

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. DIMENSIONS ARE TO BE INTERPRETED AS DIMENSIONS TO UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO BE INTERPRETED AS DIMENSIONS TO UNLESS OTHERWISE SPECIFIED.

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\*FOR INFORMATION ONLY, CONTRACTOR MAY AT HIS OPTION DEVIATE FROM THESE PROCESS DETAILS.

WIRE	ITEM	DESCRIPTION	LENGTH (INCHES)	NO. OF PLACES	TOTAL LENGTH	SLEEVING REQ'D (G.A.)	NOTE
A	71	WIRE MW-C24(7)U BRN	5	1	5	NONE	
B	71	BRN	4 3/4		4 3/4		
C	72	BLK	3 3/4		3 3/4		
D	73	RED	5		5		
E	74	YEL	4		4		
F	72	BLK	3		3		
G	75	GRN	4		4		
H	76	ORN	2 1/2		2 1/2		
J	77	WIRE #16	2		2		4
K	77	WIRE #16	1 3/4		1 3/4		4

NOTES:

- SUPPLIER FOR: (OR APPROVED EQUIVALENT)  
ITEMS 29, 30, 31, 32, 33, 34, 35, & 36: OHMITE MFG CO, SKOKIE, ILLINOIS  
ITEM 37: ERIE RESISTOR CORP, ERIE, PA  
ITEMS 35 & 38: ARCO ELECTRONICS INC, CHICAGO, ILL.  
ITEM 39: ASTRON CORP, EAST NEWARK, N. J.  
ITEM 40: RADIO MATERIALS CORP, CHICAGO, ILL.  
ITEMS 41 & 42: RADIO CORP OF AMERICA, CHICAGO ILL.  
ITEMS 43, 44 & 51: CINCH MFG CO, CHICAGO, ILL.  
ITEM 45: BIRNBACH RADIO CO, INC, NEW YORK, N. Y.  
ITEMS 46 & 47: AMPHENOL ELECTRONICS CORP, CHICAGO ILL.  
ITEM 48: WHITSO CO INC, SHILLER PARK, ILLINOIS  
ITEMS 49, 50 & 57: SHAKEPROOF, DIVISION OF ILLINOIS TOOL WORKS ELGIN, ILLINOIS  
ITEMS 52 & 53: SAMUEL HARRIS & CO, CHICAGO, ILLINOIS  
ITEMS 54, 55, 56, 58 & 78: HERCULES FASTENER CO, CHICAGO, ILL.  
ITEM 59: ELASTIC STOP NUT CORP OF AMERICA, UNION, N. J.  
ITEM 60: PARKER-KALON INC, CLIFTON, N. Y.  
ITEMS 61, 62 & 63: WALDES-KOHINOOR INC, LONG ISLAND CITY, N. Y.  
ITEM 64: DIELECTRIC MATERIALS CO, CHICAGO, ILLINOIS  
ITEMS 65, 66, 67 & 69: BENTLY-HARRIS MFG CO, CONSHOHOCKEN, PENN  
ITEM 79: IRVINGTON, DIV MINNESOTA MINING & MFG CO, IRVINGTON, N. J.
- ELECTRICAL CONNECTIONS SHALL BE SOLDERED USING ITEM 70
- LETTERED LEADS ARE JUMPER WIRE (SEE TABLE "A") SHOWN BY SINGLE LINE, LETTERED AT BOTH ENDS FOR CLARIFICATION
- WIRE SHALL BE TYPE S, DRAWN AND ANNEALED, TINNED PER SPEC MIL-W-3861.
- RUN WIRES LOOSE AND DRESSED BACK AGAINST THE CHASSIS IN THE MOST CONVENIENT MANNER.
- USE ITEMS 66 & 72 TO INSULATE JUMPERS C & F WHERE INDICATED  
ITEM 65 TO INSULATE JUMPERS A & B WHERE INDICATED USE ITEM 67 ON JUMPER D, ITEM 74 ON JUMPER "E", & ITEM 75 ON JUMPER G.
- WIRE LENGTHS INDICATED IN MATL LIST ARE PRELIMINARY AND SHALL BE CUT TO PROPER LENGTH IN ASSEMBLY.

ITEM	QTY	SIG	PART NO.	DESCRIPTION	MATL-FIN	FIN SIZE OR SPEC	SHT	NOTES
79	RECD		-79	SLEEVING #12	VINYL		2	1
78	3		-78	MS, (#3-56x3/16 SLOT. RH)	STL-CAD PL		2	1
77	3 3/4		-77	#16			2	4
76	2 1/2		-76	MW-C24(7)U3			2	
75	4		-75	MW-C24(7)U5			2	
74	4		-74	MW-C24(7)U4			2	
73	5		-73	MW-C24(7)U2			2	
72	6 3/4		-72	MW-C24(7)U0			2	
71	9 3/4		-71	WIRE, MW-C24(7)U1	MIL-W-76		2	
70			-70	SOLDER .062 DIA	QQ-S-571		2	1
				Sn60WARP3				
69			-69	SLV #11 BH-1151 (GRN)			2	1
68	AS RECD		-68	SLV #11 BH-1151 (YEL)			2	1
67			-67	(RED)			2	1
66			-66	(BLK)			2	1
65			-65	SLV #11 BH-1151 (BRN)			2	1
64	AS RECD		SM-D-58790-64	TUBING #18 (GRN)			2	1

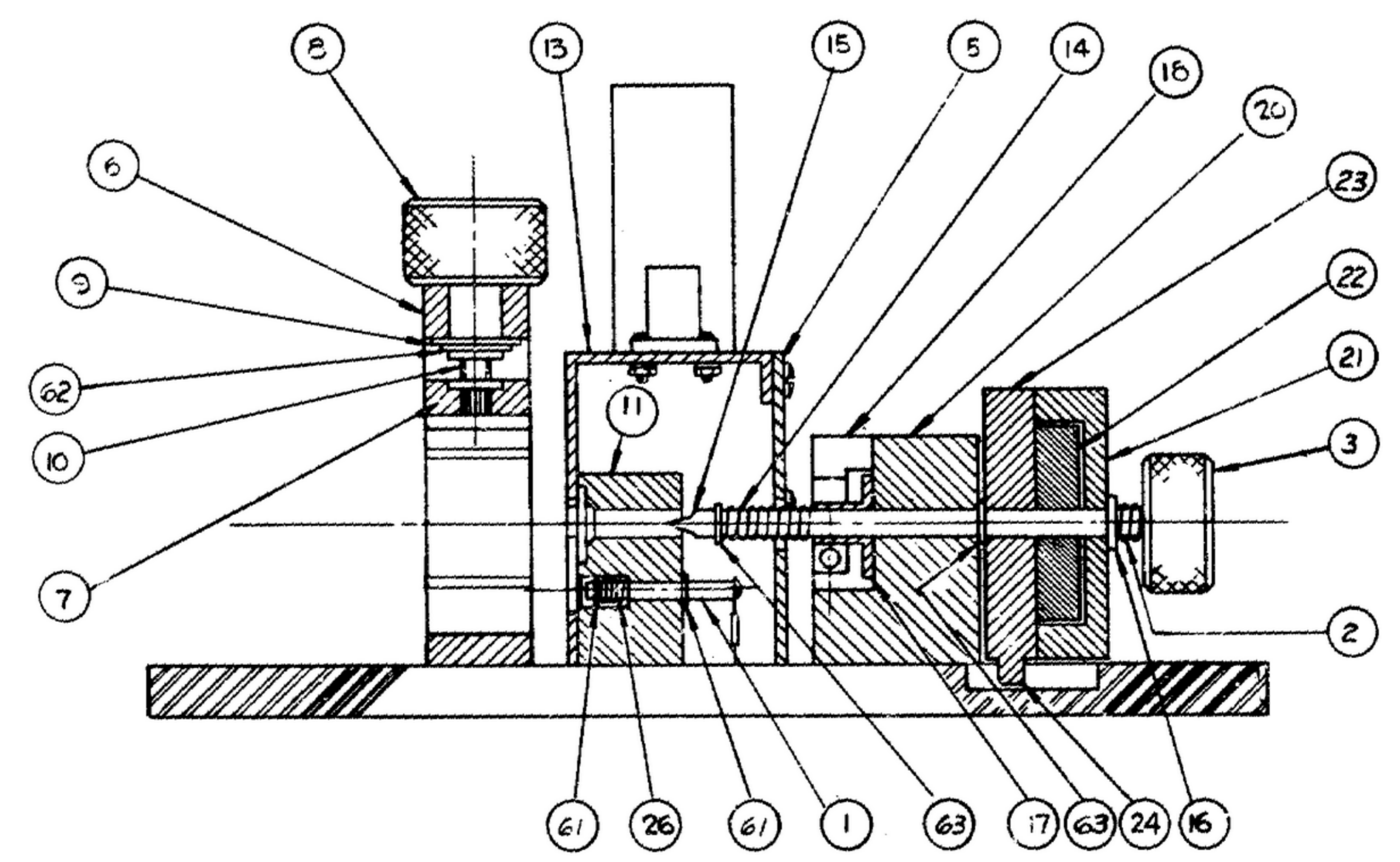
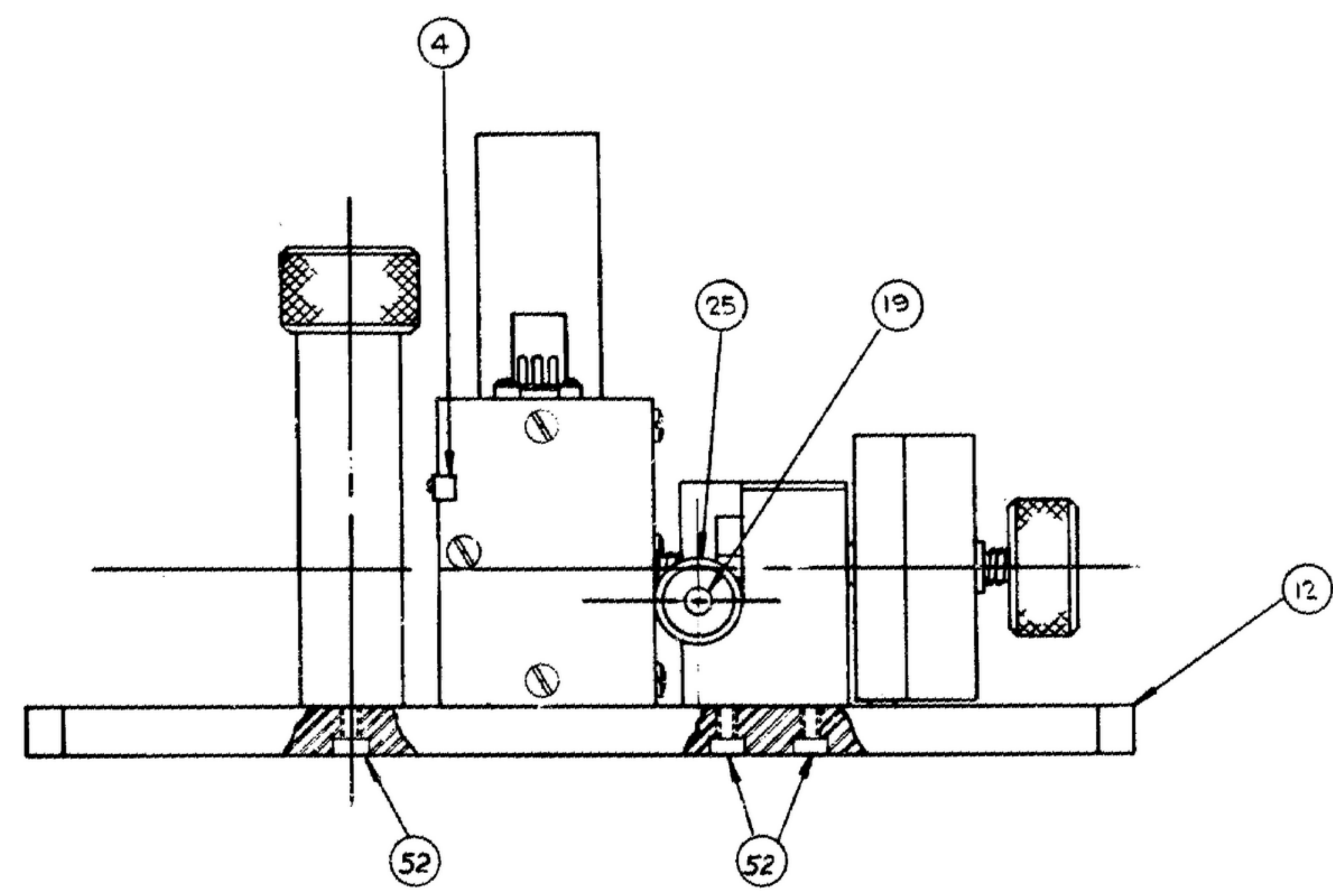
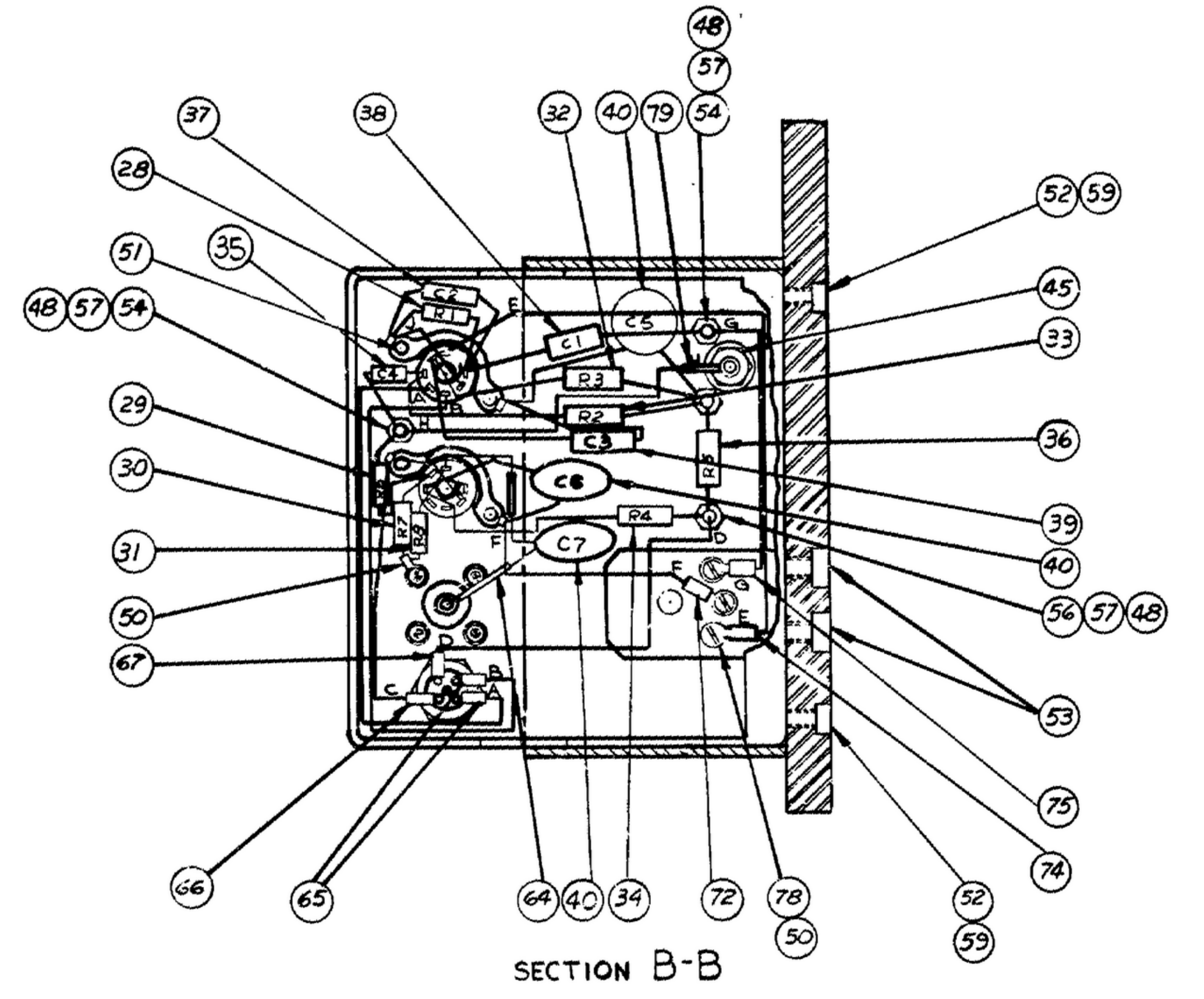
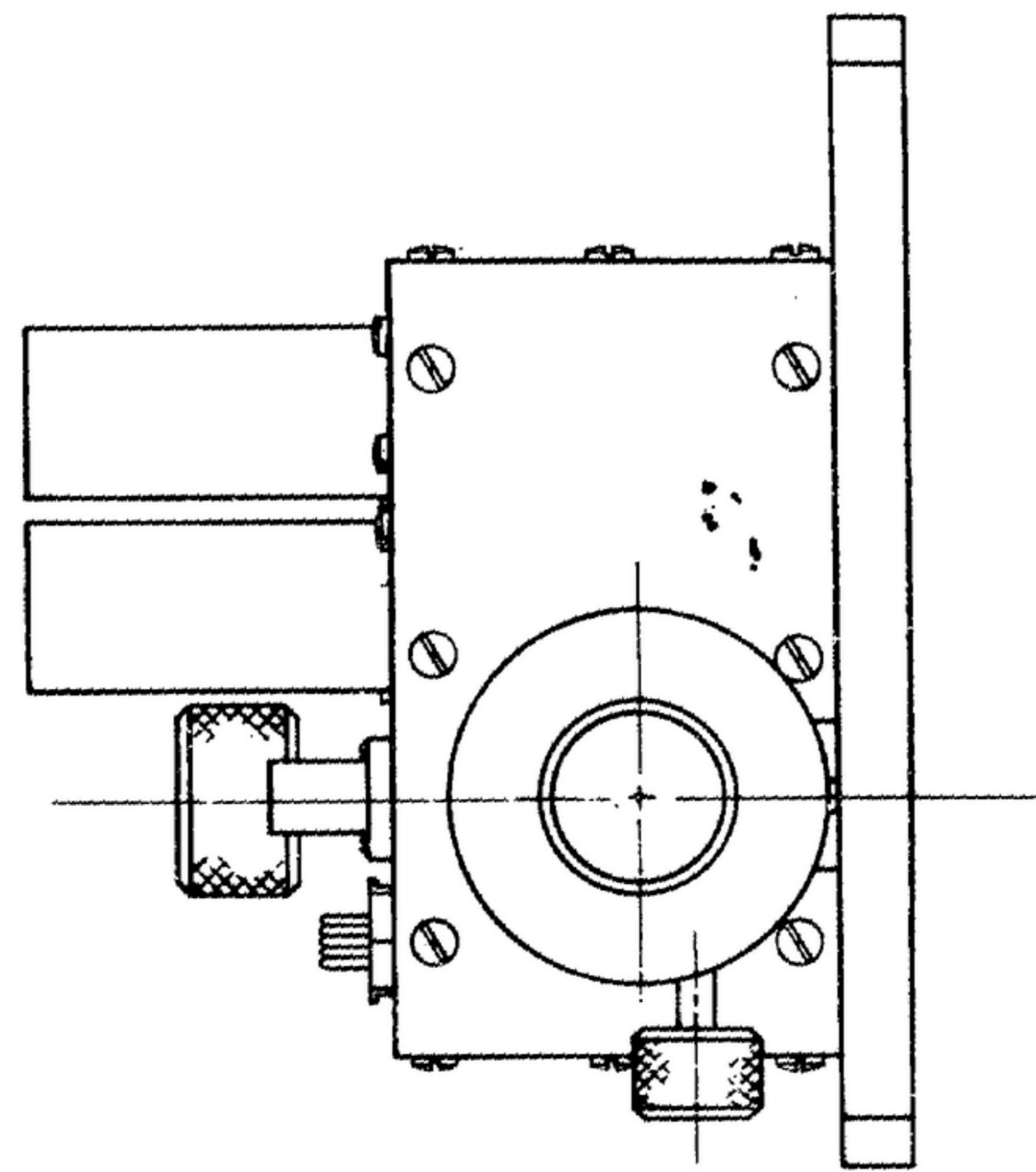
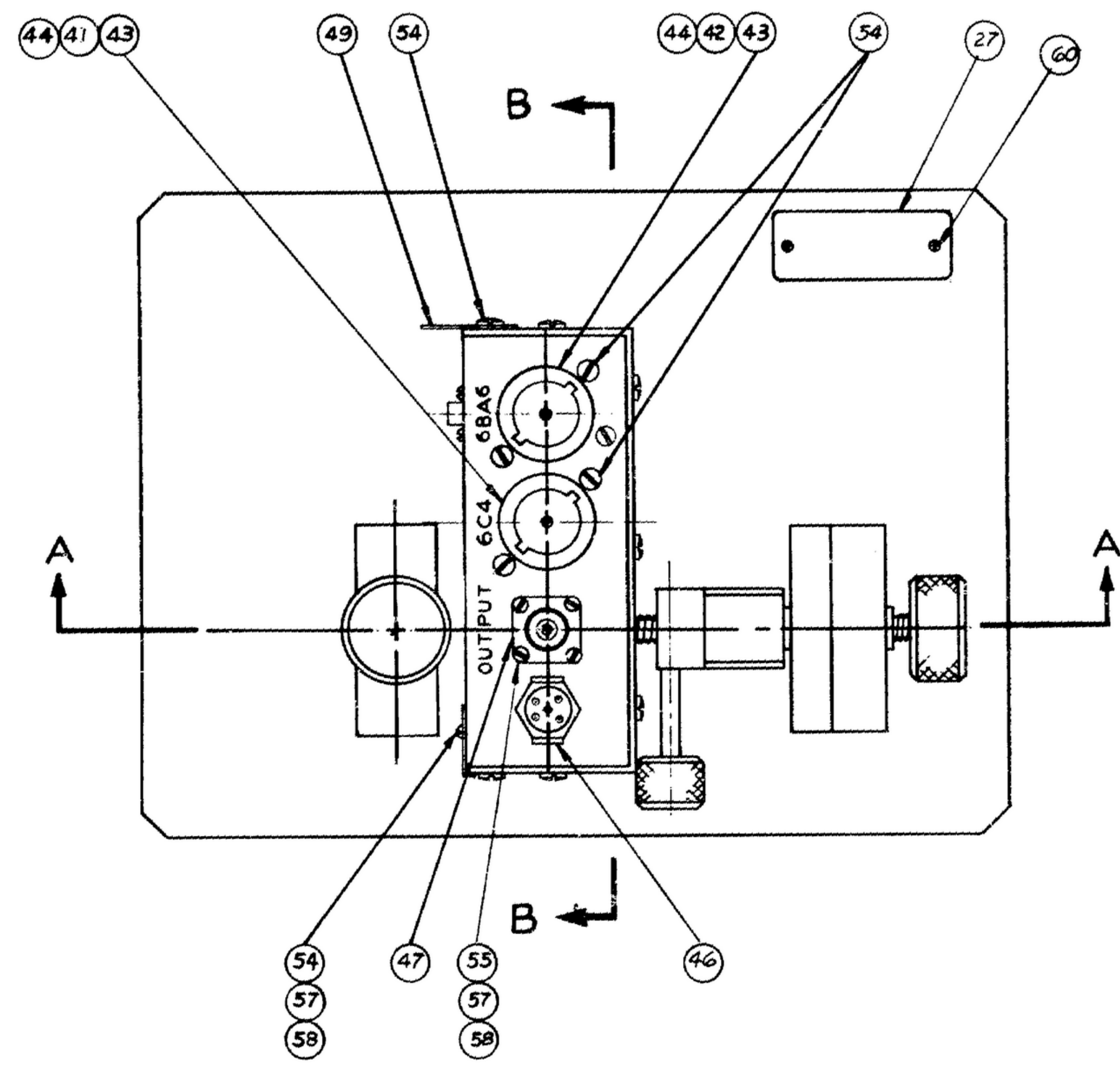
63	2		-63	#5100-18			2	1
62	1		-62	#5103-37			2	1
61	2		-61	RING, RET #5100-12			2	1
60	2		-60	SCR, (#2x3/16 LG RH SELF-TAPPING TYPE Z)			2	1
59	2		-59	NUT, CLINCH #C2-62			2	1
58	5		-58	NUT, (#4-40x3/32 HEX)			2	1
57	9		-57	LK WASH., (#4 INT TOOTH)			2	1
				#1204-00				
56	1		-56	MS, (#4-40x3/16 LG SLOT. FH)			2	1
55	4		-55	MS, (#4-40x3/8 LG SLOT. RH)			2	1
54	20		-54	MS, (#4-40x3/16 LG SLOT. BIND. HEAD)	STL-CAD PL		2	1
53	2		-53	SCR, (#10-32x1/2 LG HEX SCH CAP)	CH STL		2	1
52	6		-52	SCR, (#6-32x1/2 LG HEX SCH CAP)	CH STL		2	1
51	2		-51	STRAPNUT #1060			2	1
50	4		-50	LUG, #12550			2	1
49	1		-49	LUG, #2101-06-00			2	1
48	4		-48	TERM, STANDOFF #3AI-AI			2	1
47	1		-47	CONNECTOR AN/UG-447/U			2	1
46	1		-46	CONNECTOR #126-217			2	1
45	1		-45	JACK, TIP #407 (GRN)			2	1
44	2		-44	SHIELD, TUBE #8674			2	1
43	2		-43	SOCKET #13723			2	1
42	1		-42	TUBE 6BA6	MIL-E-1		2	1
41	1		-41	TUBE 6C4	MIL-E-1		2	1
40	3		-40	#B-10000			2	1
39	1		-39	.05 UF			2	1
38	1		-38	#CM-15-E-101-J			2	1
37	1		-37	CAPACITOR 5 UUF #N7 50K			2	1
36	1		-36	RESISTOR 2200Q 1/2W 50K	MIL-R-11		2	1
35	1		-35	CAP. CM-15-C-120-J			2	1
34	1		-34	2700Q 1/2W 5%			2	1
33	1		-33	22K 1W 5%			2	1
32	1		-32	33K 1W 5%			2	1
31	1		-31	1200Q 1/2W 5%			2	1
30	1		-30	68K 1/2W 5%			2	1
29	1		-29	390K 1/2W 10%			2	1
28	1		-28	RESISTOR 150K 1/2W 5%	MIL-R-11		2	1
27	1		-27	NAMEPLATE	3x1 7/16		7	
26	3		-26	SPRING	13/16x.020		4	
25	1		-25	KNOB	3/8x1		4	
24	1		-24	FIN	1/2x.1875		7	
23	1		-23	DIAL	1 5/16x3/8		5	
22	1		-22	SPACER	1.496x.312		5	
21	1		-21	DIAL	1 15/16x1/2		4	
20	1		-20	SUPPORT	1 11/16x3/4		5	
19	1		-19	SCREW	2 1/16x3/16		4	
18	1		-18	CLAMP	1x3/4		6	
17	1		-17	COLLAR	3/4x7/16		5	
16	1		-16	WASHER	3/8x.191x1/8		5	
15	1		-15	SHAFT	3 7/8x.187		6	
14	1		-14	SPRING	7/8x.016		4	
13	1		-13	CHASSIS	4x2 1/2x.074		3	
12	1		-12	BASE	8x6x3/8		5	
11	1		-11	BLOCK	3/4x1 5/16		7	
10	1		-10	SCREW	7/8x.370		7	
9	1		-9	WASHER	5/8x.380		7	
8	1		-8	KNOB	1x1 1/8		7	
7	1		-7	CLAMP	1/2x1.188		7	
6	1		-6	HOLDER	2 3/4x2		7	
5	1		-5	COVER	4x2 1/2x.074		5	
4	1		-4	CONTACT	1 3/8x1/2		7	
3	1		-3	KNOB	1 DIA		6	
2	1		-2	SPRING	1/2x.010		4	
1	3		SM-D-58790-1	PIN	.125x.1 1/16		4	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES OR FRACTIONS DECIMALS ANGLES ±.004 ±.010 ±1°		MOTOROLA INC. ORDER NO. 14389-PC-38 A1 SIGNAL CORPS		DEPARTMENT OF THE ARMY SIGNAL CORPS ENGINEERING LABORATORIES	
DRAWN J.J.L.		REVIEWED XXX		PORT MONMOUTH NEW JERSEY	
DATE 25 JUN 58		APPROVED		SM-D-58790	
CHECKED W.J.P. 14 JAN 59		DATE 25 JUN 58		SHEET 1 OF 3 SHEETS	
NEXT ASSY USED ON		APPLICATION		WHEN REFERRING TO THIS DRAWING STATE DRAWING NO., APPLICABLE ISSUE SYMBOL, IF ANY, AND DATE.	

