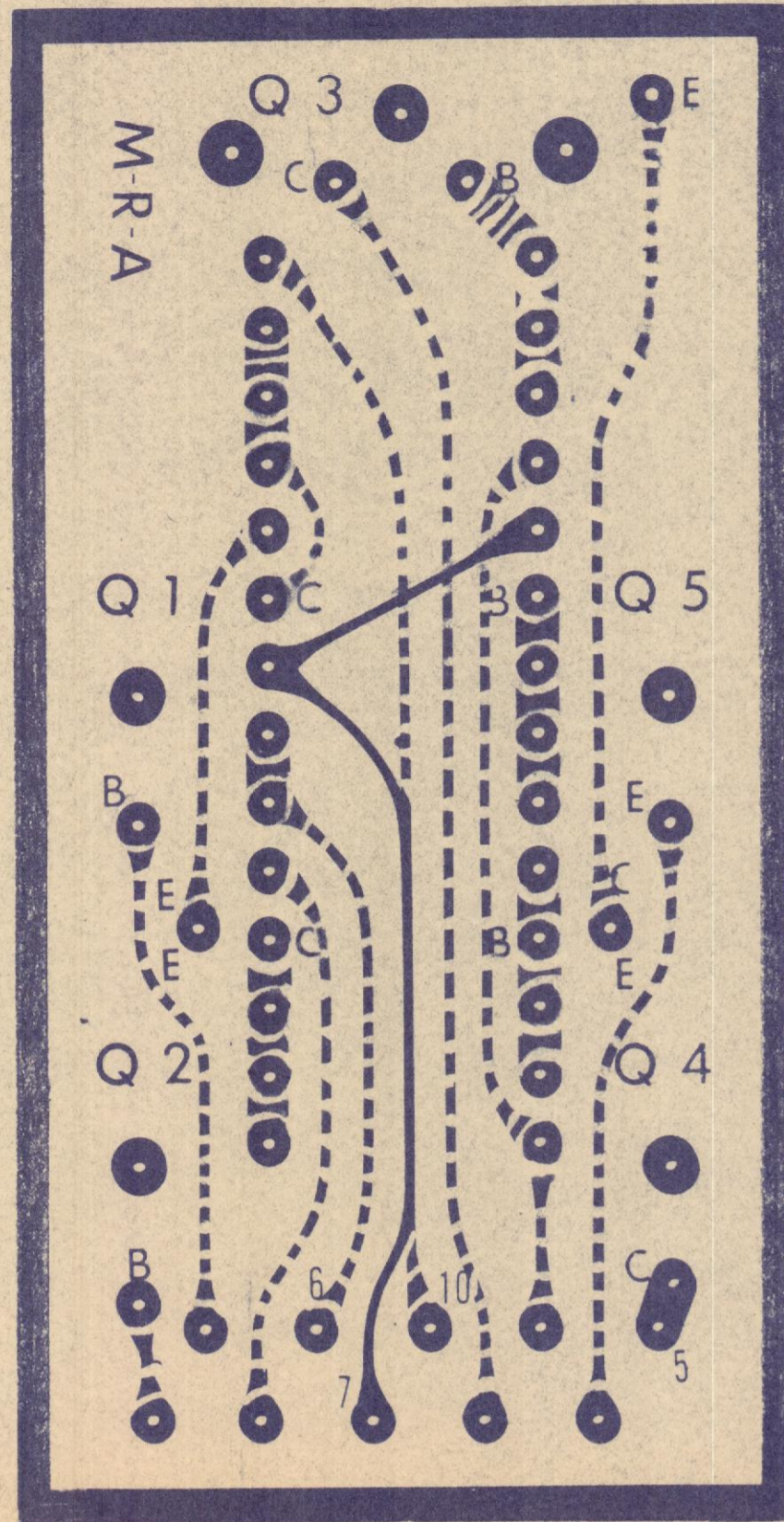
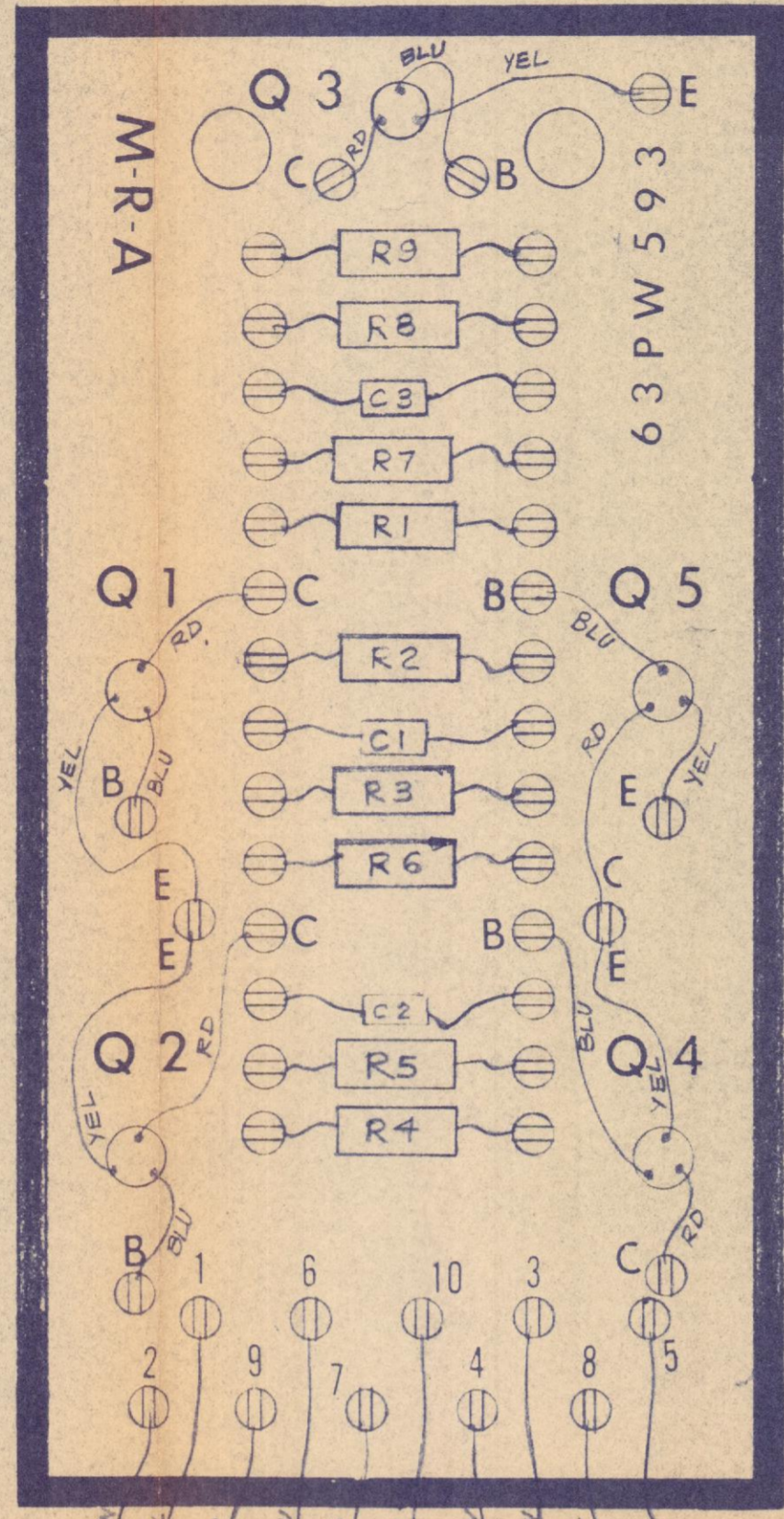


COMPOSITE

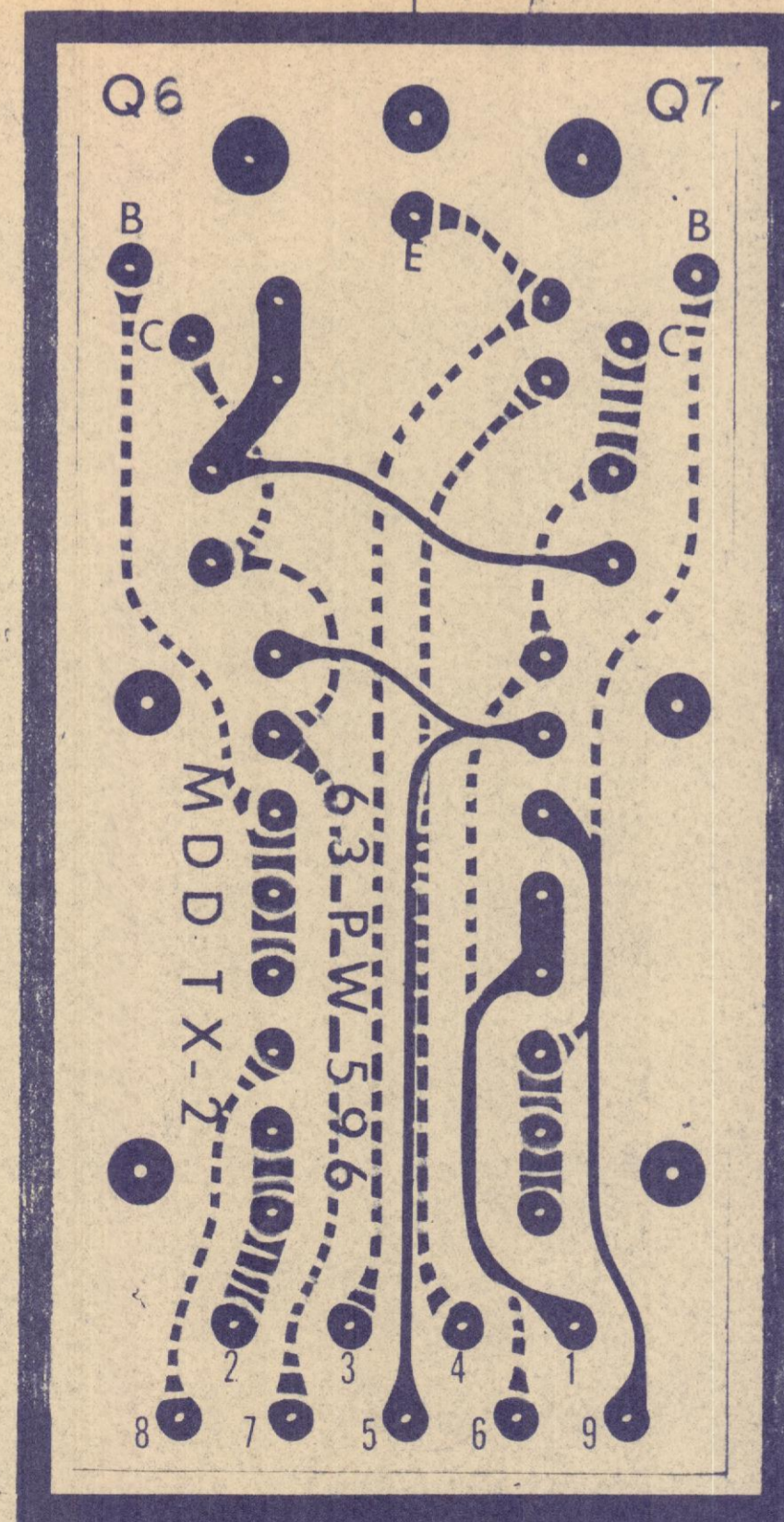


CARD "A"

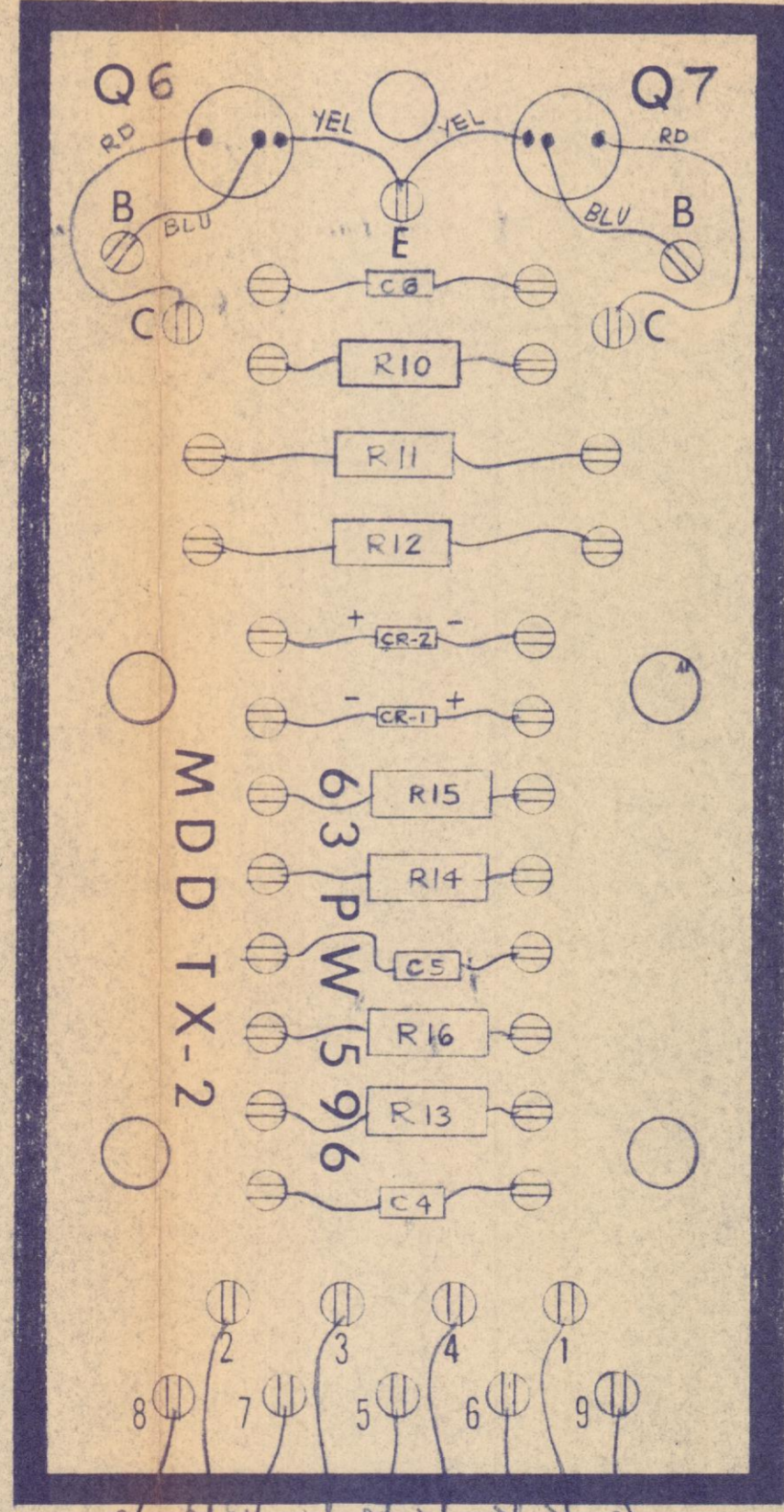
COMPONENT



CARD "A" TERM 6  
CARD "B" TERM 7  
CARD "A" TERM 8  
CARD "A" TERM 9



CARD "B"



CARD "A" TERM 9  
CARD "A" TERM 8  
CARD "A" TERM 7  
CARD "A" TERM 6

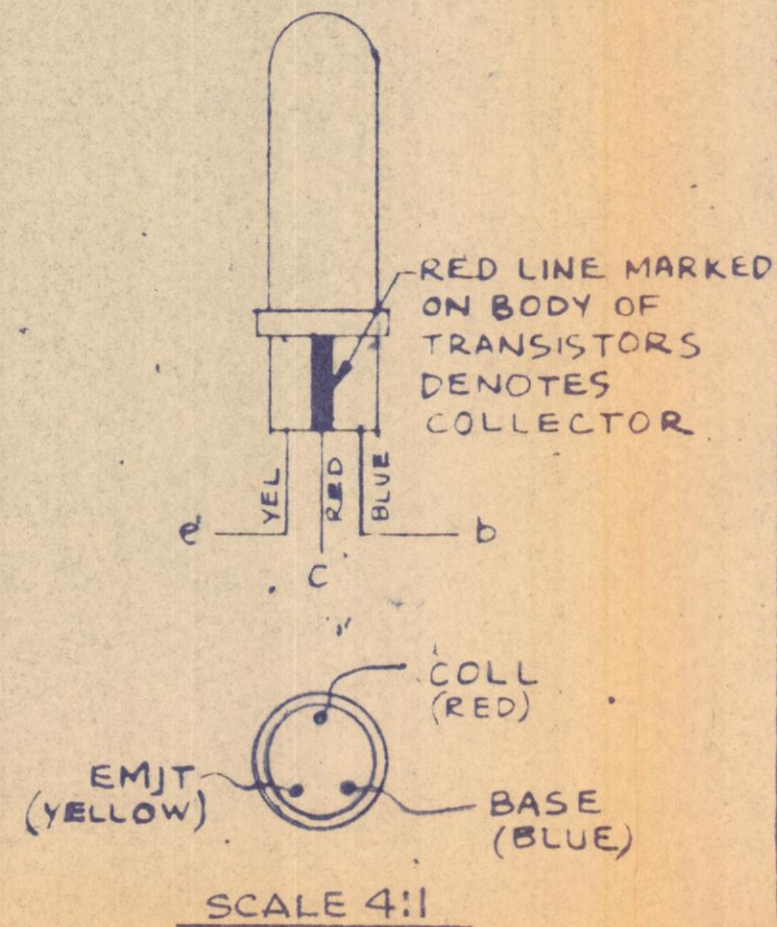
NOTES:

- 1. UNLESS OTHERWISE SPECIFIED:
- A. TRANSISTORS ARE PHILCO # 5122 & GE # 2N123
- B. ALL RESISTORS ARE IN OHMS & ARE 1/2 WATT ± 5%
- C. ALL CAPACITORS ARE IN μfd & ARE GLENCO MINIATURE CERAMIC ± 10%
- 2. ALL WIRE #22 STRANDED

DRAWING REFERENCES:

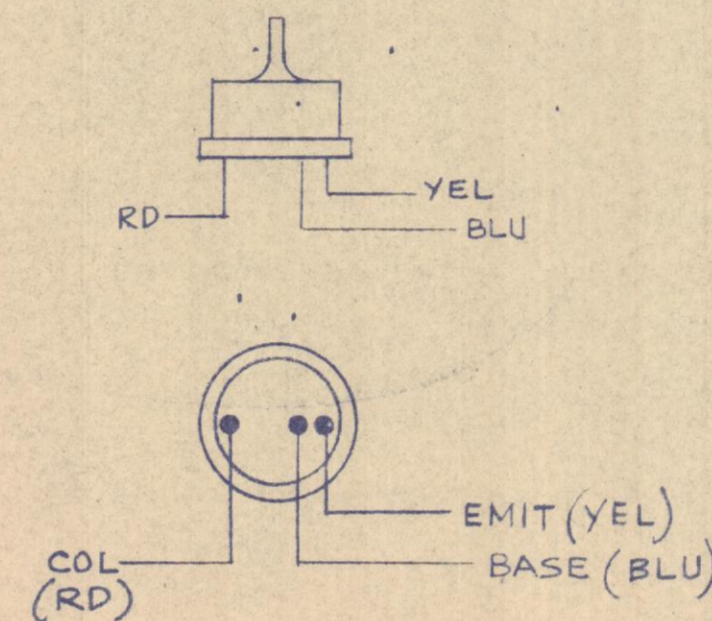
- 1. DETAIL CARD: A-67223
- 2. 4:1 MASTER: B-
- 3. DETAIL, PLUG-IN UNIT C-66896
- 4. DETAIL, HANDLE: B-66898
- 5. PARTS LIST: PL-67531

