT. SPEC.	CHECKED	FINAL APPROVAL
		CADMIUM PLATE S-105 .0002		SP-102 C
		FINISH & SPEC. NO.		

C	1	MAT. WAS ST. STEEL	4-24-56	3	000	JAL	WDC
B	1	CAT. # WAS X 1983-3	7-19-55	2	000	JAL	WDC
A	1	DIMENSIONS CHAN.	10-28-52	1	000	JAL	WDC
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES		SCALE
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

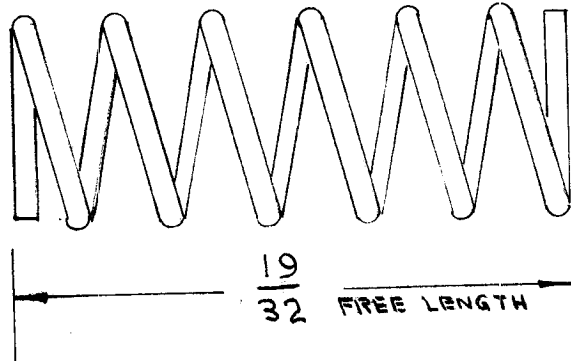
RELEASED

SP-103

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON

AMT. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
1	XFK		A-709	3-12-54
	LFA	109	A-138	9-11-52
2	PMO-2	313		10-27-54
1	YOK H2			5-19-58
2	RTF			5-23-58
2	RTF-2			11-10-58



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Property of:

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

MATERIAL TO BE BERYLLIUM COPPER
2% ALLOY. ASTM 197. BERYLLIUM
CORP. GRADE 25.
WIRE SIZE .0359

REF.: INSTRUMENT SPEC. CO. # 560-21

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		//	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE		
		SEE NOTE	SPRING, XTAL OVEN DOOR	
		MATERIAL		
		WEIGHT PER PC.		
		//		
		TYPE & TEMPER	C.O.D. 9-11-52	A. J. J. 10/21/58
		//	DRAWN	ELEC. DES. APP. MECH. DES. APP.
			WOC 10-21	
		HEAT TREAT. SPEC.	CHECKED	FINAL APPROVAL
		//		SP-103
		FINISH & SPEC. N.		

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
		TOLERANCES					
		SCALE					
ALL OTHERS		DEC. DIM. ± FRAC. DIM. ± 1/64 AN ULAR DIM. ±					
		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

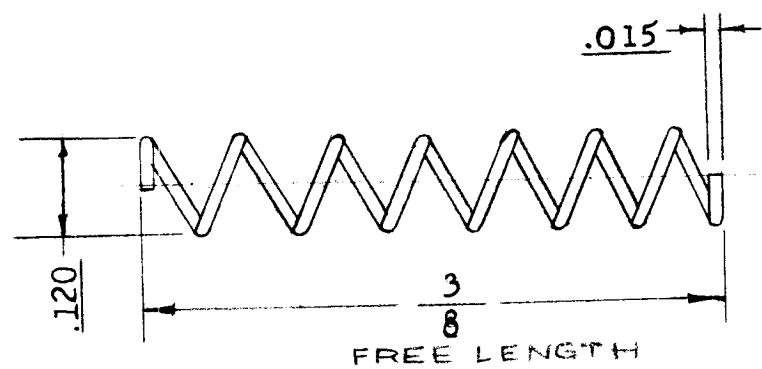
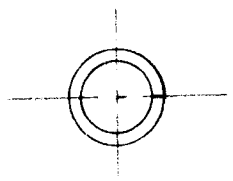
RELEASED

SP-104

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
TWR-115	151	A-215	10-20-52



REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		.015 WIRE	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE		
		STEEL	SPRING	
		MATERIAL		
		MUSIC WIRE		
		TYPE & TEMPER	16 10-20-52	<i>pen</i>
		HEAT TREAT. SPEC.	DRAWN	ELEC. DES. APP.
		FINISH & SPEC. NO.	MECH. DES. APP.	
			11/6/52	
			CHECKED	FINAL APPROVAL
				SP-104

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES		SCALE 4" TO 1"
ALL OTHERS	DEC. DIM. ± .005 FRAC. DIM. ± 1/64 AN ULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

SP-104

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

TWR-115

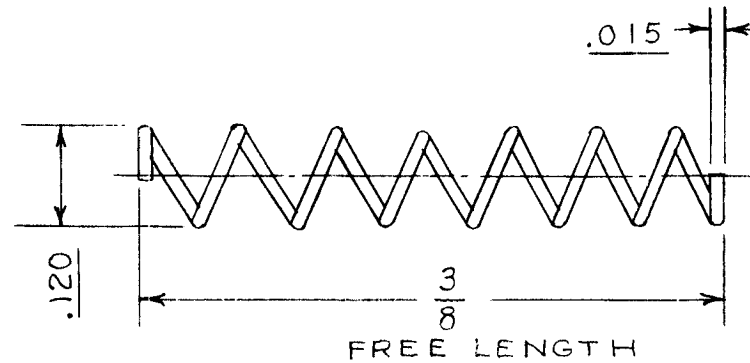
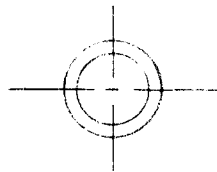
USED ON

MODEL

PROJECT NO.

ASS'Y. NO.

DATE



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Property of:

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
	.015 WIRE		TMC (Canada) LIMITED OTTAWA ONTARIO	
	STOCK SIZE			
	STEEL	#	SPRING	
	MATERIAL	WEIGHT PER PC.	TAPE WINDING	
	MUSIC WIRE		J.W.T. 10-5-55	
	TYPE & TEMPER		DRAWN	ELEC. DES. APP.
	HEAT TREAT. SPEC.			
	FINISH & SPEC. NO.			
				SP-104

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE 4" TO 1"				
ALL OTHERS	DEC. DIM. ± .005	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					
	FRAC. DIM. ± 1/64						
	ANGULAR DIM. ±						

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

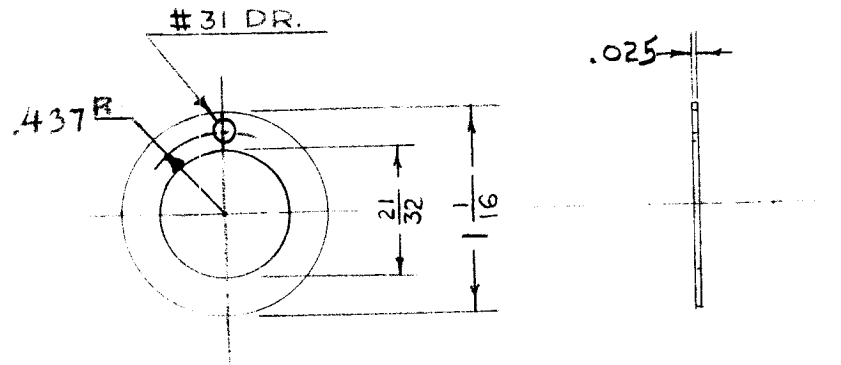
RELEASED

SP-105

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
TWR-115	151	A-223	9-13-52



REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		22 GAUGE .025	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE		
		BRASS	PIN HOLDER	
		MATERIAL		
		SPRING		
		TYPE & TEMPER		
		HEAT TREAT. SPEC.		
		CADMIUM PLATE S-105		
		FINISH & SPEC. NO.		

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES		SCALE FULL SIZE
ALL OTHERS	DEC. DIM. ± .005 FRAC. DIM. ± 1/64 ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

DRAWN: *L. Gabel*
 WDC 11/8
 ELEC. DES. APP. [Signature]
 MECH. DES. APP. [Signature]
 CHECKED [Signature]
 FINAL APPROVAL: SP-105

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

SP-105

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

TWR-115

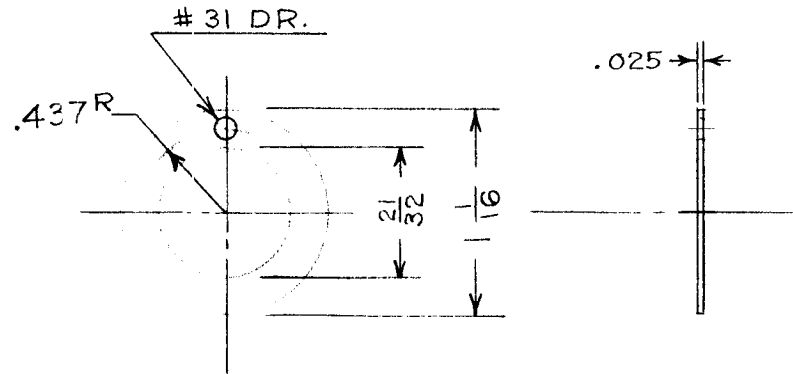
USED ON

MODEL

PROJECT NO.

ASS'Y. NO.

DATE



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Property of:

THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		22 GAUGE .025	TMC (Canada) LIMITED OTTAWA ONTARIO	
		STOCK SIZE		
		BRASS	PIN HOLDER	
		MATERIAL WEIGHT PER PC.	TAPE WINDING	
		SPRING	J.W.T. 10-5-55	
		TYPE & TEMPER	DRAWN	ELEC. DES. APP. MECH. DES. APP.
		HEAT TREAT. SPEC.	<i>Law</i>	
		FINISH & SPEC. NO.	CHECKED	FINAL APPROVAL
		CADMIUM PLATE S-105		SP-105

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE FULL SIZE				
ALL OTHERS	DEC. DIM.	$\pm .005$	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				
	FRAC. DIM.	$\pm \frac{1}{64}$					
	ANGULAR DIM.	\pm					

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

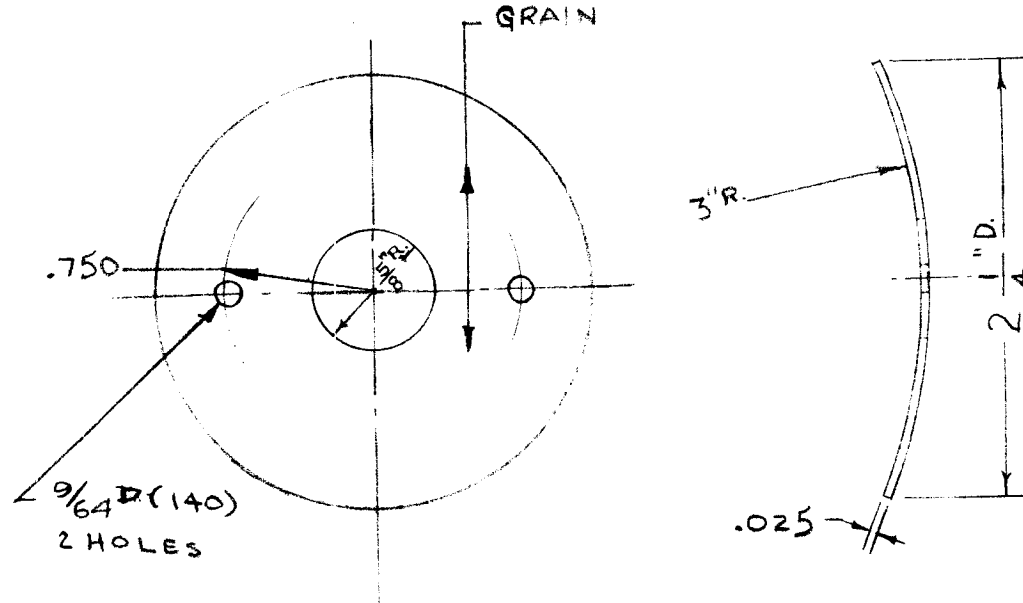
RELEASED

SP-106

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
TWR-115	151	A-221	9-13-52



REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		18 GAUGE .025	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
		STOCK SIZE		
		BRASS	PLATE SPRING	
		MATERIAL		
		SPRING		
		TYPE & TEMPER		
		HEAT TREAT. SPEC.		
		FINISH & SPEC. NO.		

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE FULL SIZE				
ALL OTHERS	DEC. DIM. ± .005 FRAC. DIM. ± 1/64 ANGULAR DIM. ±		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				

DRAWN: *[Signature]*
 ELEC. DES. APP.: *[Signature]*
 MECH. DES. APP.: *[Signature]*
 CHECKED: *[Signature]*
 FINAL APPROVAL: *[Signature]*
 SP-106

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

SP-106

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

TWR-115

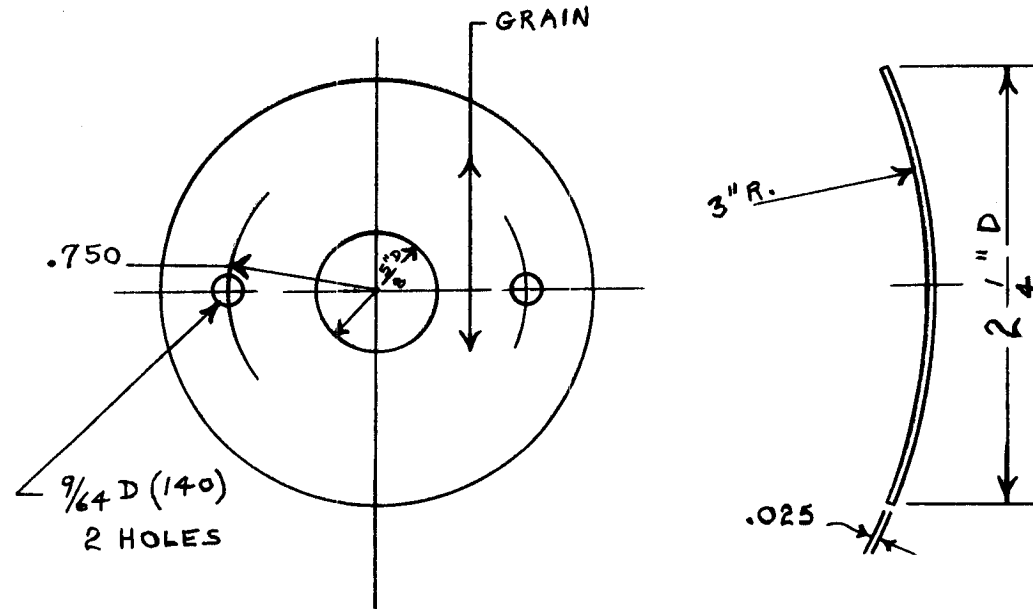
USED ON

MODEL

PROJECT NO.