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE GIVEN IN INCHES AND DECIMALS THEREOF. DIMENSIONS IN FRACTIONS SHALL BE TO NEAREST 1/32 INCH UNLESS OTHERWISE SPECIFIED. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY. DIMENSIONS IN PARENTHESES ARE FOR INFORMATION ONLY.

\*THIS DRAWING HAS BEEN REVISIONED BY THE CONTRACTOR AND IS NOT TO BE CONSIDERED AS A BASIS FOR THE DESIGN OF ANY OTHER PARTS OR ASSEMBLIES.

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SEE SHEET 1 FOR LIST OF MATL., NOTES & RUN LIST

SECTION AA

ISS	PART NO.	DESCRIPTION	MATL.	MATL. SPEC.
SEE TABLE FOR PART NO. LIST OF MATERIAL				
MOTOROLA-INC.		DEPARTMENT OF THE ARMY SIGNAL CORPS ENGINEERING LABORATORIES		
ORDER NO. 14385-PC-58-A1		FORT MONMOUTH NEW JERSEY		
DRAWN R.F.		SM-D 58790		
DATE 25 JUN 58		SHEET 2 OF 8 SHEETS		
NEXT ASSY USED ON		SCALE 1/1		
* MOTOROLA APPL		WHEN REFERRING TO THIS DRAWING STATE DRAWING NO., APPLICABLE ISSUE SYMBOL, IF ANY, AND DATE.		

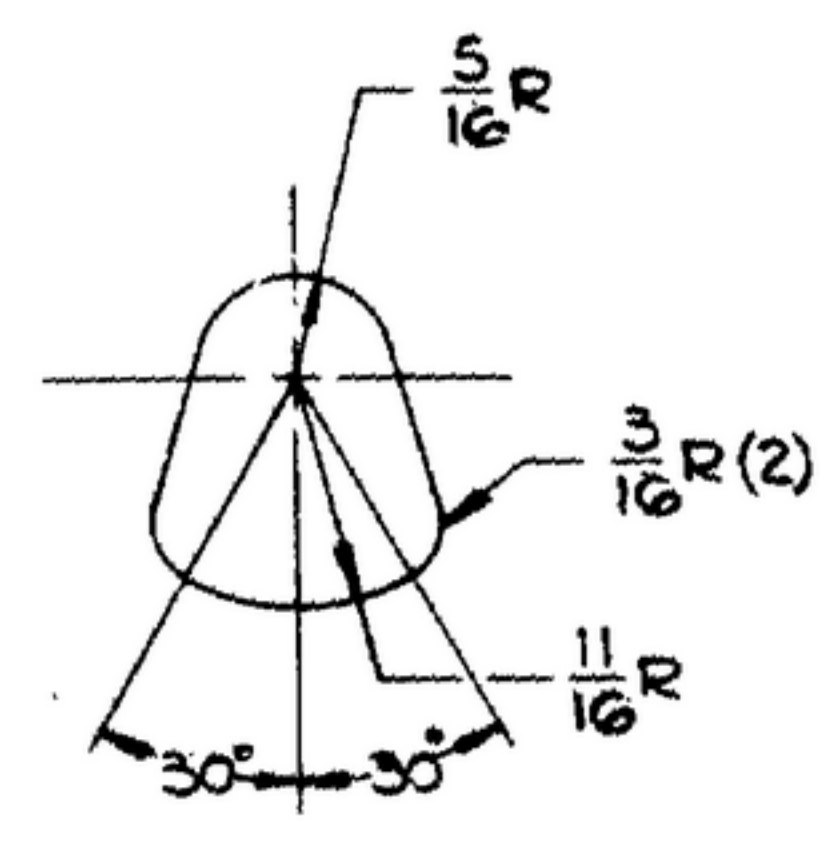
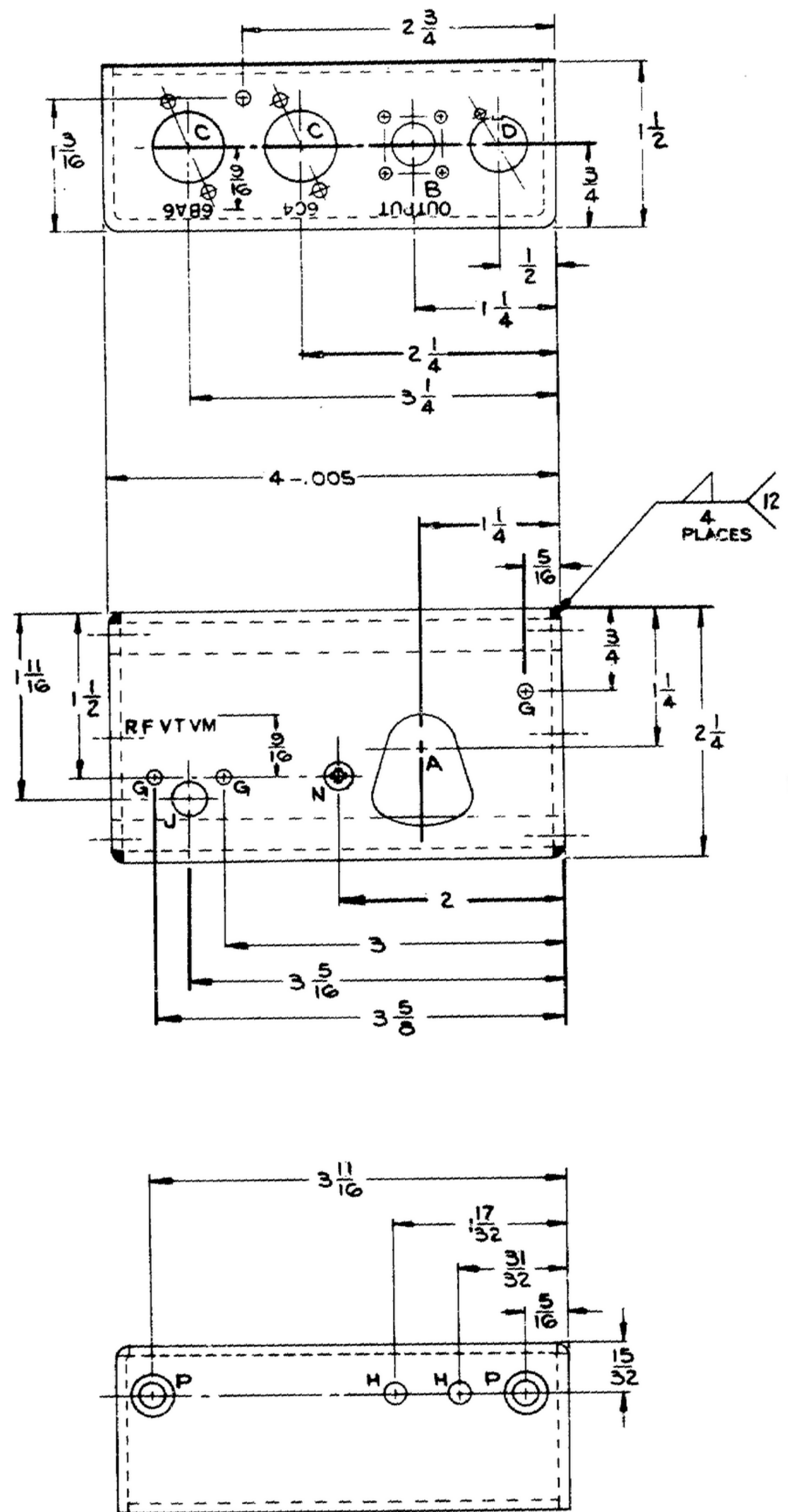
UNLESS OTHERWISE SPECIFIED	MOTOROLA-INC.
DIMENSIONS ARE IN INCHES	ORDER NO. 14385-PC-58-A1
TOLERANCES ON FRACTIONS DECIMALS ANGLES	SIGNAL CORPS
$\pm \frac{1}{64}$ $\pm 0.005$ $\pm 1^\circ$	REVIEWED XXX
DRAWN R.F.	APPROVED
DATE 25 JUN 58	DATE 25 JUN 58
CHECKED W.J.P. 16 JAN 59	DATE 25 JUN 58
APPROVED	DATE 25 JUN 58

6-3505-2-1004

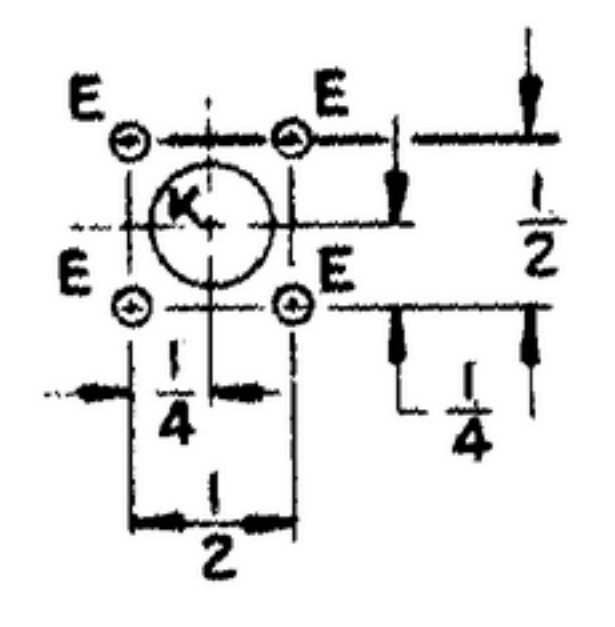
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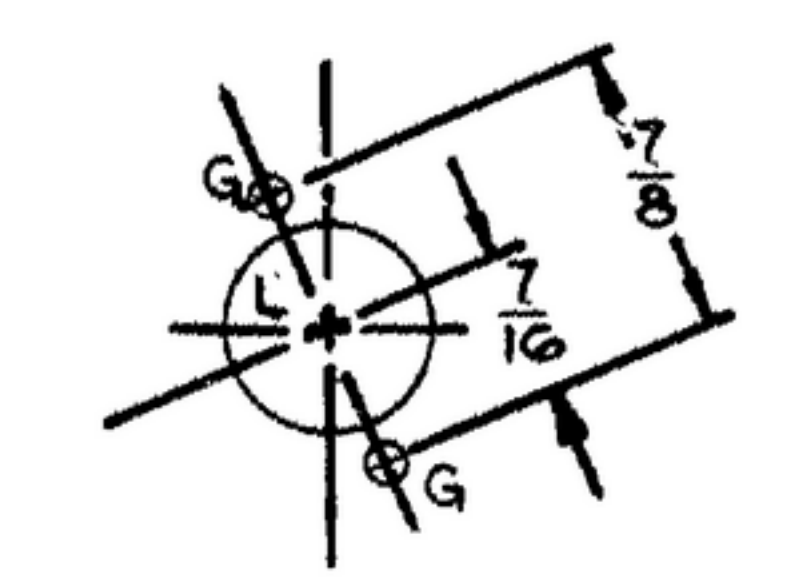
SYM	DESCRIPTION	DATE	APPROVAL
ORIG SYM	ISS A	REVISIONS	17 OCT 58



DETAIL A

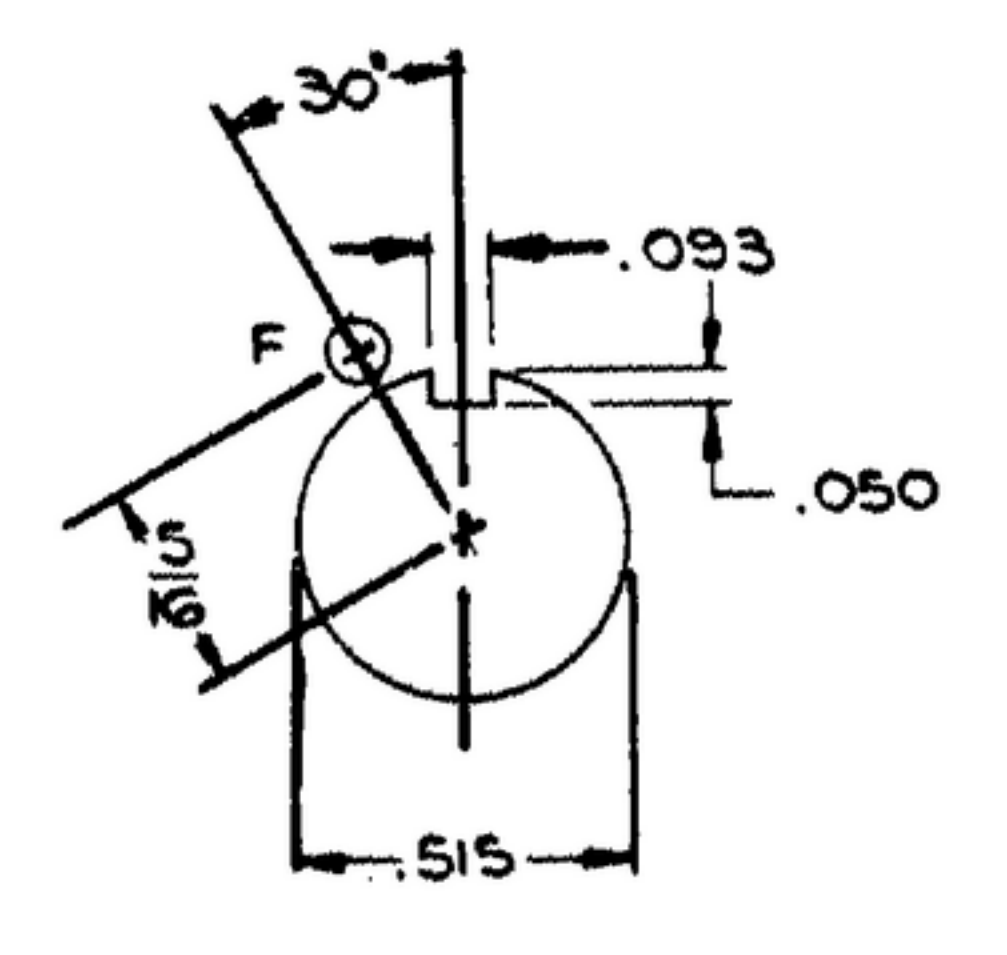


DETAIL B

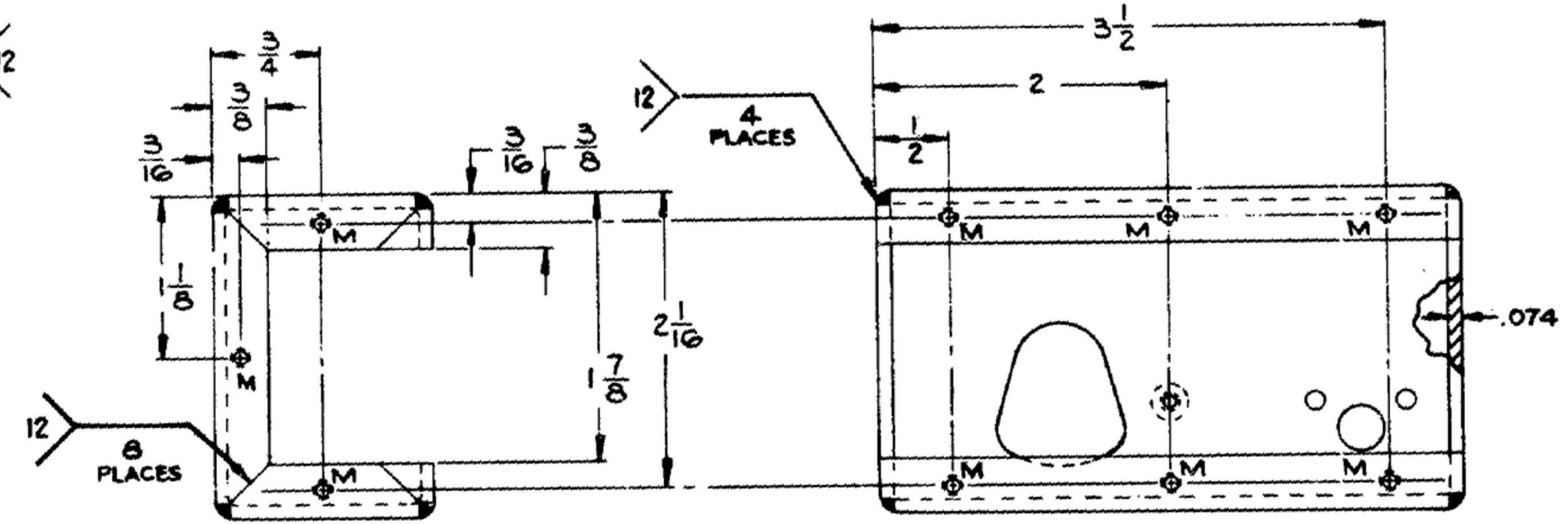


DETAIL C

SEE NOTE



DETAIL D



SYM	DESCRIPTION	QTY
A	SEE DETAIL A	1
B	SEE DETAIL B	1
C	SEE DETAIL C	2
D	SEE DETAIL D	1
E	.110 DIA	4
F	.093 DIA	1
G	1/8 DIA	8
H	.109 DIA	2
J	5/16 DIA	1
K	3/8 DIA	1
L	5/8 DIA	2
M	4-40 THD	12
N	CSK FOR 4-40 FHMS	1
P	.217/.219 DIA C BORE 3/8 DIA .042 DEEP	2

- NOTES:
- PART TO BE CLEAN & FREE OF BURRS & SHARP EDGES.
  - BENDING RADII 7/64
  - DETAIL "C" TO BE PLACED AT 22 1/2° ANGLE AS SHOWN
  - MARKINGS TO BE:
    - RUBBER STAMP IN PERMANENT & LEGIBLE BLACK, CONDENSED GOTHIC STYLE, 1/8 HIGH CHARACTERS.
    - COVERED WITH M.F.P. VARNISH #7475, AS SUPPLIED BY BROOKLYN VARNISH CO., BROOKLYN, N.Y.
    - SYMMETRICAL ABOUT THEIR RESPECTIVE CENTER LINES.
  - WELD PER SPEC MIL-W-6858.