PHILCO # 5122

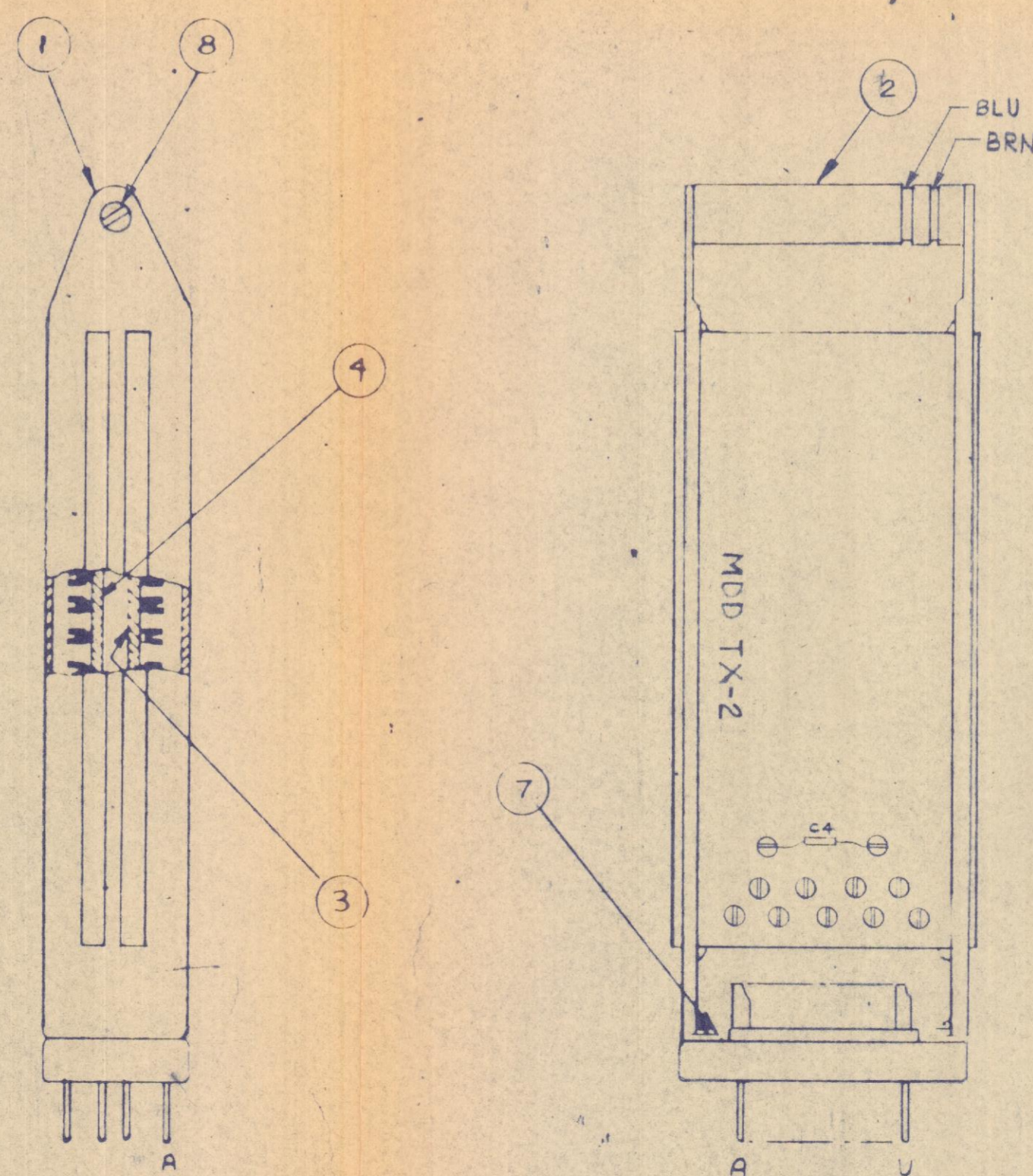


SCALE 4:1

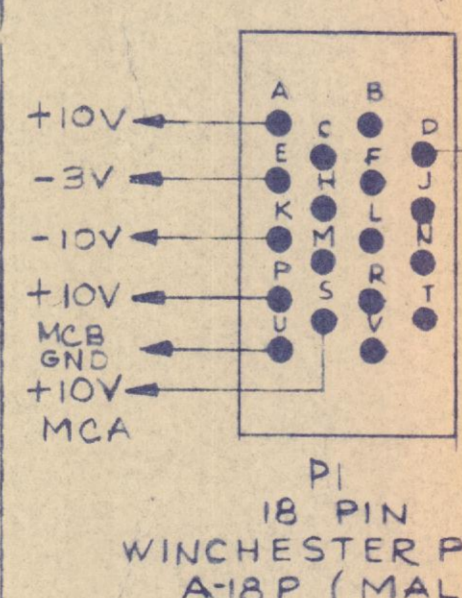
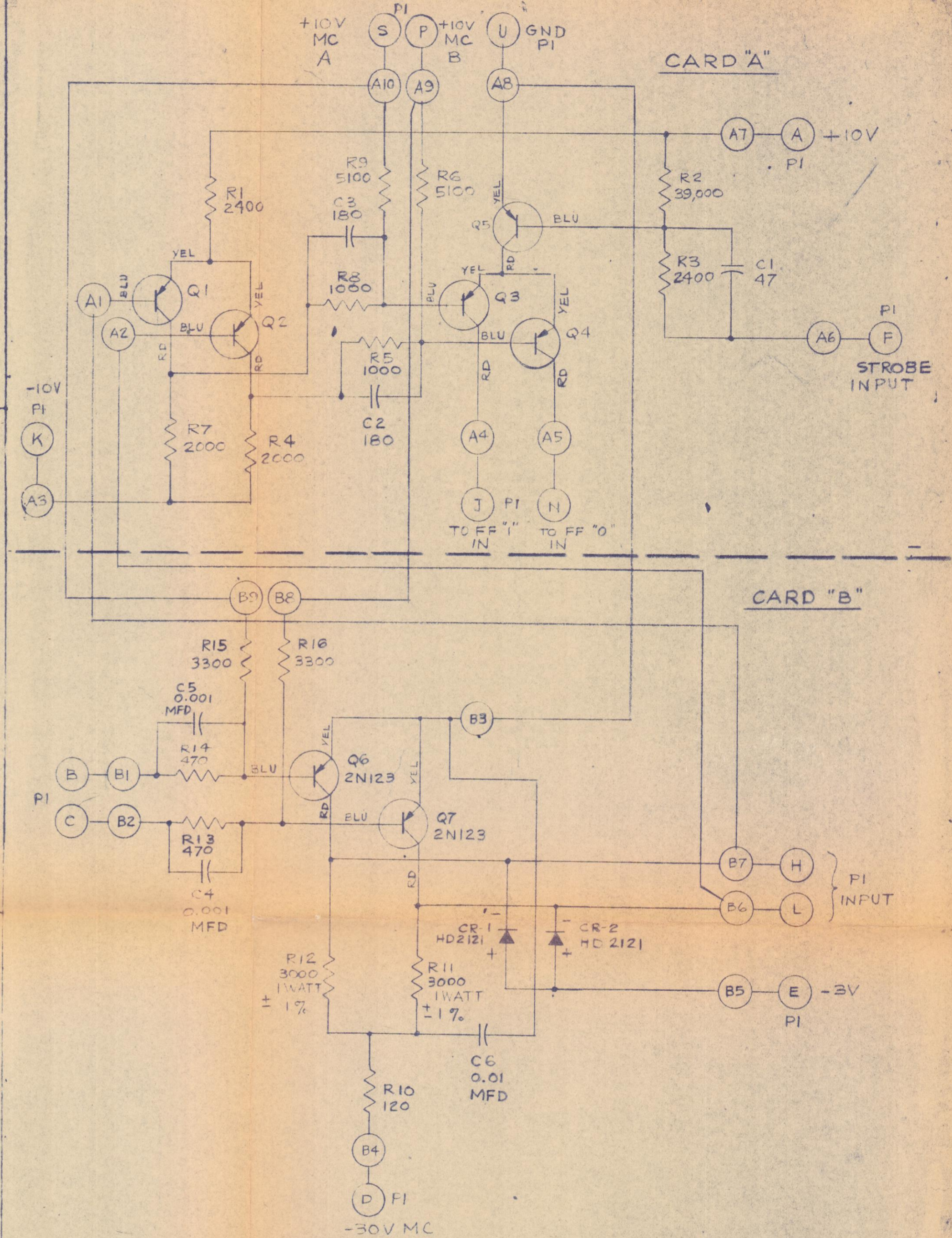
GE # 2N123



SCALE 2:1



SCALE 1:1



- (A) DENOTES JUG 1 ON CARD A
- (B) DENOTES PIN B ON PLUG P1

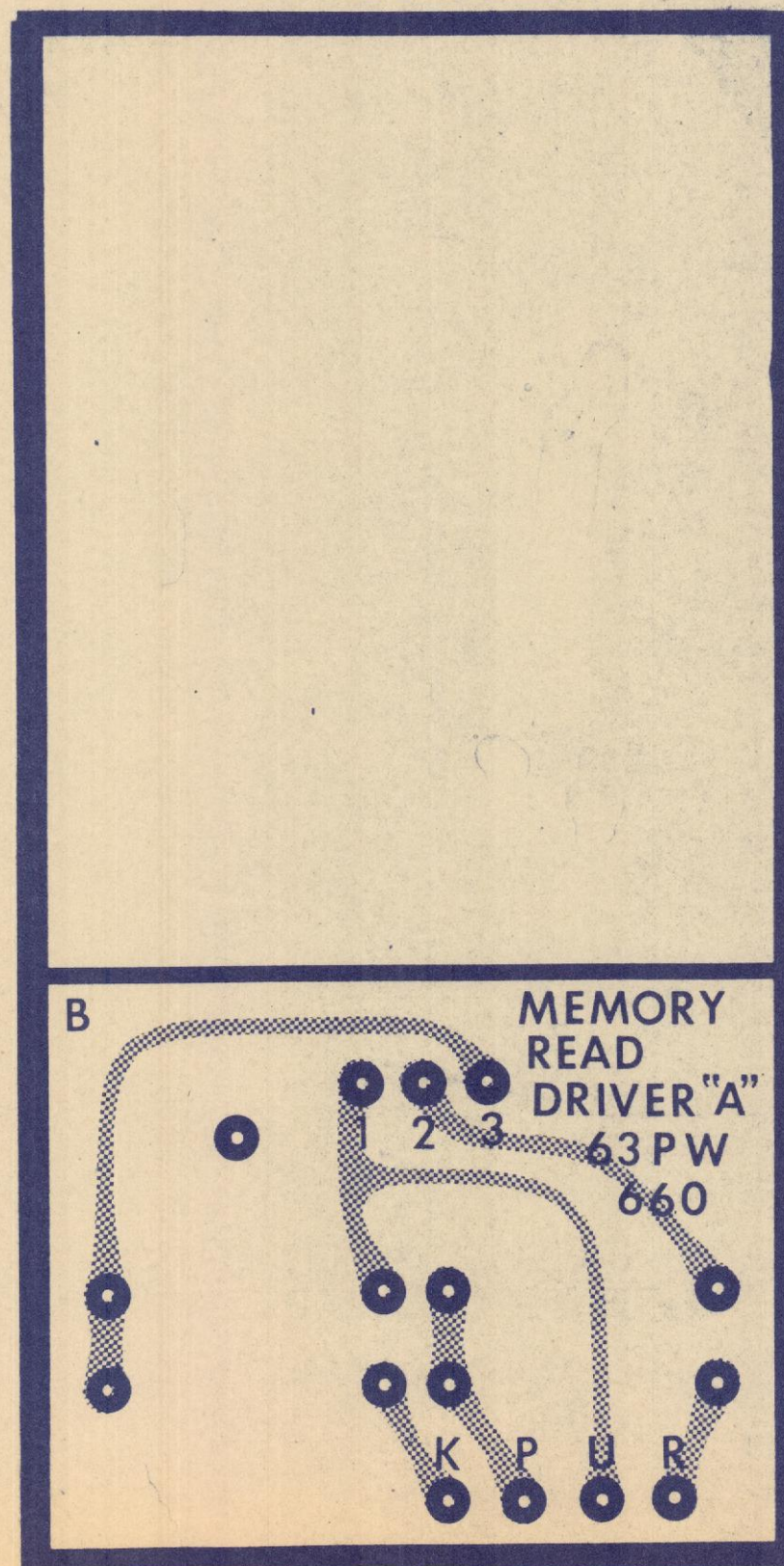
PRINT ISSUED  
OCT 9 1956

GRADE I FOR REFERENCE ONLY		PART NO.		QTY	
GRADE II PRELIMINARY DESIGN		MATERIAL - DESCRIPTION		LINCOLN LABORATORY DIV 6	
GRADE III FINAL DESIGN		MASSACHUSETTS INSTITUTE OF TECHNOLOGY		LEXINGTON 73, MASS	
ASSY, COMPOSITE, & SCHEMATIC, P.I.U. INDEX					
MEMORY READ AMPL. 4-DIGIT DRIVER, TX-2					
SCALE 2:1		DR LSG/10-2-56		D-67531	

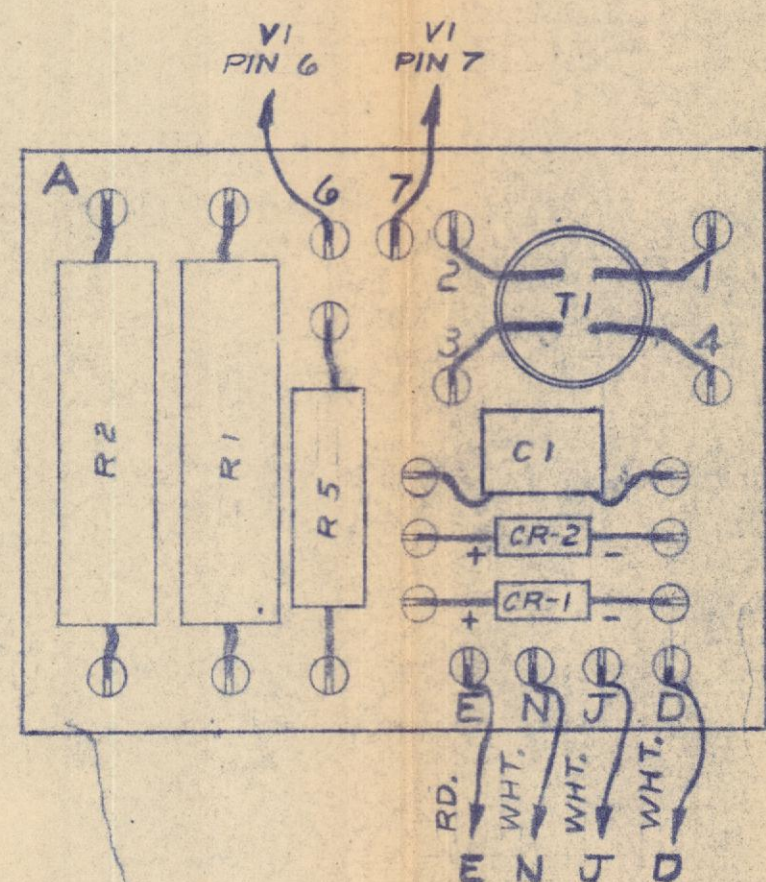
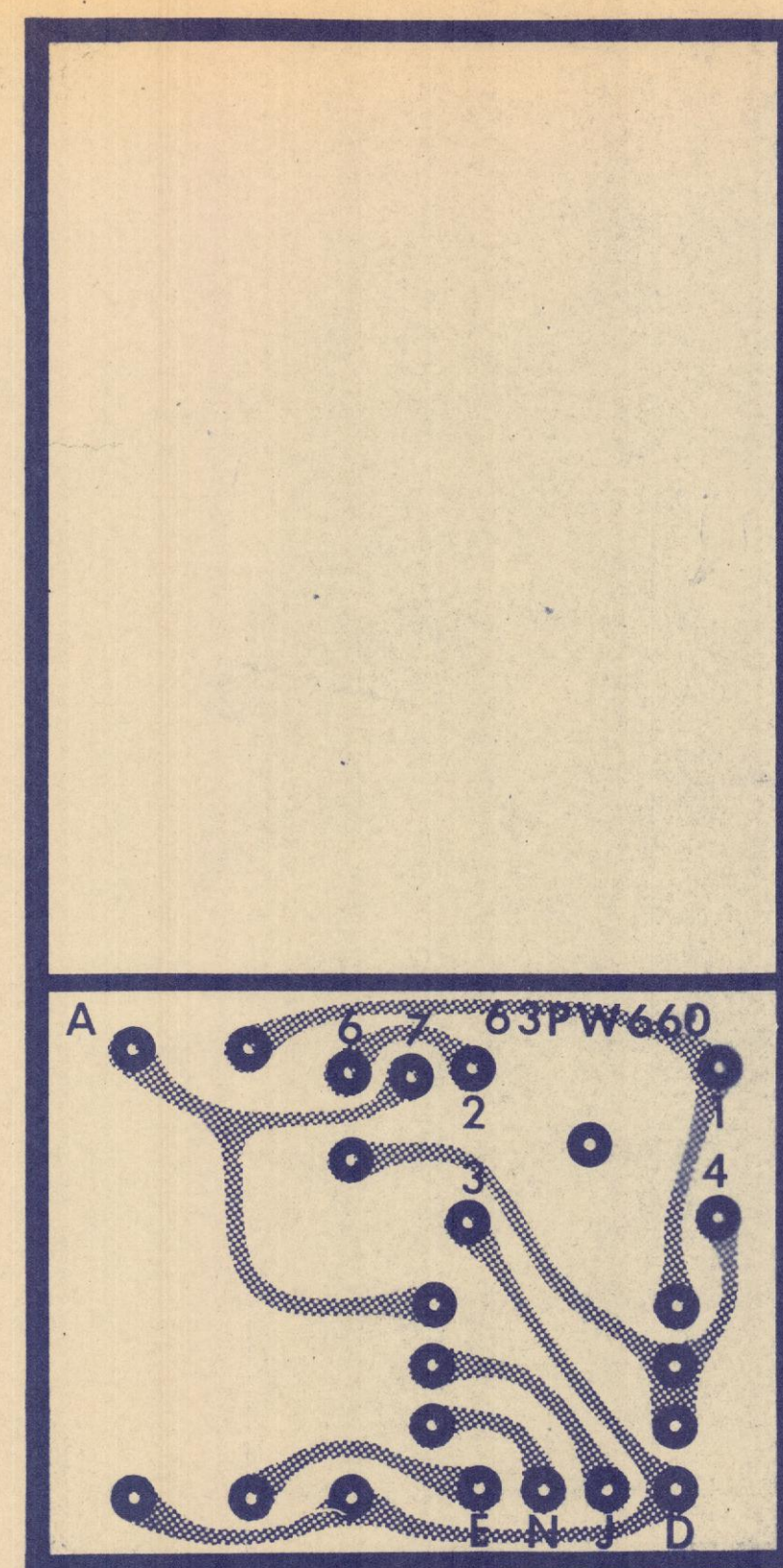
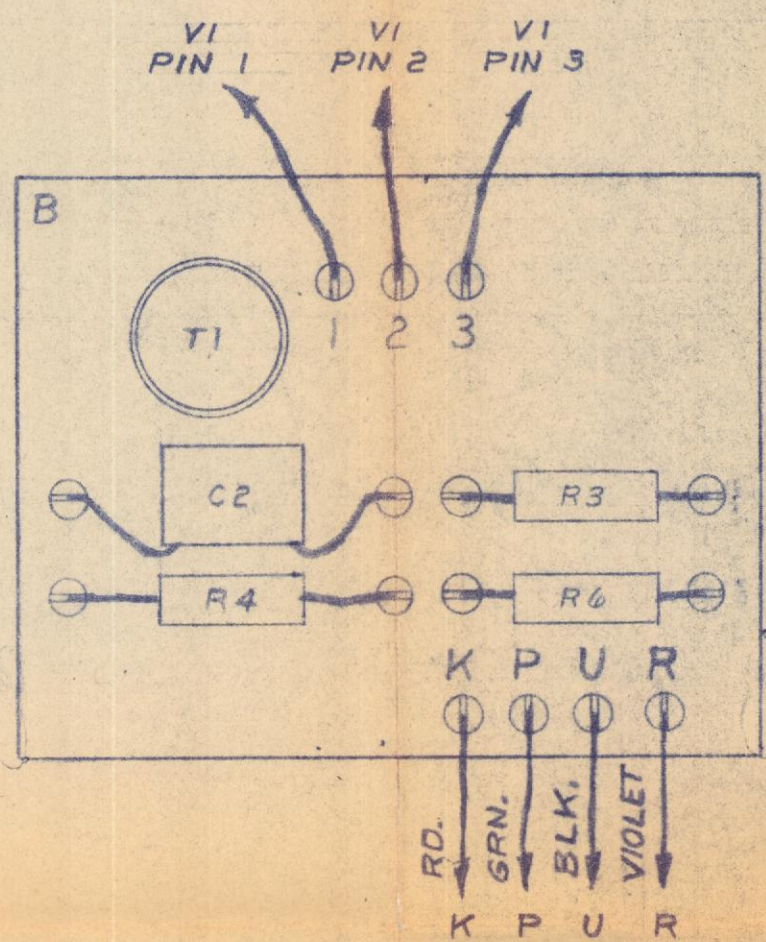
D-68898

TOLERANCES NOT OTHERWISE SPECIFIED  
 DECIMAL ± .005 FRACTIONAL ± 1/64 ANGULAR ± 1/2°  
 DIMENSIONS ENCLOSED THUS [ .000 ] FOR REFERENCE ONLY.