ASS'Y. NO.

DATE



REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		18 GAUGE .025	TMC (Canada) LIMITED OTTAWA ONTARIO	
		STOCK SIZE		
		BRASS	PLATE SPRING	
		MATERIAL	TAPE WINDING	
		SPRING	RT 5/5/55	
		TYPE & TEMPER	DRAWN	ELEC. DES. APP.
		HEAT TREAT. SPEC.	MECH. DES. APP.	
		FINISH & SPEC. NO.	CHECKED	
			FINAL APPROVAL	
		CAD. PLATE S-105	SP-106	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
-------	------	--------------	------	---------	--------	---------	-----------

TOLERANCES

SCALE FULL SIZE

ALL OTHERS

DEC. DIM. $\pm .05$
FRAC. DIM. $\pm 1/64$
ANGULAR DIM. \pm

DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

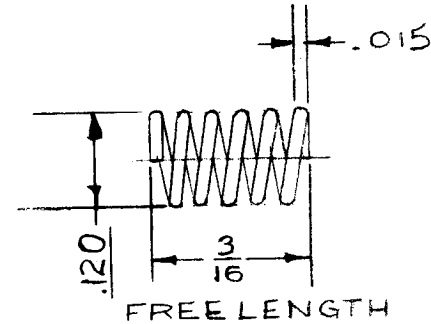
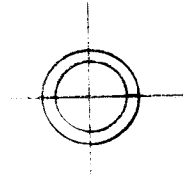
RELEASED

SP-107

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
CK-2	168	A-268	1-24-52



REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		.015 WIRE	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
		STOCK SIZE		
		STEEL	SPRING	
		MATERIAL		
		MUSIC WIRE		
		TYPE & TEMPER	6 11-24-52	
		HEAT TREAT. SPEC.	DRAWN	ELEC. DES. APP. MECH. DES. APP.
		FINISH & SPEC. NO.	CHECKED	FINAL APPROVAL

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES

SCALE 4 TO 1

DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

ALL THERE DEC. DIM. ±
FRAC. DIM. ±
ANGULAR DIM. ±

SP-107

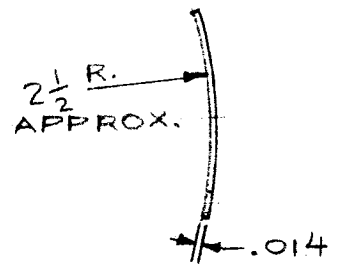
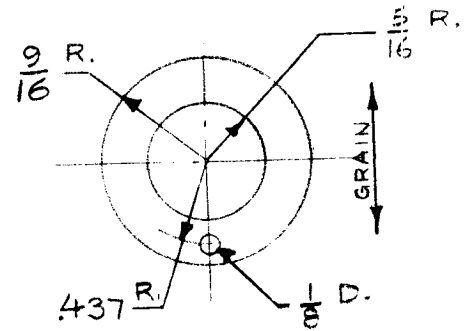
IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

RELEASED

SP-108

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON			
MODEL	PROJECT NO.	ASS'Y. NO.	DATE
CK-2	168	A-272	1-26-57



REQ.	ITEM	PART NO.	DESCRIPTION		SYMBOL
		.014 THK.	THE TECHNICAL MATERIEL CORP.		
		STOCK SIZE	MAMARONECK. NEW YORK		
		PHOSPHOR BRONZE	RETAINING SPRING		
		MATERIAL			
		GRADE "A" SPRING			
		TYPE & TEMPER	11-26-57		
			DRAWN	ELEC. DES. APP.	MECH. DES. APP.
		HEAT TREAT. SPEC.	12-12-52		
		FINISH & SPEC. NO.	CHECKED	FINAL APPROVAL	
		S-105 (CADMIUM PLATE)		SP-108	

ISSUE ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES		SCALE FULL SIZE
ALL OTHERS	DEC. DIM. ± .005 FRAC. DIM. ± 1/64 ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

SP-109 G

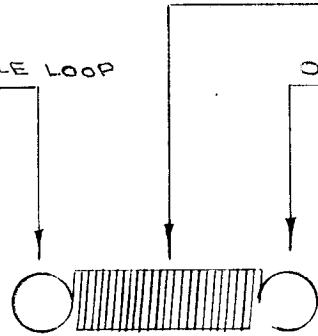
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

QTY PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	VOX-2	101	A-584	4-17-53
1	PMO-2	285	A-584	8-18-54
1	RTF			2-3-56
1	RTF-2			11-10-58

9 FULL TURNS EXCLUSIVE OF LOOP

CLOSED DOUBLE LOOP

OPEN LOOP



NOTE:
SPRING TO BE MUSIC WIRE (.020)

SPRING DIA. - .187 OD.

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL						
		.020	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK							
		STOCK SIZE								
C	1	MATERIAL WAS SPRING WIRE	MUSIC WIRE	SPRING, CAM						
B	2	DIMENSIONS REMOVED								
	1	NOTE CHANGED								
A	1	2 1/32 WAS 1 1/32 - .300 WAS .200	A.S. - 5							
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.	DRAWN	ELEC. DES. APP.	MECH. DES. APP.
TOLERANCES		SCALE								
ALL OTHERS	DEC. DIM. ± .005 FRAC. DIM. ± 1/64 ANGULAR DIM. ±		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.							
				HEAT TREAT. SPEC.		NATURAL		CHECKED		
				FINISH & SPEC. NO.				FINAL APPROVAL		
								SP-109 G		

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

SP-112 B

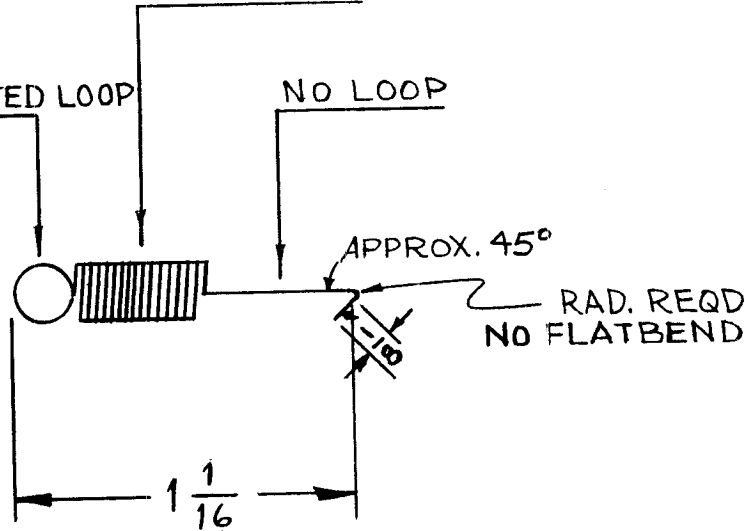
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

QTY PER UNIT.	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	VOX-2	101	A-584	4-17-53
1	PMO-2	285	A-584	8-18-54
1	RTF			2-3-56
1	RTF-2			11-10-58

BODY TO BE 7 FULL TURNS WITH 1/32 SPACING

DOUBLE TWISTED LOOP

NO LOOP



NOTE:
1-SPRING TO BE MUSIC WIRE (.020)

2-SPRING DIA. - .187 O.D.

SPRING SPECS.

MAT'L. .020 MUSIC WIRE
OUTSIDE DIA. 3/16

REF:

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		.020	THE TECHNICAL MATERIEL CORP.	
		STOCK SIZE	MAMARONECK, NEW YORK	
		MUSIC WIRE	SPRING, CAM	
		MATERIAL		
		WEIGHT PER PC.		
		A.S.-5	C.D.D. 4-17-53	
		TYPE & TEMPER		
		HEAT TREAT. SPEC.		
		NATURAL		
		FINISH & SPEC. NO.		
			CHECKED	FINAL APPROVAL
				SP-112 B

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
B	2	added 1/32 spacing	10/21/51	1462	DM	HJ	
	1	MAT'L WAS SPRING WIRE					
A	2	DIMENSIONS CHANGED	6/17/53	1	C.D.D.	JAN	PP
	1	NOTE CHANGED					

TOLERANCES		SCALE
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

OTHERS	ALL
DEC. DIM. $\pm .005$	FRAC. DIM. $\pm \frac{1}{64}$
ANGULAR DIM. \pm	

DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

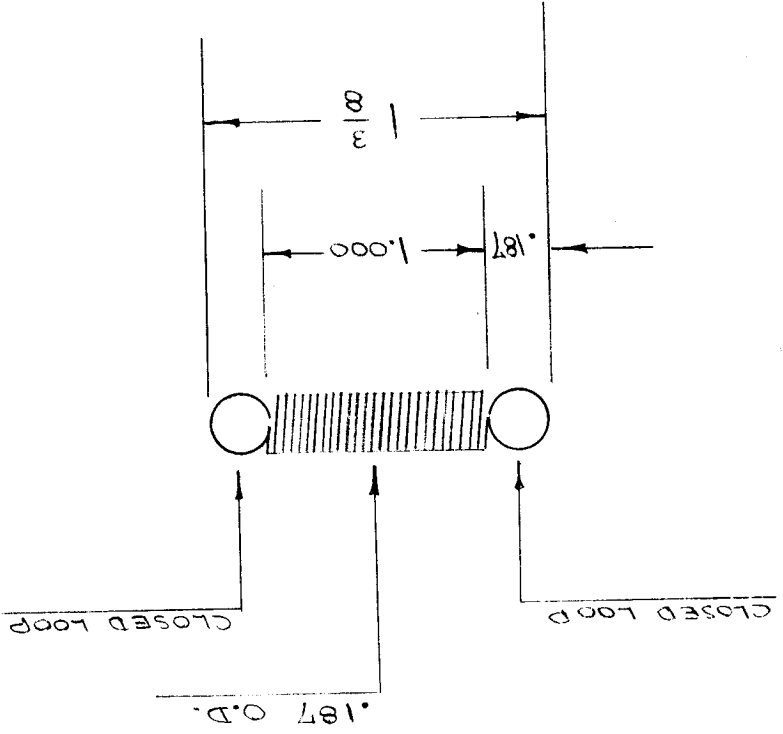
TOLERANCES

SCALE

ISSUE ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS CHECKER	ENG. APP.
2	SPECS. REMOVED	6/17/53	1	C.D.D. J.A.S.C.	C.D.D.
1	CAT. NO. ADDED				

REQ. ITEM	PART NO.	STOCK SIZE	MATERIAL	WEIGHT PER PC.
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
SPRING, CAM FOLLOWER				
DESCRIPTION				
SYMBOL				
DRAWN				
ELEC. DES. APP.				
MECH. DES. APP.				
CHECKED				
FINISH & SPEC. NO.				
HEAT TREAT. SPEC.				
FINISH & SPEC. NO.				
SP-113				
A				

REF: GENERAL CEMENT CO. CAT. NO. 6453-C



IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.
 MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

DATE	ASSY. NO.	PROJECT NO.	MODEL	QTY
4-17-53	A-583	101	VOX	
8-18-54	A-583	285	PMO	
2-2-52			RTF	
5-13-58			GPR-408X	
11-10-58			RTF-2	

USED ON

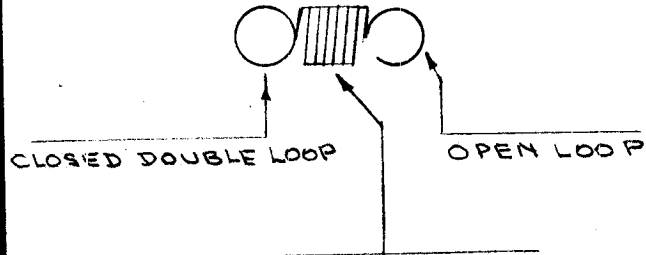
SP-113
A

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

SP-114 A

QTY. PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	VOX-2	101	A-584	4-17-53
1	PMO-1	285	A-584	8-18-54
1	RTF			2-2-56
1	RTF-2			11-10-58



7 FULL TURNS EXCLUSIVE OF LOOPS

NOTE
 1- SPRING TO BE MUSIC WIRE .(.020)
 2- SPRING DIA. - .187 O.D.

REF:

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		.020	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE		
		MUSIC WIRE	SPRING, CAM	
		MATERIAL		
		A.S.-5		
		TYPE & TEMPER		
		HEAT TREAT. SPEC.		
		NATURAL		
		FINISH & SPEC. NO.		