⑬ CHASSIS  
 MATL: STL, CARBON, CR COND NO.3, REG BRIGHT FIN., NO.2 EDGE PER SPEC QQ-S-636.  
 FINISH: CADMIUM PLATE (.0005MAX), CL1, TYPE II PER SPEC QQ-P-416.

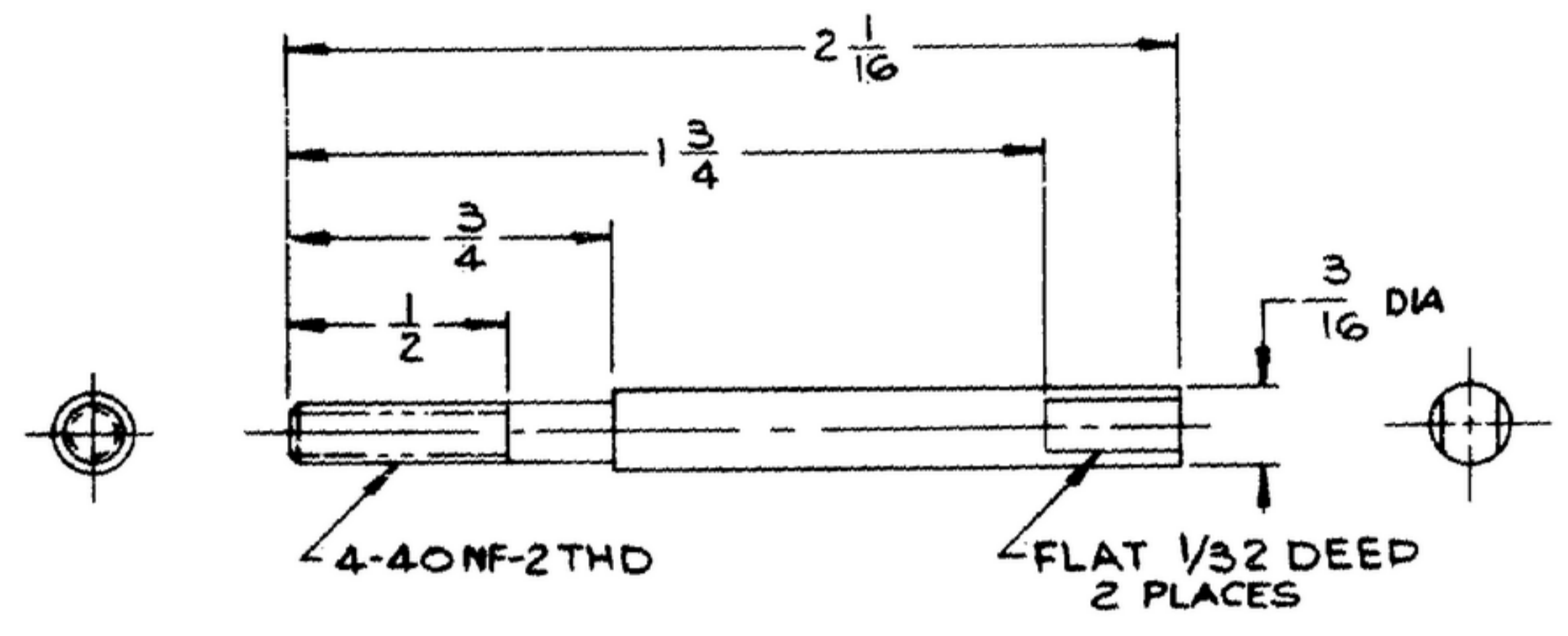
REQD	PART NO.	DESCRIPTION	MATL.	MATL SPEC
SEE TABLE FOR PART NO.		LIST OF MATERIAL		
UNLESS OTHERWISE SPECIFIED		MOTOROLA INC.		
DIMENSIONS ARE IN INCHES		ORDER NO. 14385-PC-58-A1		
TOLERANCES ON FRACTIONS DECIMALS ANGLES		SIGNAL CORPS		
±.005 ±1°		DRAWN E.D.H.		
DRAWN E.D.H.		REVIEWED XXX		
DATE 29 JULY 58		APPROVED		
NEXT ASSY USED ON		CHECKED W.J.P. 14 JAN 59		
NEXT ASSY USED ON		APPROVED [Signature] 14 JAN 59		
MOTOROLA APPL		DATE 29 JULY 58		
APPLICATION		SCALE 1/1		

TEST FIXTURE ASSEMBLY (B.F.C.)  
 DEPARTMENT OF THE ARMY SIGNAL CORPS ENGINEERING LABORATORIES  
 PORT HOBOKEN, NEW JERSEY  
 SM-D-58790  
 SHEET 3 OF 8 SHEETS

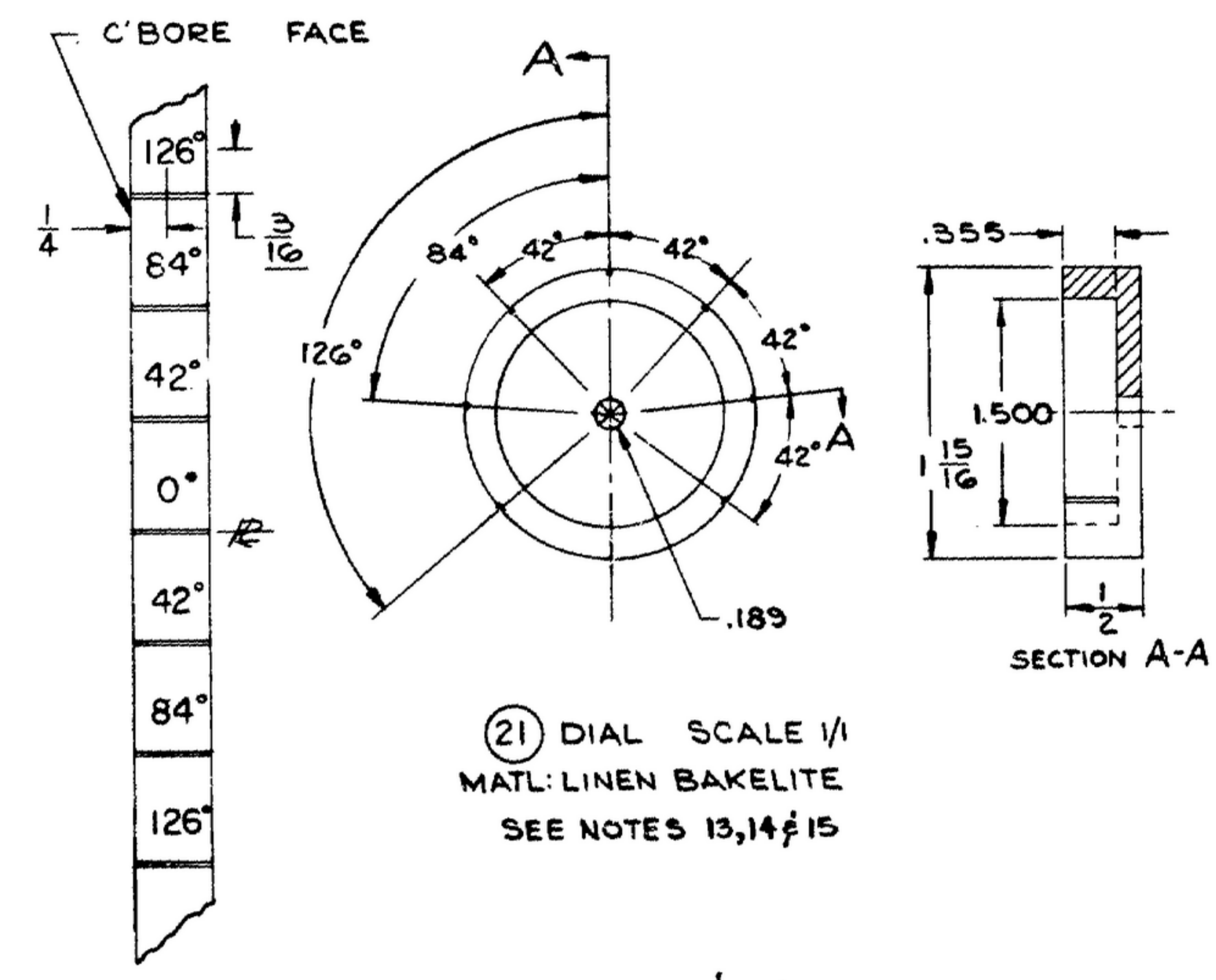
C-3886-D-1030

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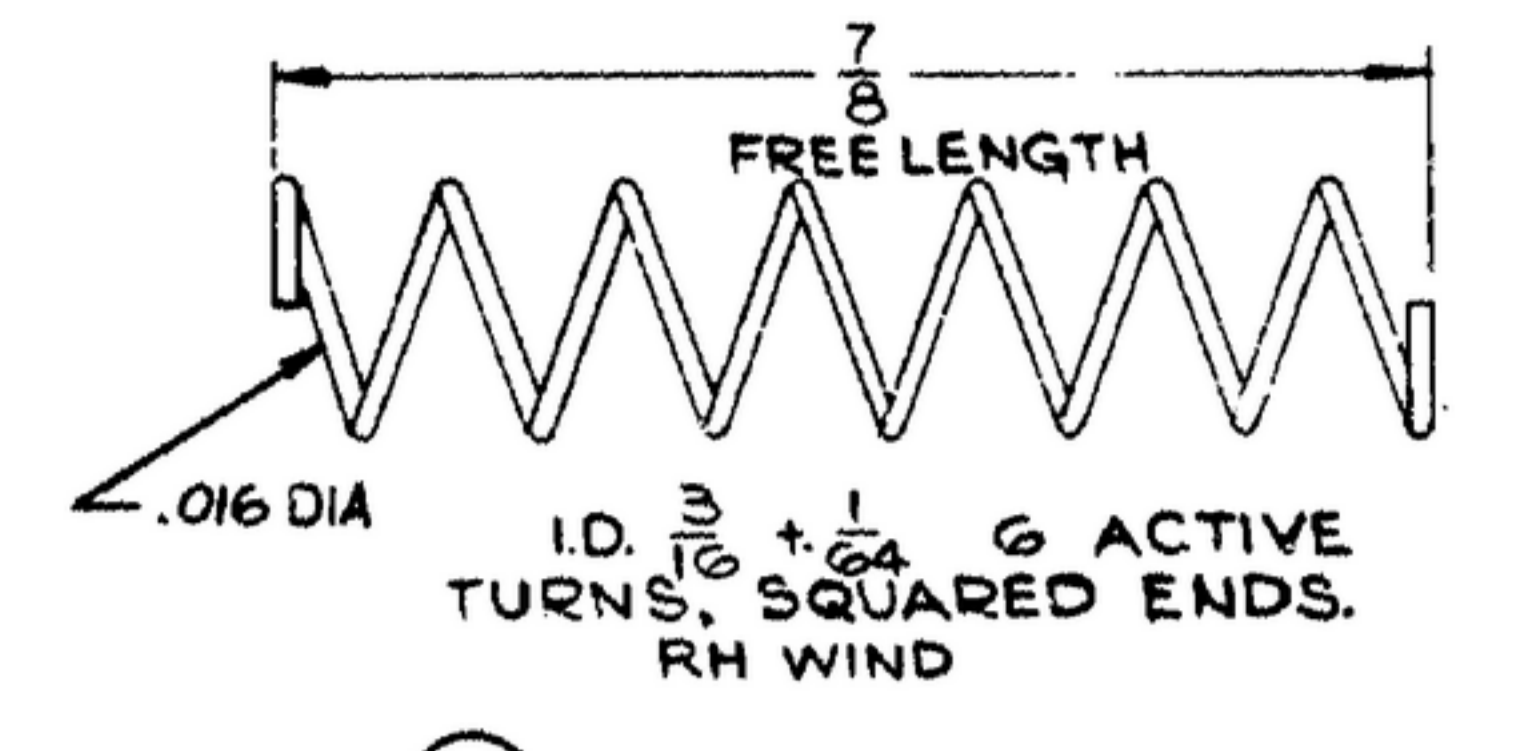
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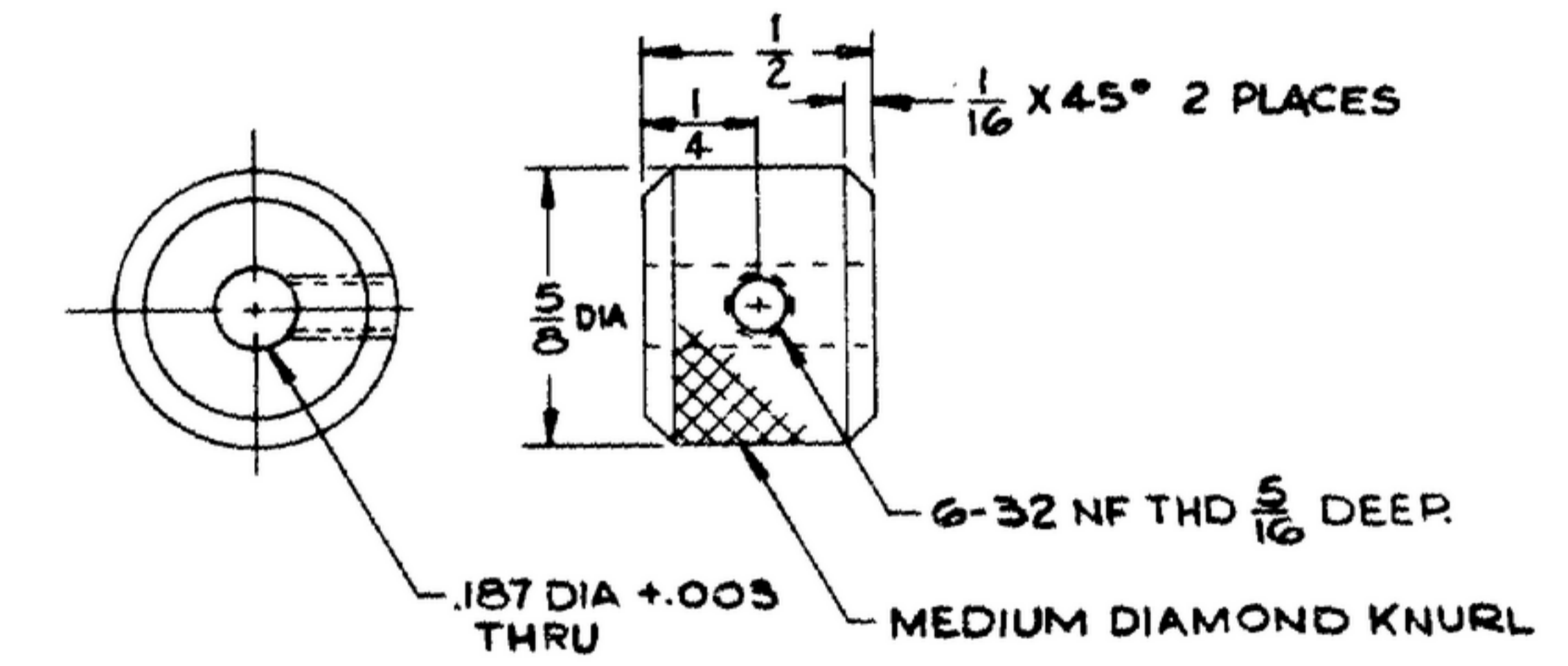
19 SCREW SCALE 2/1  
 MATL: CRES COMP 3035, PHYS COND A, SURFACE COND F PER SPEC MIL-S-7720.  
 FINISH: PASS PER SPEC MIL-S-5002.



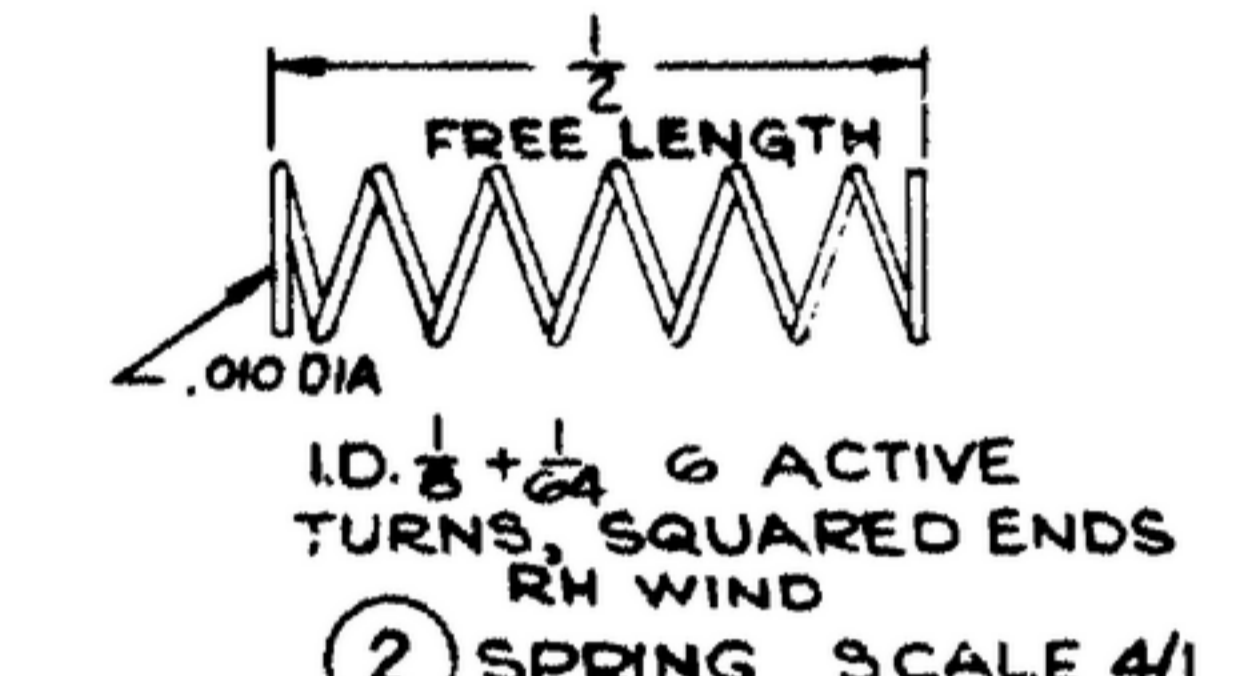
21 DIAL SCALE 1/1  
 MATL: LINEN BAKELITE  
 SEE NOTES 13,14 & 15



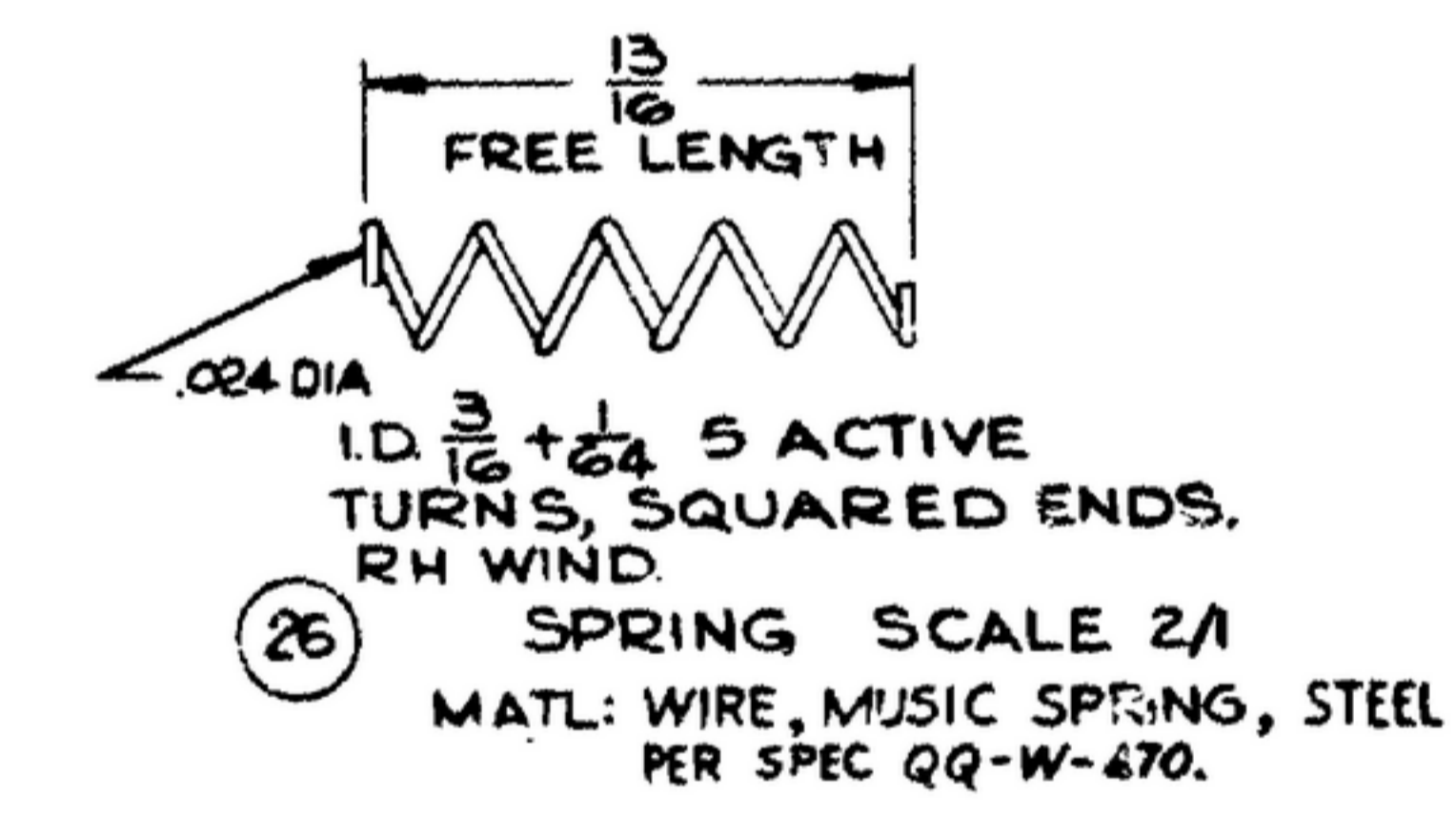
14 SPRING SCALE 4/1  
 MATL: WIRE, MUSIC SPRING, STEEL PER SPEC QQ-W-470.