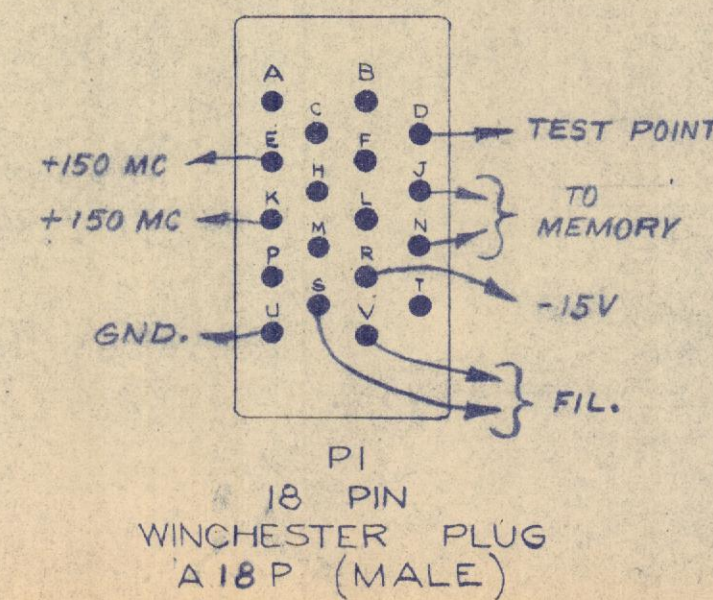
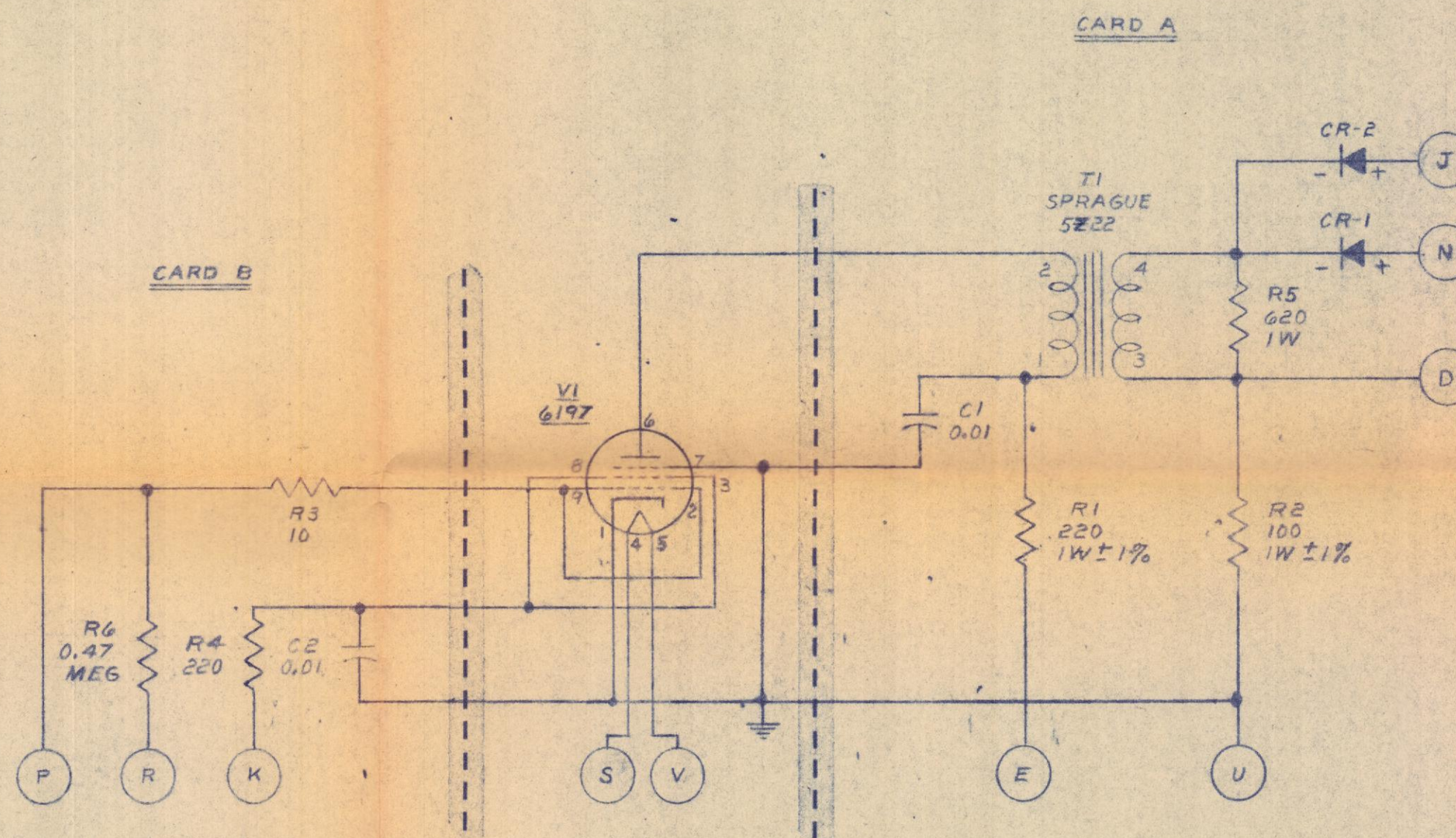
COMPOSITE



COMPONENT



SCHEMATIC:

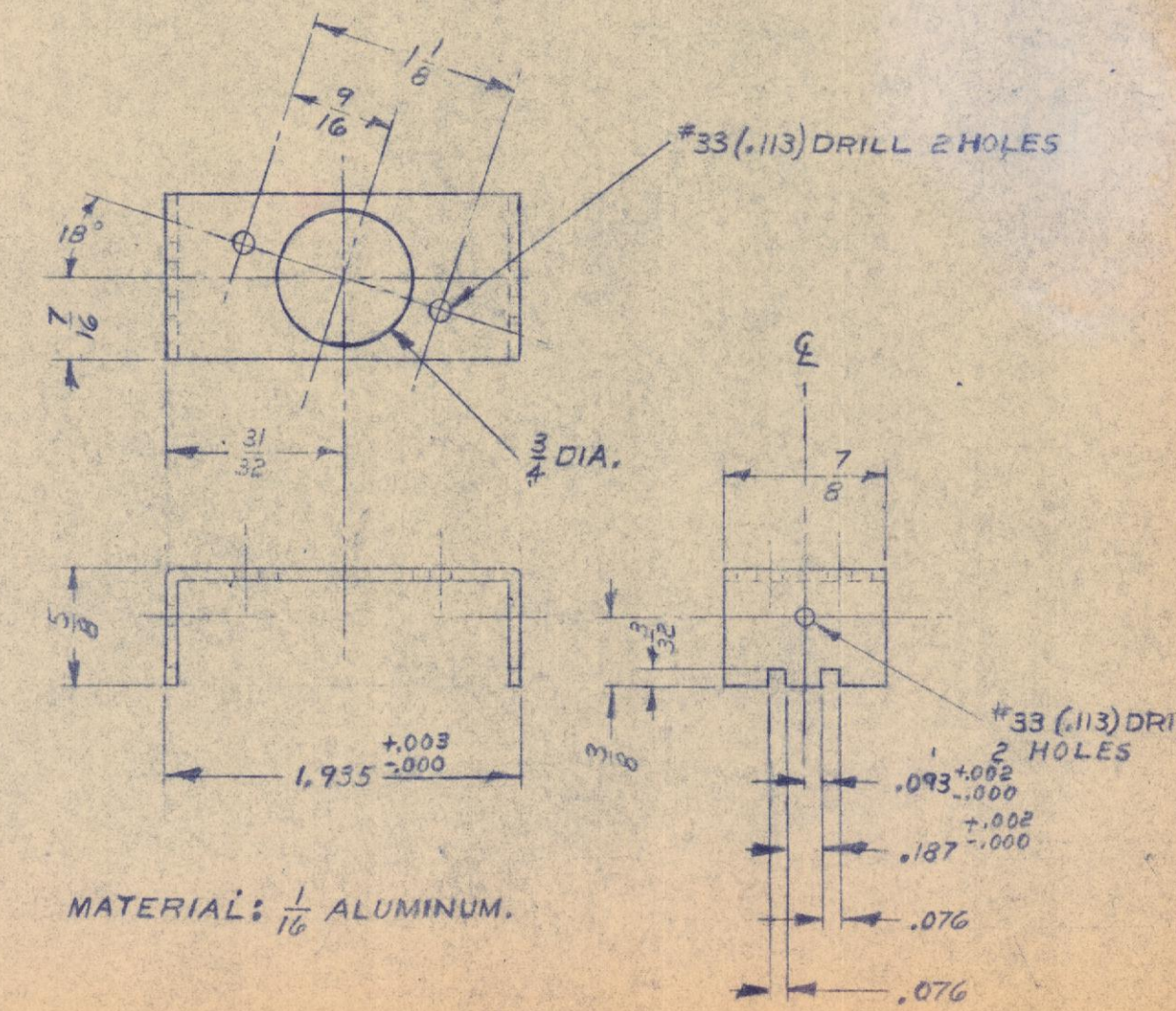


NOTES:

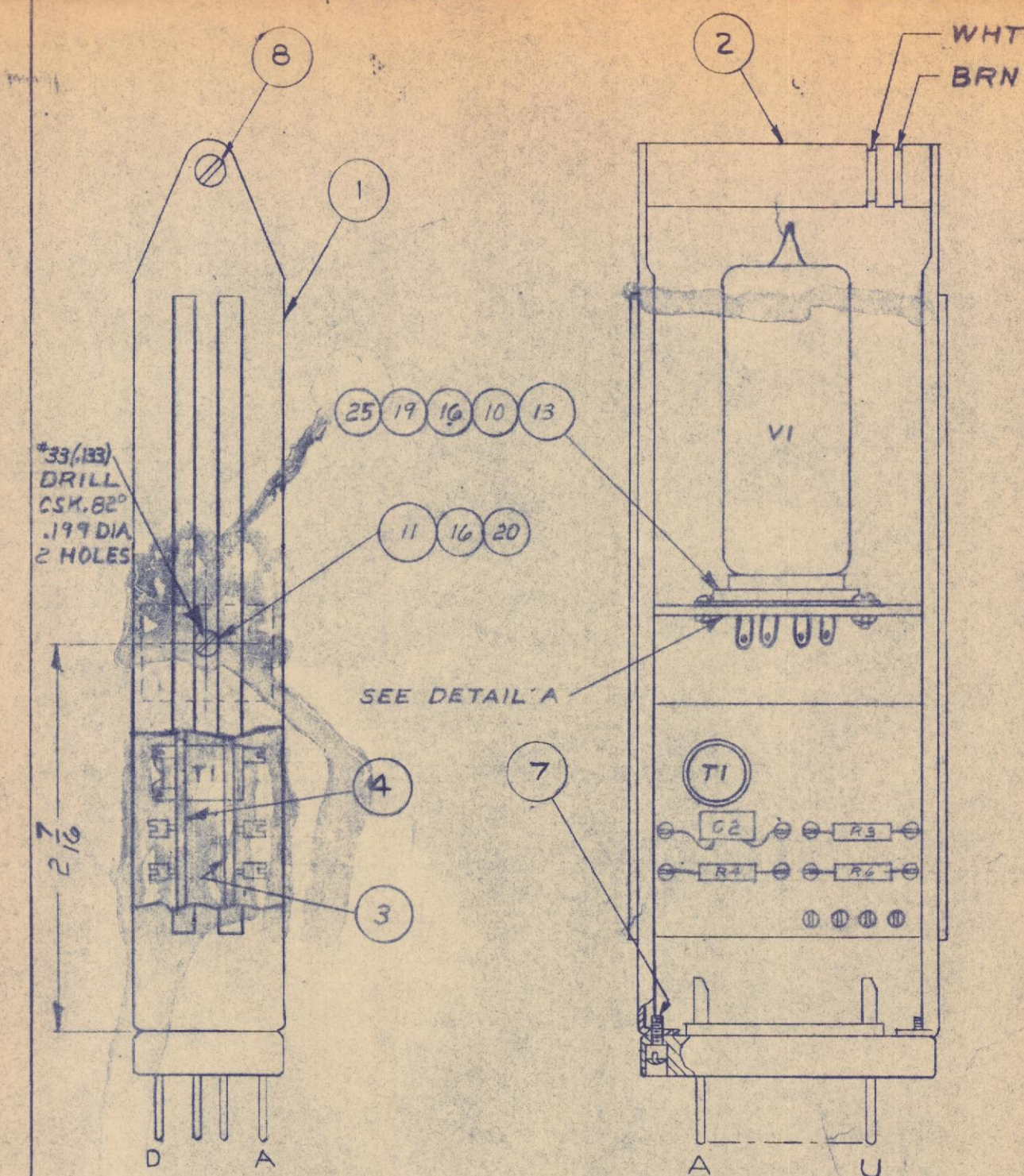
- UNLESS OTHERWISE SPECIFIED:
  - RESISTORS ARE IN OHMS 1/2 W ± 5%
  - CAPACITORS ARE GLENCO 250V ± 10% MIN. CERAMISTORS.
  - DIODES ARE HUGHES TYPE S-486
- ALL WIRE #22 STRANDED.

DRAWING REFERENCE:

- PARTS LIST: PL-68898
- DETAIL HOLDER SIDE PLATES: C-66896
- DETAIL HANDLE: B-66898
- 4:1 MASTER: B-



DETAIL A  
SCALE 1:1



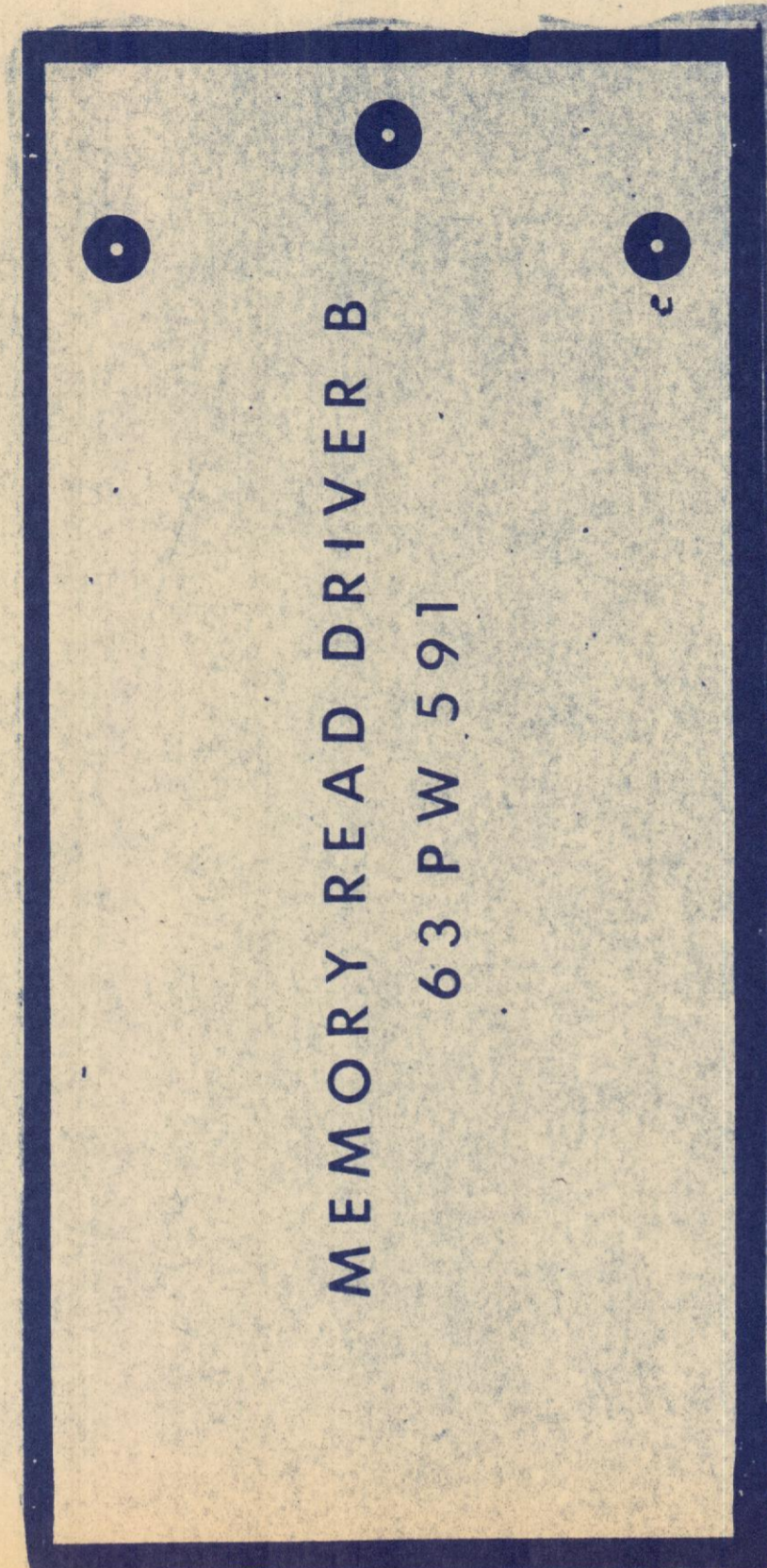
SCALE 1:1

GRADE I FOR REFERENCE ONLY		ITEM		MATERIAL - DESCRIPTION		PART NO.		QTY.	
GRADE II PRELIMINARY DESIGN		LINCOLN LABORATORY DIV. 6		MASSACHUSETTS INSTITUTE OF TECHNOLOGY		LEXINGTON 73, MASS.			
GRADE III FINAL DESIGN		ASSY, COMPOSITE & SCHEMATIC, P.I.U.		MEMORY READ DRIVER 'A', TX-2					
SCALE: 2:1		DR. J.L.S. 1-29-57		SCALE: 2:1		DR. J.L.S. 1-29-57			
ENG. J.L.S. 2-11-57		CK. J.L.S. 2-11-57		APPD. J.L.S. 2-11-57		D-68898			
RLB:sd		J.L.S.		RLB:sd					