A	1	MATERIAL WAS SPRING WIRE	19/21/54	1468	DM	JEK	
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE					
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

C.D.D. 6-17-53
 DRAWN: FAIR
 ELEC. DES. APP.: ATT
 MECH. DES. APP.: WE
 CHECKED: ATT
 FINAL APPROVAL: WE
 SP-114 A

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

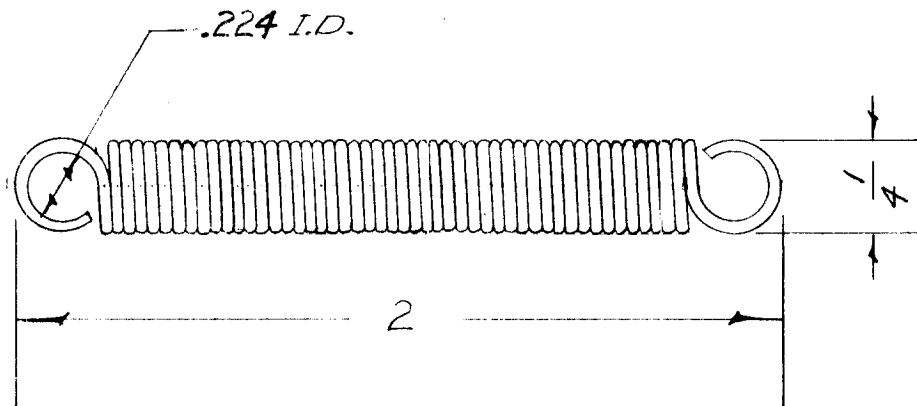
SP-115

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

QTY. PER UNIT.

USED ON

QTY. PER UNIT.	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
	VOX	101	A-586	9-17-53
1	PMO	285	A-586	8-18-54



DIMENSIONS FOR REF. ONLY

REF: GENERAL CEMENT CO. NO. 6455-G

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		—ff—	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
		STOCK SIZE	MOTOR SUPPORT	
		—ff—	SPRING	
		MATERIAL	16 9-17-53	
		WEIGHT PER PC.	ATT	WDE
		TYPE & TEMPER	DRAWN	ELEC. DES. APP.
		—ff—	CHECKED	MECH. DES. APP.
		HEAT TREAT. SPEC.	FINAL APPROVAL	
		—ff—	SP-115	
		FINISH & SPEC. NO.		

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE —ff—				
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

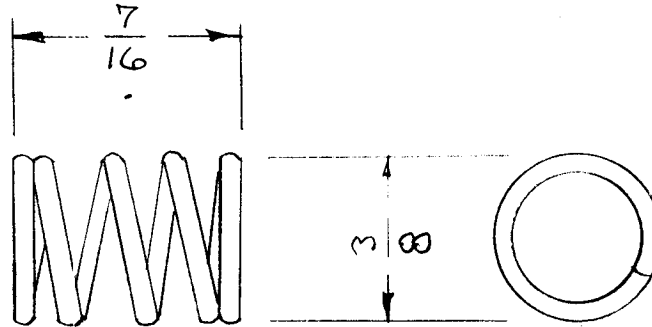
SP-116

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON

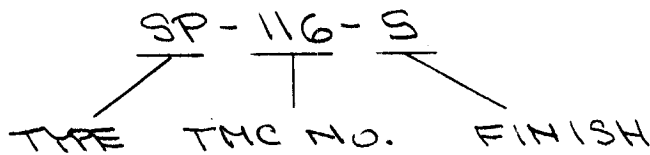
FINISH	REQ PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
S	4	TAC-1	132	A-646	12-28-53
C	2	PMO-1/2	313		10-27-54
R	2	GPR-90			9-27-56

FINISH	CODE
.0003 THICK	
SILVER PLATE	S
CADMIUM PLATE	C
NICKEL PLATE	N
NO FINISH	R



TYPE DESIGNATION TO BE IN FOLLOWING FORM

DIM. FOR REF. ONLY



NOTE:

WIRE SIZE .0508
ALL DIMENSIONS BEFORE PLATING

REF.: INSTRUMENT SPECIALTIES CO. # 647-15

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL		
		.0508	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK			
		STOCK SIZE				
		COPPER	SPRING,			
		MATERIAL	COMPRESSION			
		WEIGHT PER PC.				
B	1	WIRE SIZE ADDED	C.D.D. 8-13-53			
A	1	FINISH ADDED				
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS CHECKER	ENG. APP.
TOLERANCES		SCALE				
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				
HEAT TREAT. SPEC.		CHECKED		FINAL APPROVAL		
SEE CHART				SP-116		
FINISH & SPEC. NO.				B		

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

SP-117

A

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT

USED ON

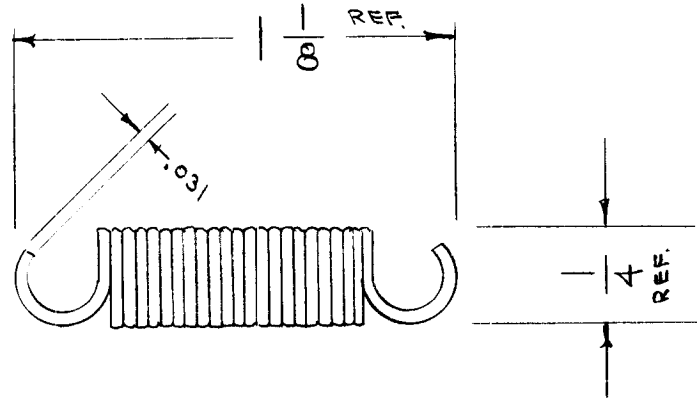
2

MODEL
TAC-1

PROJECT NO.
132

ASS'Y. NO.

DATE



REF: CENTRALAB P-4759

REQ.	ITEM	PART NO.	DESCRIPTION	SYMB L
			THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
		STOCK SIZE	SPRING	
		MATERIAL		
		WEIGHT PER PC.		
		TYPE & TEMPER	C.D.D.	W.D.
		HEAT TREAT. SPEC.		
		FINISH & SPEC. NO.		

A	1	MFR. PART # WAS P5185	1-31-61	4034	DMA F	JCT	STM
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE				
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				

SP-117

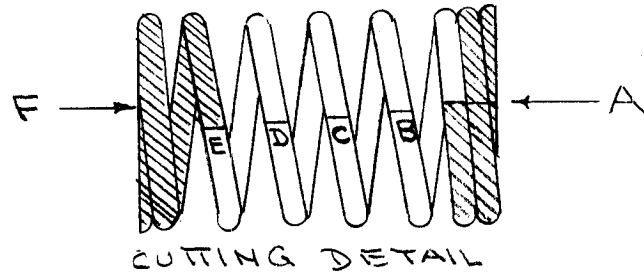
A

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

SP-119 B

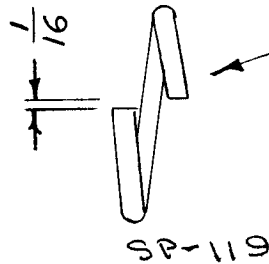
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ PER UNIT	USED ON			
	MODEL	PROJECT NO.	ASS'Y. NO.	DATE
2	PMO-1	285	A-805	12/16/54
2	PMO-2	285	A-805	12/16/54
2	VOX-1			3/17/55
2	VOX-2			3/17/55
2	RTF			2-3-56



USE SP-103

- STEP 1 - CUT OFF SHADED TURNS AT POINT "A" AND DISCARD.
- 2 - CUT AT POINTS "B" "C" "D" & "E" AS PER DETAIL.
- 3 DISCARD SHADED AREA "F".



MATERIAL - BERYLLIUM COPPER
2% ALLOY. ASTM 197 BERYLLIUM
CORP. GRADE 25

WIRE SIZE - .0359

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		#	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
		STOCK SIZE		
		SEE NOTE #	SPRING, COMPRESSION	
		MATERIAL WEIGHT PER PC.		
		#	CDD 12-16-54	
		TYPE & TEMPER	DRAWN	ELEC. DES. APP. MECH. DES. APP.
		#	Checked	Final Approval
		HEAT TREAT. SPEC.		
		#		
		FINISH & SPEC. NO.		

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
B	1	MATERIAL & WIRE SIZE ADDED	12/15/54	2	16	JAD	JAD
A	1	COMPLETE REVISION	3/17/55	1	CDD	JAD	JAD

TOLERANCES		SCALE
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± 1/16 ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

SP-119 B

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

SP-121

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT

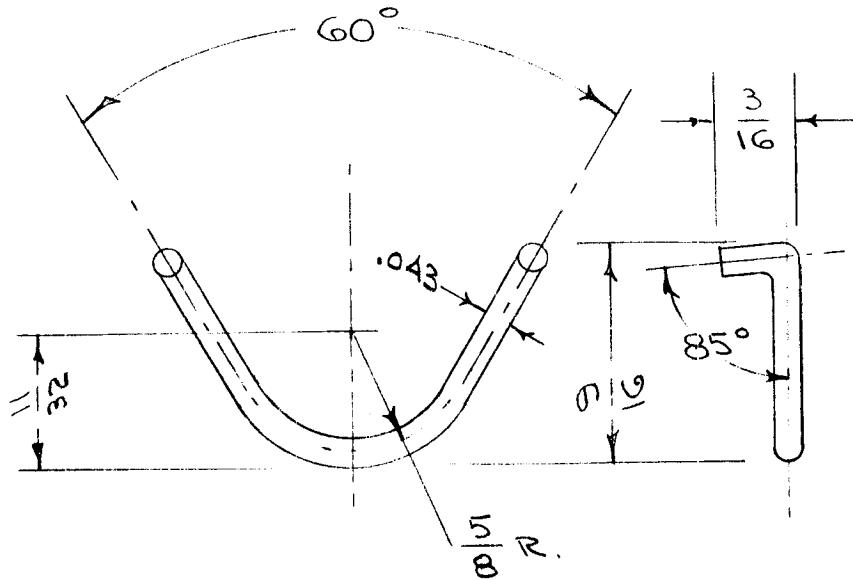
USED ON

MODEL

PROJECT NO.

ASS'Y. NO.

DATE



REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		.043 D.	THE TECHNICAL MATERIEL CORP.	
		STOCK SIZE	MAMARONECK. NEW YORK	
		SPRING STEEL	SPRING, SPLIT GEAR	
		MATERIAL		
		WEIGHT PER PC.		
		TYPE & TEMPER	CDD. A-14-55	WJ
			DRAWN	ELEC. DES. APP.
			CHECKED	MECH. DES. APP.
		HEAT TREAT. SPEC.		
		S-105 CAD. PLATE		
		FINISH & SPEC. NO.		
				SP-121

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.

TOLERANCES

SCALE

ALL OTHERS

DEC. DIM. \pm
FRAC. DIM. $\pm 1/64$
ANGULAR DIM. $\pm 5^\circ$

DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

SP-122

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT

USED ON

MODEL

PROJECT NO.

ASS'Y. NO.

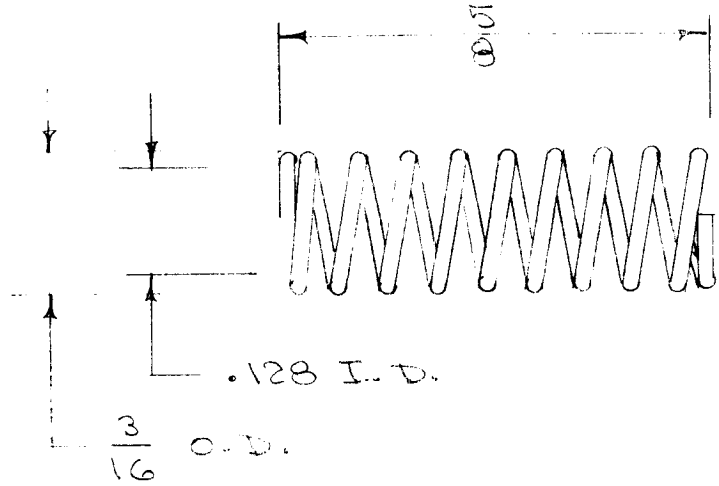
DATE

4

GPR

SR-122

8-12-55



10 TURNS
40/0Z. FOR 1/4" DIA SECTION

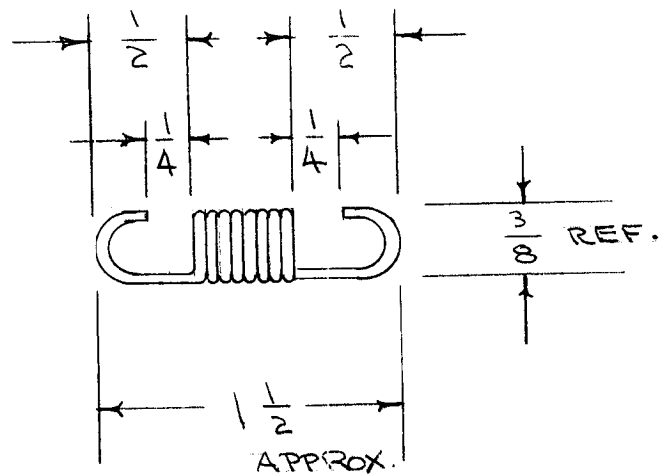
REF. HEBB SPRING CO.