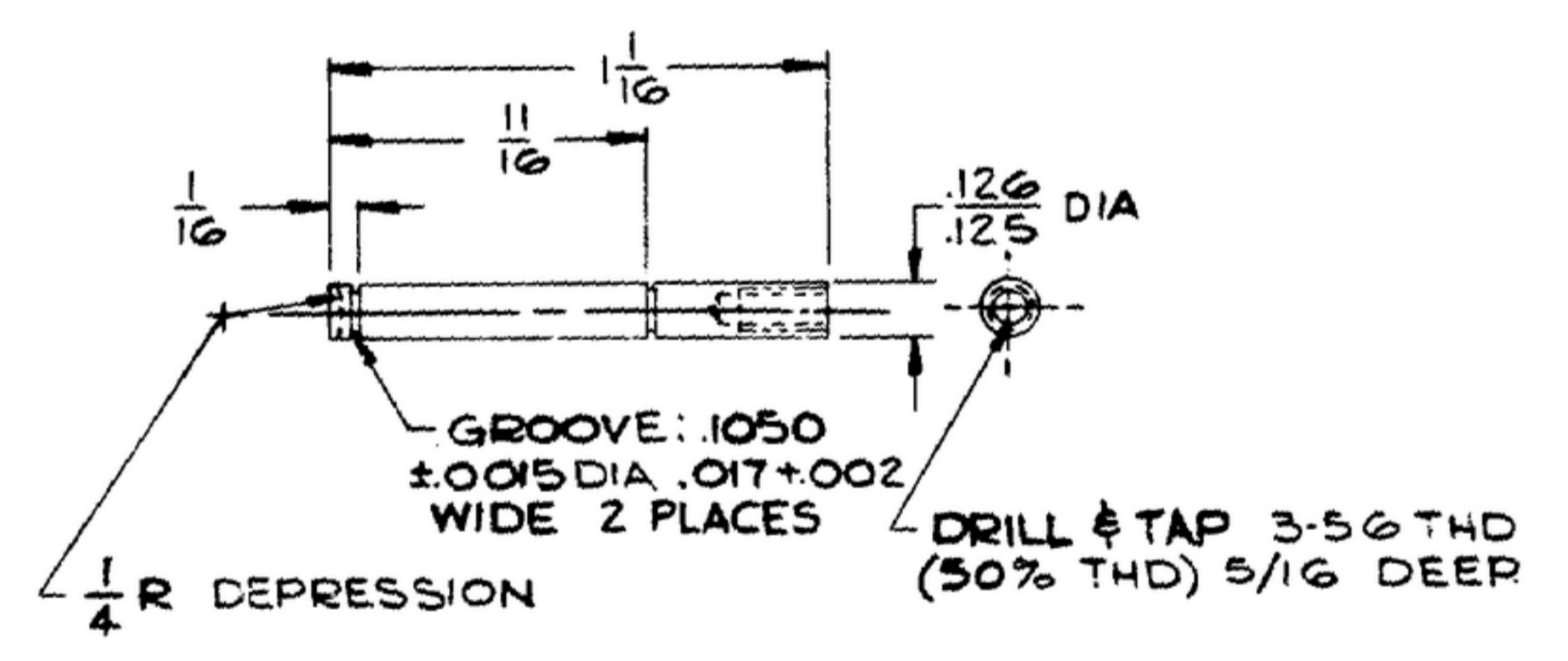
25 KNOB SCALE 2/1  
 MATL: AL ALLOY 2024 TEMPER T-36 PER SPEC QQ-S-355.  
 FINISH: ANODIZE PER SPEC MIL-A-8625.



2 SPRING SCALE 4/1  
 MATL: WIRE, MUSIC SPRING, STEEL PER SPEC QQ-W-470.



26 SPRING SCALE 2/1  
 MATL: WIRE, MUSIC SPRING, STEEL PER SPEC QQ-W-470.



1 PIN SCALE 2/1  
 MATL: CRES COMP 3035, PHYS COND A, SURFACE COND F PER SPEC MIL-S-7720.  
 FINISH: PASS PER SPEC MIL-S-5002.

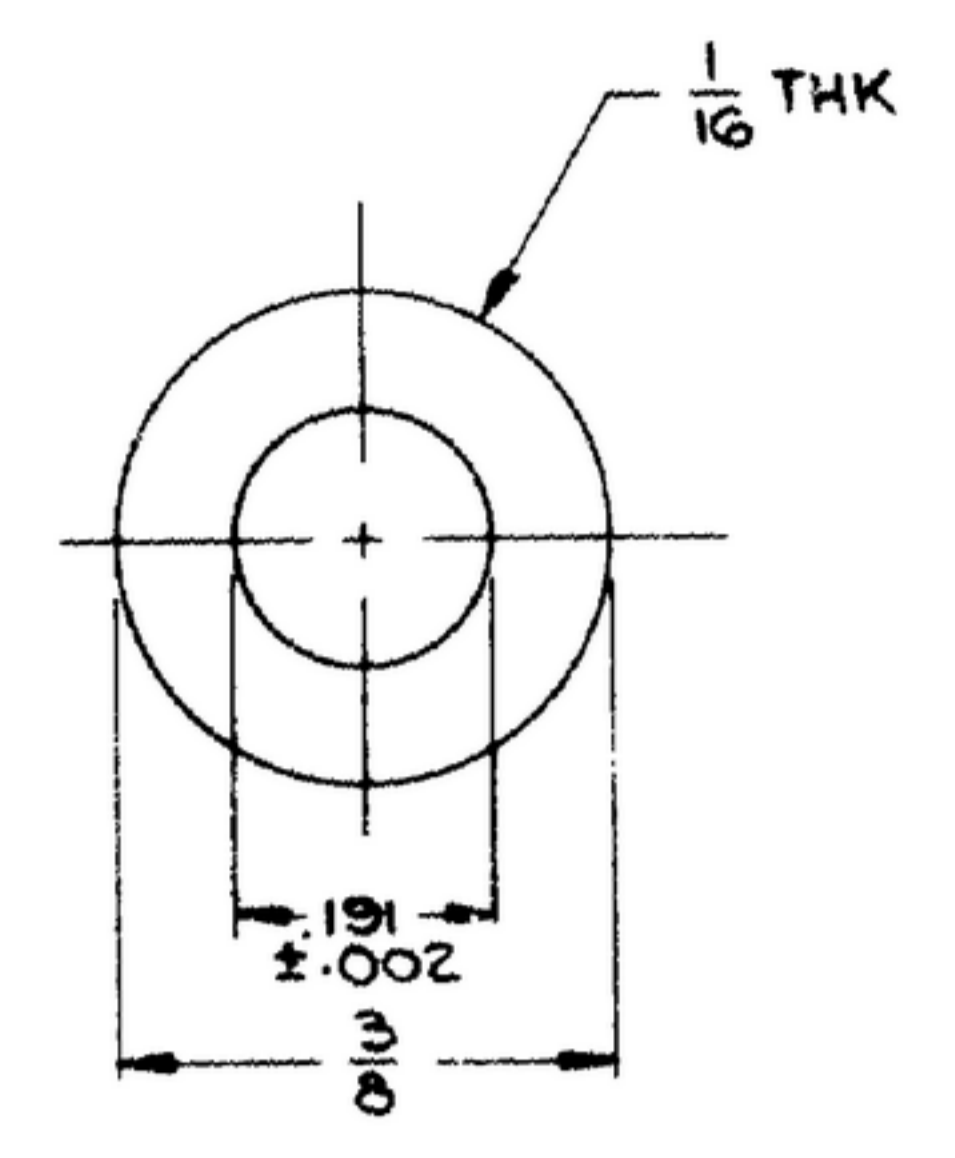
- NOTES:
- 13. MARKINGS ARE TO BE ENGRAVED 5/32 HIGH & .010 DEEP.
  - 14. LINES ARE TO BE ENGRAVED .015 WIDE, .010 DEEP AT 42° INTERVALS.
  - 15. MARKING AND LINES ARE TO BE FILLED WITH BLACK LACQUER-STIK.
  - 16. PARTS TO BE CLEAN & FREE OF BURRS, CHIPS, CRACKS & SHARP EDGES.
  - 17. SCREW THREADS ARE PER FED. SERV HANDBK H-28.

REQD	PART NO.	DESCRIPTION	MATL	MATL SPEC
SEE TABLE FOR PART NO.		LIST OF MATERIAL		
UNLESS OTHERWISE SPECIFIED		MOTOROLA-ING.		
DIMENSIONS ARE IN INCHES		ORDER NO. 14385-PC-58-A1		
TOLERANCES ON FRACTIONS DECIMALS ANGLES		SIGNAL CORPS		
± 1/64 ± .005 ± 1°		REVIEWED XXX		
DRAWN E.D.H.		APPROVED		
DATE 30 JULY 58		DATE 30 JULY 58		
CHECKED W.J.P. 14 JAN 59		DATE 30 JULY 58		
APPROVED (signature)		SCALE		
NEXT ASSY USED ON		APPLICATION		
NEXT ASSY USED ON		DATE 30 JULY 58		
*MOTOROLA APPL		SHEET 4 OF 8 SHEETS		

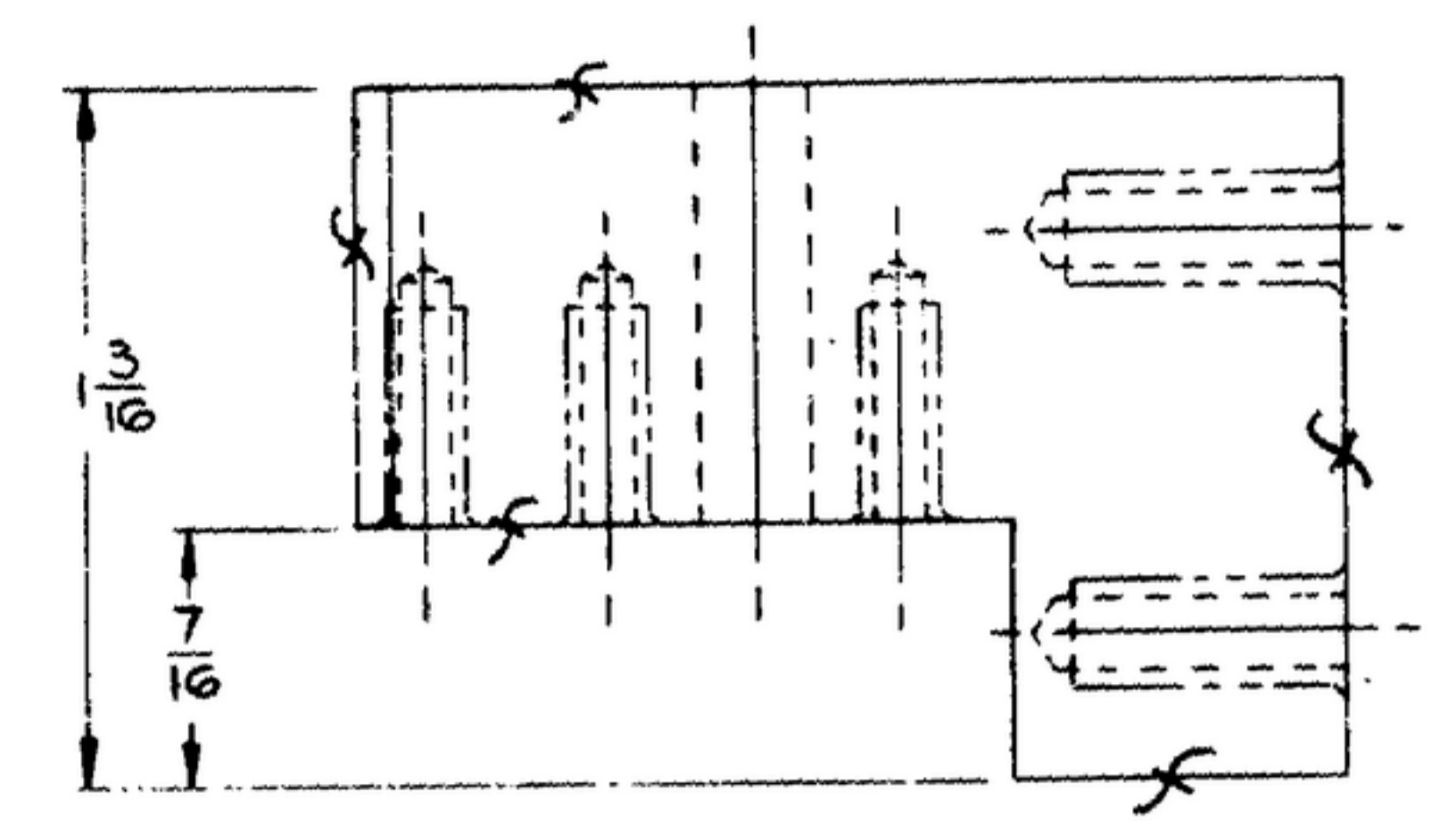
WHEN REFERRING TO THIS DRAWING STATE DRAWING NO., APPLICABLE ISSUE SYMBOL, IF ANY, AND DATE.

G-3386-0-1001

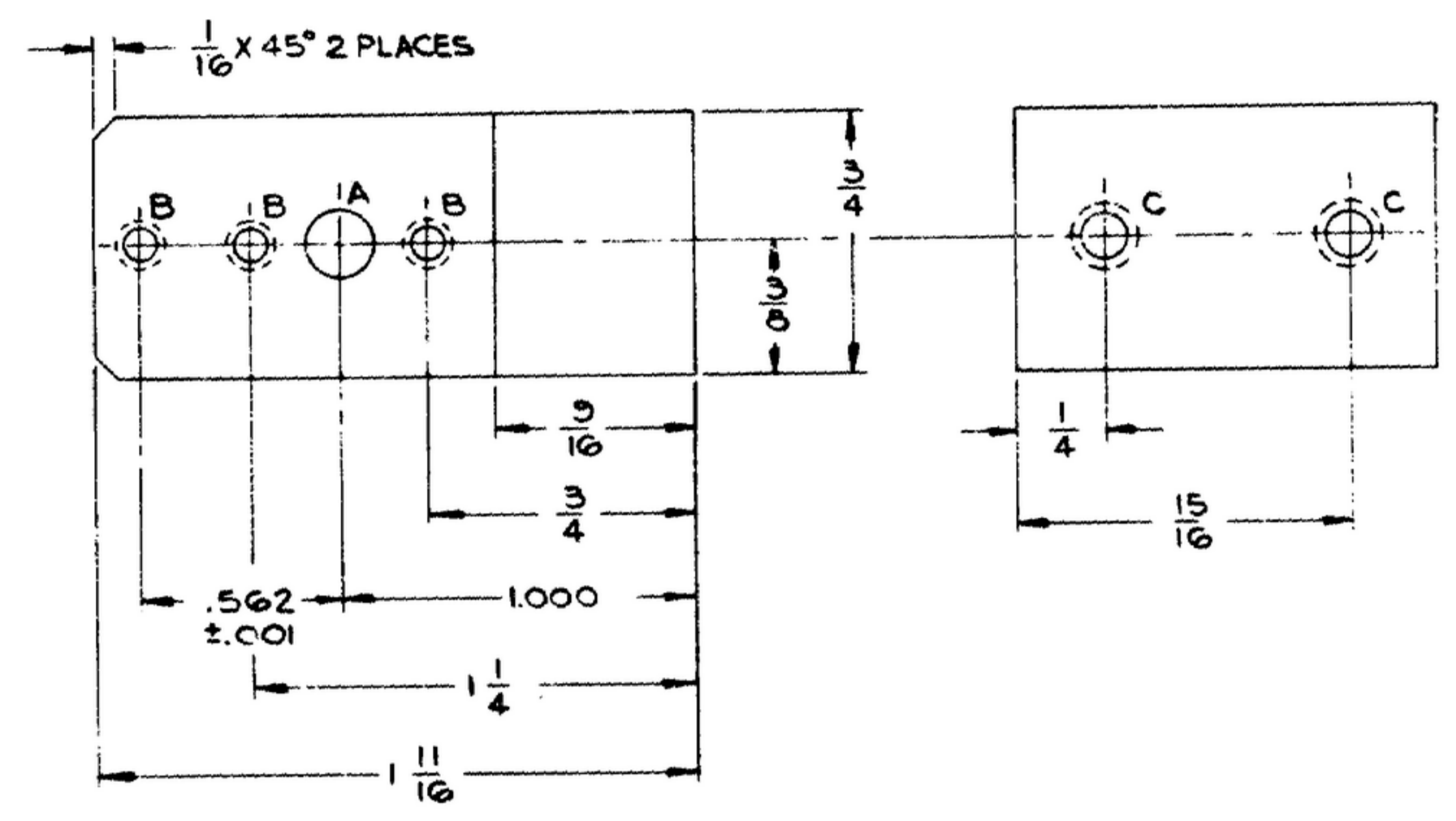
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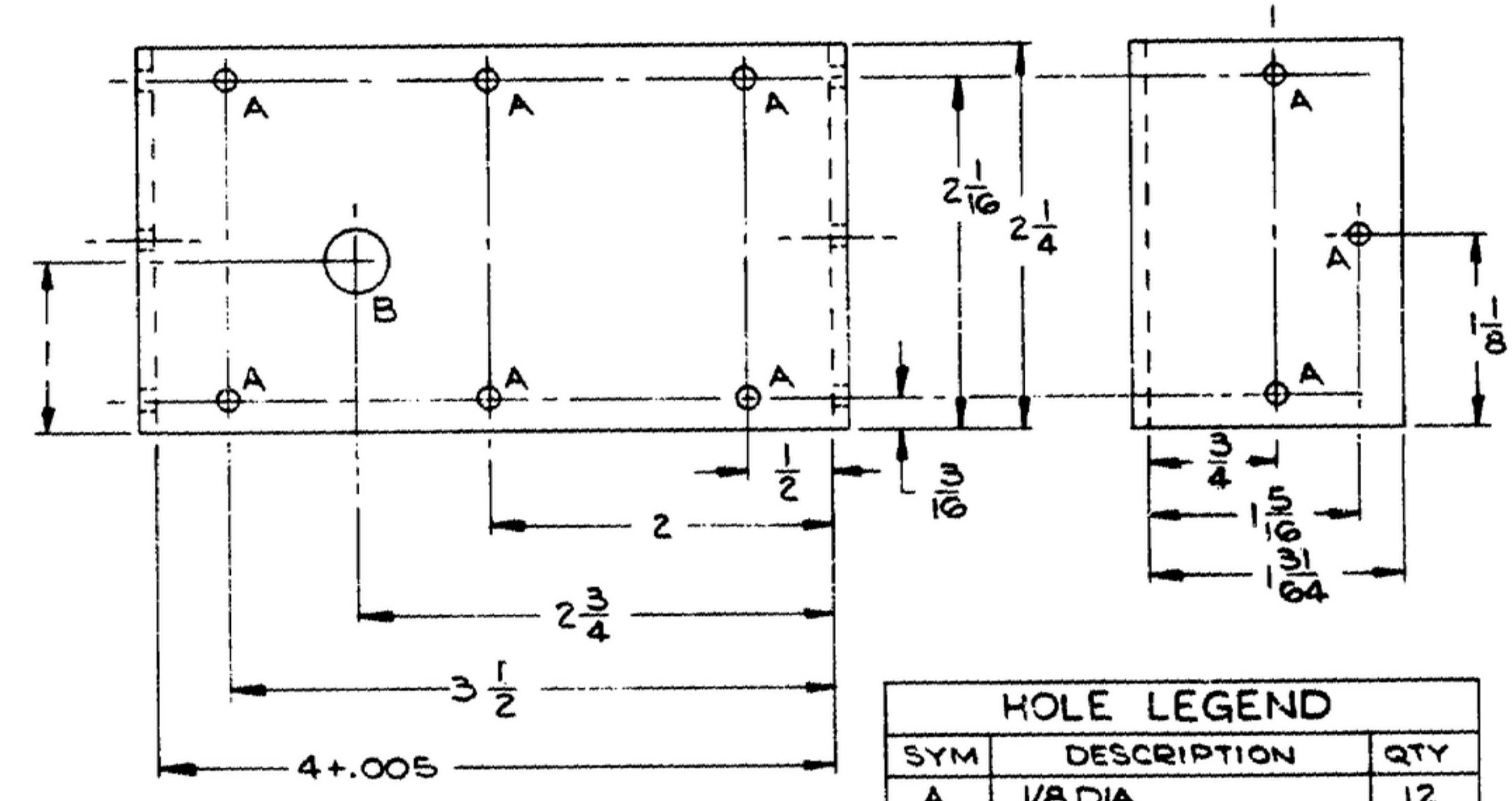
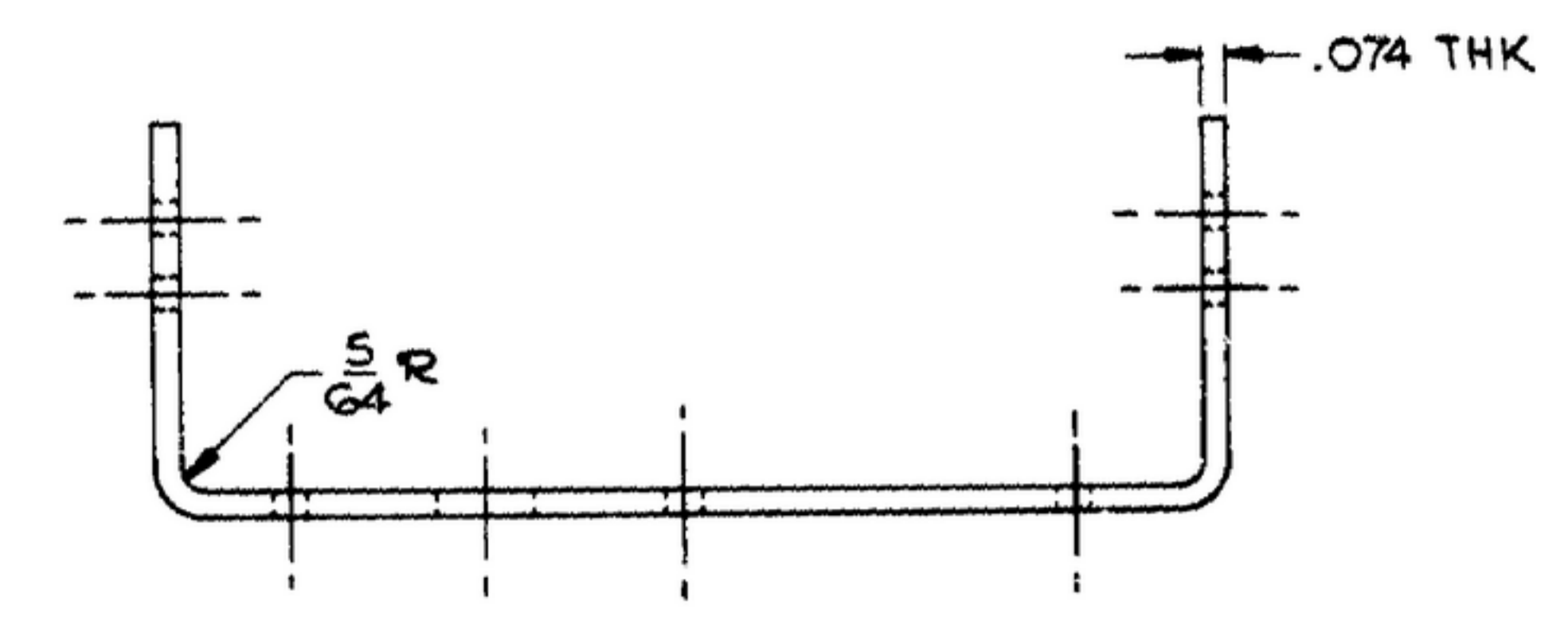
16 WASHER SCALE 4/1  
MATERIAL: NAVAL BRASS ROUND ROD, COMP 1,  
COND 1/2 HARD PER SPEC QQ-B-636.