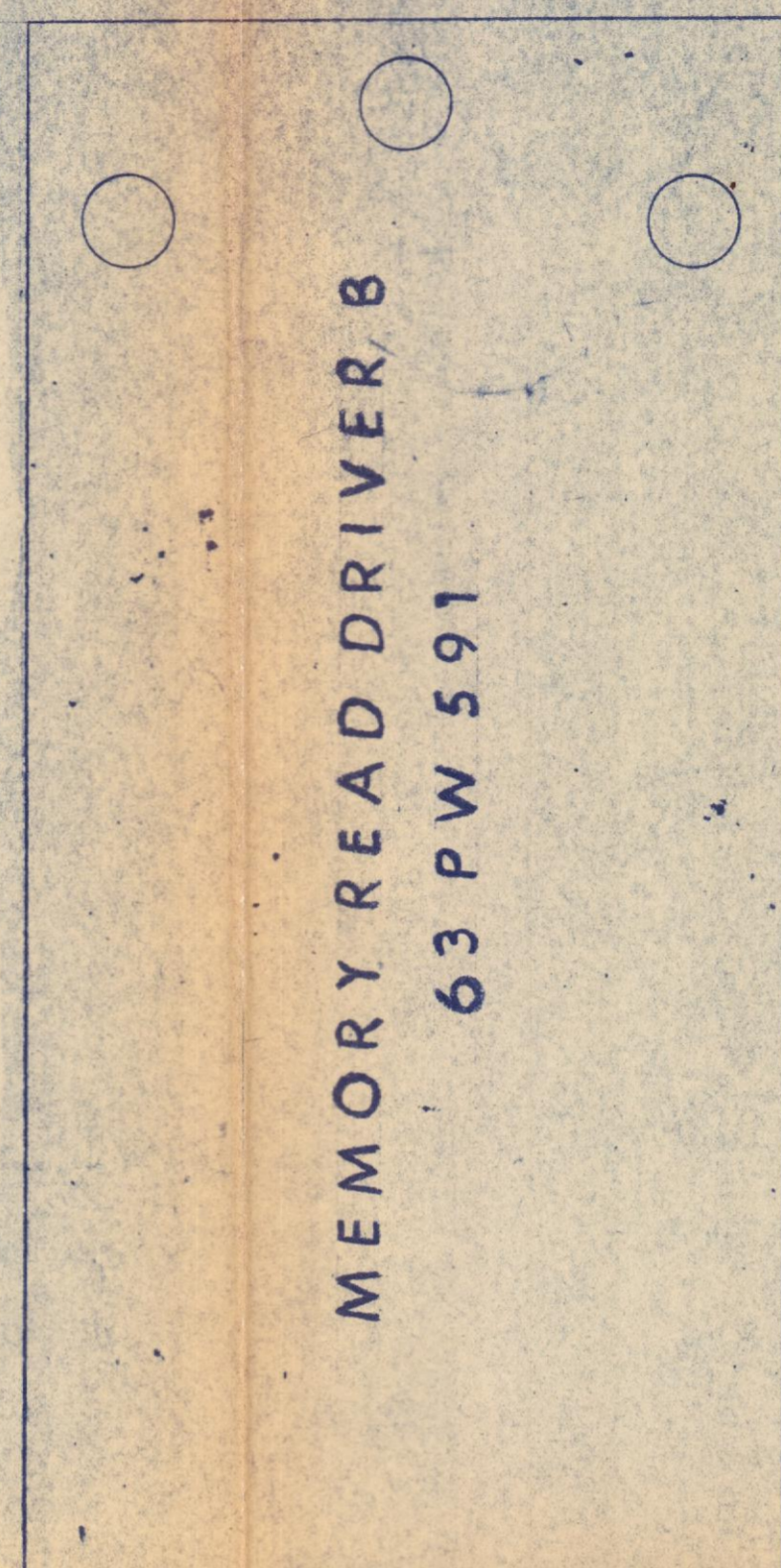
DL-1530

D-67299

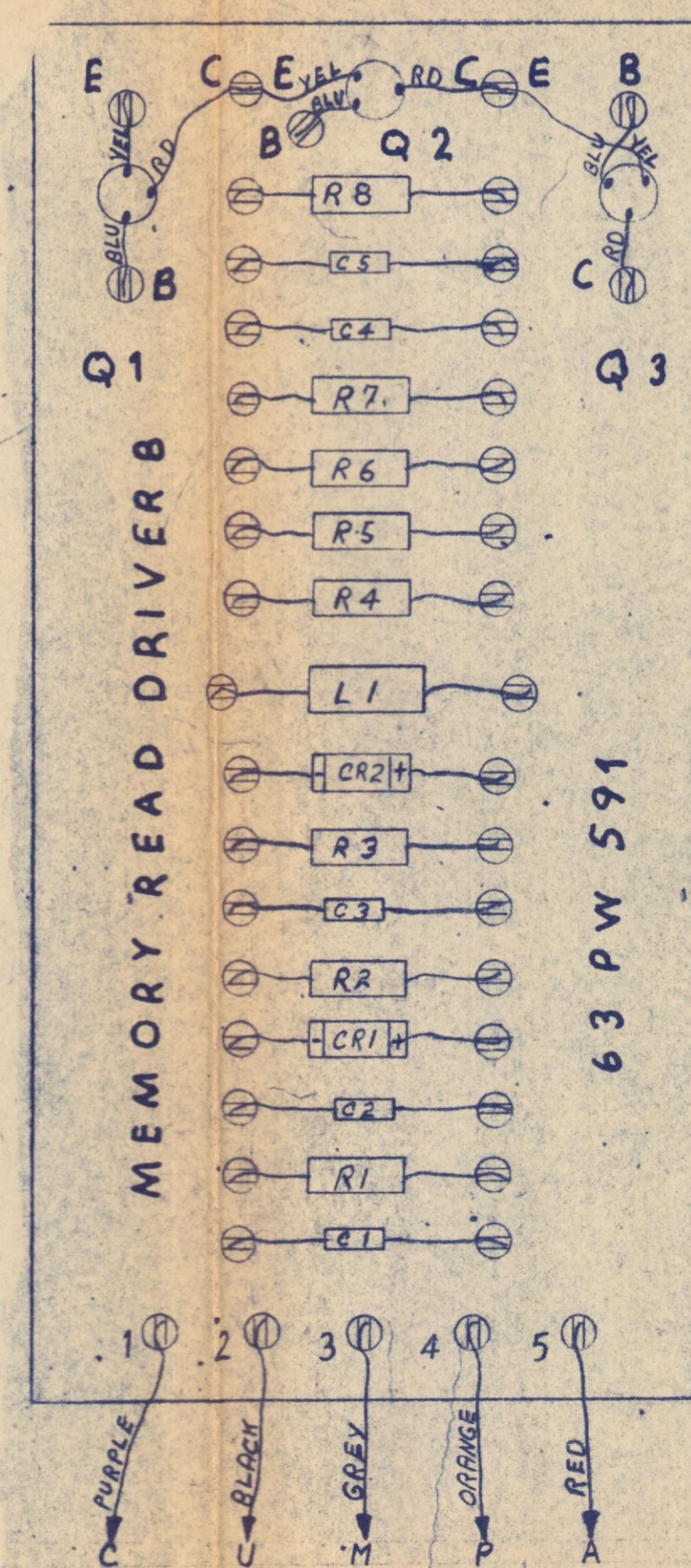
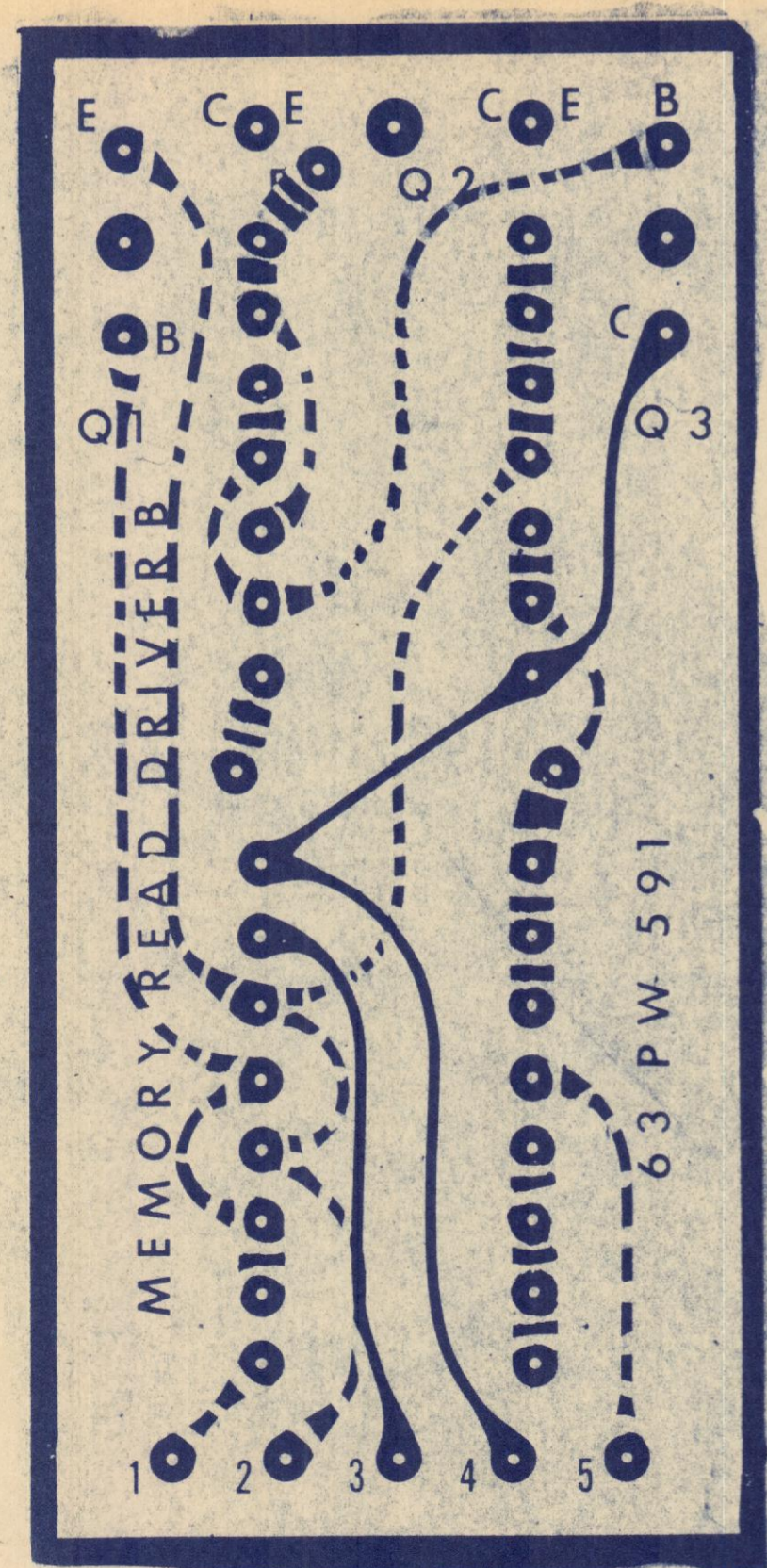
TOLERANCES NOT OTHERWISE SPECIFIED  
DECIMAL ± .005 FRACTIONAL ± 1/32 ANGULAR ± 1/2°  
DIMENSIONS ENCLOSED THUS  $\frac{.000}{.000}$  FOR REFERENCE ONLY



COMPOSITE



COMPONENT



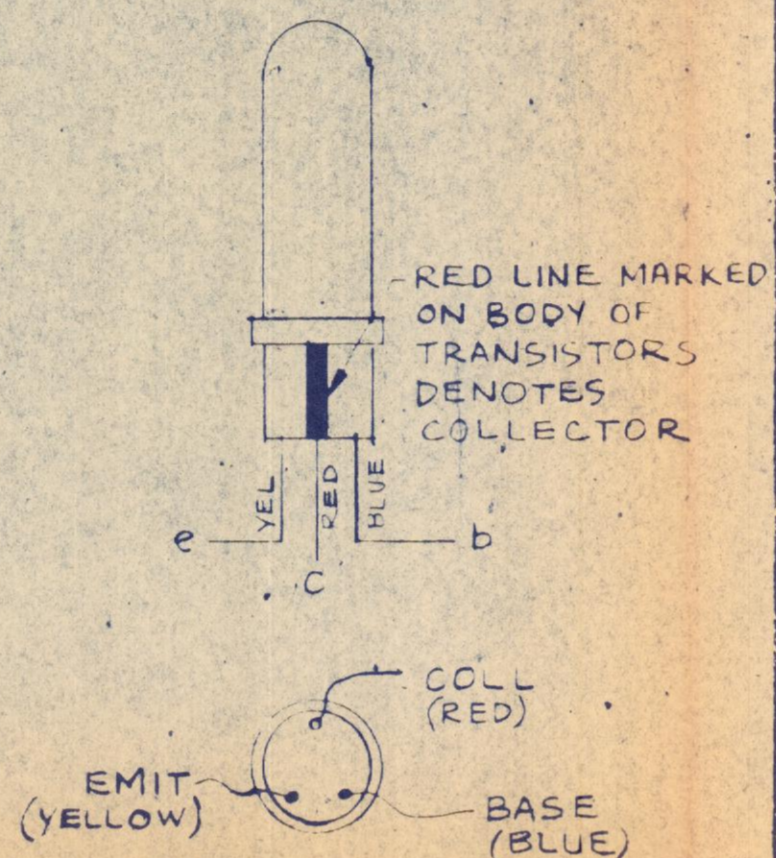
NOTES:-

- UNLESS OTHERWISE SPECIFIED:
  - TRANSISTORS ARE PHILCO # 5122
  - ALL RESISTORS ARE N OHMS & ARE 1/2 WATT ± 5%
  - ALL CAPACITORS ARE IN  $\mu\text{fd}$  & ARE GLENCO MINIATURE CERAMIC ± 10%, CA 1522  $\mu\text{fd}$  DOG-BONE
- ALL WIRE #22 STRANDED

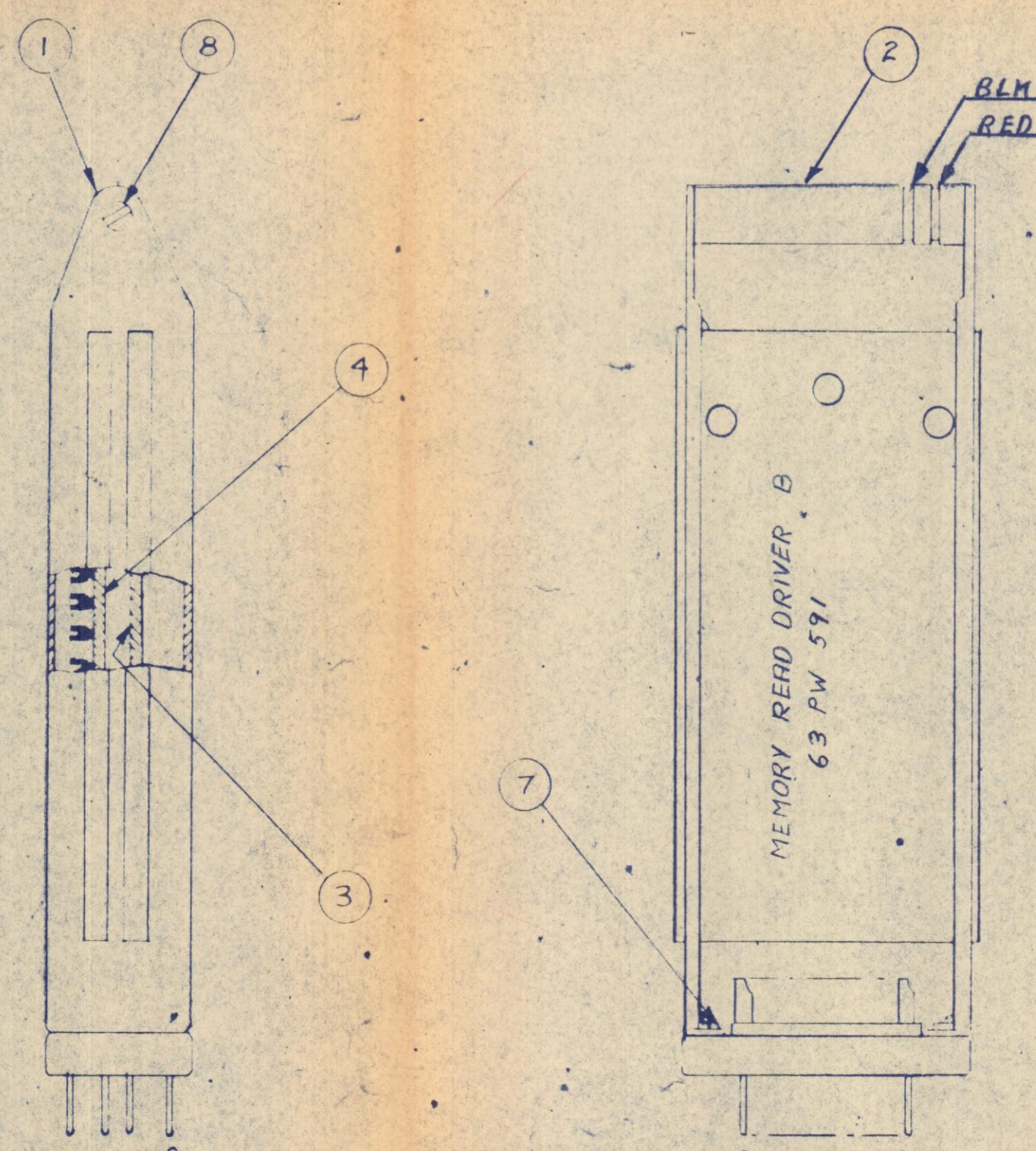
DRAWING REFERENCES:

- DETAIL CARD: A-67223
- 4:1 MASTER: B-
- DETAIL, PLUG-IN UNIT: C-66896
- DETAIL, HANDLE: B-66898
- PARTS LIST: PL-67299

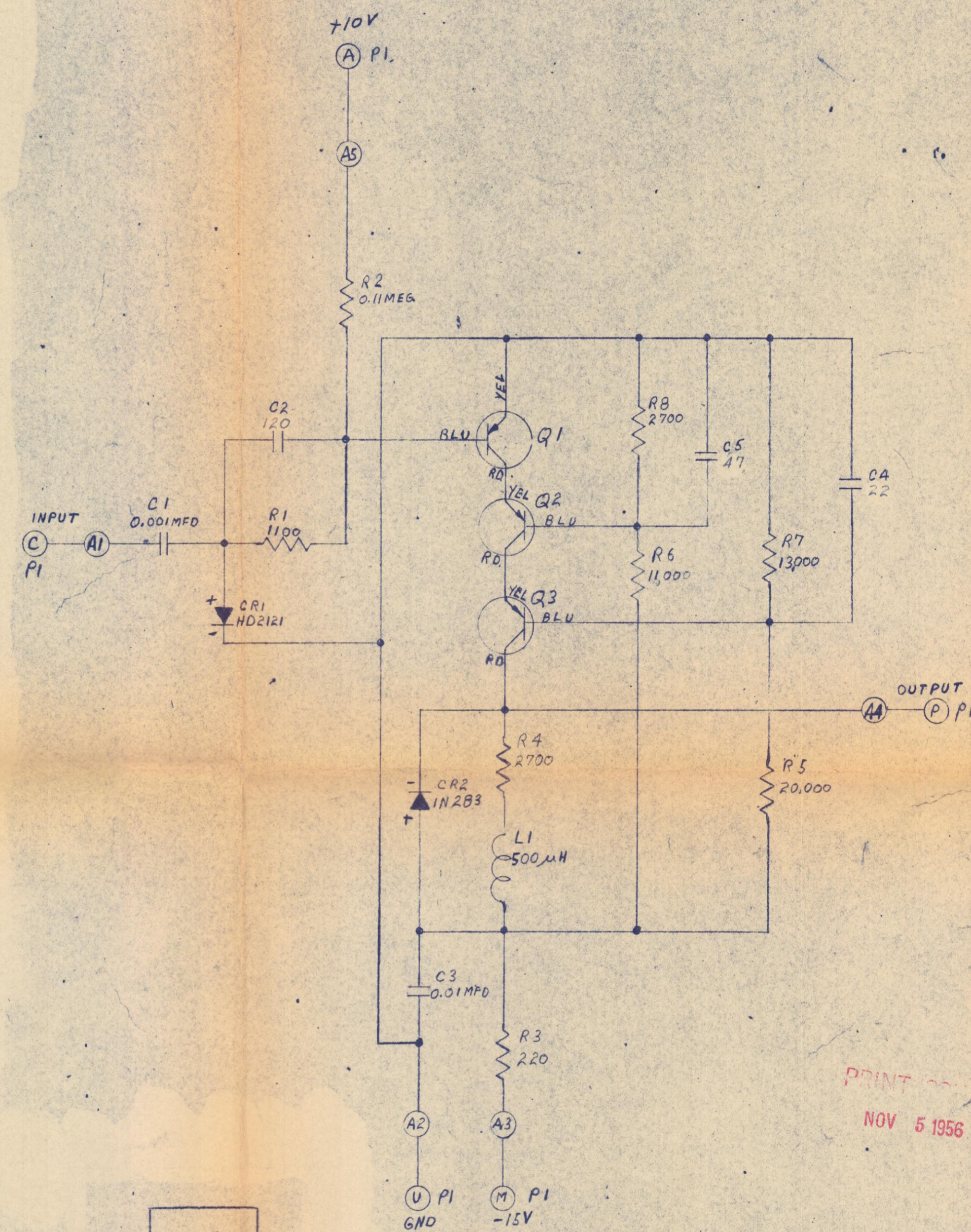
PHILCO # 5122



SCALE 4:1

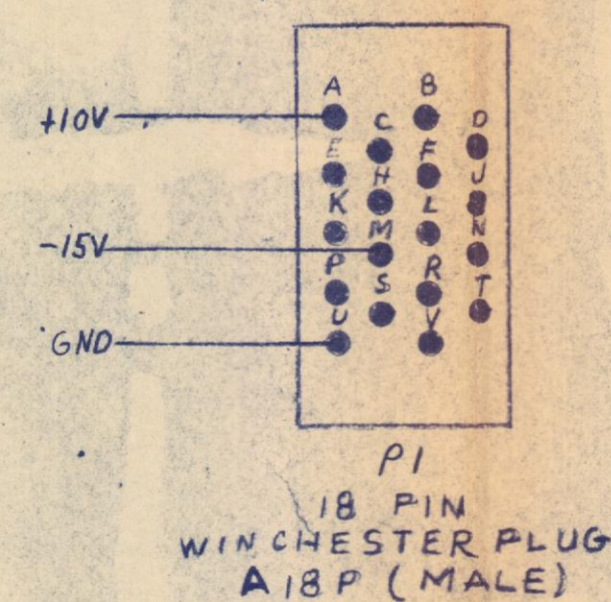


SCALE 1:1



NOTES:

- (H) DENOTES LUG 1 ON CARD "A"
- (C) DENOTES PIN C ON PLUG P1



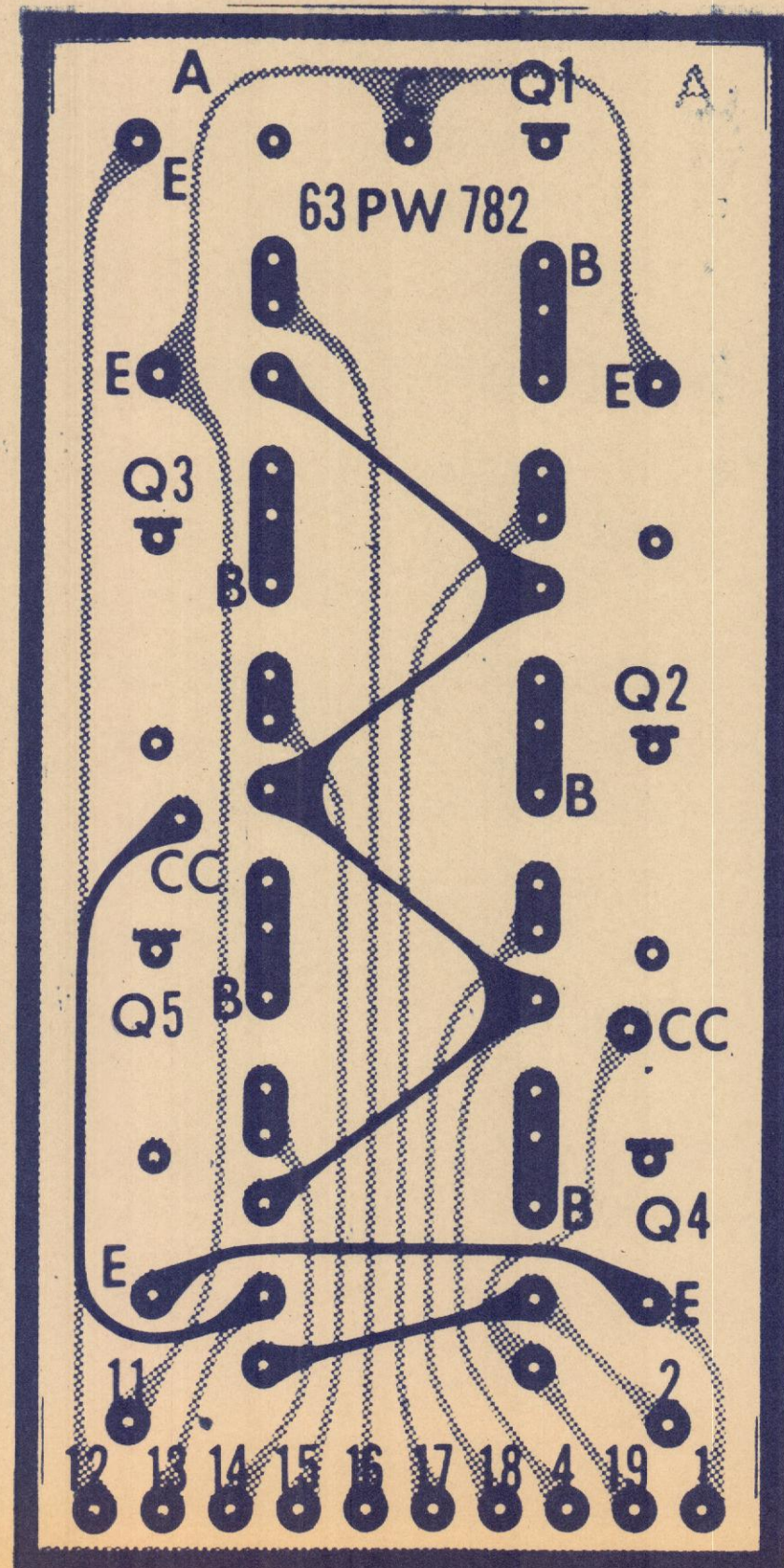
P1  
18 PIN WINCHESTER PLUG  
A 18P (MALE)

PRINTED NOV 5 1956

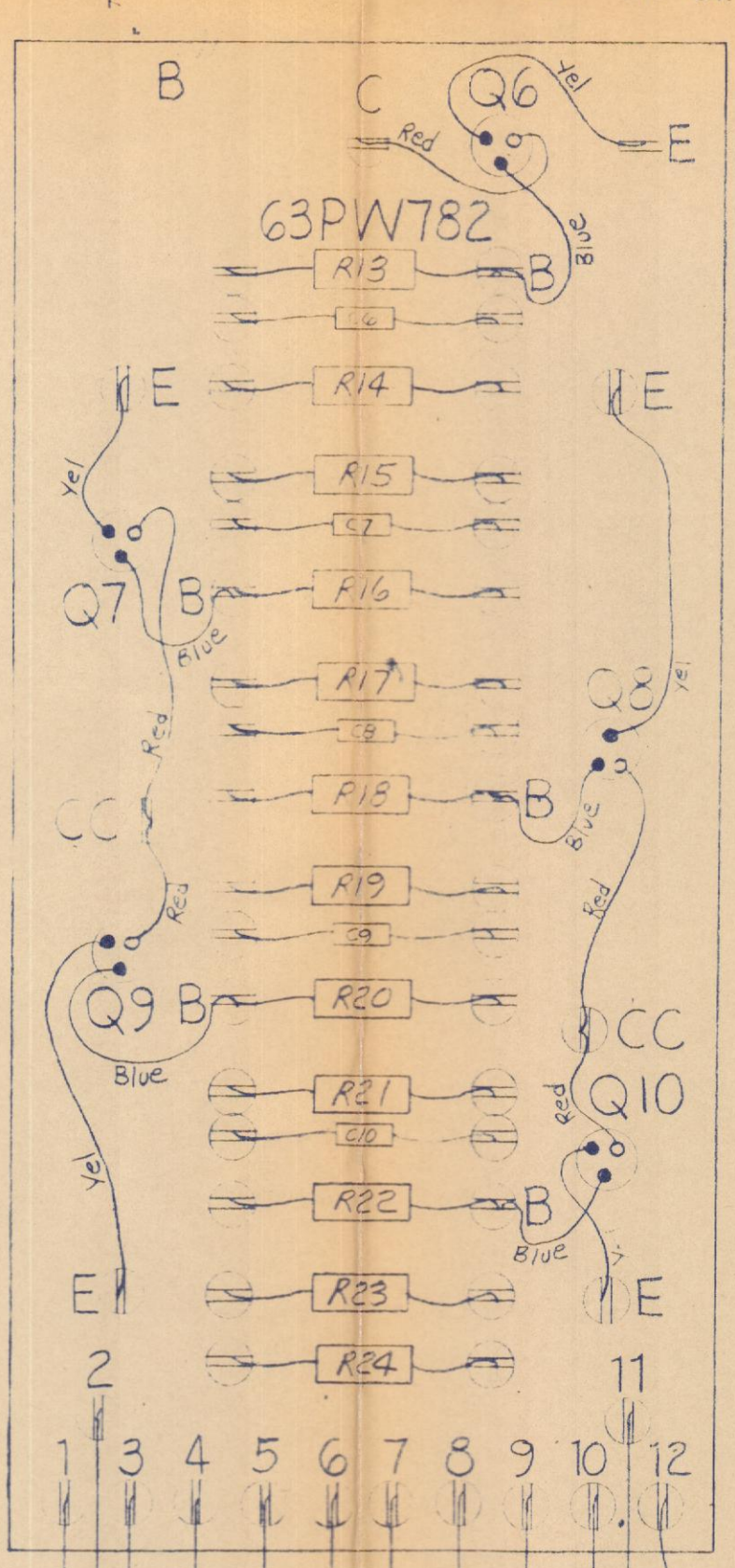
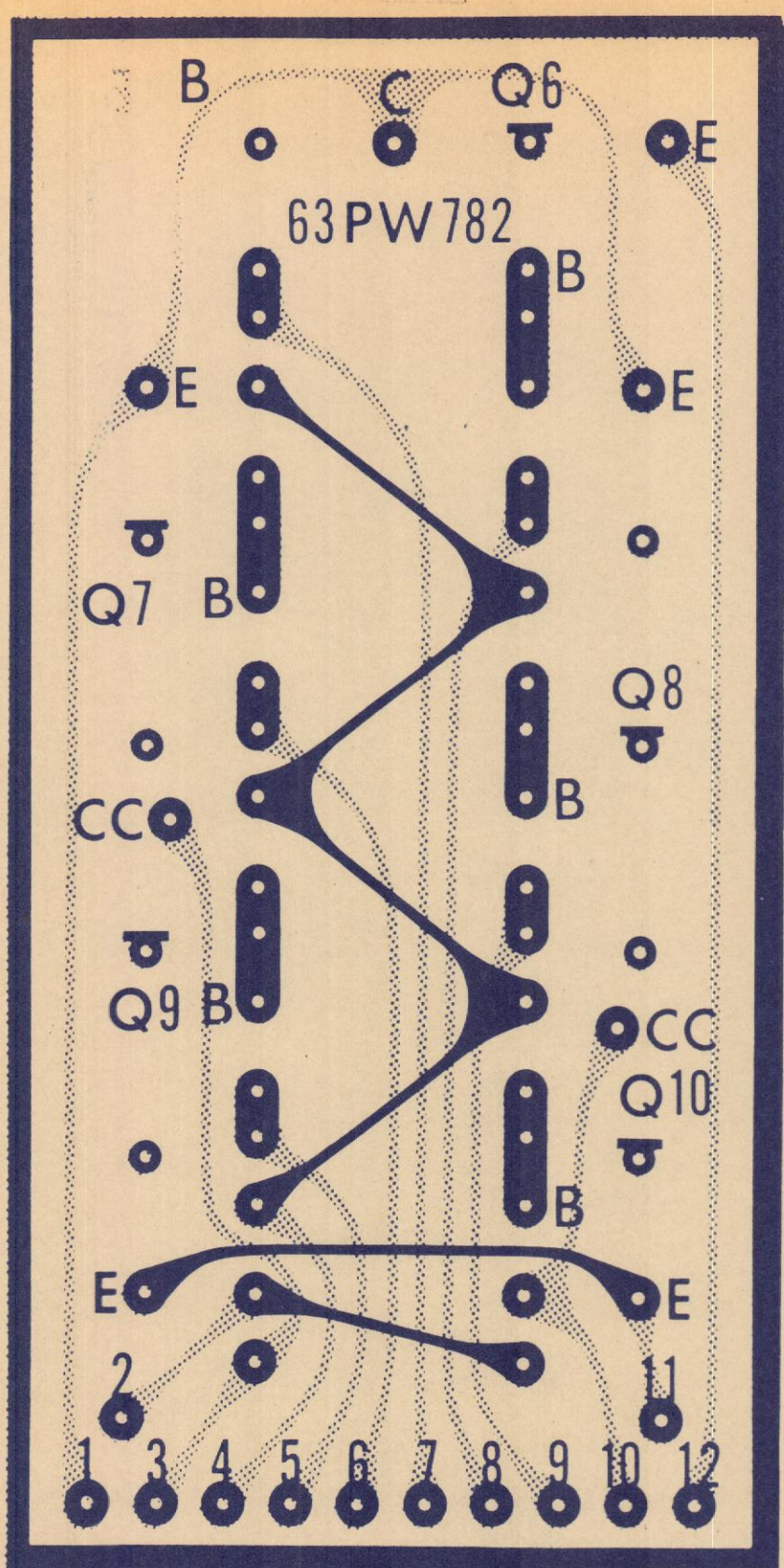
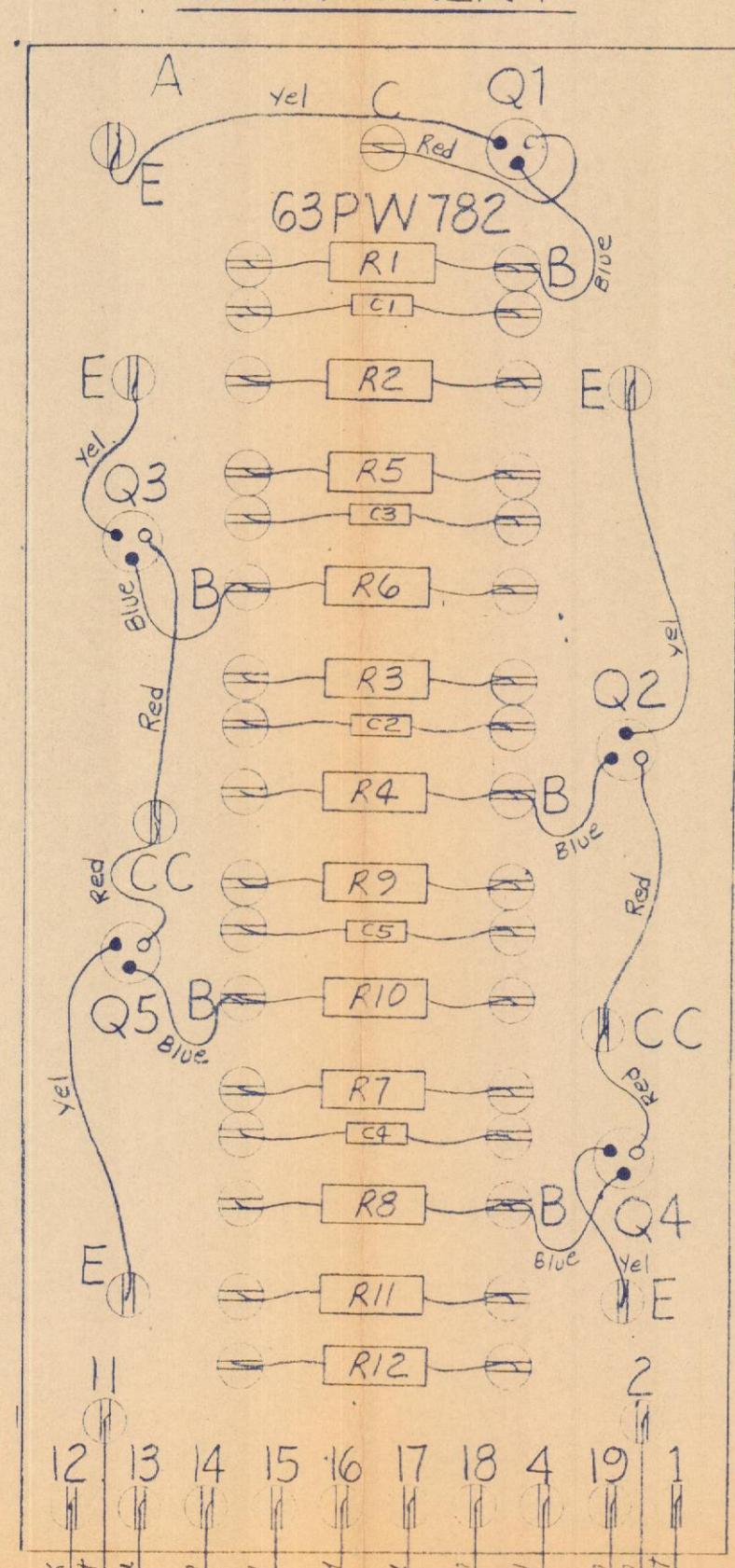
PRINTED NOV 5 1956

GRADE I FOR REFERENCE ONLY				ITEM	MATERIAL-DESCRIPTION	PART NO.	QTY.
GRADE II PRELIMINARY DESIGN				LINCOLN LABORATORY DIV. 6			
GRADE III FINAL DESIGN				MASSACHUSETTS INSTITUTE OF TECHNOLOGY			
GRADED BY: DATE:				LEXINGTON 73, MASS.			
ASS'Y COMPOSITE & SCHEMATIC, P.I.U.				SCALE: 2:1			
MEMORY READ DRIVER B INLEX MEM. TX-2				DR. 9-27-56			
ENG. NO. 1-56				CK. 9-28-56			
APP'D: 1-56				D-67299			