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		.025 DIA	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE		
		PHOSPHOR BRONZE	SPRING, COMPRESSION	
		MATERIAL		
		SPRING WIRE	GPR	
		TYPE & TEMPER	CDD 8/12/55	WJ
			DRAWN	ELEC. DES. APP.
			MECH. DES. APP.	
		HEAT TREAT. SPEC.	G.T.O	
			CHECKED	FINAL APPROVAL
		FINISH & SPEC. NO.	SP-122	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES		SCALE					
ALL OTHERS	DEC. DIM. ± .005 FRAC. DIM. ± 1/64 ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					

REQ. PER UNIT	USED ON		
	MODEL	ASS'Y. NO.	DATE
16	TER-3500	A-1145	1-23-56
16	TER-3500-300	A-2053	2-8-61

SP-124 A



8 lb/in. - CONSTANT

SUPERSEDES SP-123

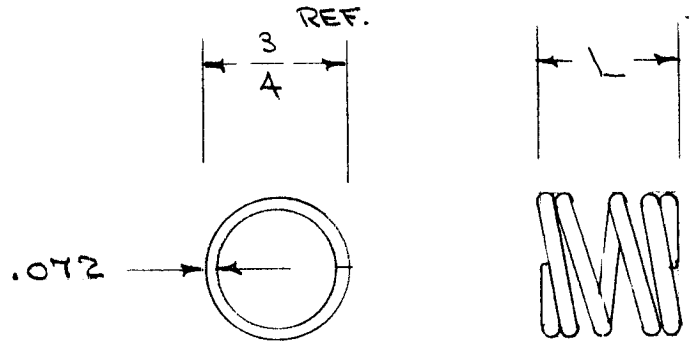
							REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL	
							.043		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	EXTENSION SPRING	
							STOCK SIZE				
							BERYLLIUM COPPER				
							MATERIAL				
A	1	FINISH ADDED	4/23/56	1	JAL	ODD	AMB				
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.				
TOLERANCES			SCALE:								
DEC. DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REM VE ALL BURRS AND SHARP EDGES								
FRAC. DIM. ±											
ANGULAR DIM. ±											
							TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL
							CADMIUM PLATE		AMB	WDC	SP-124
							FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.	A

STANDARD DRAWING

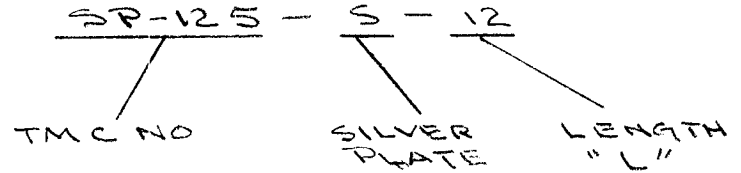
REQ. PER UNIT	USED ON		SP-125
	MODEL	ASS'Y. NO.	
			2-9-56

SYM	PLATING MIN. .0002
C	BRIGHT CADMIUM
N	NICKEL PLATE
S	SILVER PLATE

"L" LENGTH	CODE
1/8	2
3/16	3
1/4	4
5/16	5
3/8	6
7/16	7
1/2	8
5/8	10
3/4	12
7/8	14
1	16



TYPE DESIGNATION

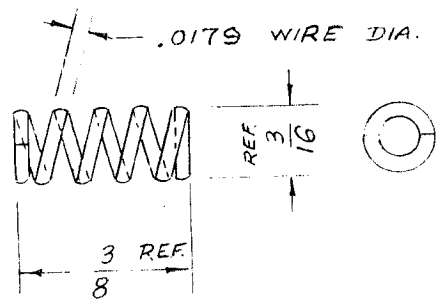


ISSUE	TEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL	
								.072		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
								STOCK SIZE			COMPRESSION SPRING,	
								BERYLLIUM COPPER			R.F. SHIELD	GPT-750
								MATERIAL				
								STIFFNESS 580 OZ/IN		CD. 79/12	<i>FA</i>	<i>W</i>
								TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL
											<i>OK</i> 1/15/56	SP-125
								FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.	

DEC. DIM. ±
FRAC. DIM. ±
ANGULAR DIM. ±

SCALE:
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
REMOVE ALL BURRS AND SHARP EDGES

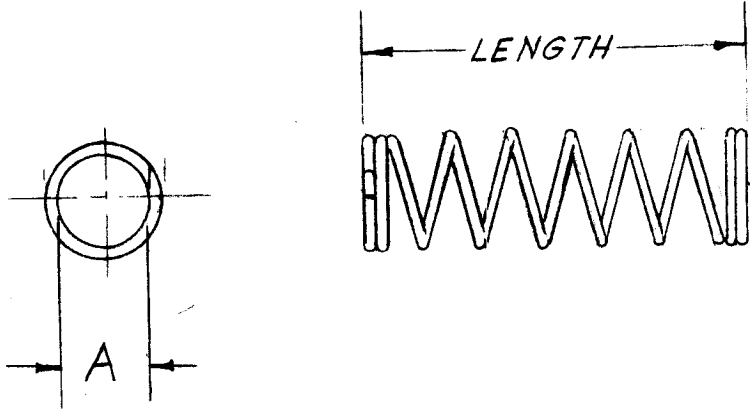
REQ. PER UNIT	USED ON			SP-126
	MODEL	ASS'Y. NO.	DATE	



REF: INSTRUMENT SPECIALTIES CO. INC. #649-119-N

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
										THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
									STOCK SIZE	SPRING METALLIC THERMOSTAT	
									BERYLLIUM COPPER	M/O	
									MATERIAL		
								STIFFNESS 65 OZ/IN		2/23/56	<i>W</i>
								TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
								S-105 CAD. PLATE			<i>W</i>
								FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
											SP-126

REQ. PER UNIT	USED ON			SP-127	F
	MODEL	ASS'Y. NO.	DATE		
16	TER-5000		4-1-57		



1. Coils , Right Handed
2. Closed End, Ground

TMC. NO.	MFG. NO.	DIM. "A" I.D.	LENGTH	COILS
SP 127-1	#205-21	1/2	2"	11
SP 127-2	205-23	5/8	2"	11
SP 127-3	205-26	5/8	2 1/2	13
SP 127-4		1/2	3	15
* SP 127-5		1/2	1"	5 1/2

* NOTE : FOR 127-5 CUT SPI27-1 IN HALF

F	ON CHART SPI27-5 ADDED * NOTE ADDED	3-3-67	17888	G.D.L.	<i>[Signature]</i>							
E	ON TMC No. ADDED SP-127-4	3-10-64	11018	W.B.	<i>[Signature]</i>	<i>[Signature]</i>						
D	# 205-26 WAS 205-23	8-31-61	5523	B.H.	<i>[Signature]</i>	<i>[Signature]</i>						
C	ON CHART - LENGTH & COILS ADDED ON CHART - SP-127-3 ADDED	7-7-61	5191	G.D.L.	<i>[Signature]</i>	<i>[Signature]</i>						
B	.072 DIA WAS .062 DIA MFG. NO 205-23 ADDED	1/5/58	2	J.H.S.	<i>[Signature]</i>	<i>[Signature]</i>						
A	CHART ADDED	9/7/57	1	Sc.	<i>[Signature]</i>	<i>[Signature]</i>						
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.					
TOLERANCES			SCALE: S401-									
DEC. DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES				TYPE & TEMPER					
FRAC. DIM. ±							HEAT TREAT. SPEC.		DRAWN		CHECKED	
ANGULAR DIM. ±							FINISH & SPEC. NO.		ELEC. DES. APP.		MECH. DES. APP.	

REF- INSTRUMENT SPECIALTIES CO.

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		.072 DIA.	SPRING, COMPRESSION	
		STOCK SIZE		
		BERYLIUM COPPER		
		MATERIAL		
			Sc. 4-1-57	
			<i>[Signature]</i>	<i>[Signature]</i>
				SP-127 F

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

STANDARD DRAWING

SP-118 A

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT

USED ON

MODEL

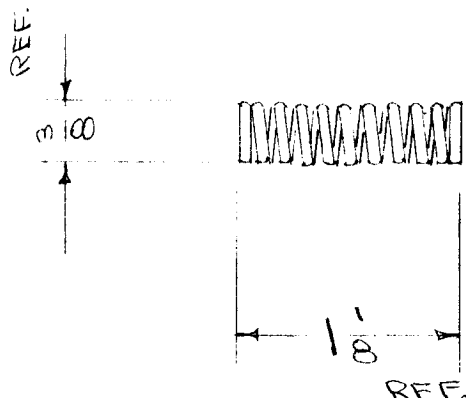
PROJECT NO.

ASS'Y. NO.

DATE

FINISH CHART

SYMBOL	DESCRIPTION	
C	CADMIUM PLATE	.0002
N	NONE	
S	SILVER PLATE	.0002



WIRE DIA .0453
STIFFNESS 340 OZ. IN.

NOMENCLATURE TO BE IN FOLLOWING FORM

SP-118 - N

THC DWG. NO

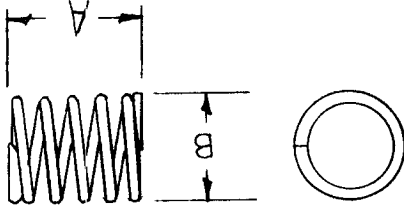
FINISH
(SEE CHART)

INSTRUMENT SPECIALTIES CO. # 120-22

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
		STOCK SIZE		
		BERYLLIUM COPPER	SPRING	
		MATERIAL	WEIGHT PER PC.	
		TYPE & TEMPER	C.D.D. 10-4-54	
			DRAWN	ELEC. DES. APP.
			CHECKED	MECH. DES. APP.
		HEAT TREAT. SPEC.	FINAL APPROVAL	
		FINISH & SPEC. NO.	SP-118	A

A	1	CHART ADDED	5/10/54	1	file		
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE				
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.				

DEC. DIM. ±		FRAC. DIM. ±		ANGULAR DIM. ±		REMOVE ALL BURRS AND SHARP EDGES WILL BE CAUSE FOR REJECTION. MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS		FINISH & SPEC. NO.		ELEC. DES. APP.		MECH. DES. APP.		SP-128 C	
TOLERANCES				SCALE: SA01-26 1-1020				SEE CHART				DRAWN		CHECKED	
ISSUE		ITEM		CHAN ED FROM		DATE		CH. NO.		DRAFTS		CHECKER		ENG. APP.	
A		1		SP128-2 & CHART ADDED		2-2-66		15713		[Signature]		[Signature]		[Signature]	
B				ADDED SP128-3 & MAT. FINISH		2-27-68		18786		[Signature]		[Signature]		[Signature]	
C				SP128-4 & CHART ADDED		9/4/69		19586		[Signature]		[Signature]		[Signature]	
PART NO.		REQ. ITEM		DESCRIPTION		SYMBOL		MATERIAL		STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		DRIVE	
SEE CHART		SEE CHART		SEE CHART		SEE CHART		SEE CHART		SEE CHART		SEE CHART		SEE CHART	
TYPE & TEMPER		HEAT TREAT. SPEC.		DRAWN		CHECKED		FINAL APPROVAL		RUB		[Signature]		[Signature]	



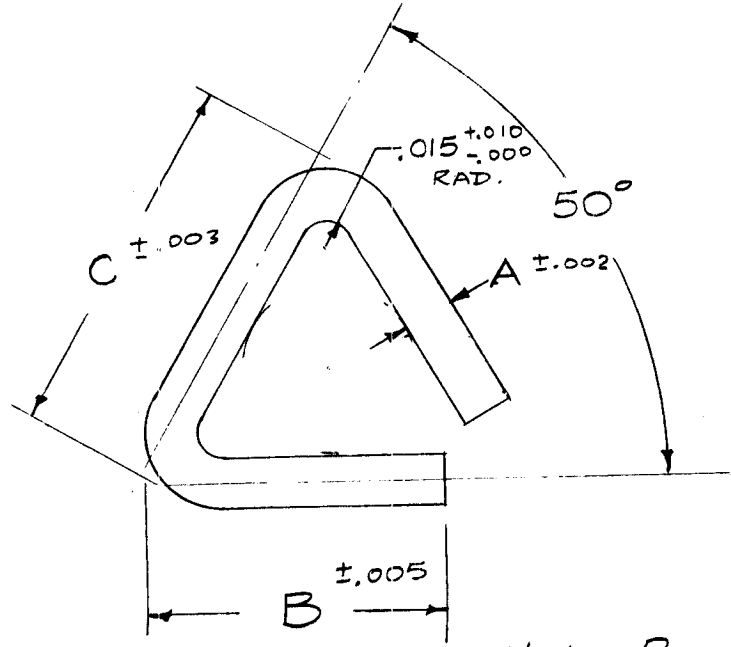
All Turns - Clockwise
Closed ends - Ground Flat

TMC P/N	A	B	TURNS	MATERIAL	FINISH	USED ON			
						REQ. PER UNIT	MODEL	ASSY. NO.	DATE
SP128	11/6	9/16	6	.052 BERYLLIUM COPPER		SBE-1	A-1517	7-19-57	SP-128 C
SP128-2	1/2	9/16	4	"		SBE-2	A-1517	5-5-58	
SP128-3	11/16	9/16	6	.040 BERYLLIUM COPPER		GPT-10K	AR-109		
SP128-4	1 3/4	4/20		.038 MUSIC WIRE		S105 CAD. PL.	AX 209	11-30-59	

TMC NO.	MFG. NO.	DIM "A"	DIM "B"	DIM "C"
SP-129-1	X2058-2	.028	.165	.230
SP-129-2	X2058-3	.018	.112	.172

REQ. PER UNIT	USED ON		
	MODEL	ASS'Y. NO.	DATE
SBE-1			9-23-57

SP-129



Note: Remove all sharp edges.