HOLE LEGEND		
SYM	DESCRIPTION	QTY
A	.1885 DIA THRU	1
B	4-40 NF THD 3/8 DEEP	3
C	6-32 NF THD 1/2 DEEP	2



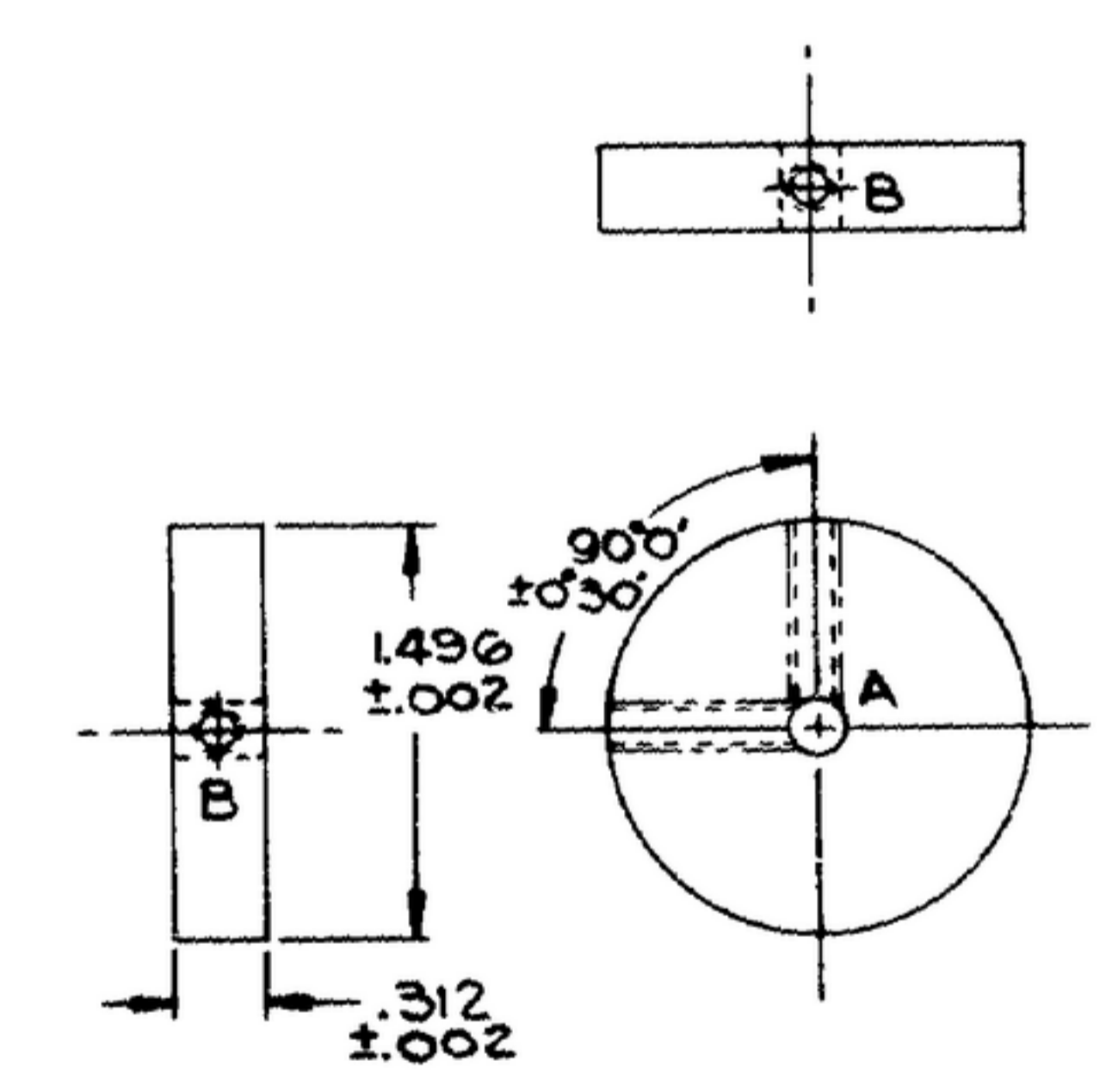
20 SUPPORT SCALE 2/1  
MATERIAL: STL CARBON, C.R. COND NO. 3, REG BRIGHT  
FIN. NO. 2 EDGE PER SPEC QQ-S-636.  
FINISH: CAD PL TYPE II, CL 1,  
PER SPEC QQ-P-416.  
MACHINE ALL SURFACES.



HOLE LEGEND		
SYM	DESCRIPTION	QTY
A	1/8 DIA	12
B	3/8 DIA	1

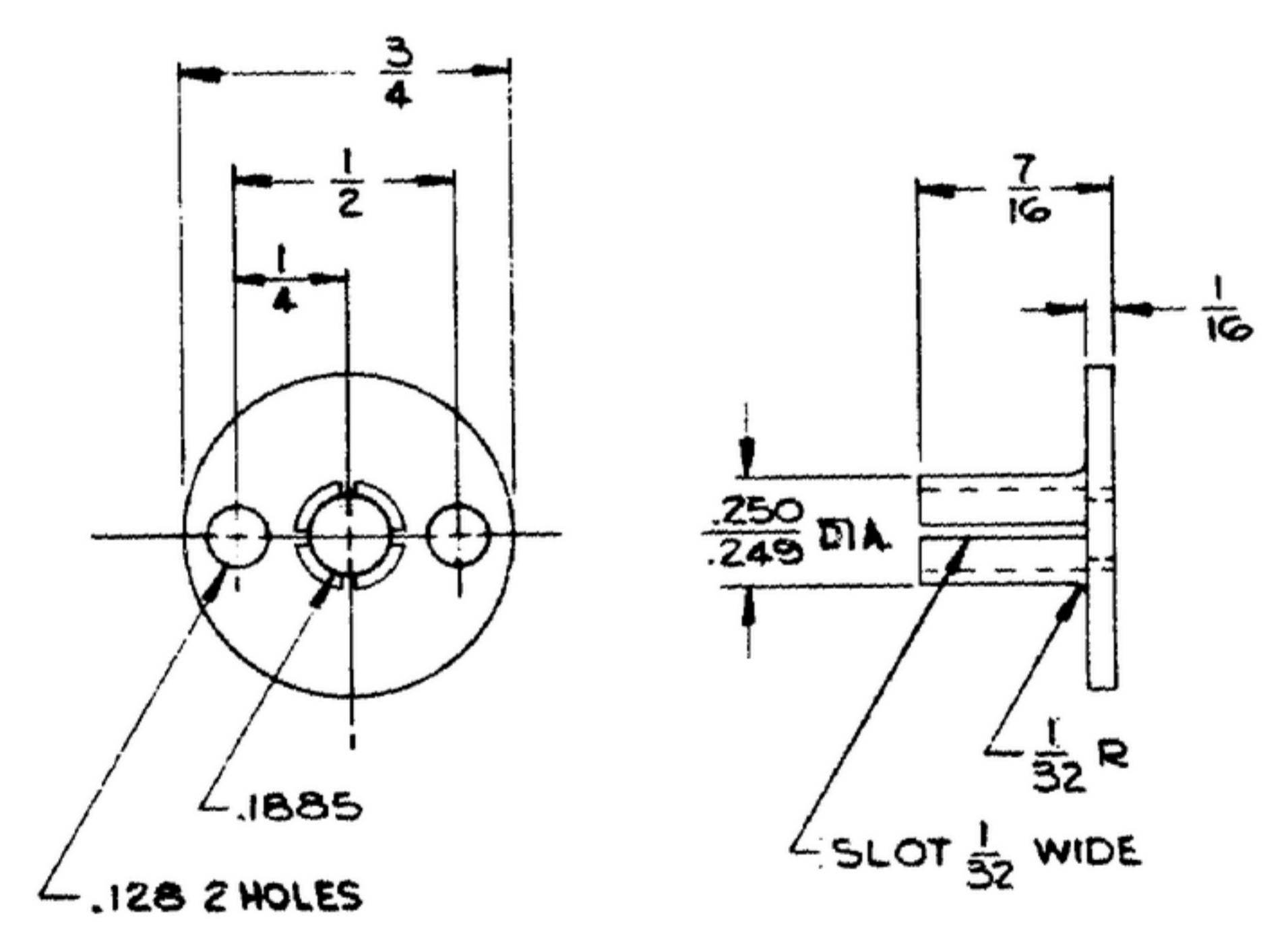
5 COVER SCALE 1/1  
MATERIAL: STL CARBON, C.R. COND NO. 3, REG BRIGHT  
FIN. NO. 2 EDGE PER SPEC QQ-S-636.  
FINISH: CAD PL TYPE II, CL 1,  
PER SPEC QQ-P-416.

NOTES:  
18. PARTS TO BE CLEAN & FREE OF BURRS, CHIPS, CRACKS & SHARP EDGES.  
19. SCREW THREADS ARE PER FED. SERV HANDBK H-28.

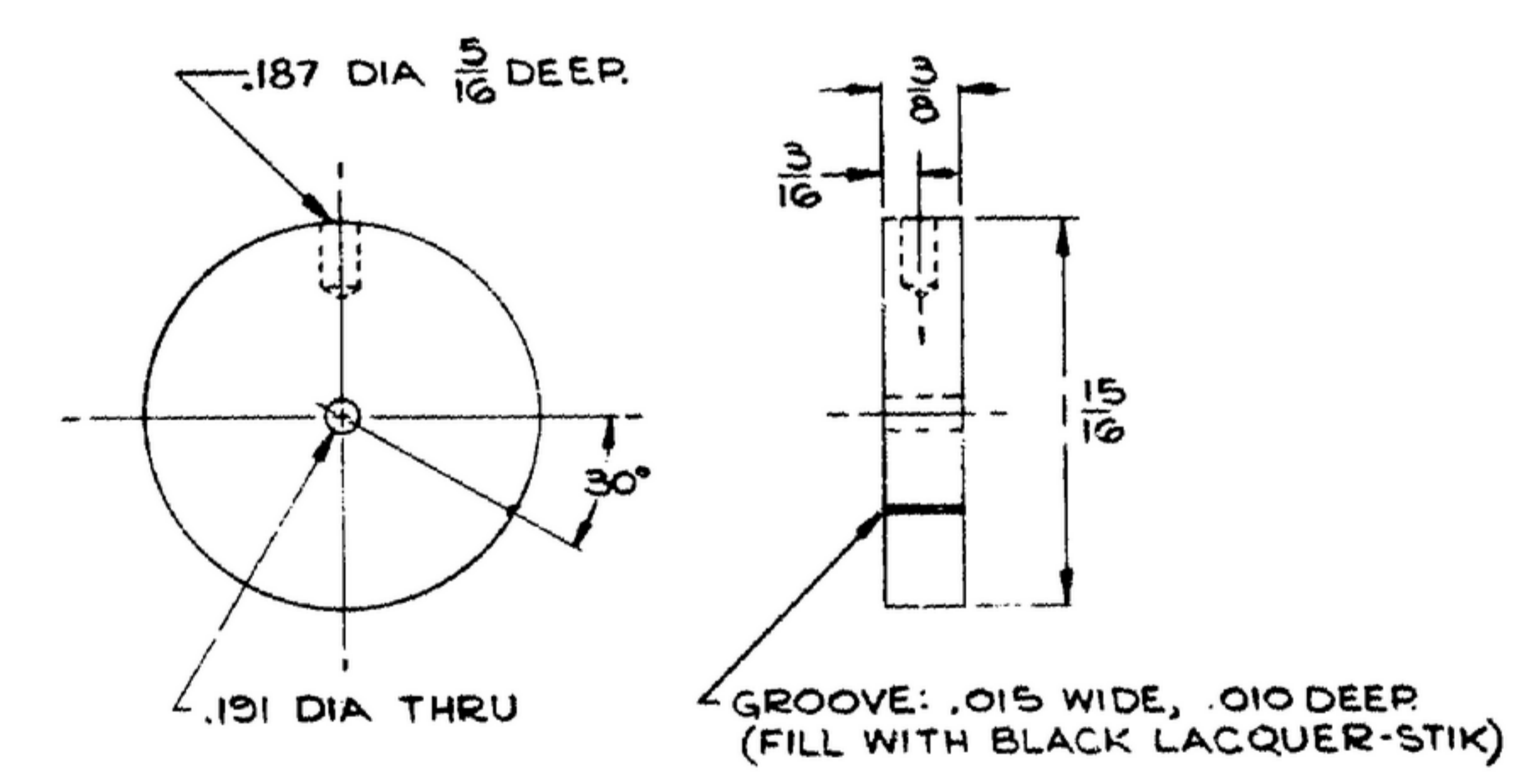


HOLE LEGEND		
SYM	DESCRIPTION	QTY
A	.183 DIA THRU	1
B	6-32 THD TO CENTER	2

22 SPACER SCALE 1/1  
MATERIAL: LINEN BAKELITE



17 COLLAR SCALE 2/1  
MATERIAL: CRES COMP 3035, PHYS COND A, SURFACE COND B,  
PER SPEC MIL-S-1720  
FINISH: PASS. PER SPEC MIL-S-5002



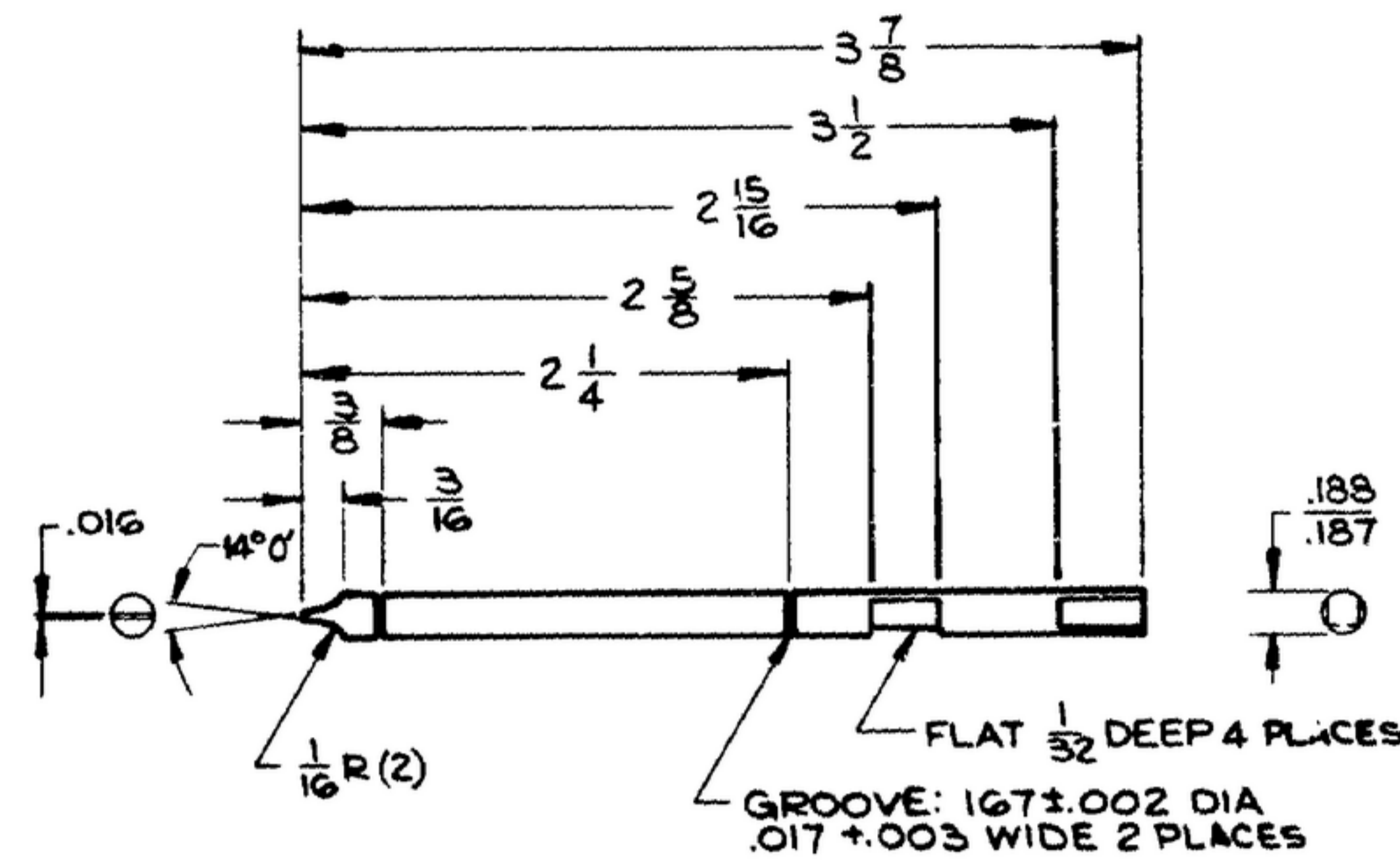
23 DIAL SCALE 1/1  
MATERIAL: AL ALLOY 2024, TEMPER T36 PER SPEC QQ-A-355.  
FINISH: ANODIZE PER SPEC MIL-A-8625.