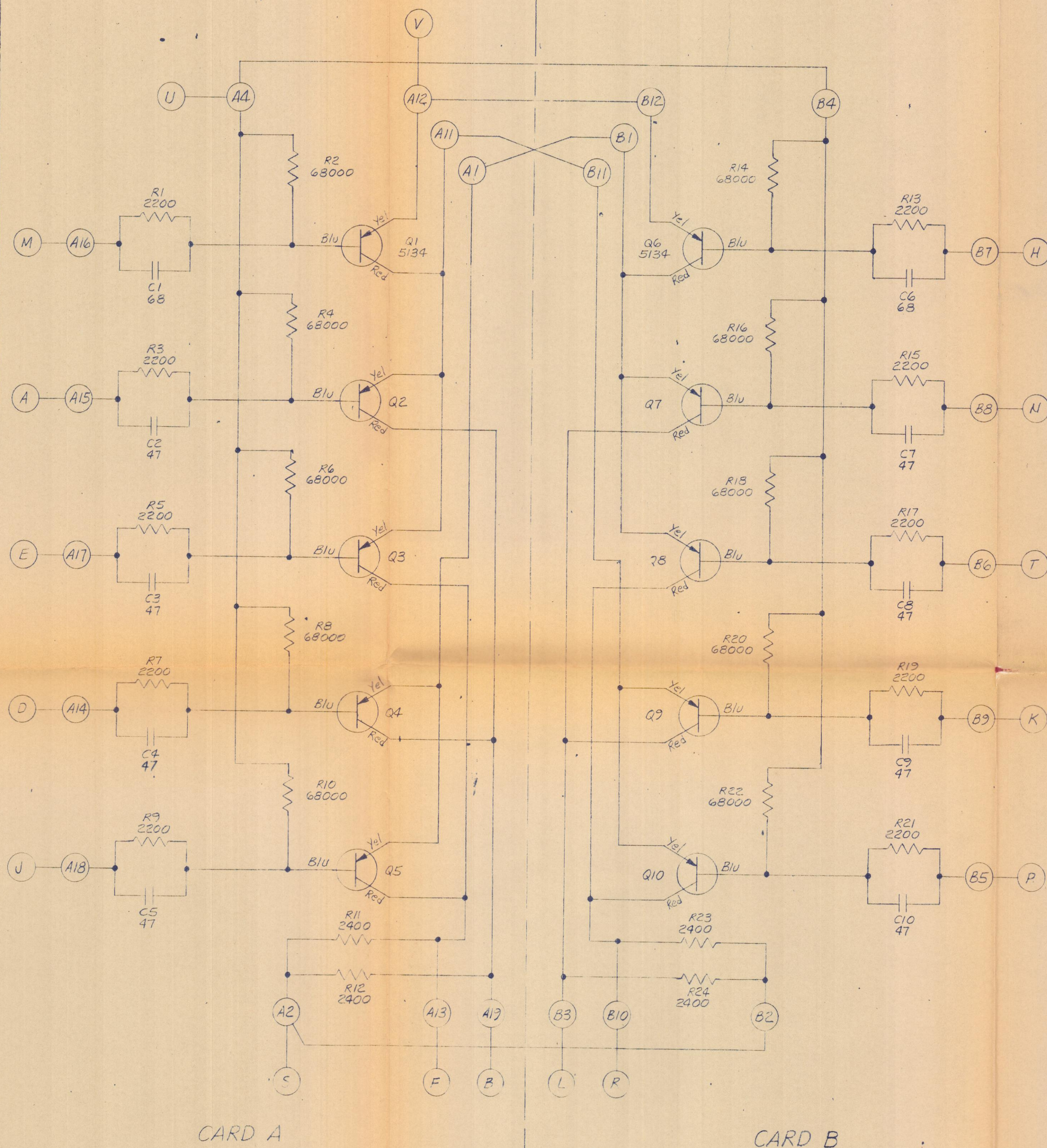
COMPOSITE



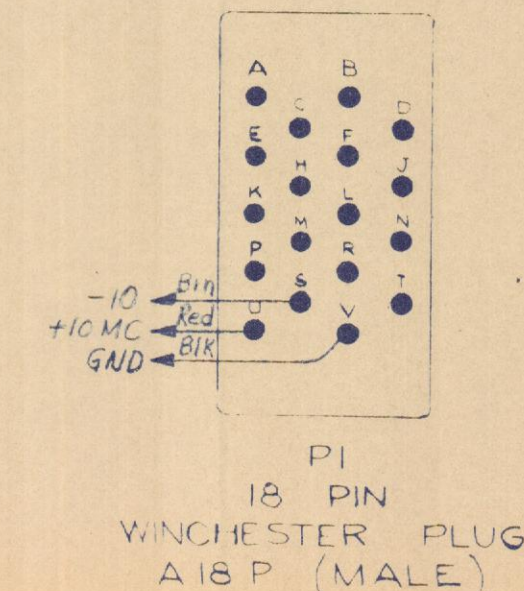
COMPONENT



SCHEMATIC

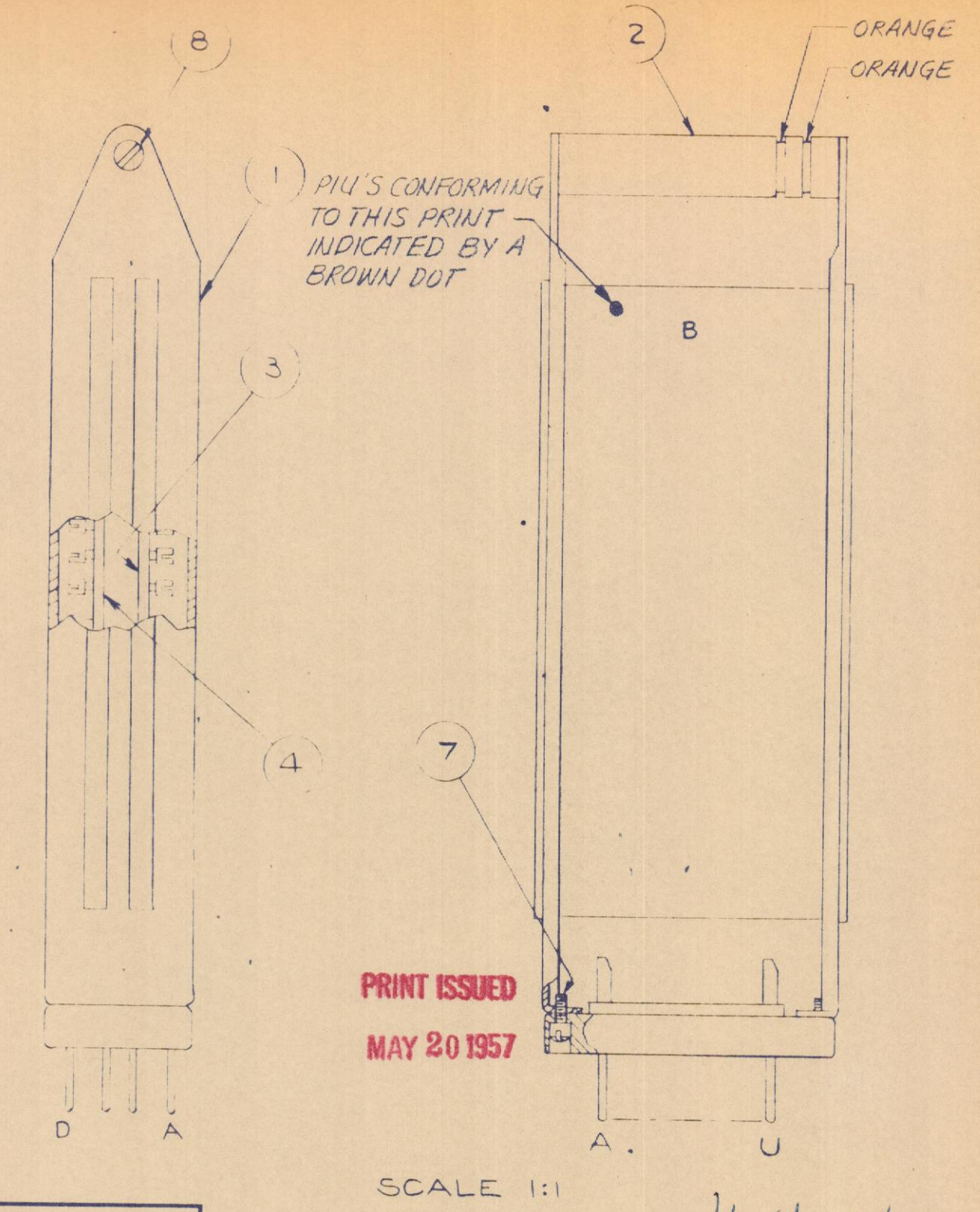
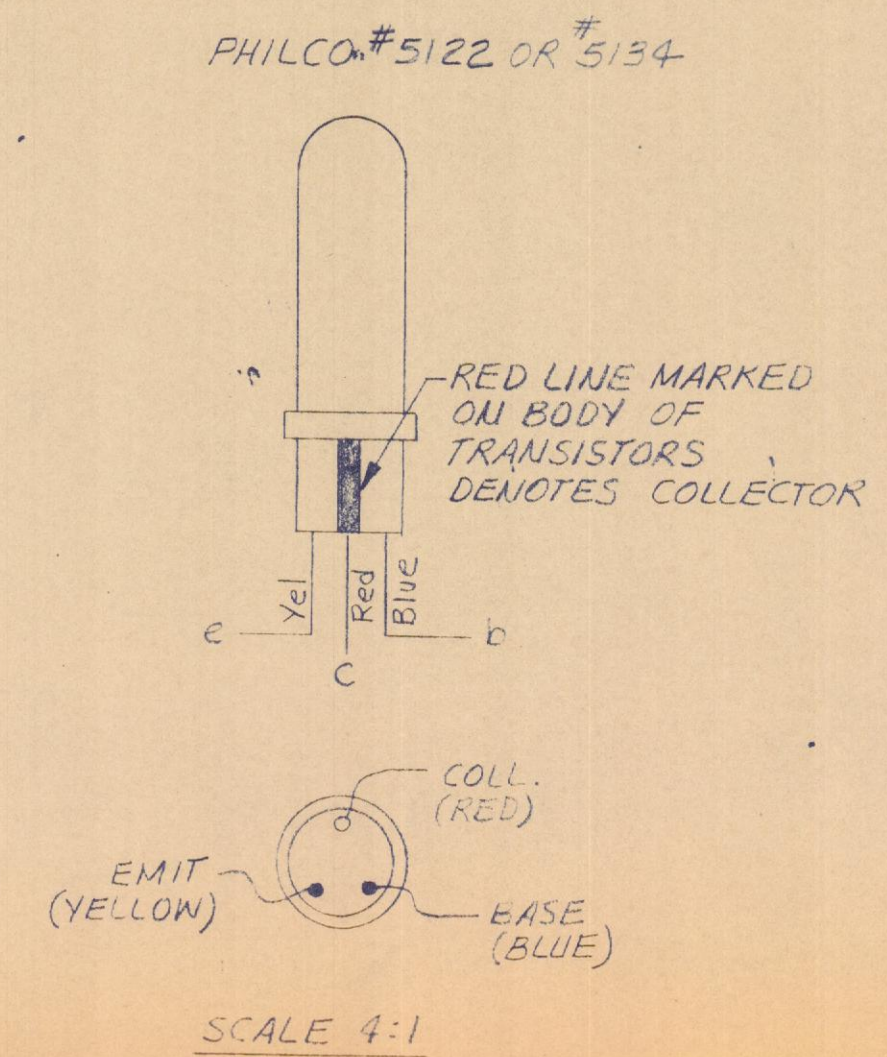


(A7) DENOTES, TERMINAL 7 CARD "A".  
(H) DENOTES, PIN H ON PLUG P1.



- NOTES:
- 1. UNLESS OTHERWISE SPECIFIED:  
A TRANSISTORS ARE PHILCO #5122,  
B ALL RESISTORS ARE IN OHMS AND ARE 1% ± 5%.  
C ALL CAPACITORS ARE IN MFD AND ARE GLENCO MINIATURE CERAMIC ± 10%.
  - 2. ALL WIRE #22 STRANDED.

DRAWING REFERENCE:  
PARTS LIST: PL-81274



PRINT ISSUED  
MAY 20 1957

R. Olsen

GRADE I FOR REFERENCE ONLY		GRADE II PRELIMINARY DESIGN		GRADE III FINAL DESIGN	
ITEM	MATERIAL-DESCRIPTION	PART NO.	QTY	DATE	APPROV.
LINCOLN LABORATORY DIV. 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73, MASS.					
ASSY, COMPOSITE & SCHEMATIC, P.I.U. MEMORY SELECTOR, TX-2					
SCALE:	2:1	DR:	Castello 5/14/57	D-81274	
ENG:	W. J. Miller	CK:	W. J. Miller 5/17/57		

COMPOSITE

COMPONENT

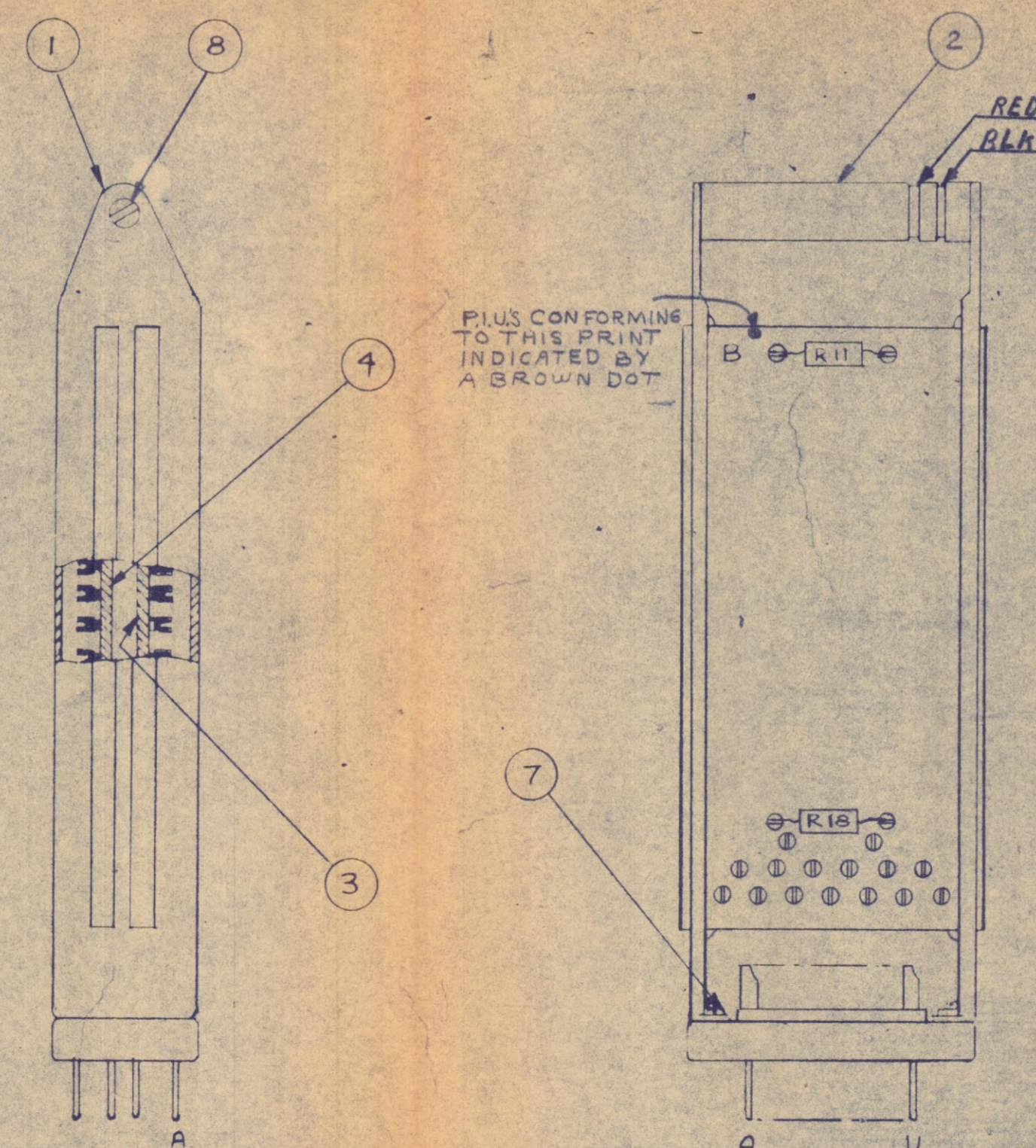
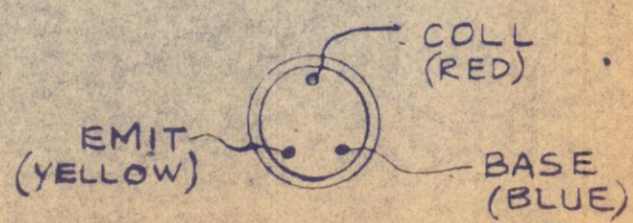
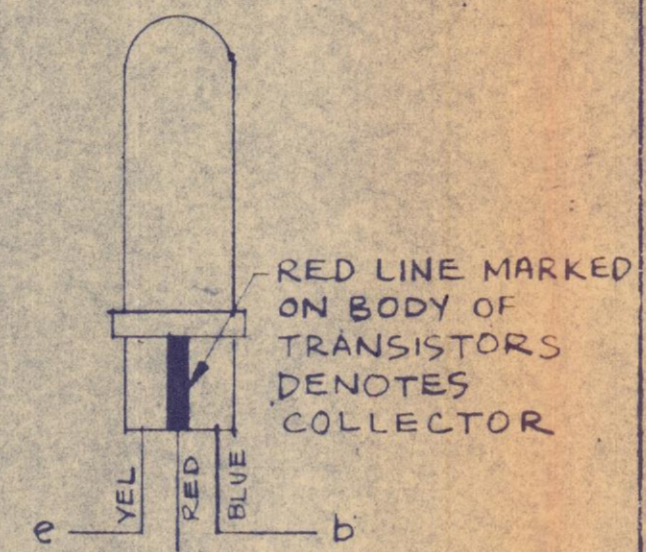
NOTES:-

- 1. UNLESS OTHERWISE SPECIFIED:  
A. TRANSISTORS ARE PHILCO #5122  
B. ALL RESISTORS ARE IN OHMS & ARE 1/2 WATT ± 5%  
C. ALL CAPACITORS ARE IN μfd & ARE GLENCO MINIATURE CERAMIC ± 10%
- 2. ALL WIRE #22 STRANDED
- 3. \* OMIT TRANSISTORS # Q7 & Q8

DRAWING REFERENCES:

- 1. DETAIL CARD: A-67223
- 2. 4:1 MASTER: B-
- 3. DETAIL, PLUG-IN UNIT C-66896
- 4. DETAIL, HANDLE: B-66898
- 5. PARTS LIST: PL-67285

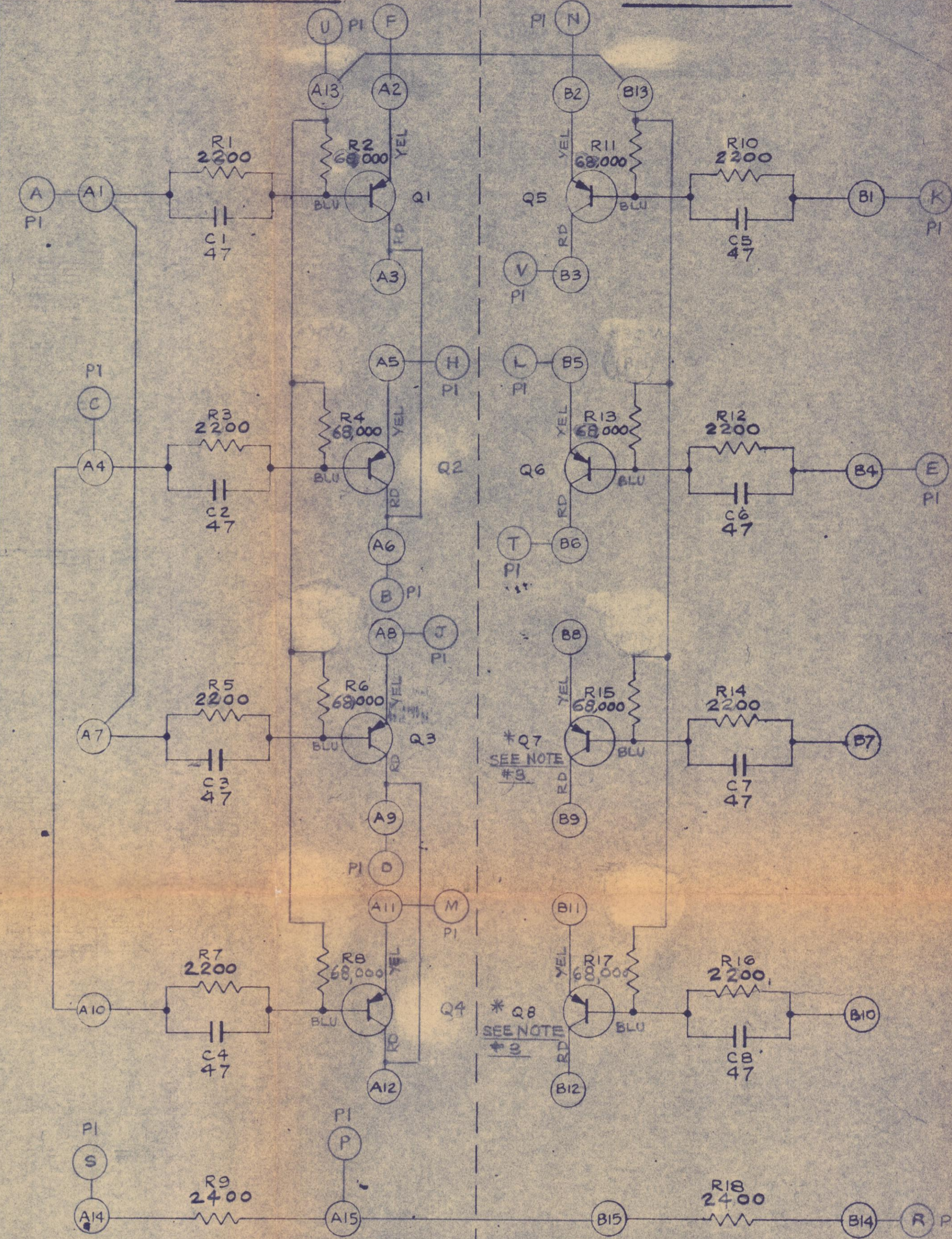
PHILCO #5122



SCALE 1:1

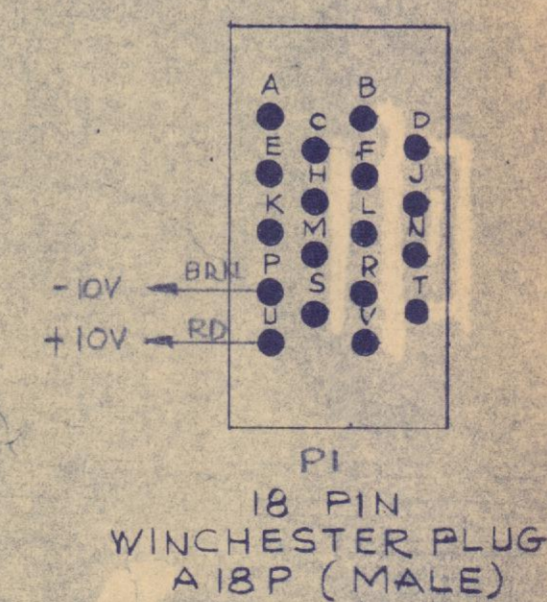
CARD "A"