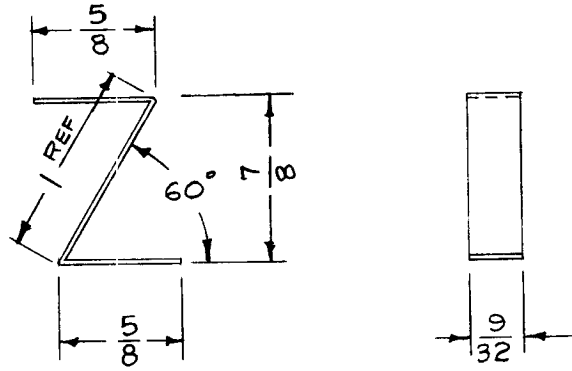
Note-
 SP-129-1 Spring is used with CTC Form # L56, L58, L5ML
 SP-129-2 Spring is used with CTC Form # L5T-L

CAMBRIDGE THERMIONIC CORP.

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
"A" DIM.		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	SPRING, LOCKING
STOCK SIZE			
BERYLLIUM COPPER			
MATERIAL			
HARD ALLOY		168/1167	
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
5105-CADMIUM PLATE	.0003		
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
			SP-129

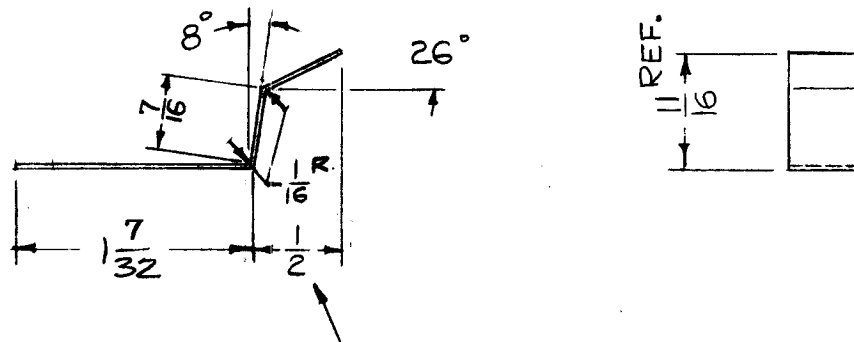
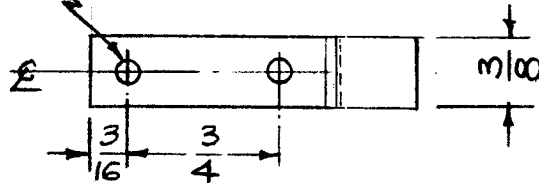
REQ. PER UNIT	USED ON		
	MODEL	ASS'Y. NO.	DATE
1	SBE-1	PO-147	12-12-57
1	SBE-2		5-5-58

SP-130



ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL		
							.013 THK. STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK			
							Beryllium Copper		SPRING, CRYSTAL, "Z" (SBE-1)			
							MATERIAL					
							N	N	16 12-12-57	<i>JAW</i> <i>AKB</i>		
TOLERANCES		SCALE: FULL					TYPE & TEMPER		CHECKED	FINAL APPROVAL		
DEC. DIM. ±		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES					HEAT TREAT. SPEC.			SP-130		
FRAC. DIM. ± 1/64							Natural					
ANGULAR DIM. ±							FINISH & SPEC. NO.		ELEC. DES. APP.			MECH. DES. APP.

$\frac{1}{8}(.125)D$. 2 Req.



This $\frac{1}{2}$ " dimension must be capable of depressing to $\frac{9}{32}$ ", and return to $\frac{1}{2}$ ".

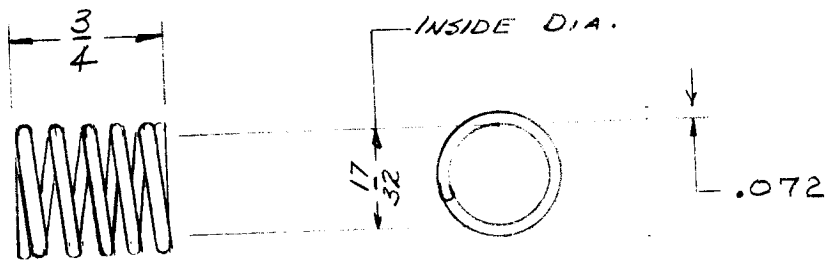
REQ. PER UNIT	USED ON		
	MODEL	ASSY. NO.	DATE
2	TER-5000-70	A-1631	1-30-59
9	GPT-200K	AX-392	10-23-63

SP-132

A

								REQ.	ITEM	PART NO.	DESCRIPTION			SYMB L
										.025 THK.	THE TECHNICAL MATERIEL CORP.			
										STOCK SIZE	MAMARONECK, NEW YORK			
										Beryllium Copper	SPRING, PRESSURE,			
										MATERIAL	RESISTOR CAP.			
A	+	ON PICTORIAL 3/4 LIP FR. THREE PL. DELETED, 11/16 WAS 1/8	10-23-63	10199	G.D.L.	<i>mt</i>	<i>mt</i>		Heat Treated	11/30/59		<i>AMB</i>		
ISSUE FROM		CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.							
TOLERANCES			SCALE: FULL DO NOT SCALE											
DES. DIM. 1/64 FRAG. DIM. 1/64 ANGULAR DIM. ± 1°			MAXIMUM ALL WABLET LERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTI N: REM VE ALL BURRS AND SHARP EDGES					TYPE & TEMPER		HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL	
								FINISH & SPEC. NO.		ELEC. DES. APP		MECH. DES. APP		
												8 G.	SP-132	A

REQ. PER UNIT	USED ON			5P-131
	MODEL	ASS'Y. NO.	DATE	
/	RTF-2	1/C	10-28-58	

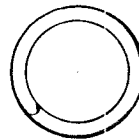


NOTE: 6 TURNS WITH 1/4-TURNS CLOSED ON EACH END. NOT ADJUSTED TO A SPECIFIED PRESSURE

REF.: INSTRUMENT SPECIALTIES Co., Inc. #228-11

							REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL						
									THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK							
							STOCK SIZE		SPRING, COMPRESSION							
							BERYLLIUM COPPER									
							MATERIAL									
ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.										
TOLERANCES		SCALE: CTO							10-28-58							
DEC. DIM. ±		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES					TYPE & TEMPER		HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL				
PRAC. DIM. ±															5P-131	
ANGULAR DIM. ±											FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.		

REQ. PER UNIT	USED ON			SP-133	B
	MODEL	ASS'Y. NO.	DATE		
4	TER-5000-70		2-2-59		



INSIDE DIAM. - $17/32 \pm .010$
 WIRE DIAM. - .064
 NO. of TURNS - 7 (Closed & Flattened
 $1/4$ Turns each end)
 PRESSURE -
 FREE LENGTH - $1" \pm .040$

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL		
											THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK SPRING, COMPRESSION	B		
B	1	DWG WAS OBSOLETE	10-25-62	7520	af	JHO	[Signature]							
A	1	DWG MADE OBSOLETE	2-23-62	N	af	[Signature]	[Signature]							
TOLERANCES			SCALE: S-401-26								4/2/59	[Signature]	[Signature]	
DEC. DIM. \pm FRAC. DIM. \pm ANGULAR DIM. \pm			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES											
												86.	SP-133	B

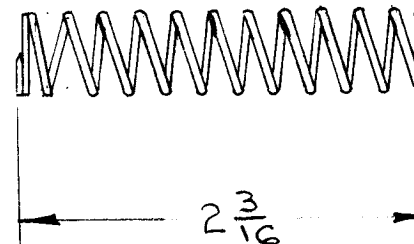
REQ. PER. UNIT	USED ON			SP-134	A
	MODEL	ASS'Y. NO.	DATE		
	2	GPT-10K	AR-109		

SPECIFICATIONS

Wire Diameter: .0390
 Outside Diameter: .453
 Inside Diameter: .375
 Free Length: 2-3/16
 Material: Beryllium Copper

WORKING SPECIFICATIONS

To work over 1/4 diameter shaft
 Direction of coil: Right hand
 Type of ends: Squared
 Stiffness:
 Maximum Solid Height: 1/2"
 Working Length Compressed: 1"



								REQ.	ITEM	PART NO.	DESCRIPTION		SYMBOL			
										THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK						
										STOCK SIZE						
										MATERIAL						
										TYPE & TEMPER HEAT TREAT. SPEC.						
										FINISH & SPEC. NO.						
ISSUE				ITEM				CHANGED FROM		DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.		
A				3 MATL WAS SPRING STL. WIRE				12-	28-	7926						
				2 REF DELETED				67								
				1 SCALE ADDED												
TOLERANCES				SCALE: S-401-26 (#205-25 MOD.)						DRAWN		CHECKED		FINAL APPROVAL		
DEC. DIM. ±				MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES								SP-134		A		
FRAC. DIM. ±																
ANGULAR DIM. ±																

REQ. PER. UNIT	USED ON			SP - 135
	MODEL	ASS'Y. N .	DATE	
2	GPT IO K	ML-TL-103		

SPECIFICATIONS.

WIRE DIAMETER: .0179
 OUTSIDE DIAMETER: 9/32
 INSIDE DIAMETER: 17/64
 FREE LENGTH: 1"
 MATERIAL: SPRING STEEL WIRE

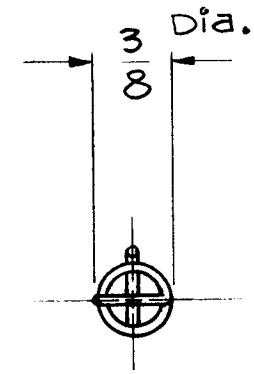
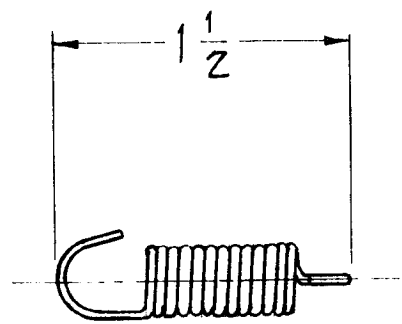
WORKING SPECIFICATIONS.

TO WORK OVER 1/4" DIAMETER SHAFT.
 DIRECTION OF COIL: RIGHT HAND
 TYPE OF ENDS: SQUARED
 STIFFNESS: 8 oz/in
 MAX. SOLID HEIGHT: 1/8"
 WORKING LENGTH COMPRESSED: 1/2"

Ref Acc 6/10/64

							REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL	
									THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK SPRING, COMPRESSION		
								STOCK SIZE			
								MATERIAL			
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.				
TOLERANCES			SCALE:						<i>hde</i>	<i>hde</i>	<i>gsk</i>
DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES				TYPE & TEMPER	HEATTREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL
							FINISH & SPEC. NO.	ELEC. DES. APP	MECH. DES. APP	SP 135	