REQD	PART NO.	DESCRIPTION	MATL.	MATL SPEC
		SEE TABLE FOR PART NO	LIST OF MATERIAL	
UNLESS OTHERWISE SPECIFIED		MOTOROLA INC.		
DIMENSIONS ARE IN INCHES		ORDER NO. M355-PC-58-A1		
TOLERANCES ON FRACTIONS DECIMALS ANGLES		SIGNAL CORPS		
+1/64 ±.005 ±1°		REVIEWED XXX		
DRAWN E.D.H.		APPROVED		
DATE 28 JULY 58		DATE 28 JULY 58		
CHECKED W.J.P. 14 JAN 59		SHEET 5 OF 8 SHEETS		
NEXT ASSY USED ON		APPLICATION		
DATE 28 JULY 58		DATE 28 JULY 58		
APPROVED		WHEN REFERRING TO THIS DRAWING STATE DRAWING NO., APPLICABLE ISSUE SYMBOL, IF ANY, AND DATE.		

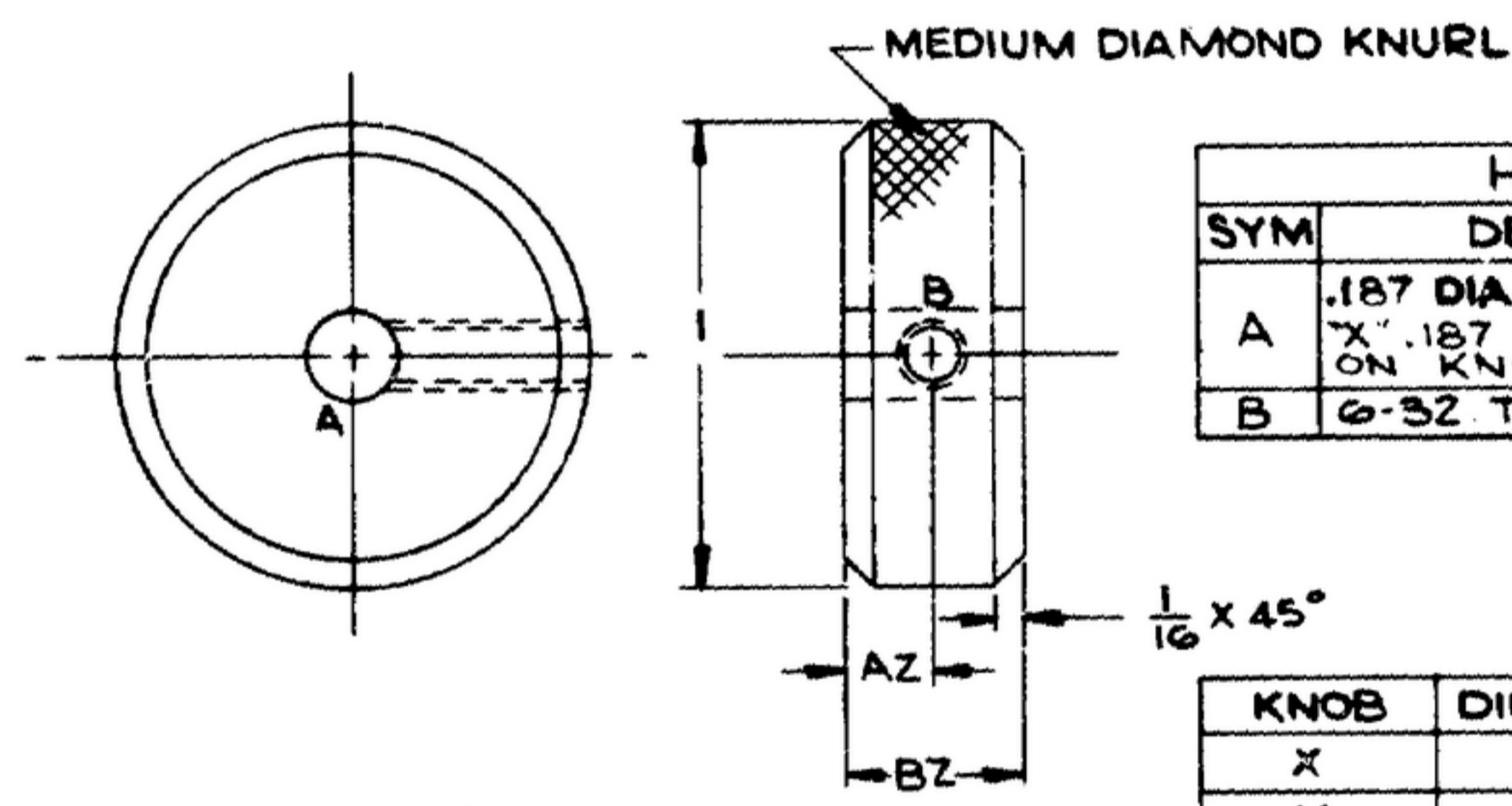
C-3386-D-1029

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE TO BE HOLD TO THE CLOSEST TOLERANCE PER MIL-STD-19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INTERPRETATION OF ALL DIMENSIONS AND TOLERANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INTERPRETATION OF ALL DIMENSIONS AND TOLERANCES.

FOR INFORMATION ONLY, CONTRACTOR MAY AT HIS OPTION DEVIATE FROM THESE PROCESS DETAILS.



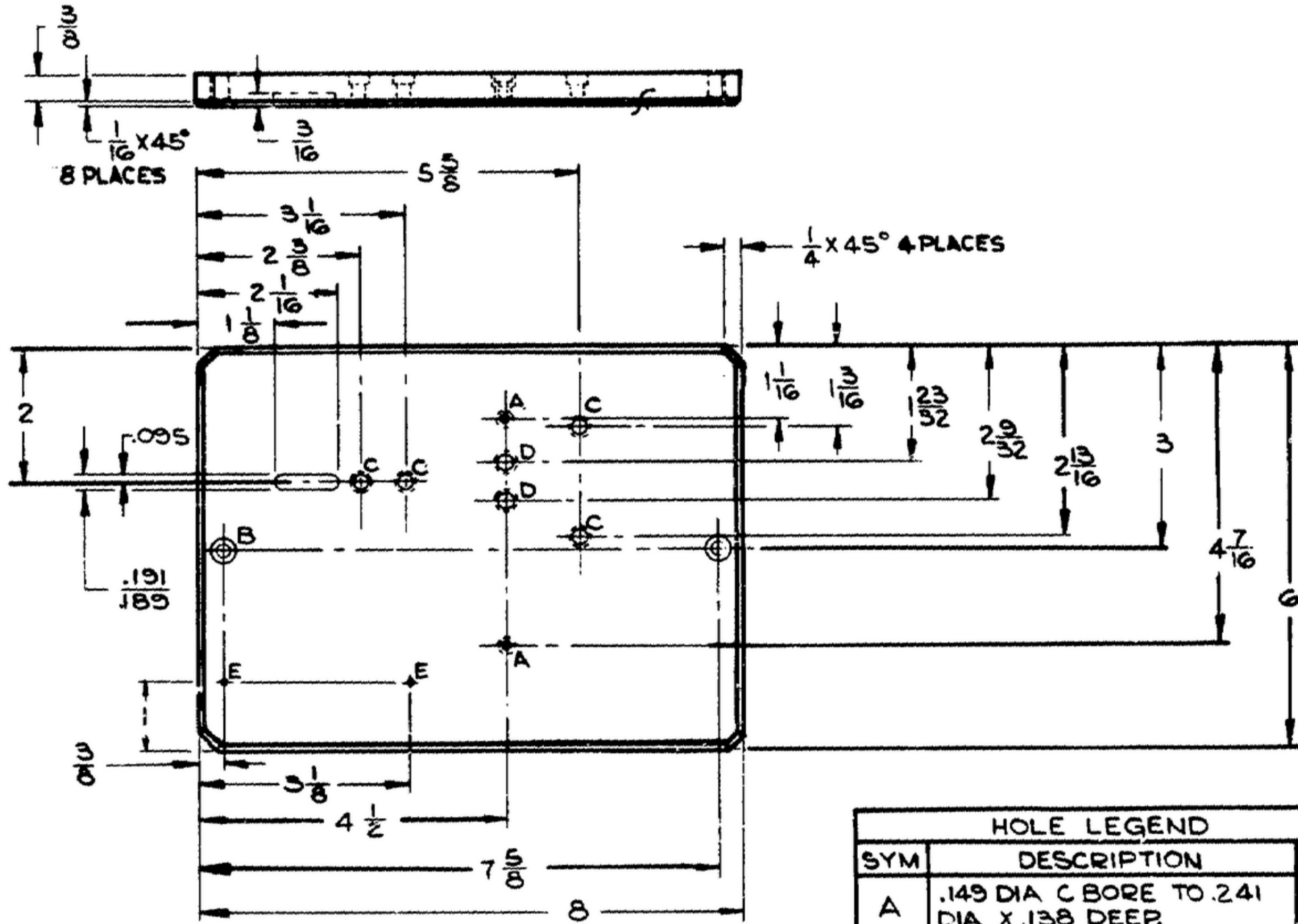
(15) SHAFT SCALE 1/1  
 MATL: CRES COMP 303S, PHYS COND A SURFACE COND F PER SPEC MIL-S-7720  
 FINISH: PASS. PER SPEC MIL-S-5002



(3) KNOB SCALE 2/1  
 MATL: AL ALLOY 2024, TEMPER T36 PER SPEC QQ-A-366  
 FINISH: ANODIZE TYPE I PER SPEC MIL-A-8625.

HOLE LEGEND		
SYM	DESCRIPTION	QTY
A	.187 DIA THRU ON KNOB ON X-Y	1
B	6-32 THD 1/2 DEEP	1

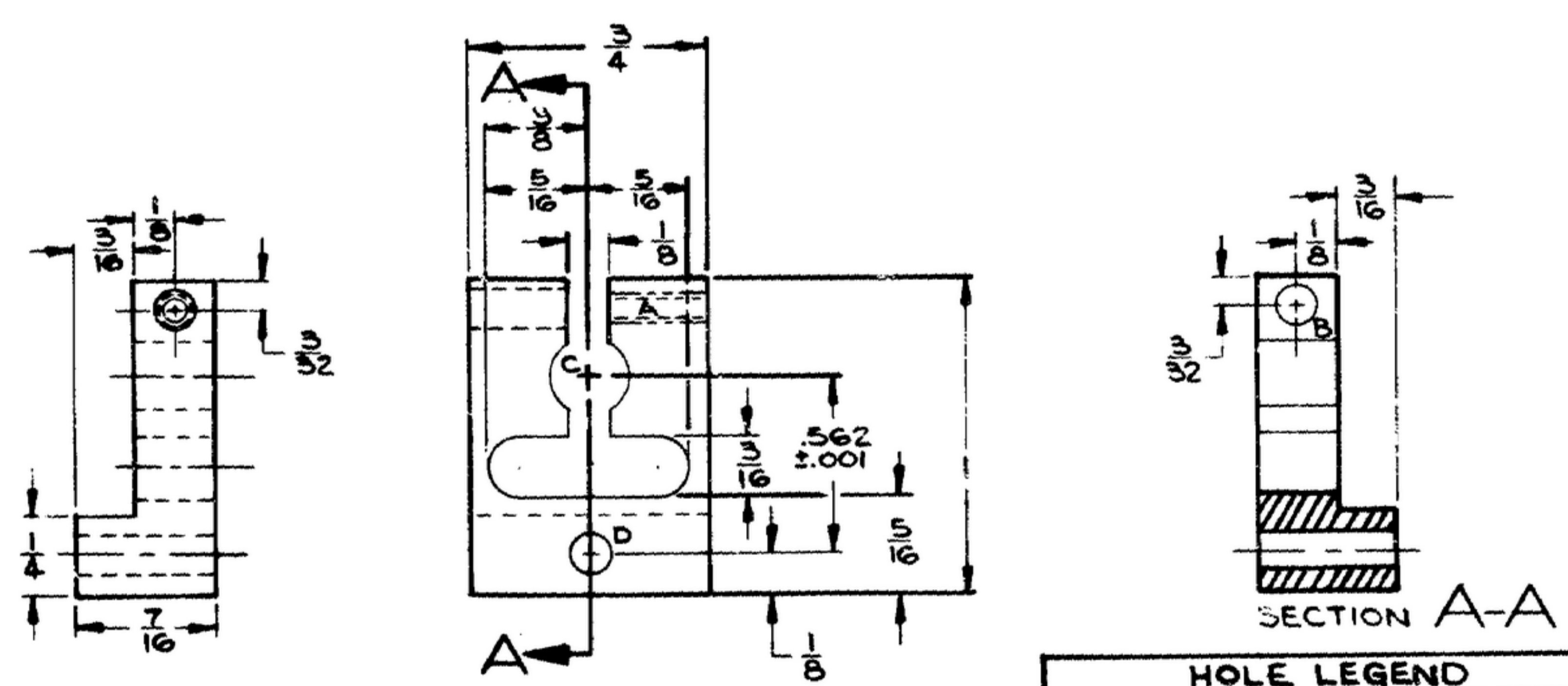
KNOB	DIM "AZ"	DIM "BZ"
X	3/16	3/8
Y	1/4	1/2



(12) BASE SCALE 1/2  
 MATL: STL, CARBON, CR COND NO. 3, REG BRIGHT FIN, HQ2 EDGE PER SPEC QQ-S-636  
 FINISH: CAD PL TYPE II CLASS I PER SPEC QQ-P-416.

HOLE LEGEND		
SYM	DESCRIPTION	QTY
A	.149 DIA C BORE TO .241 DIA X .138 DEEP	2
B	.180 DIA 45° CSK @ 82° TO .100 DIA.	2
C	.180 DIA C BORE TO .280 DIA X .164 DEEP	4
D	.201 DIA C BORE TO .327 DIA DEEP	2
E	.067 DIA THRU	2

NOTES:  
 20. PARTS TO BE CLEAN & FREE OF BURRS, CHIPS, CRACKS & SHARP EDGES.  
 21. SCREW THREADS ARE PER FED. SERV HANDBK H-28.



(18) CLAMP SCALE 2/1  
 MATL: CRES, CLASS 304, COND A, FIN, HQ4 PER SPEC QQ-S-00766  
 FINISH: CAD PL TYPE II, CL I PER SPEC QQ-P-416.

HOLE LEGEND		
SYM	DESCRIPTION	QTY
A	4-40 THD TO CENTER	1
B	1/8 DIA TO CENTER	1
C	.251 DIA THRU	1
D	.128 DIA	1

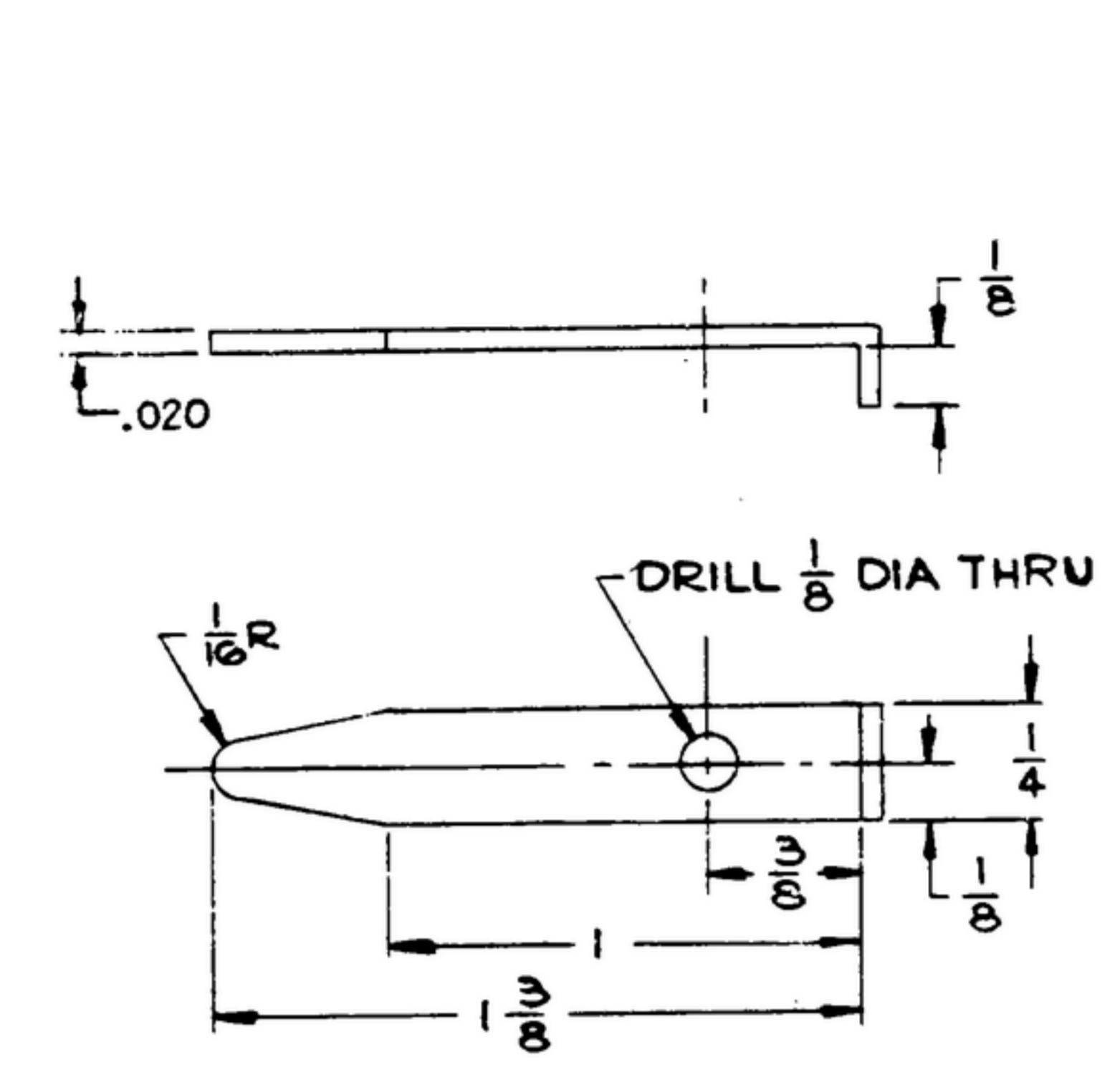
REQD	PART NO.	DESCRIPTION	MATL	MATL SPEC
SEE TABLE FOR PART NO		LIST OF MATERIAL		
TEST FIXTURE ASSEMBLY (B.F.C.)				
DEPARTMENT OF THE ARMY SIGNAL CORPS ENGINEERING LABORATORIES FORT MONMOUTH NEW JERSEY				
SM-D-58790 SHEET 6 OF 8 SHEETS				

UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES	
TOLERANCES ON FRACTIONS		DECIMALS ANGLES	
± 1/16		± .005 ± 0°30'	
DRAWN E.D.H		DATE 14 JULY 58	
CHECKED W.J.P. 14 JAN 59		DATE 14 JULY 58	
APPROVED [Signature]		DATE 14 JULY 58	

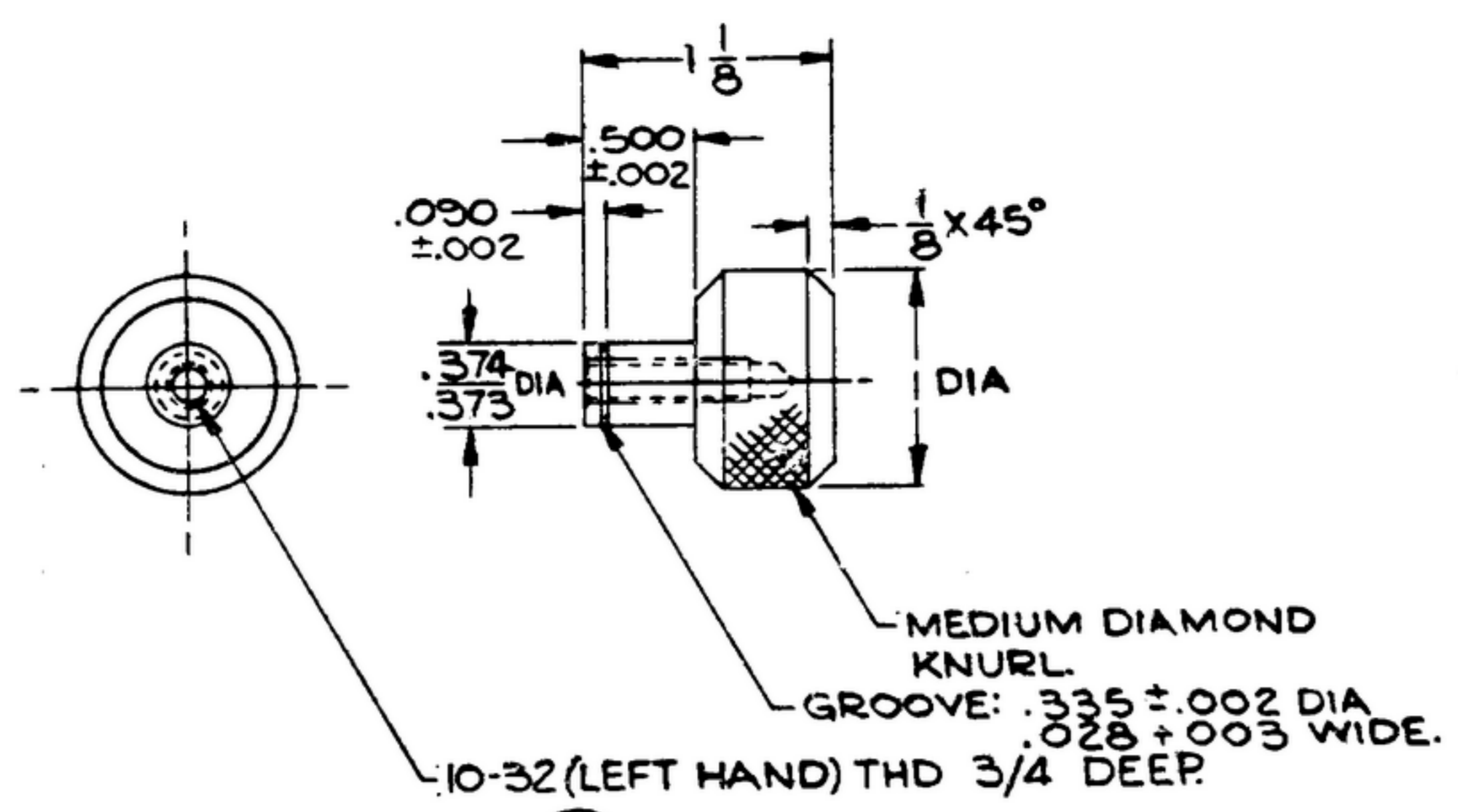
NEXT ASSY USED ON	SC-GL-51655
MOTOROLA APPL	APPLICATION

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND DECIMALS THEREOF. DIMENSIONS ARE TO BE TAKEN FROM THE UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO BE TAKEN FROM THE UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO BE TAKEN FROM THE UNLESS OTHERWISE SPECIFIED.