CARD "B"



NOTE:

- (A) DENOTES LUG 1 ON CARD A
- (B) DENOTES PIN B ON PI

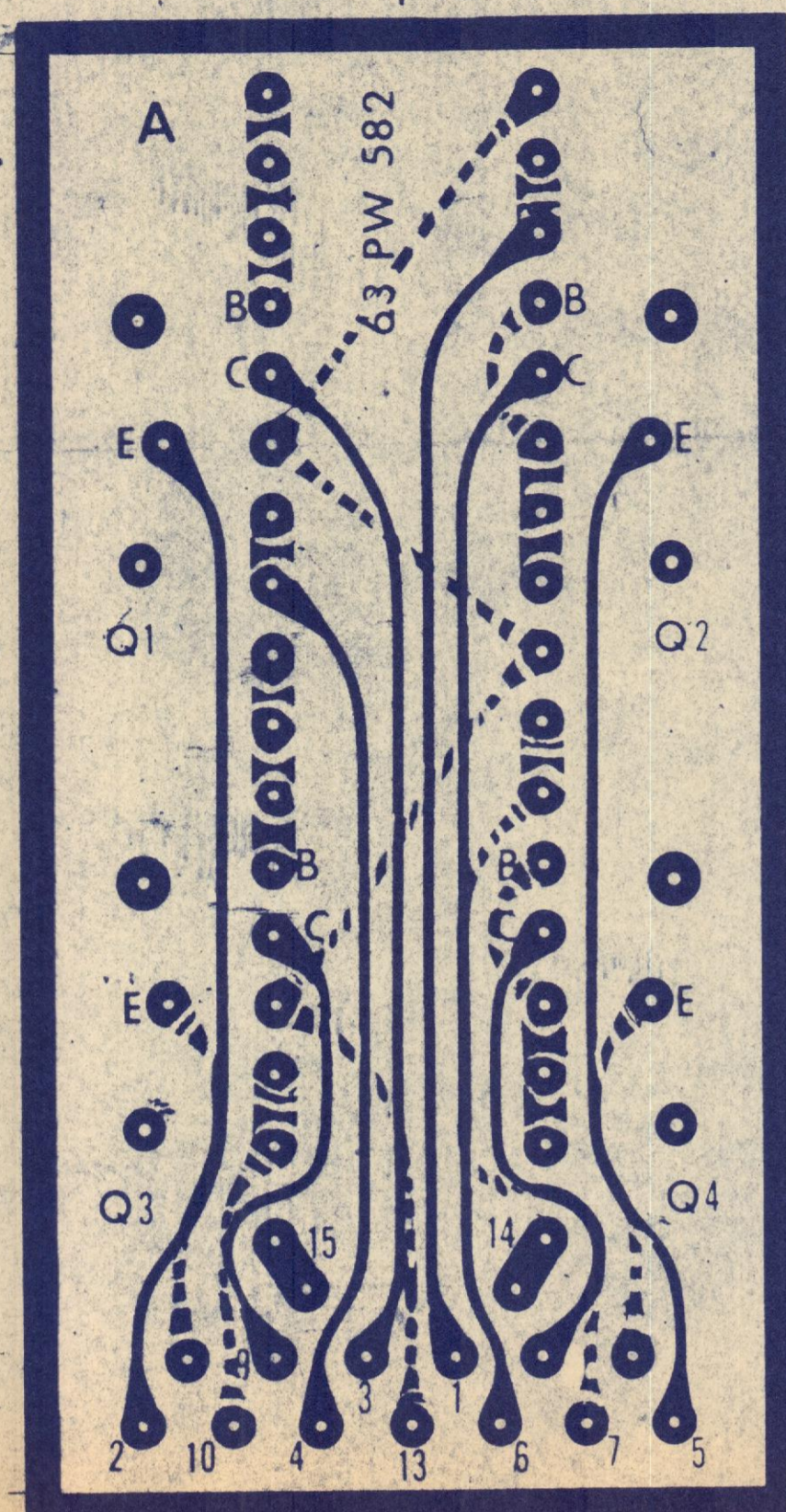


PRINT ISSUED  
MAR 25 1957

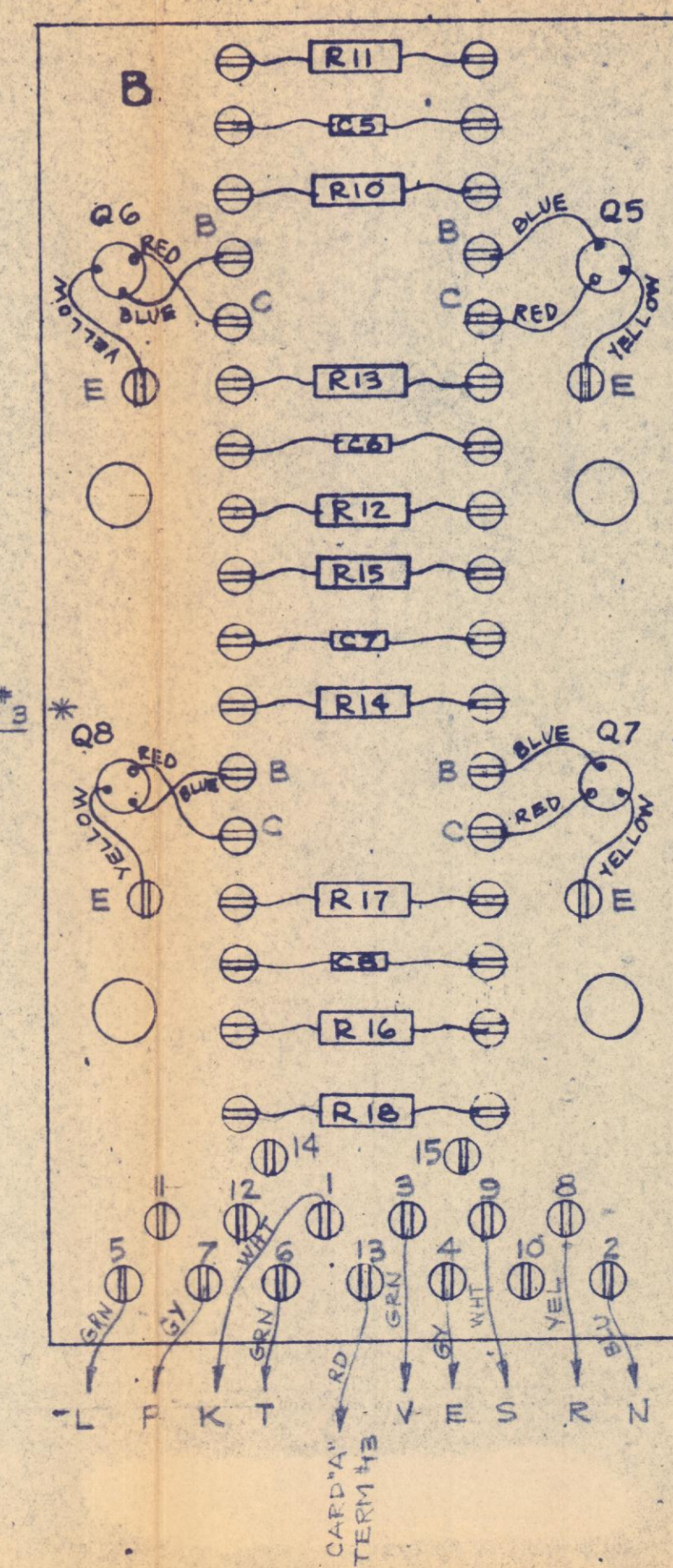
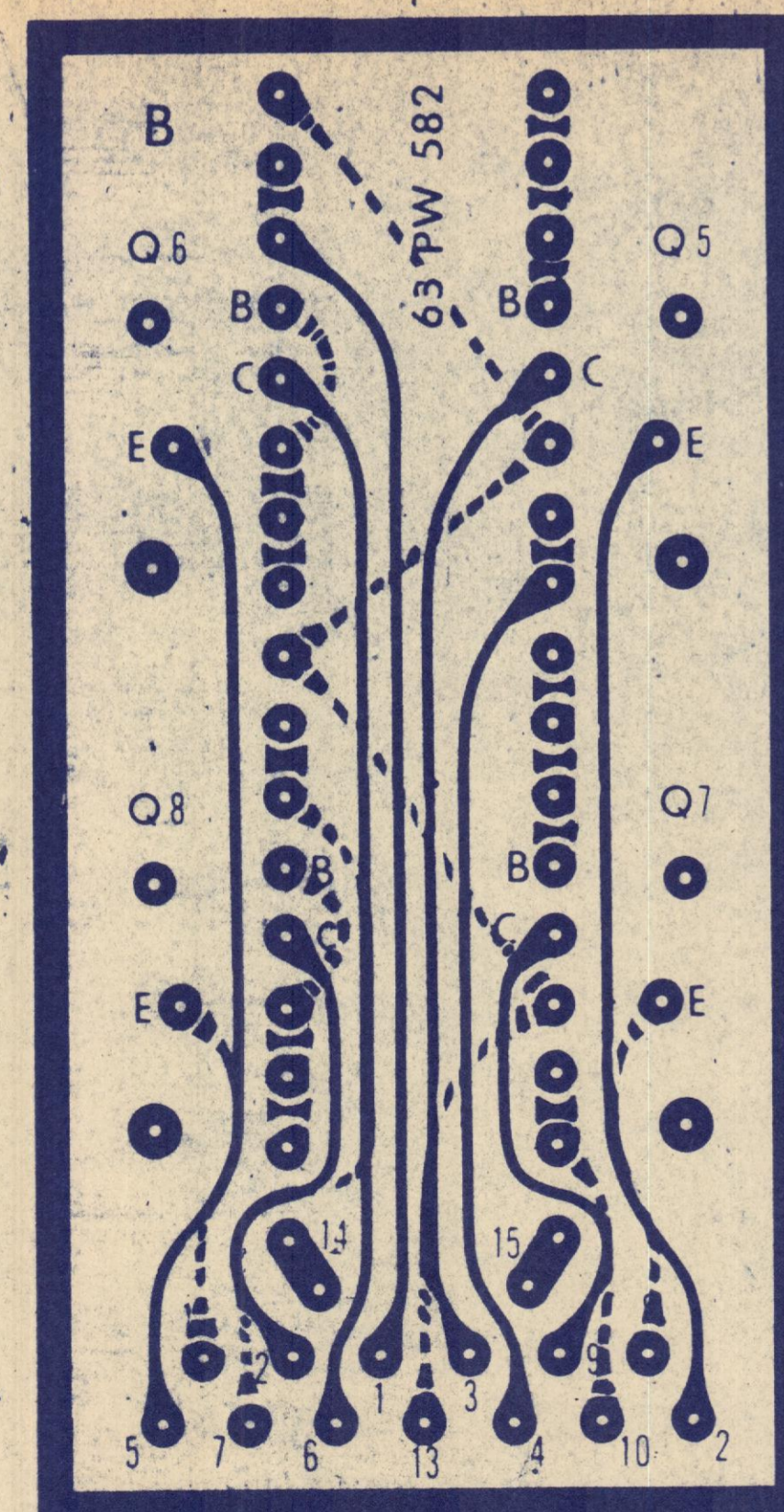
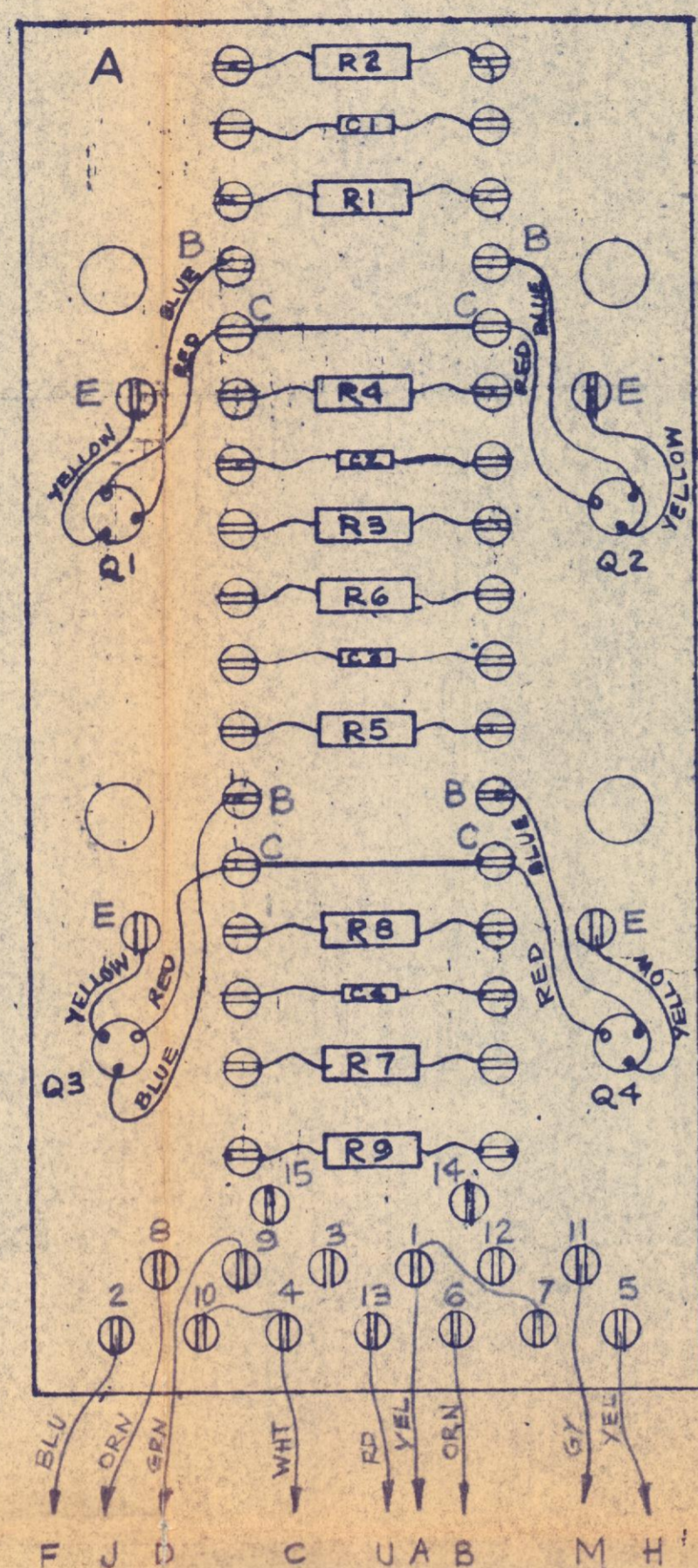
*K. Olsen*

GRADE I FOR REFERENCE ONLY		GRADE II PRELIMINARY DESIGN		GRADE III FINAL DESIGN	
GRADED BY: DATE:		ITEM		MATERIAL-DESCRIPTION	
		PART NO.		QTY.	
LINCOLN LABORATORY DIV. 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73, MASS.					
ABSY COMPOSITE & SCHEMATIC, P.I.U. PARALLEL (G) INVERTER, TX-2					
SCALE 2:1 OR L56/9-18-56					
ENG 9-26-54 CK 2-22-56 APPD 7-26-58					
D-67285					

COMPOSITE



COMPONENT



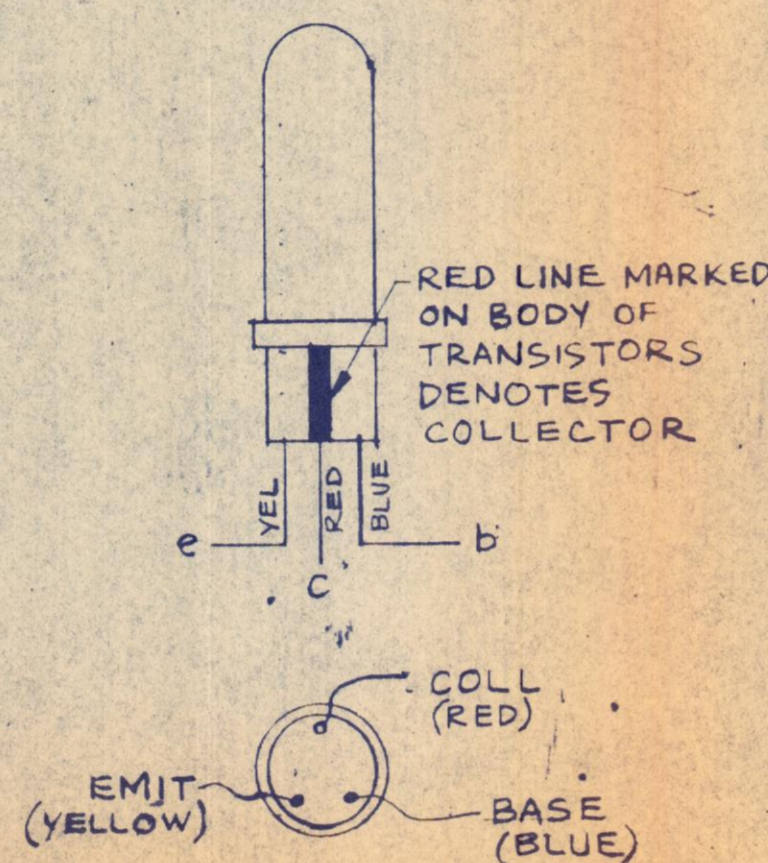
NOTES:-

- 1. UNLESS OTHERWISE SPECIFIED:  
A. TRANSISTORS ARE PHILCO # 5122  
B. ALL RESISTORS ARE IN OHMS & ARE 1/2 WATT ± 5%  
C. ALL CAPACITORS ARE IN  $\mu\mu\text{fd}$  & ARE GLENCO MINIATURE CERAMIC ± 10%
- 2. ALL WIRE #22 STRANDED
- 3. \*OMIT TRANSISTOR # Q8