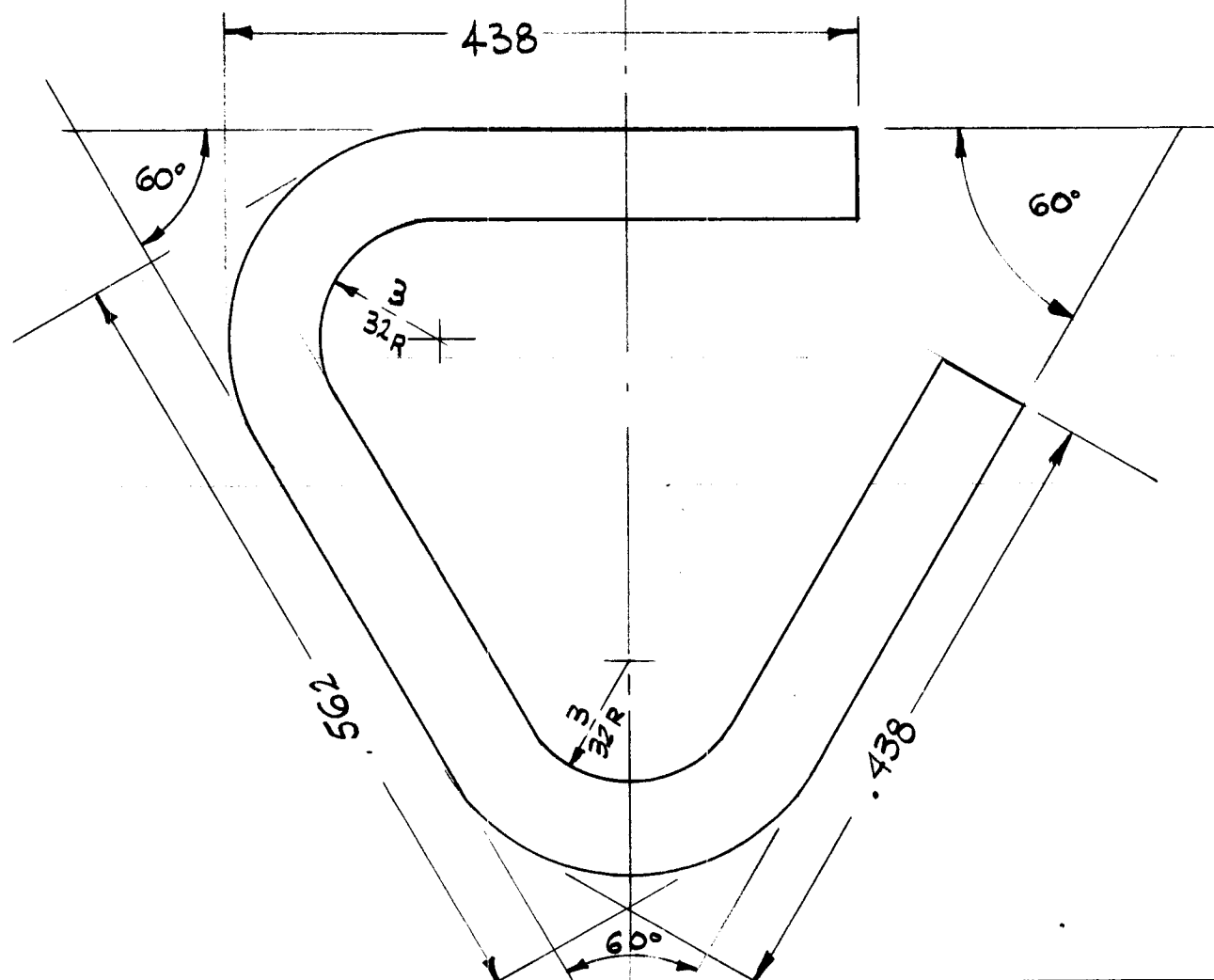
REQ. PER. UNIT	USED ON			SP-136
	MODEL	ASS'Y. NO.	DATE	
1	GPT 10K	A-1689	5-8-59	



								REQ.	ITEM	PART NO.	DESCRIPTION		SYMBOL
											THE TECHNICAL MATERIEL CORP.		
								STOCK SIZE			MAMARONECK, NEW YORK		
								MATERIAL			SPRING, DETENT		
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.			J.C. BIELE	<i>JCB</i>	<i>ARB</i>	
TOLERANCES			SCALE: 3401-41 (86)							DRAWN	CHECKED	FINAL APPROVAL	
DEC. DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES					TYPE & TEMPER		HEATTREAT. SPEC.		SP-136	
FRAC. DIM. ±								FINISH & SPEC. NO.		ELEC. DES. APP		MECH. DES. APP	
ANGULAR DIM. ±													

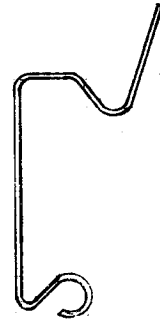
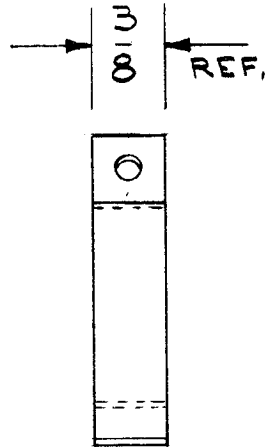
REQ. PER. UNIT	USED ON		
	MODEL	ASS'Y. NO.	DATE
1	AO-100	A.1742	10-19-59

SP-138



							REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL		
								.050	THE TECHNICAL MATERIEL CORP.			
								STOCK SIZE	MAMARONECK, NEW YORK			
								BERYLLIUM COPPER	SPRING, CLIP			
								MATERIAL				
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	SPRING TEMPER	C35-42	10-19-59	FILE	APPROVAL
TOLERANCES			SCALE: <i>X</i>				TYPE & TEMPER		HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL
DEC. DIM. ± FRAC DIM. ± ANGULAR DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES				NATURAL					SP-138
							FINISH & SPEC. NO.		ELEC. DES. APP	MECH. DES. APP		

REQ. PER. UNIT	USED ON			SP-139
	MODEL	ASS'Y. NO.	DATE	
7	GPT40K		12-10-59	



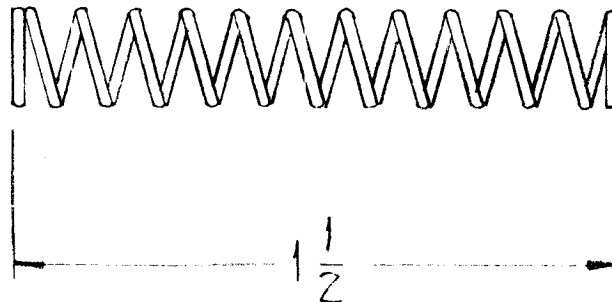
REF: FOR USE W/ MACHLETT TUBE TYPE # 6697

REQ.	ITEM	PART NO.	DESCRIPTION		SYMBOL					
			THE TECHNICAL MATERIEL CORP.							
			MAMARONECK, NEW YORK							
			CLIP, SPRING							
			MATERIAL							
			TYPE & TEMPER							
			HEAT TREAT. SPEC.							
			FINISH & SPEC. NO.							
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	DRAWN	CHECKED	FINAL APPROVAL
TOLERANCES			SCALE: S-401-84(P-21113)							
DEC. DIM. ±			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES							
FRAC. DIM. ±										
ANGULAR DIM. ±										
			ELEC. DES. APP		MECH. DES. APP		SP-139			

REQ. PER UNIT	USED ON			SP-140	A
	MODEL	ASS'Y. NO.	DATE		
1	GPT-40K	AX-209	11-11-60		

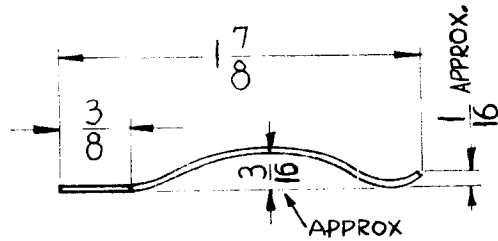
SPECIFICATIONS

WIRE DIA. - .053
 OUTSIDE DIA. - .492 $\pm .005$; INSIDE DIA. - .386 $\pm .005$
 FREE LENGTH - $1\frac{1}{2}$ "
 TOTAL TURNS - 13
 MATERIAL - MUSIC WIRE
 FINISH - CADMIUM PLATE
 NOTE - ENDS SQUARED AND GROUND

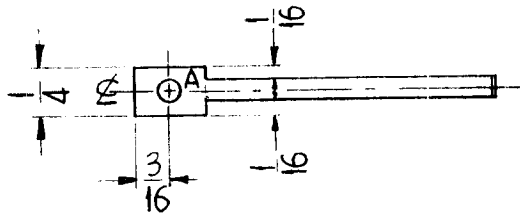


							REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL	
										THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
										SPRING, BANDSWITCH GEAR ASS'Y.		
A	2	I.D. ADDED	3-7-63	8468	<i>[Signature]</i>	<i>[Signature]</i>				<i>[Signature]</i>		
	1	O.D. WAS .492										
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.					
TOLERANCES			SCALE:									
DEC. DIM. \pm FRAC. DIM. \pm ANGULAR DIM. \pm			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES									
							TYPE & TEMPER	HEATTREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL	
							FINISH & SPEC. NO.	ELEC. DES. APP	MECH. DES. APP			
											SP-140	A

REQ. PER. UNIT	USED ON			SP-141
	MODEL	ASS'Y. NO.	DATE	
1	CHG-1		3-14-61	



HOLES REQ.
A ~ 1/8" DIA. 1



NOTE:
HARDENING PROCESS
2 HOURS AT 600° F.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
									.015		THE TECHNICAL MATERIEL CORP.	
									STOCK SIZE		MAMARONECK, NEW YORK	
									BERYLLIUM COPPER		THERMOSTAT RETAINER SPRING	
									MATERIAL			
									SEE NOTE		<i>D. J. Man</i>	
											<i>Jule</i>	
											<i>[Signature]</i>	
									TYPE & TEMPER	HEATTREAT. SPEC.	DRAWN	CHECKED
												FINAL APPROVAL
									FINISH & SPEC. NO.		ELEC. DES. APP	MECH. DES. APP
												SP-141

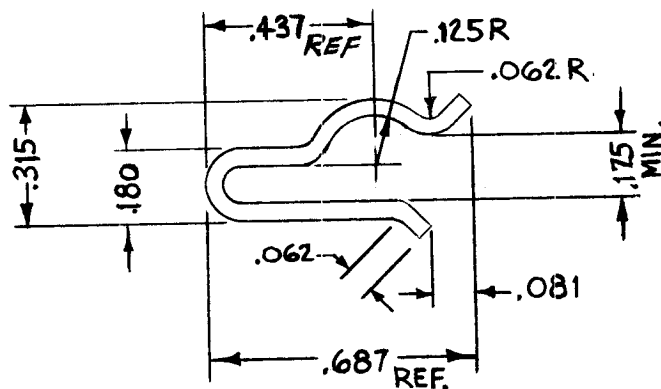
DEC. DIM. ±
FRAC. DIM. ±
ANGULAR DIM. ±

SCALE: Do Not SCALE
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

STANDARD DRAWING

REQ. PER. UNIT	USED ON		
	MODEL	ASS'Y. NO.	DATE
1	CMO	AO-103	5-3-61
1	RTF	AO-100	5-3-61
1	PMO	AO-100	5-3-61
1	VOX	AO-100	5-3-61

SP-142



NOTE: (HEAT TREATMENT).
HEAT FOR 3 HOURS AT $600^{\circ}F$ AFTER FORMING

								REQ.	ITEM	PART NO.	DESCRIPTION			SYMBOL	
										.036	THE TECHNICAL MATERIEL CORP.				
										STOCK SIZE	MAMARONECK, NEW YORK				
										BERYLCO ALLOY	WIRE, SPRING CLIP				
										MATERIAL					
ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	#25 HARD	SEE NOTE	DRAWN		CHECKED	FINAL APPROVAL		
TOLERANCES			SCALE: 1:2 (DO NOT SCALE)											SP-142	
DEC. DIM. \pm			MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES												
FRAC. DIM. $\pm 1/64$															
ANGULAR DIM. \pm															
								FINISH & SPEC. NO.		ELEC. DES. APP		MECH. DES. APP			

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE FOR REPRODUCTION IN WH LE OR IN PART IS STRICTLY FORBIDDEN.

REQ. PER UNIT

2

USED ON

MODEL

GPR-92

ASS'Y. NO.

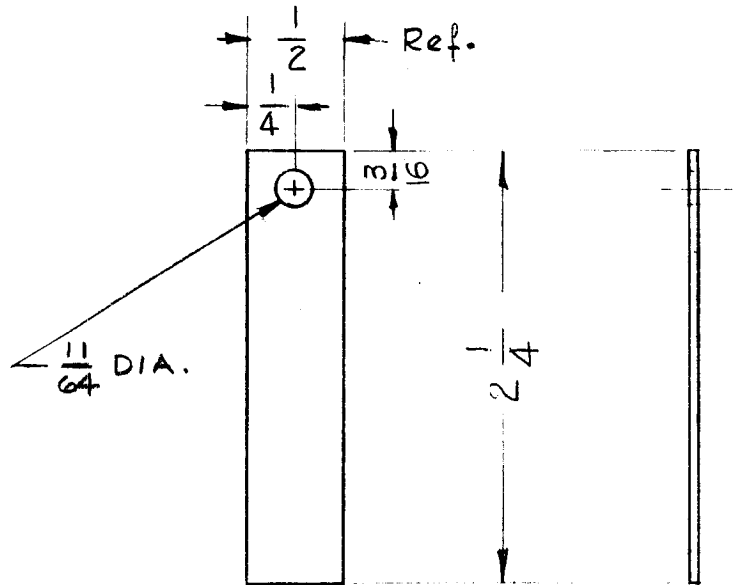
A-3093

DATE

11-7-62

SP-143

A



NOTE: STOCK SIZE $.025^{\pm .001}$ x $\frac{1}{2}$ WIDE

							REQ. ITEM	PART NO.	STRUMER DESCRIPTION	SYMBOL		
							SEE NOTE		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK			
							STOCK SIZE		SPRING, FLAT, CAM			
A	NOTE ADDED STOCK SIZE WAS $.025$ THK X $\frac{1}{2}$ WIDE	4-11-63	8741				SPRING STEEL					
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	MATERIAL					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		SCALE	DO NOT SCALE				S.A.E 1075	G.D.L				
							TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL	
DECIMALS .X $\pm .05$.XX $\pm .01$.XXX $\pm .005$	TOLERANCES	FRACTIONS $\pm 1/64$ ANGLES $\pm 0^{\circ} 30'$	CODE	S401-192				POLISHED, BLUED		D.M.	SP-143	A
							FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.			

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE FOR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

REQ. PER UNIT

1
AO-100
AG-102

USED ON

MODEL

ASS'Y. NO.