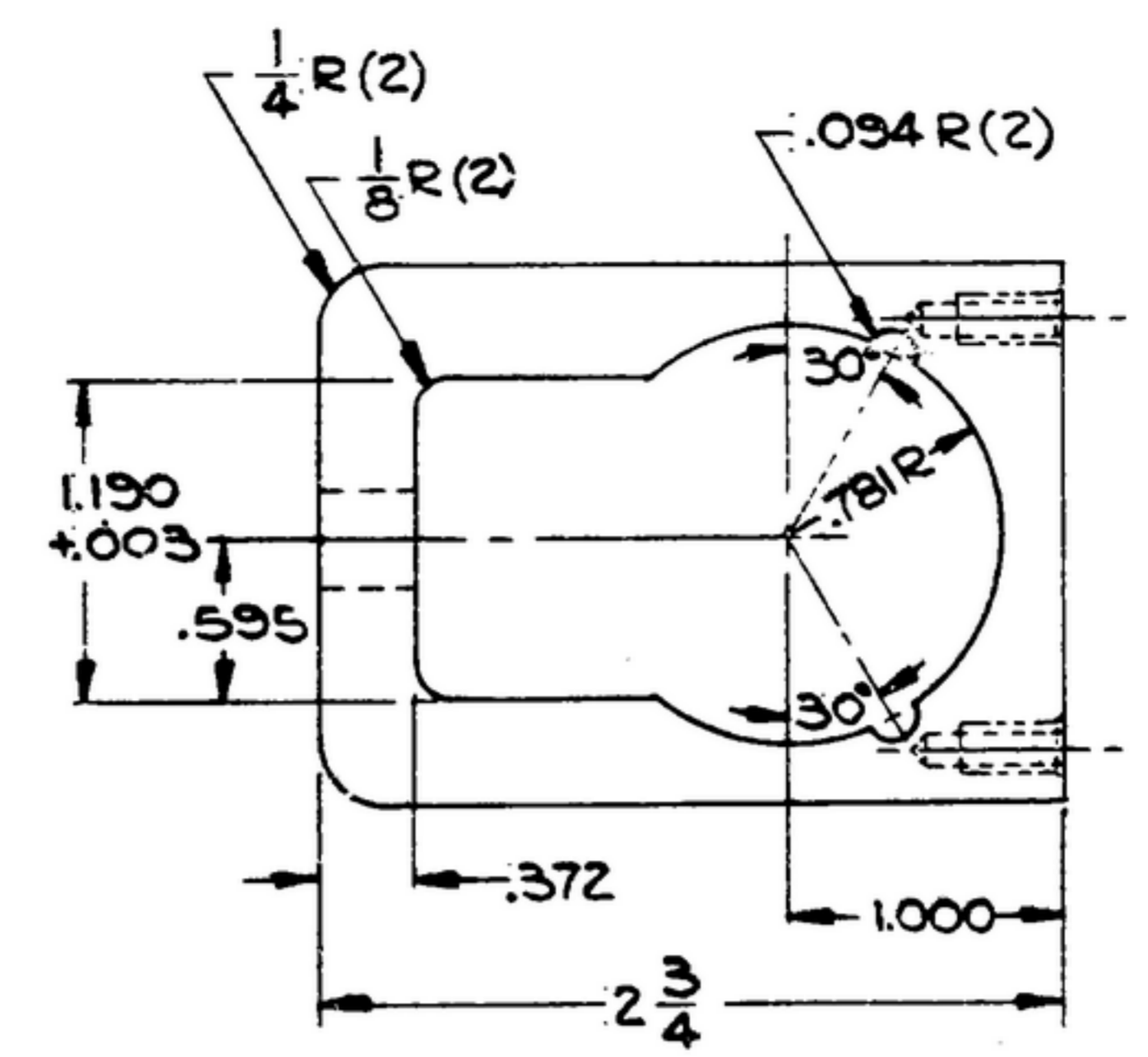
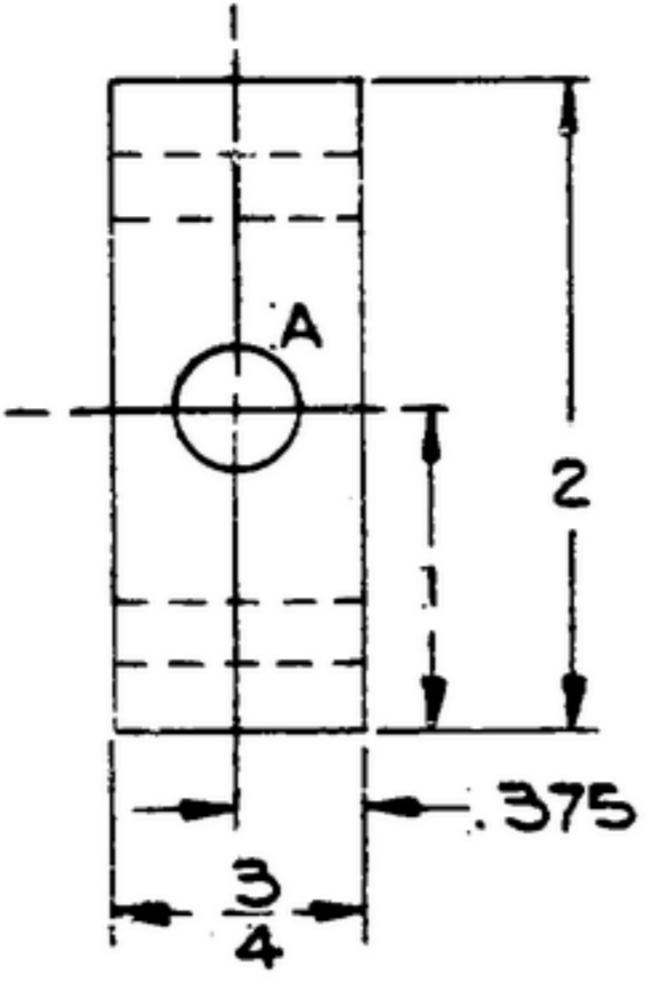
FOR INFORMATION ONLY, CONTRACTOR MAY AT HIS OPTION DEVIATE FROM THESE PROCESS DETAILS.



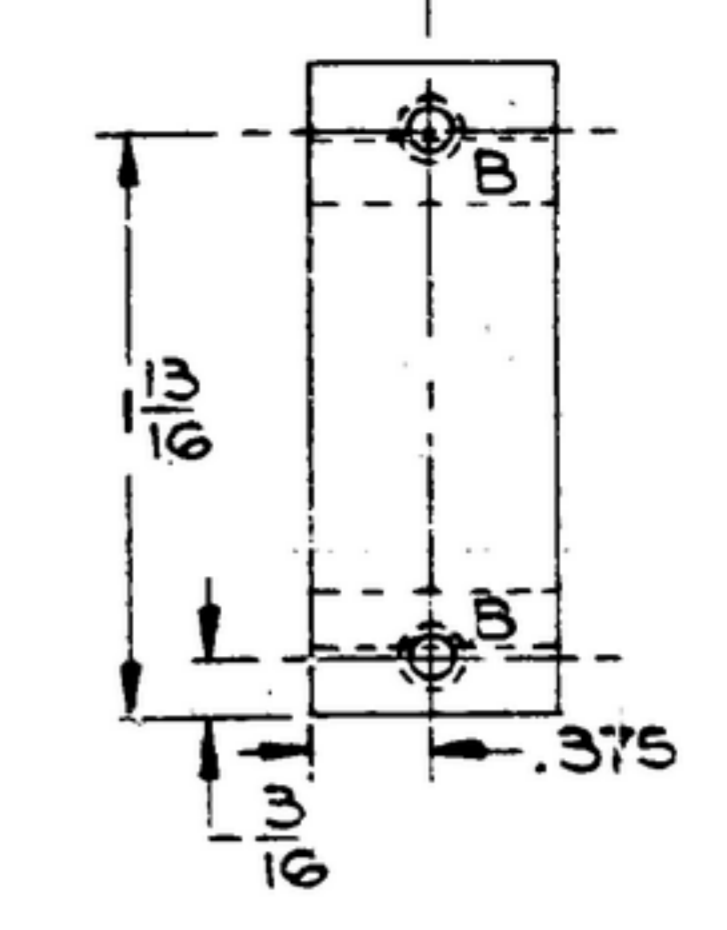
4 CONTACT SCALE 2/1  
MATL: PHOSPHOR BRONZE, COMPA  
PER SPEC QQ-P-330.



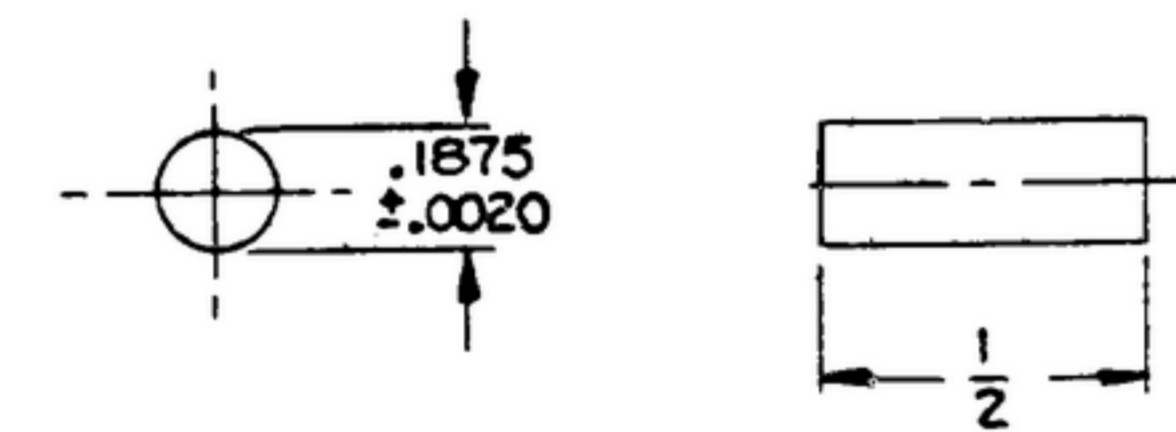
8 KNOB SCALE 1/1  
MATL: AL ALLOY 2024, TEMPER T36  
PER SPEC QQ-5-355.  
FINISH: ANODIZE PER SPEC MIL-A-8625.



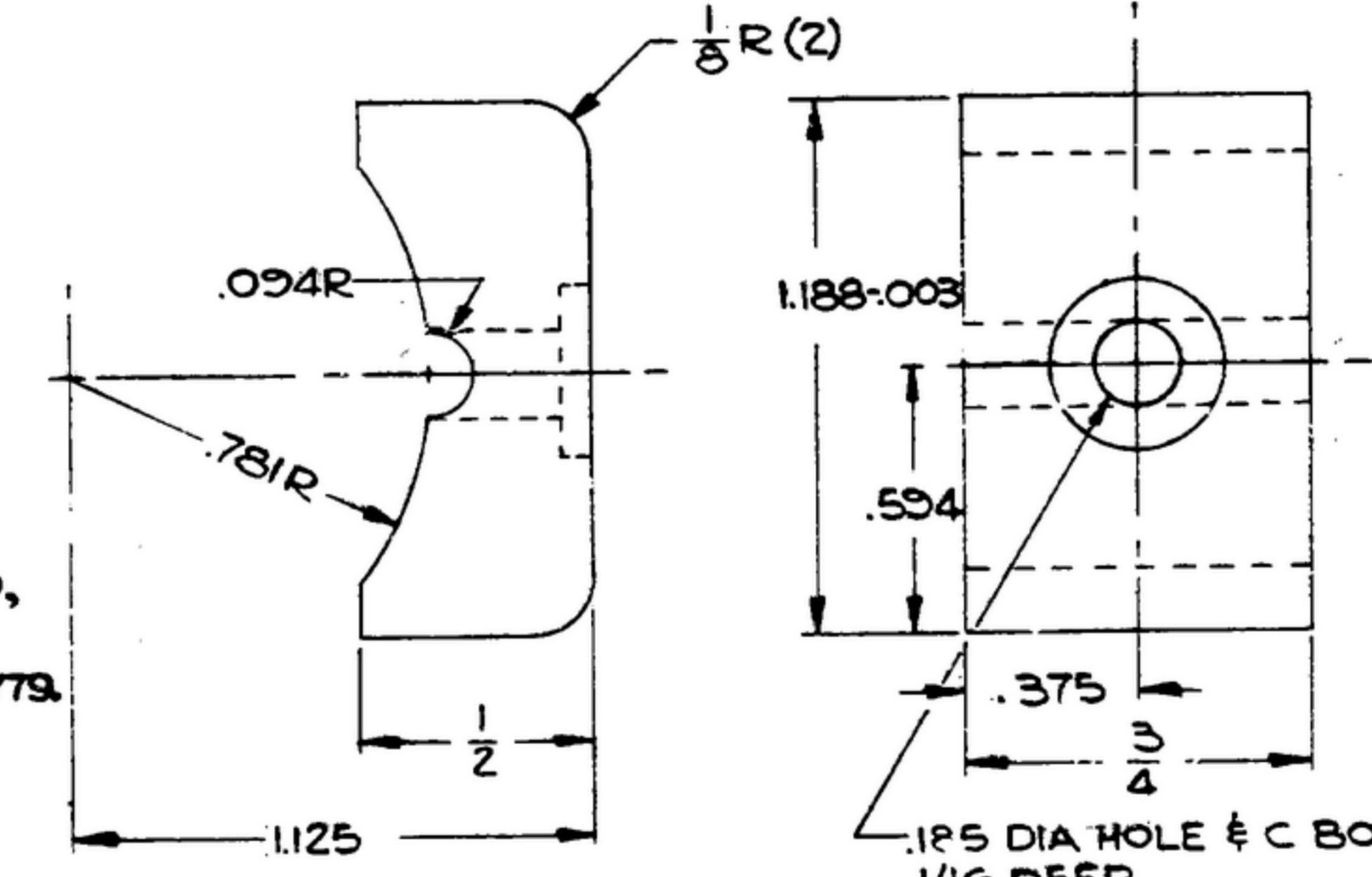
6 HOLDER SCALE 1/1  
MATL: LINEN BAKELITE



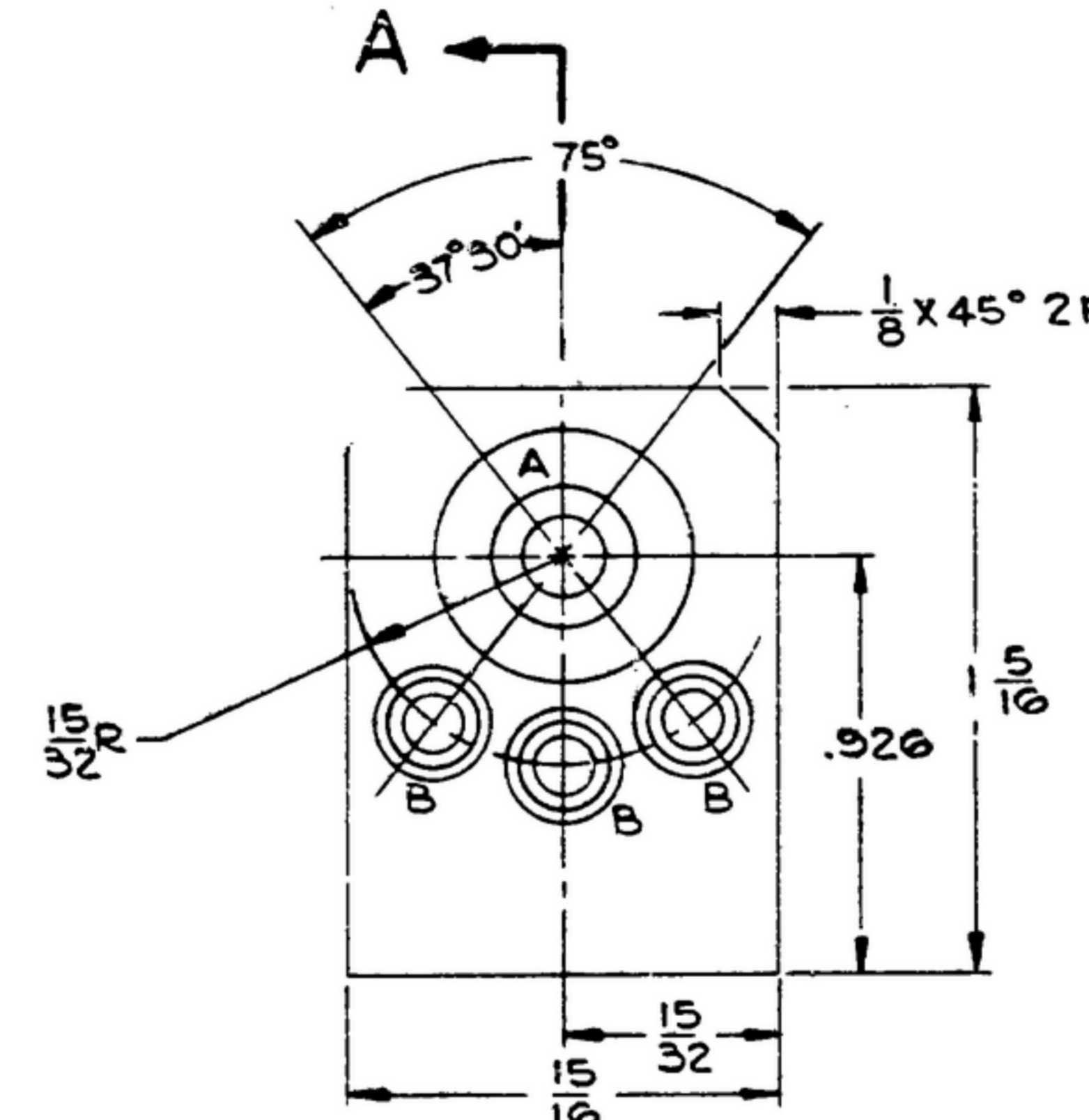
HOLE LEGEND		
SYM	DESCRIPTION	QTY
A	REAM .376 DIA	1
B	TAP 8-32 THD 3/8 DEEP	2



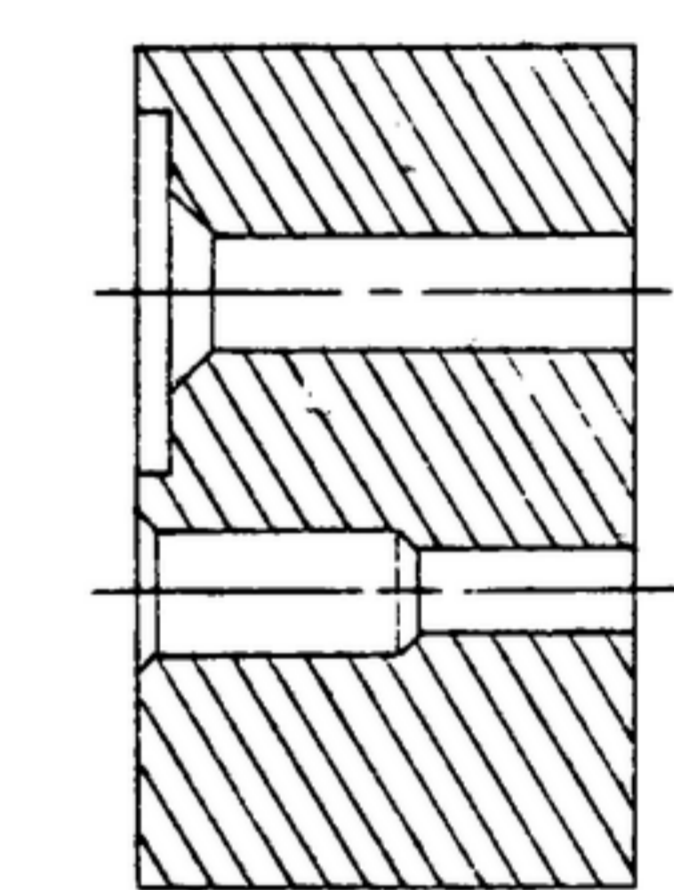
24 PIN SCALE 2/1  
MATL: TOOL STEEL GRADE 3, CL F5-WH0,  
FORM ROUND DRILL ROD, COND SA.  
FINISH: GRIND & POLISH PER SPEC QQ-5-00779.