DATE

A-3127

2-24-63

SP-144

MATERIAL DATA: STAINLESS STEEL

FINISH: NONE

HELIX OF COILS: OPTIONAL

TOTAL NO. OF COILS: 9-3/4 TURNS

ACTIVE NO. OF COILS: 7-3/4 ACTIVE

WIRE SIZE: .028

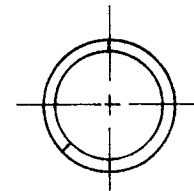
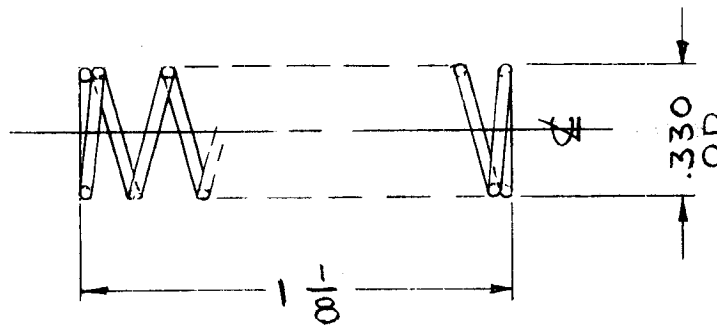
FREE LENGTH: 1-1/8 INCH

COMPRESSED LENGTH: 1/4 INCH

FREE O.D. OF SPRING: .330 O.D.

FREE I.D. OF SPRING: .274

TYPE OF ENDS:



Closed End Ground

LOAD SUPPORT: 2 LBS. 10 OZ.

							REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL	
										KRUY		
							.028 DIA.			THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK		
							STOCK SIZE			SPRING, HELICAL, COMPRESSION		
							STAINLESS STEEL WIRE					
							MATERIAL					
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		SCALE										
		2/1										
							TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL	
									T. RAMIREZ		BP	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		TOLERANCES		FRACTIONS ± 1/64 ANGLES ± 0° 30'		CODE						
						S401-202(M9197)				SP-144		
							FINISH & SPEC. N .			ELEC. DES. APP. MECH. DES. APP.		

STANDARD DRAWING

REQ. PER UNIT

USED ON

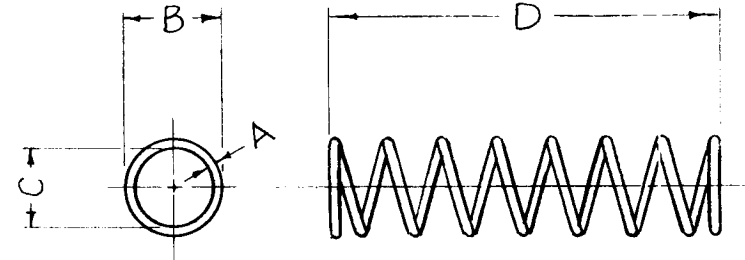
MODEL

ASS'Y. NO.

DATE

SP-145 0

TMC PT. NO.	WIRE DIA.	OUT. DIA.	IN. DIA.	TOTAL TURNS	FREE LENGTH	USED ON
SP-145-1	.071	.659 ^{+0.010} / _{-.000}	.516 ^{+0.010} / _{-.000}	13	1-1/2	AS-123
SP-145-2	.071	.659 ^{+0.010} / _{-.000}	.516 ^{+0.010} / _{-.000}	13	1-3/4	AX-395



NOTE - SPRING ENDS SQUARED AND GROUND.

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ. ITEM	PART NO.	F. BUDETTI	DESCRIPTION	SYMBOL	
							SEE CHART			THE TECHNICAL MATERIEL CORP.		
							STOCK SIZE			MAMARONECK. NEW YORK		
○	ORIGINAL RELEASE FOR PRODUCTION	3-6-64					MUSIC WIRE			SPRING		
							MATERIAL					
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	SCALE	#						John C. Biele	QA/QAS	RC	
							TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	TOLERANCES	FRACTIONS ± 1/64 ANGLES ± 0° 30'	CODE	C				S105 CADMIUM PLATE		QA/QAS	RC	SP-145 0
							FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.		

REQ. PER UNIT	USED ON		
	MODEL	ASS'Y. NO.	DATE
1	HFR-2		4-8-64
1	HFRR-2		9-11-64

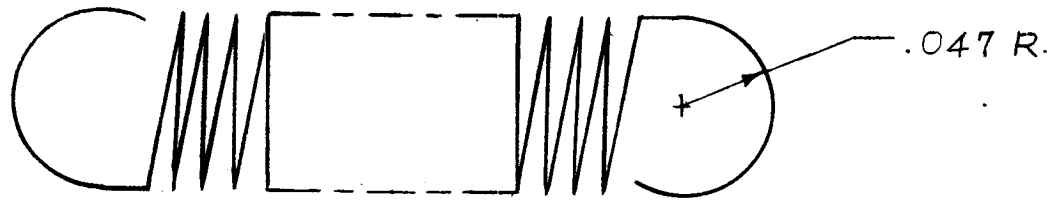
SP 147 Ø



SPECIFICATIONS	
WIRE DIA	.028
OUTSIDE DIA	.250
INSIDE DIA	.194
FREE LENGTH	1.250
NO. OF TURNS	14
ENDS	CLOSED

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ. ITEM	PART NO.	T. KRUY DESCRIPTION	SYMBOL	
Ø	ORIGINAL RELEASE FOR PRODUCTION	9.11.64	Ø	9L					THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK SPRING, HELICAL, COMPR. (SLIDE ASSY)	Ø	
X ₁	TITLE WAS SPRING SLIDE ASSY. SPECS. ADDED	9.10.64		9L							
X	EXP. RELEASE	4-8-64		9L							
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		SCALE 2:1									
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	TOLERANCES	FRACTIONS ± 1/64 ANGLES ± 0° 30'	CODE A				3104 PASSIVATE		<i>T. Krueger</i> DRAWN CHECKED FINAL APPROVAL	SP 147	Ø
							FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.		

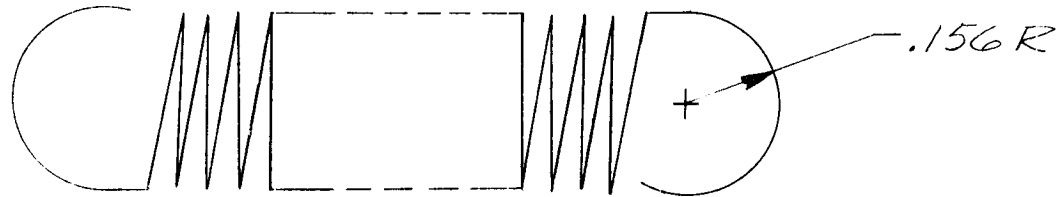
REQ. PER UNIT	USED ON			SPI48	Ø
	MODEL	ASS'Y. NO.	DATE		
	HFR-2A	..	5-6-64		
	HFRR-2	..	9-11-64		



SPECIFICATIONS	
WIRE DIA	.018
OUTSIDE DIA	.094
INSIDE DIA	.058
FREE LENGTH	.234
NO. OF TURNS	13

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ. ITEM	PART NO.	T. KRUY	DESCRIPTION	SYMBOL
Ø	ORIGINAL RELEASE FOR PRODUCTION	9-11-64	Ø	RL			SEE SPECS.			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	SPRING, HEL, EXT.
X1	TITLE WAS SPRING TENSION SPECS ADDED	9-10-64		RL			STOCK SIZE				
X	EXPERIMENTAL RELEASE	5-6-64	X	A.M.	RL		MUSIC WIRE				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES							SCALE	A.MARINO			
TOLERANCES							CODE	NATURAL		FINAL APPROVAL	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005							A	FINISH & SPEC. NO.		ELEC. DES. APP. MECH. DES. APP.	
FRACTIONS ± 1/64 ANGLES ± 0° 30'								DRAWN		SP148 Ø	

REQ. PER UNIT	USED ON			SP150	Ø
	MODEL	ASS'Y. NO.	DATE		
1	HFR-2		5-15-64		

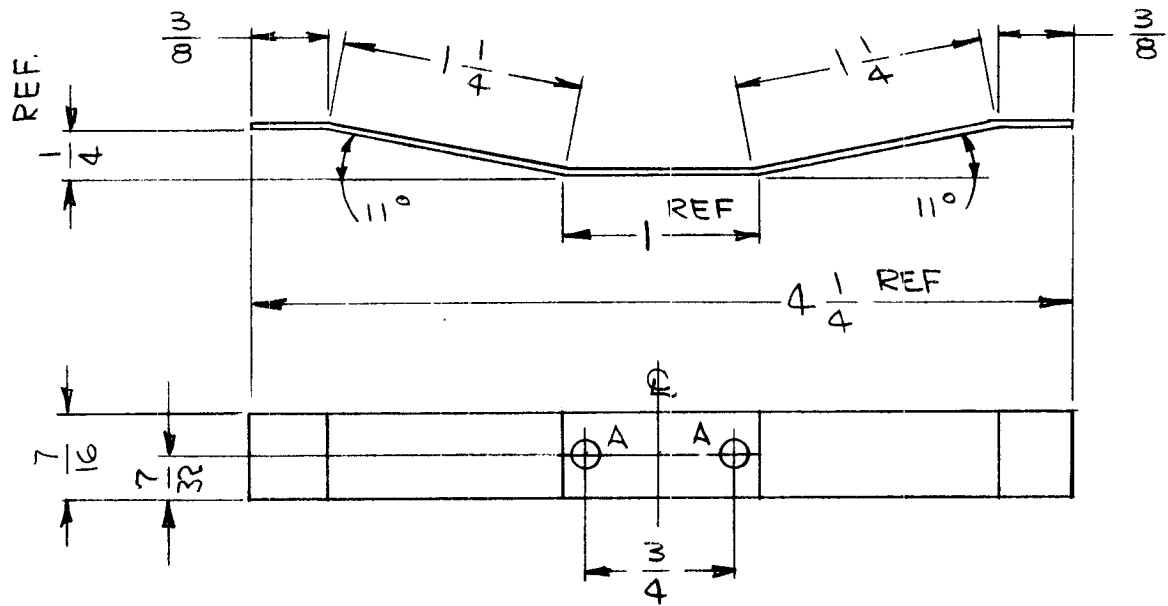


SPECIFICATIONS

WIRE DIAMETER: .042
 OUTSIDE DIAMETER: .312
 INSIDE DIAMETER: .228
 FREE LENGTH: 1.031
 NO. OF TURNS: 24

							REQ. ITEM	PART NO.	T. KRUY	DESCRIPTION	E3112B	SYMBOL
							SEE SPECS,		THE TECHNICAL MATERIEL CORP.			
							STOCK SIZE		MAMARONECK. NEW YORK			
Ø	ORIGINAL RELEASE FOR PRODUCTION	8-25-64	Ø	<i>[Signature]</i>			STAINLESS STEEL		SPRING, TENSION			
X	EXP. RELEASE	5/15/64	Ø	<i>[Signature]</i>			MATERIAL		(TURRET)			
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	# 303	—	<i>[Signature]</i>	@	<i>[Signature]</i>	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES						SCALE			DRAWN		CHECKED	FINAL APPROVAL
DECIMALS	TOLERANCES	FRACTIONS	CODE			TYPE & TEMPER		HEAT TREAT. SPEC.			<i>[Signature]</i>	SP150
.X ± .05 .XX ± .01 .XXX ± .005		± 1/64 ANGLES ± 0° 30'	A			3104 PHOSPHATE					<i>[Signature]</i>	Ø
						FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.			

REQ. PER UNIT	USED ON			SP151	∅
	MODEL	ASS'Y. NO.	DATE		
1	SBS-7	A2887	7-8-64		



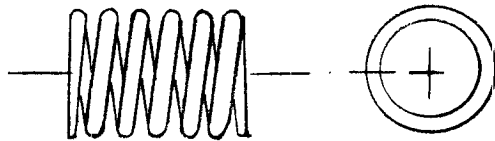
HOLE	DESCRIPTION	REQ
A	1/8 DIA	2

REF: MS3800 (1)

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ. ITEM	PART NO.	Q. POSE	DESCRIPTION	SYMBOL		
∅	ORIGINAL RELEASE	11/1/65								THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	SPRING, RETAINER? AIR FILTER		
X1	S135(FINISH) ADDED	10/29/65		JC			.032 THK						
X	EXPER. RELEASE	7-8-64	1				BERYLIUM COPPER						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		SCALE		1:1			TYPE & TEMPER		HEAT TREAT. SPEC.		DRAWN		
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		FRACTIONS ± 1/64 ANGLES ± 0° 30'		CODE A		S135-NICKEL PLATE		FINISH & SPEC. NO.		ELEC. DES. APP.		MECH. DES. APP.	
										SP151		∅	

REQ. PER UNIT	USED ON			SP152	Ø
	MODEL	ASS'Y. NO.	DATE		
1	VLRB-1		12-14-64		

SPECIFICATIONS



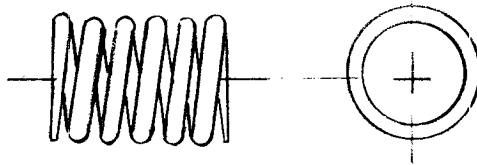
HELIX OF COIL: RIGHT HAND
 TOTAL COILS: 8
 WIRE SIZE: .028
 FREE LENGTH: 11/16
 FREE O.D.: 15/64
 TYPE ENDS: CLOSED END GROUND
 LOAD TENSION: 5 1/2 ± 1 LB. @3/8" COMP. LENGTH
 MATERIAL: STAINLESS STEEL #302 SPRING TEMPERED

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ. ITEM	PART NO.	O. POSE	DESCRIPTION	SYMBOL	
Ø	ORIGINAL RELEASE FOR PRODUCTION	4.9.65	Ø	Ø						THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK SPRING, HELICAL COMPRESSION		
X1	REQ. PER UNIT WAS 2	12-22-64	Ø	G.D.L.								
X	EXPER. RELEASE	12-14-64	Ø	G.D.L.								
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		SCALE		DO NOT SCALE								
DECIMALS		FRACTIONS		CODE								
.X ± .05		± 1/64		C								
.XX ± .01		ANGLES										
.XXX ± .005		± 0° 30'										
TOLERANCES										SP152 Ø		
								G.D.L. 12-14-64		Ø		
								TYPE & TEMPER		HEAT TREAT. SPEC.		
								DRAWN		CHECKED		
								FINISH & SPEC. NO.		ELEC. DES. APP. MECH. DES. APP.		

REQ. PER UNIT	USED ON			SP153	Ø
	MODEL	ASS'Y. NO.	DATE		
2	VLRB-1				

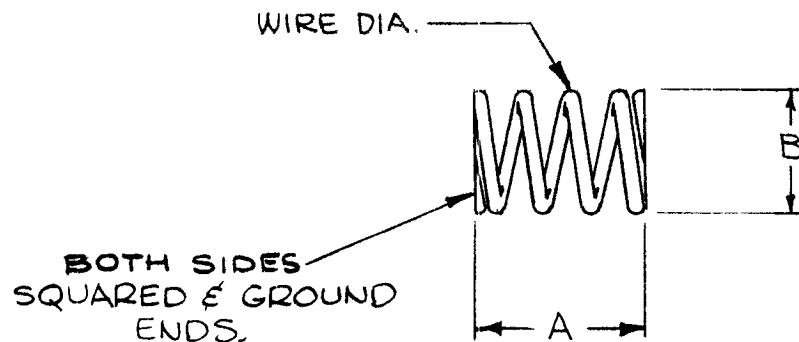
SPECIFICATIONS

HELIX OF COIL: RIGHT HAND
TOTAL COILS: 9
WIRE SIZE: .030
FREE LENGTH: 3/4
FREE O.D.: 7/32
LOAD TENSION: 7 1/2 ± 1 LB. @ 3/8" COMP. LENGTH
MATERIAL: STAINLESS STEEL #302 SPRING TEMPERED



						REQ. ITEM	PART NO.	O. POSE	DESCRIPTION	SYMBOL
Ø ORIGINAL RELEASE FOR PRODUCTION		4.9.65	Ø	GR		—		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK		
X1	REQ. PER UNIT WAS 2	12-22-64	#	G.D.L.		STOCK SIZE				
X	EXPER. RELEASE	12-14-64	→	G.D.L.		+				
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	MATERIAL			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES						SCALE DO NOT SCALE				
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		TOLERANCES		FRACTIONS ± 1/64 ANGLES ± 0° 30'		CODE C				
						TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPROVAL
						FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.	
								G.D.L.	ⓐ	MM Ray 4/9/65
									173	SP153
										Ø

TMC PN	MFG PN	WIRE DIA.	A FREE DIM.	B DIA.	NO. OF TURNS	MATERIAL	FINISH	USED ON					
								REQ. PER UNIT	MODEL	ASS'Y. NO.	DATE		
SP154-1	205-29	.036	15/32	.30	5	BERYLLIUM COPPER	S245 SIL. PL. S423 SIL. KOTE				4.1.65	SP154	∅
SP154-2		.036	5/16	.30	3-3/4	BERYLLIUM COPPER	S245 SIL. PL. S423 SIL. KOTE						
SP154-3	205-31	.036	.320	.30	4	BERYLLIUM COPPER	S245 SIL. PL. S423 SIL. KOTE						
SP154-4	205-33	025	.320	.30	5	BERYLLIUM COPPER	S245 SIL. PL. S423 SIL. KOTE						



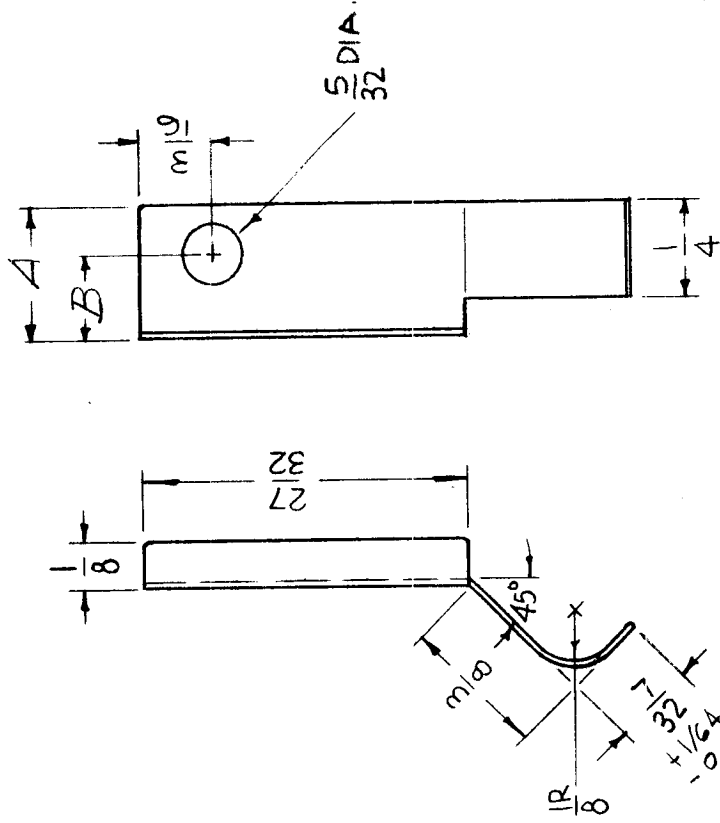
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.	REQ. ITEM	PART NO.	F. BUDETTI	DESCRIPTION	SYMBOL
∅	ORIG. RELEASE PROD	8/11/67	∅	CV.	File						
X4	SP154-4 ADDED (NOTE REV. FOR MACH. SPR. ENDS.)	10-4-65	X4								
X3	SP154-3 ADDED	9-14-65	X3								
X2	SP154-1 A WAS 7/16, MADE STD. DWG	9-2-65	X2								
X1	REF. No WAS 458-12	6-5-65	X1								
X	EXPER. RELEASE	2.12.65	X								
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES							SCALE				
							TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED	FINAL APPR VAL
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005							TOLERANCES				
FRACTIONS ± 1/64 ANGLES ± 0° 30'							CODE				
							C	S401-26		SP154 ∅	
							FINISH & SPEC. NO.	ELEC. DES. APP.	MECH. DES. APP.		

APPLICATION

QTY	MODEL USED ON	ASSY NO.	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
1	TAAA-2.5K		X	EXP. RELEASE	3-30-67				
			Ø	ORIG. RELEASE FOR PROD	4-3-67		CV		
			A	ADD PIN CLART INCL - 2	5/21/70	19860			FB

REVISIONS

QTY	MODEL USED ON	ASSY NO.	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
1	TAAA-2.5K		X	EXP. RELEASE	3-30-67				
			Ø	ORIG. RELEASE FOR PROD	4-3-67		CV		
			A	ADD PIN CLART INCL - 2	5/21/70	19860			FB



NOTE.
ROUND ALL EDGES &
CORNERS.

UNLESS OTHERWISE SPECIFIED:

1. USE MATERIAL THICKNESS FOR MAXIMUM RADIUS ON ALL BENDS
2. ALL ANGULAR BENDS 90 DEGREES
3. REMOVE ALL BURRS AND SHARP EDGES

PART NO.	A	B
SP 155	11/16	13/64
SP 155-2	1/2	17/64

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
AND INCLUDE CHEMICALLY APPLIED
OR PLATED FINISHES

DECIMALS
X ± .05
.XX ± .01
.XXX ± .005

FRACTIONS
1/64
ANGLES
0°-30°

MATERIAL .015 THK
BERYLLIUM COPPER
SPRING TEMPER

FINISH:
S245 SILVER PL.
S423 SILVER KOTE

REQ'D ITEM PART NUMBER DESCRIPTION SYM.

F. BUDETTI

FINAL APPROVAL	DATE
<i>[Signature]</i>	4/3/67
MECH. DES.	DATE
<i>[Signature]</i>	4-3-67
ELECT. DES.	DATE
<i>[Signature]</i>	
CHECKED	DATE
<i>[Signature]</i>	
DRAWN	DATE
<i>[Signature]</i>	3-30-67

LIST OF MATERIAL

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

SPRING CONTACT

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SIZE CODE IDENT. NO. DWG NO.

A 82679 SP155

ISSUE

A

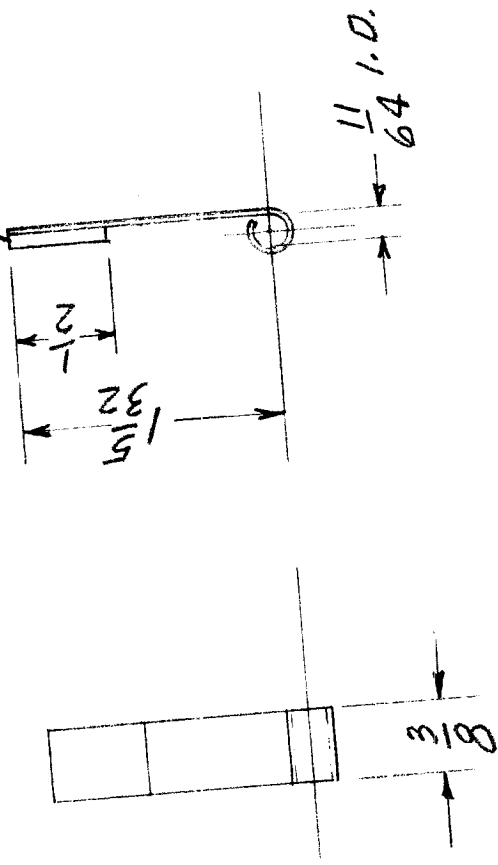
SCALE 1:1 SHEET 401-451 S401- OF

REVISIONS

CI	DRAFT	E.M.N.NO	DATE	DESCRIPTION
	RG		2-26-69	

QTY	MODEL USED ON	ASS'Y NO.	LTR	DESCRIPTION
1	HFR-4		Ø	ORIG. RELEASE FOR PROD.

USE ITEM 2 TO ATTACH ITEM 1 TO SPRING AS SHOWN



* MATERIAL BERYLLIUM COPPER
 .016 BERYLLIUM TEMPER
 SPRING

REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
1	GL101-2	CEMENT, PLIBOND	
2	RY148-3	PAD, RUBBER	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS FRACTIONS
 X ± .05 TOLS. 1/64
 XX ± .01 ANGLES
 .XXX ± 0°-30'

FIN. APPROVAL	DATE
MECH. DES.	DATE
ELECT. DES.	DATE
CHECKED	DATE
DRAWN	DATE

LIST OF MATERIAL SK 3252-X5

THE TECHNICAL MATERIEL CORP.
 MAMARONECK, NEW YORK

SPRING

MATERIAL SEE NOTE

FINISH

SIZE	CODE IDENT. NO.	DWG NO.	ISSUE
A	82679	SP156	Ø

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APPLICATION			REVISIONS						
QTY	MODEL USED ON	ASSY NO.	LTR	DESCRIPTION	DATE	E.M.N.O	DRAFT	CHKD	APPD
2	TOC-24		X	EXP. RELEASE	6/18/75		49		
			Ø	ORIG RELEASE FOR PROD	9/15/75		Ø		

TMC PART NO. SPI57
MFR. PART NO. NO.3 UTILITY
MFR.(TMC CODE) S401-525

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005				LIST OF MATERIAL	
FRACTIONS 1/64 ANGLES 0°-30'	FINAL APPROVAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MATERIAL	MECH. DES.	DATE		SPRING, SUPPORT	
FINISH	ELECT. DES.	DATE			
	CHECKED	DATE			
	DRAWN	DATE			

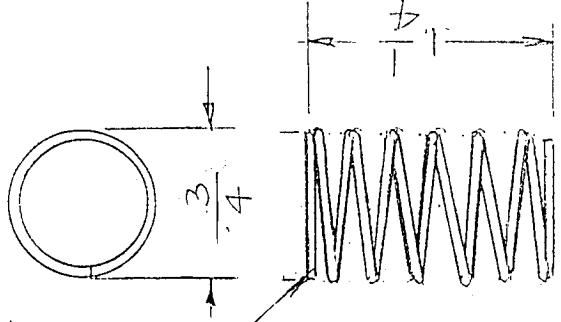
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A	82679	SP157	Ø		
SCALE		SHEET	OF		

APPLICATION		REVISIONS							
QTY	MODEL USED ON	ASSY NO.	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD

1 21130

SPRING

BOTH SIDES
SQUARED & GROUND
ENDS



WIRE SIZE
0508 PHOSPHOR
BRONZE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		REQ'D ITEM	PART NUMBER	DESCRIPTION	SYM.
DECIMALS	FRACTIONS	LIST OF MATERIAL			
.X ± .05	1/64	FINAL APPROVAL	DATE	THE TECHNICAL MATERIEL CORP.	
.XX ± .01	ANGLES	MECH. DES.	DATE	MAMARONECK, NEW YORK	
.XXX ± .005	° 30'	ELECT. DES.	DATE	SPRING COMPLETE	
MATERIAL WIRE 0508		CHECKED	DATE	PART 21130	
FINISH		DRAWN	DATE	SIZE	CODE IDENT. NO.
				A	82679
				SCALE	DWG NO.
					SP 158

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