7 CLAMP SCALE 2/1  
MATL: LINEN BAKELITE

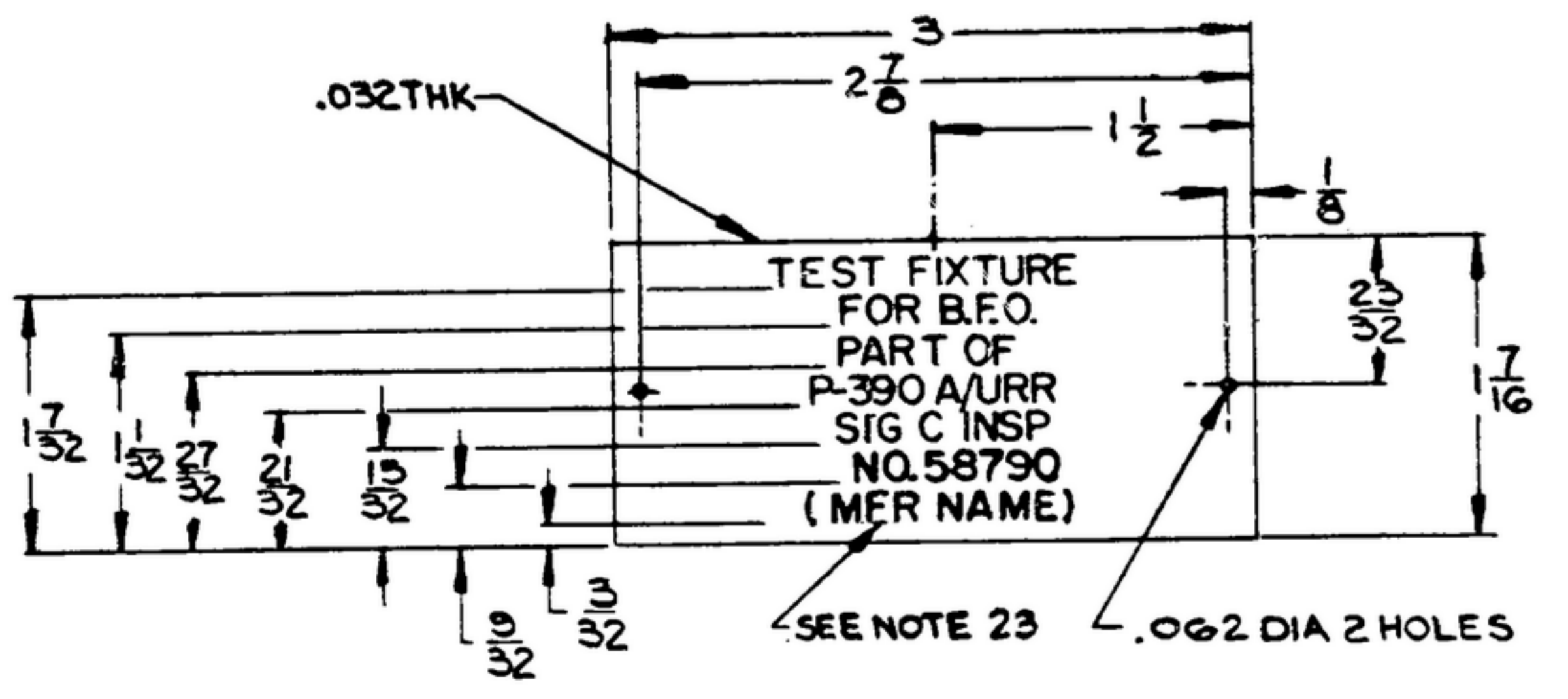


11 BLOCK SCALE 2/1  
MATL: TEFLON



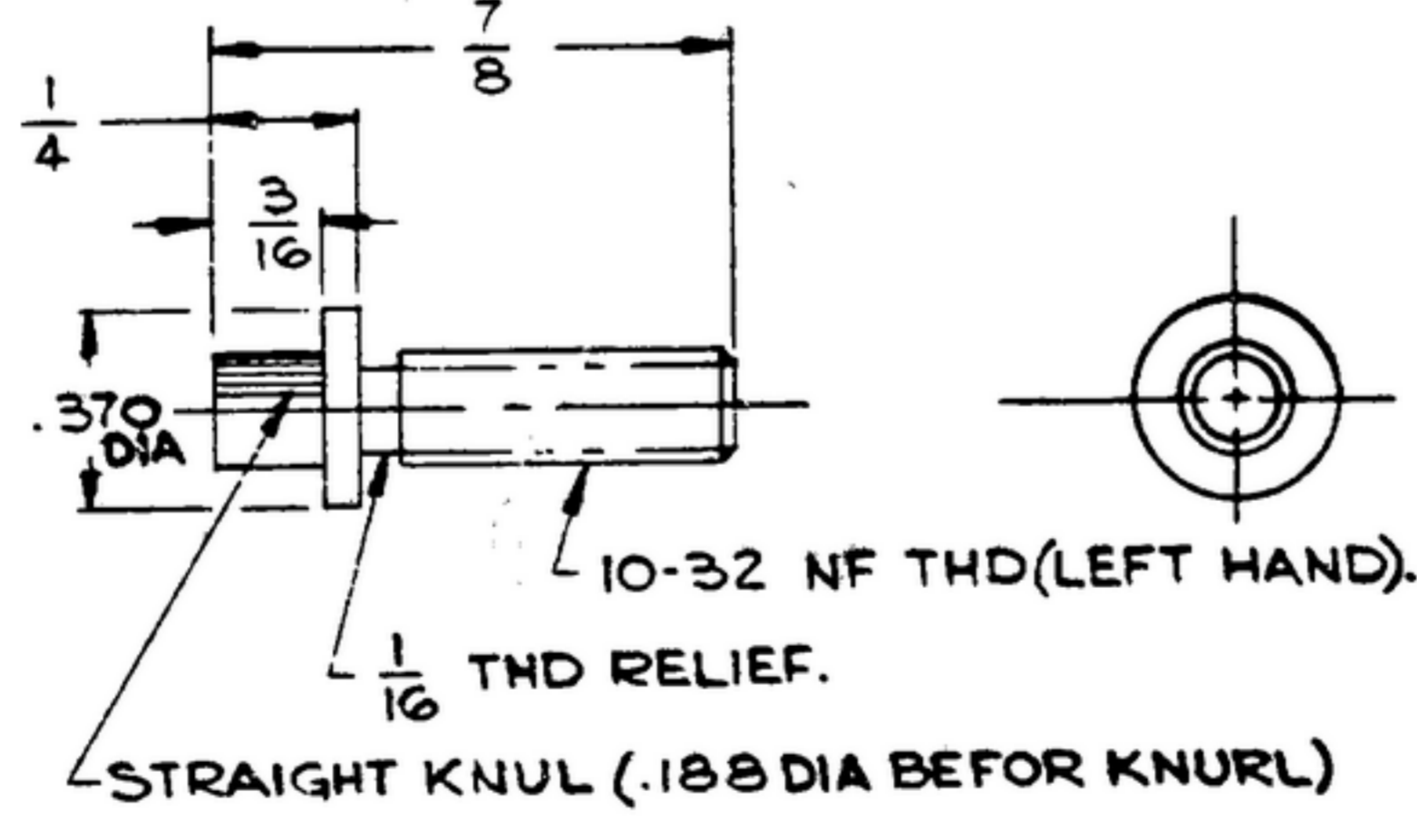
HOLE LEGEND		
SYM	DESCRIPTION	QTY
A	.196 DIA THRU; C BORE TO 5/16 DIA 3/64 DEEP; C SINK @ 90° TO 5/16 DEEP	1
B	.128 DIA THRU; .191 DIA 3/8 DEEP; C SINK 90° TO 1/4 DIA.	3
C	DRILL & TAP FOR 10-32 'HELICOIL' INSERT 3/8 DEEP	2

NOTES:  
22. PARTS TO BE CLEAN & FREE OF BURRS, CHIPS, CRACKS & SHARP EDGES.  
23. MFR NAME SHALL READ MOTOROLA INC. SIZE & LOCATION AS SHOWN.  
24. SCREW THREADS ARE PER FED. SERV HANDBK H-28.

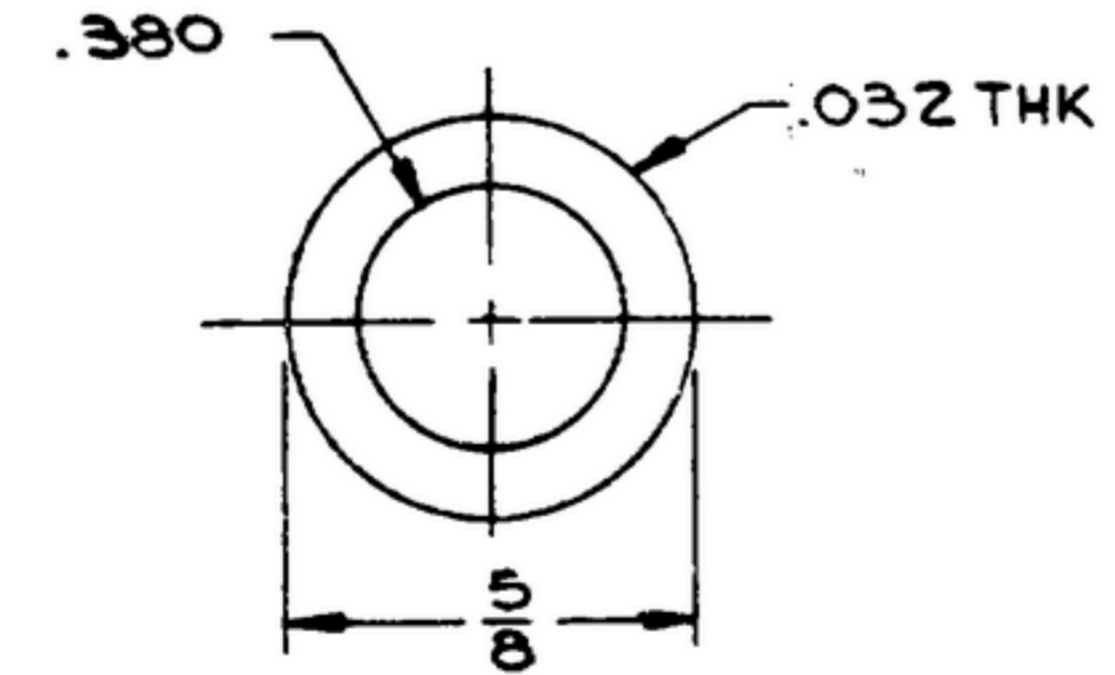


27 NAMEPLATE SCALE 1/1  
MATL: AL ALY 5052, TEMPER H-34 PER SPEC QQ-A-318.  
FINISH: ZINC PLATE CL 2, TYPE II PER SPEC QQ-Z-325.

METAL STAMP CHARACTERS IN VERTICAL GOTHIC STYLE, 1/8 HIGH CHARACTERS, SPACED AND CENTERED AS SHOWN. AFTER FINISH HAS DRIED FILL CHARACTERS WITH PS11B, PER SPEC MIL-F-14072.



10 SCREW SCALE 2/1  
MATL: CRESS COMP 3035, PHYS CONDA, SURFACE COND F PER SPEC MIL-S-7720.  
FINISH: CAD PL TYPE II, CL I PER SPEC QQ-P-416.



9 WASHER SCALE 2/1  
MATL: NAVAL BRASS, ROUND ROD, COMP 1, COND 1/2 HARD PER SPEC QQ-B-636.

RRD	PART NO.	DESCRIPTION	MATL	MATL SPEC
SEE TABLE FOR PART NO. LIST OF MATERIAL				

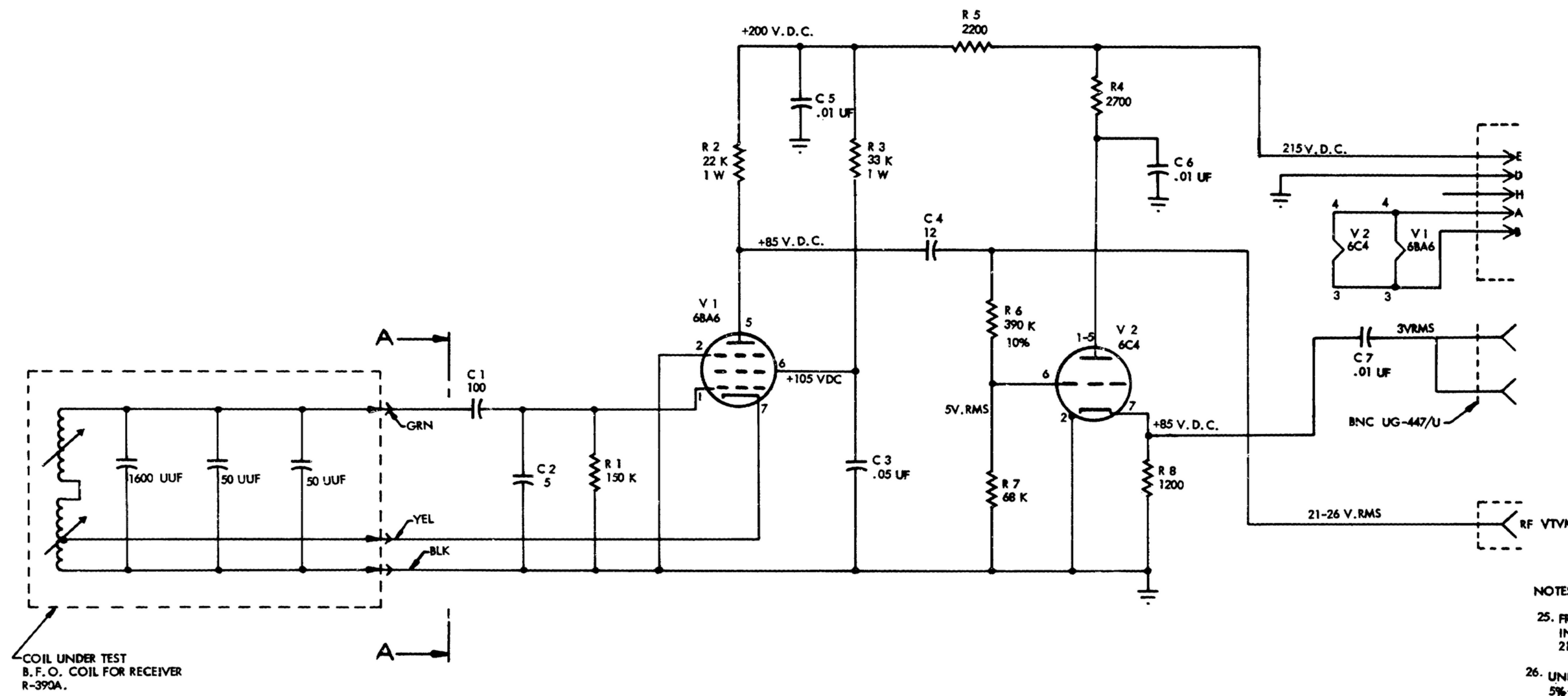
UNLESS OTHERWISE SPECIFIED		DIMENSIONS ARE IN INCHES		TOLERANCES ON		ANGLES		MOTOROLA INC.	
FRACTIONS	DECIMALS	± 1/64	± .005	± 1°	ORDER NO.	14385-FC-58-A1	SIGNAL CORPS	DEPARTMENT OF THE ARMY	
DRAWN E.D.H.		DATE 25 JULY 58		REVIEWED XXX		A-PROVED		SIGNAL CORPS	
NEXT ASSY USED ON		NEXT ASSY USED ON		CHECKED W.J.P. 14 JAN 59		DATE 25 JULY 58		SM-D-58790	
MOTOROLA APPL		APPLICATION		APPROVED C.H. 14 JAN 59		DATE 25 JULY 58		SHEET 7 OF 8 SHEETS	

VERIFY THESE DIMENSIONS, SPECIFICATIONS, OR OTHER DATA ARE SHOWN FOR ANY PARTS LISTED IN THIS DRAWING WITH A SUPPLEMENTAL QUALITY ASSURANCE PROCEDURE. THE QUALITY ASSURANCE PROCEDURE MUST BE APPROVED BY THE QUALITY ASSURANCE OFFICER. THE QUALITY ASSURANCE PROCEDURE MUST BE APPROVED BY THE QUALITY ASSURANCE OFFICER. THE QUALITY ASSURANCE PROCEDURE MUST BE APPROVED BY THE QUALITY ASSURANCE OFFICER.

THIS PROCEDURE AND DATA REQUIREMENTS BY THE APPROVED QUALITY ASSURANCE OFFICER. THIS PROCEDURE AND DATA REQUIREMENTS BY THE APPROVED QUALITY ASSURANCE OFFICER. THIS PROCEDURE AND DATA REQUIREMENTS BY THE APPROVED QUALITY ASSURANCE OFFICER.

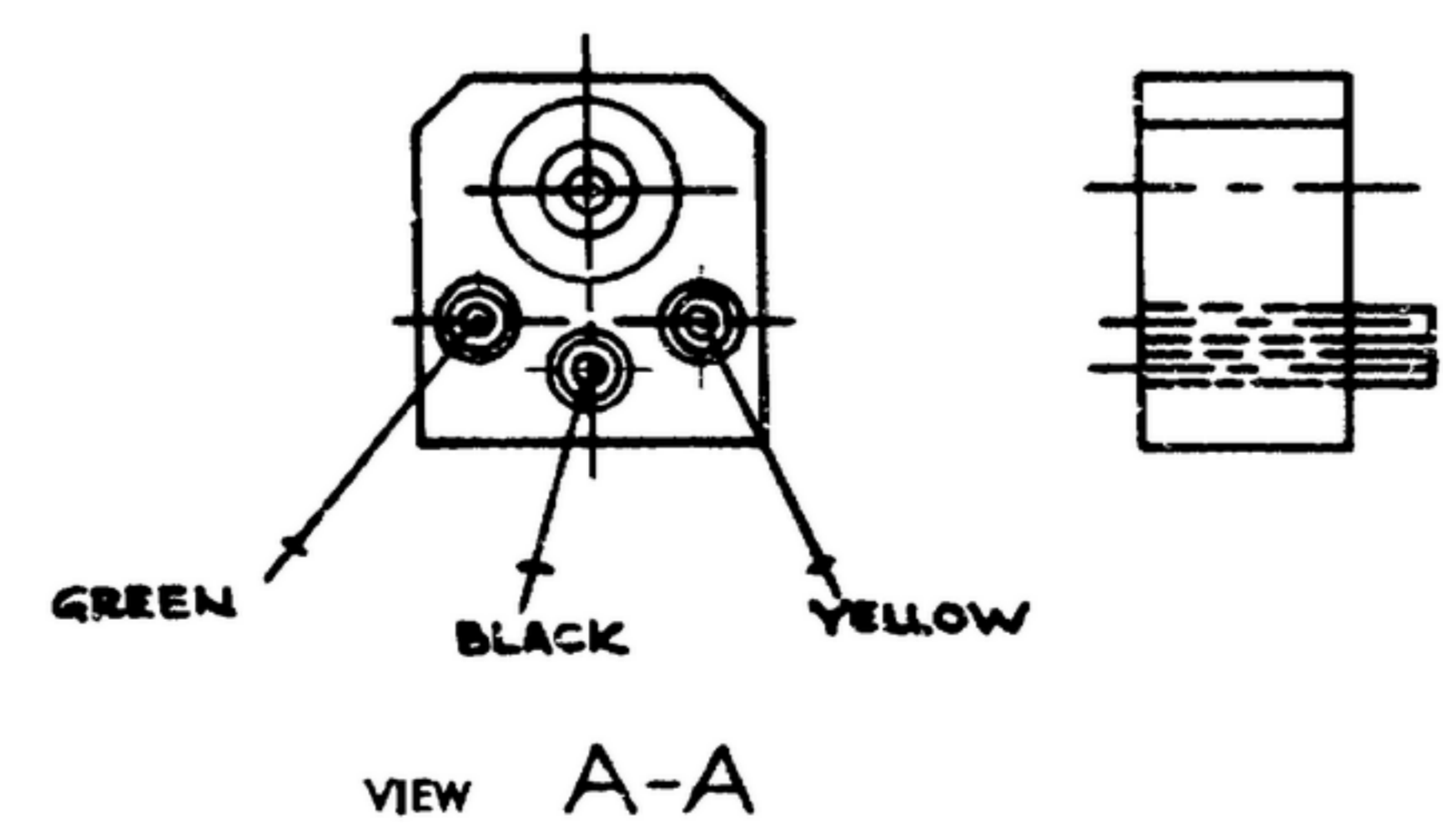
FOR INFORMATION ONLY, CONTRACTOR MAY AT HIS OPTION DEVIATE FROM THESE PROCESS DETAILS.

REV	DESCRIPTION	DATE	APPROVAL
ORIG SYM 183 A	REVISIONS	17 OCT 58	



- NOTES:
- 25. FREQUENCY RANGE: 436.5 KC TO 465.7 KC OUTPUT VOLTAGE THRU INDICATED FREQUENCY RANGE 3.0 V RMS POWER REQUIRED: 215 V. D.C. 13 MA; 6.3 V. A.C. 450 MA. OUTPUT IMPEDENACE; 3500
  - 26. UNLESS OTHERWISE SHOWN, RESISTORS ARE IN OHMS, 1/2 W, 5%; CAPACITORS ARE IN UUF; INDUCTORS ARE IN UH.

SCHEMATIC FOR B.F.O. TEST FIXTURE



RECD	PART NO.	DESCRIPTION	MATL	MATL SPEC
SEE TABLE FOR PART NO. LIST OF MATERIAL				
UNLESS OTHERWISE SPECIFIED		MOTOROLA INC.		
DIMENSIONS ARE IN INCHES		ORDER NO. 4885-PC-60-A1		
TOLERANCES ON FRACTIONS DECIMALS ANGLES		SIGNAL CORPS		
± 1/4 ± .005 20°30'		REVIEWED XXX		
DRAWN E.D.H.		APPROVED		
DATE 1 Aug 58		DATE 1 Aug 58		
NEXT ASSY USED ON		CHECKED V.J.P. 14 JUNE 58		
NEXT ASSY USED ON		APPROVED (signature) DATE 1 Aug 58		
MOTOROLA APPL		APPLICATION		
TEST FIXTURE ASSEMBLY (B.F.O.)		DEPARTMENT OF THE ARMY SIGNAL CORPS ENGINEERING LABORATORIES FORT MONMOUTH NEW JERSEY		
SM-D-58790		SHEET 80FB SHEETS		

C-3386-D-1004