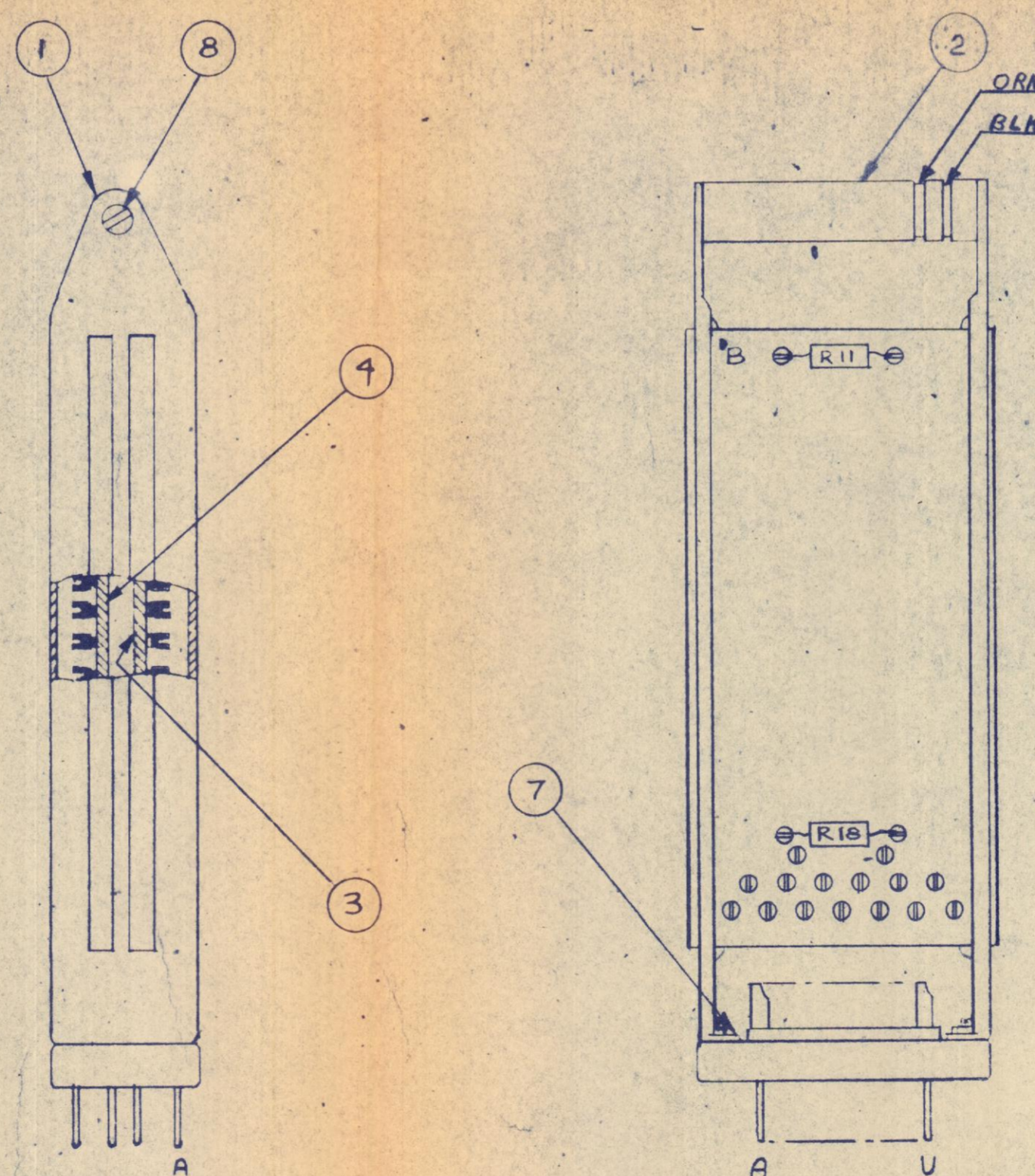
DRAWING REFERENCES:

- 1. DETAIL CARD: A-67223
- 2. 4:1 MASTER: B-
- 3. DETAIL, PLUG-IN UNIT C-66896
- 4. DETAIL, HANDLE: B-66898
- 5. PARTS LIST: PL-67256

PHILCO # 5122

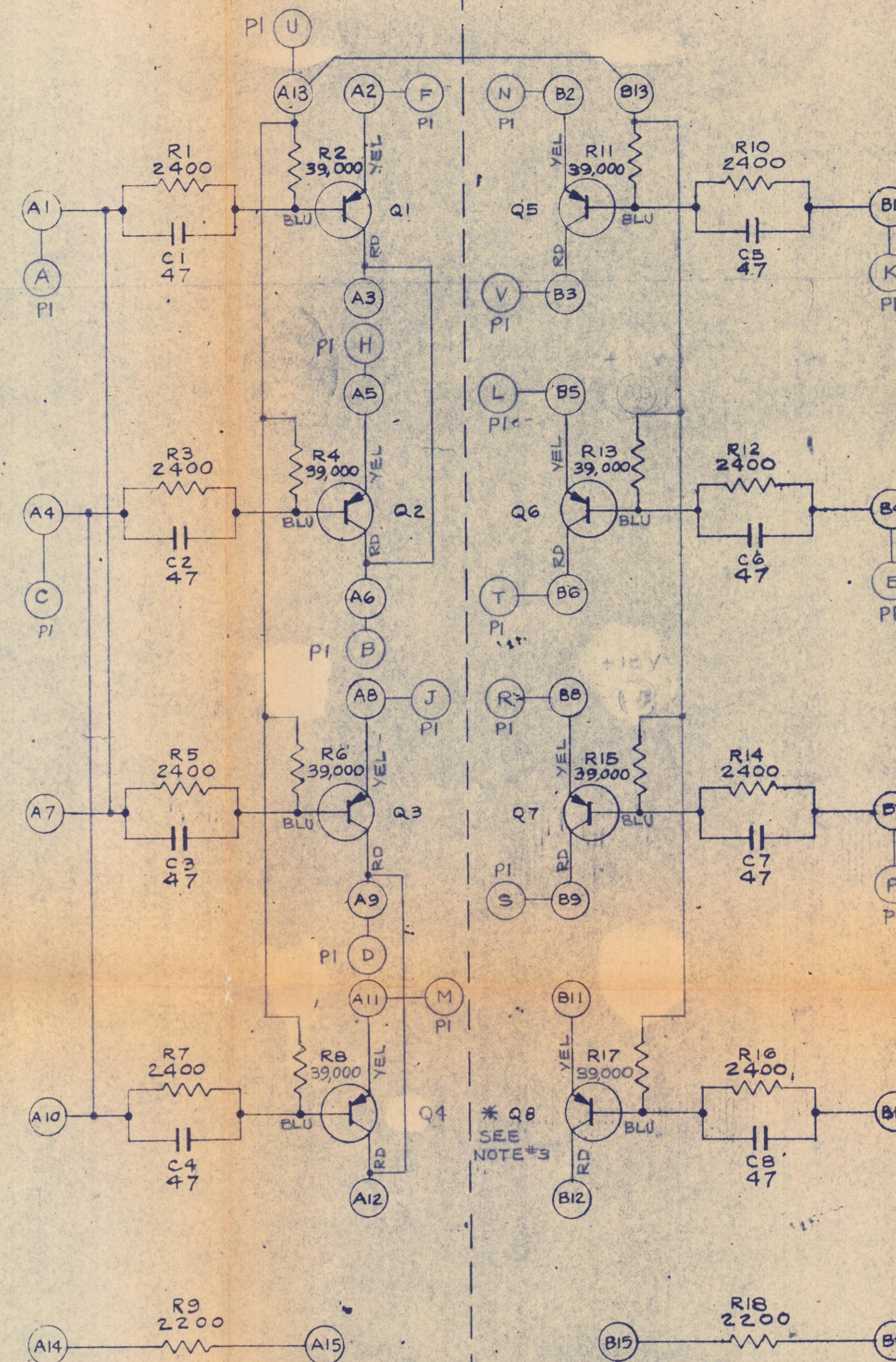


SCALE 4:1

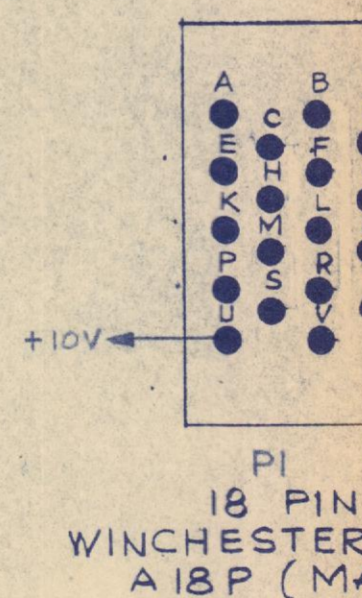


SCALE 1:1

CARD "A"



CARD "B"



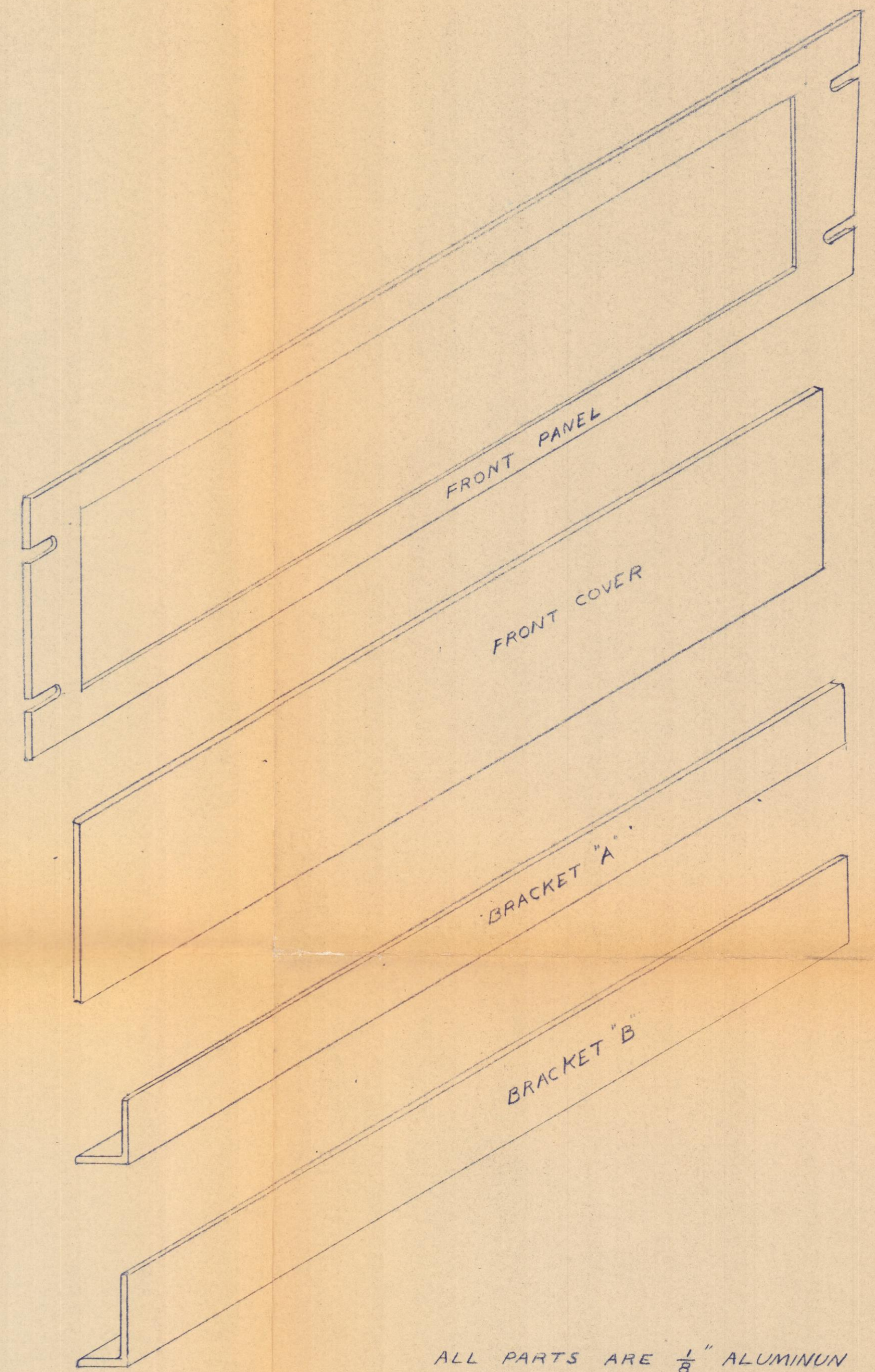
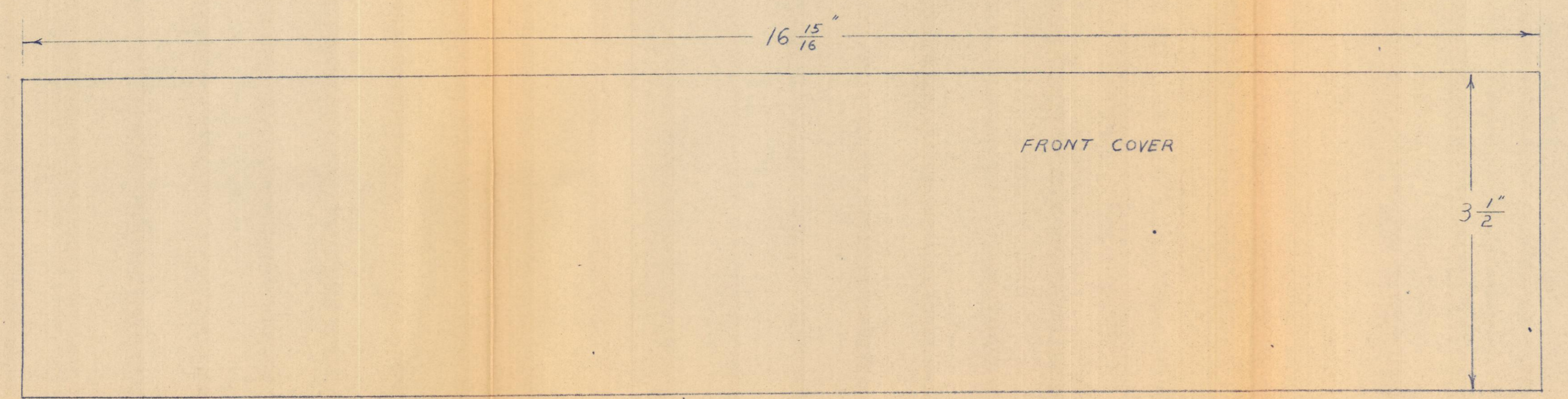
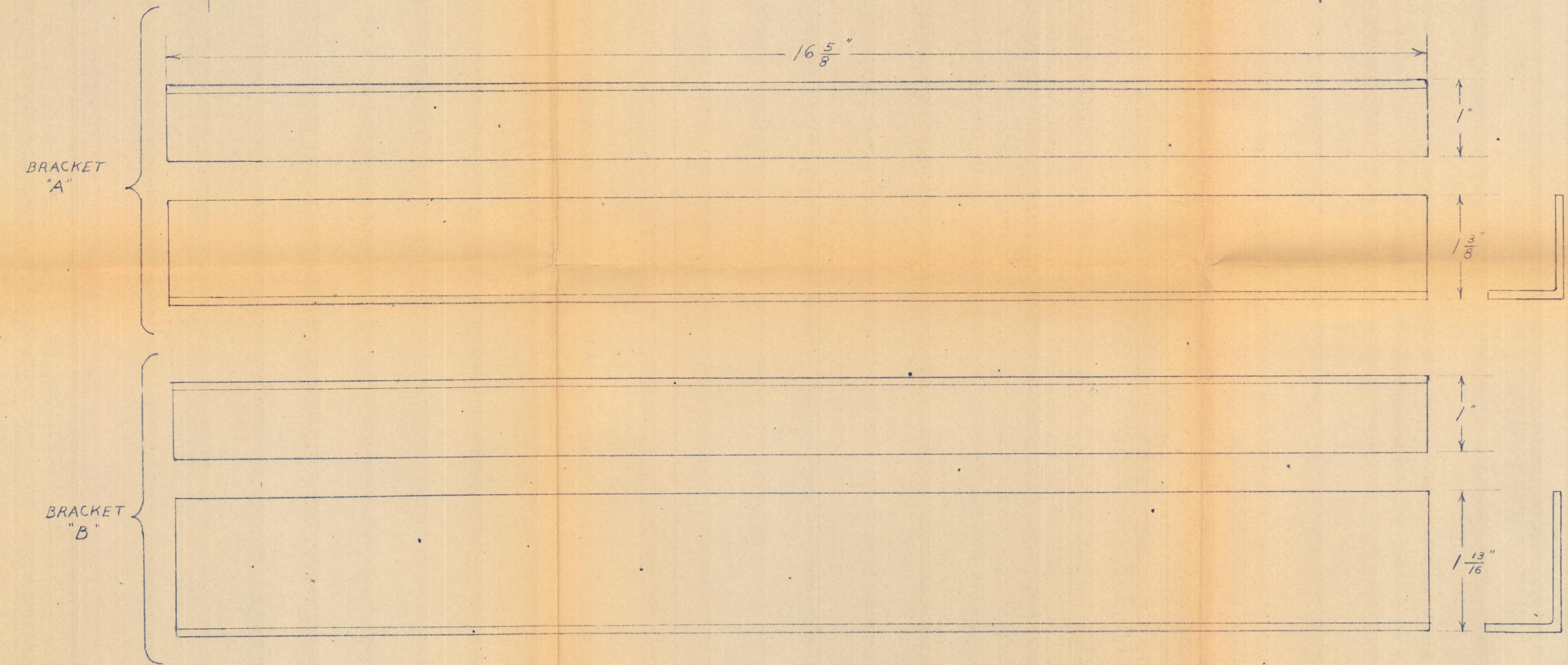
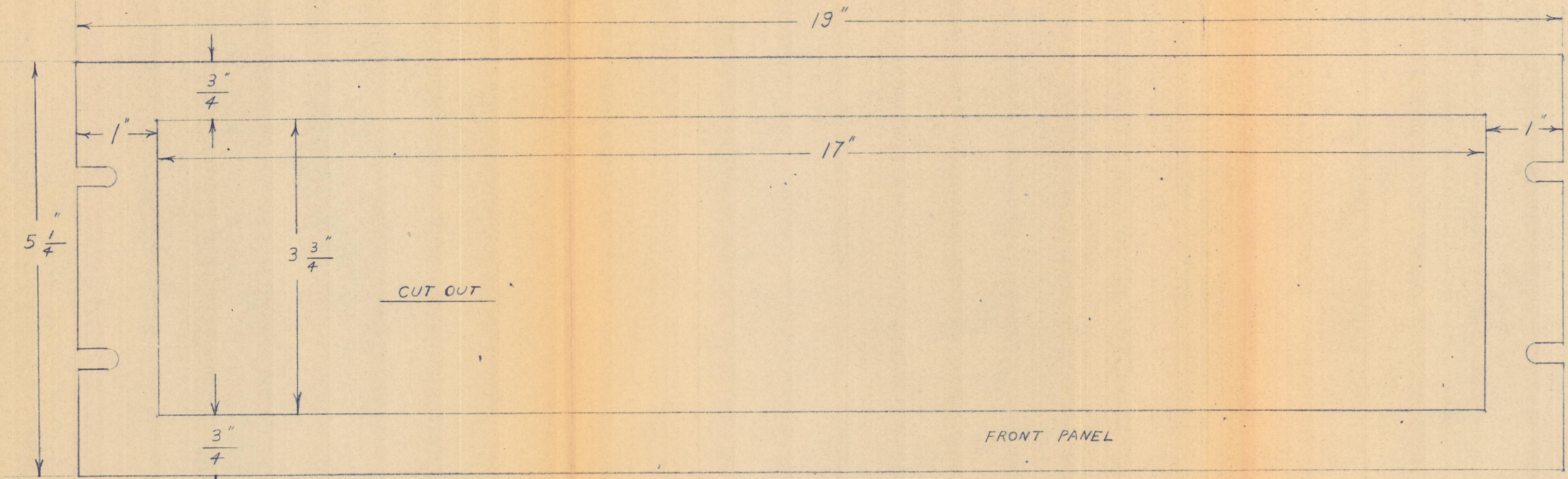
18 PIN WINCHESTER PLUG A 18 P (MALE)

NOTE:

- (A) DENOTES LUG 1 ON CARD A
- (B) DENOTES PIN B ON PI

PRINT ISSUED  
OCT 22 1956

GRADE I FOR REFERENCE ONLY		GRADE II PRELIMINARY DESIGN		GRADE III FINAL DESIGN	
ITEM	MATERIAL-DESCRIPTION	PART NO	QTY	DATE	APPD
LINCOLN LABORATORY DIV. 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73, MASS.					
ASSY. COMPOSITE & SCHEMATIC, P.I.U. PARALLEL (7) INVERTER, TX-2					
SCALE 2:1 OR 1.56 9-18-56					
ENG 7-26-56 CK 9-21-56 APPD 9-26-56					
D-67256					



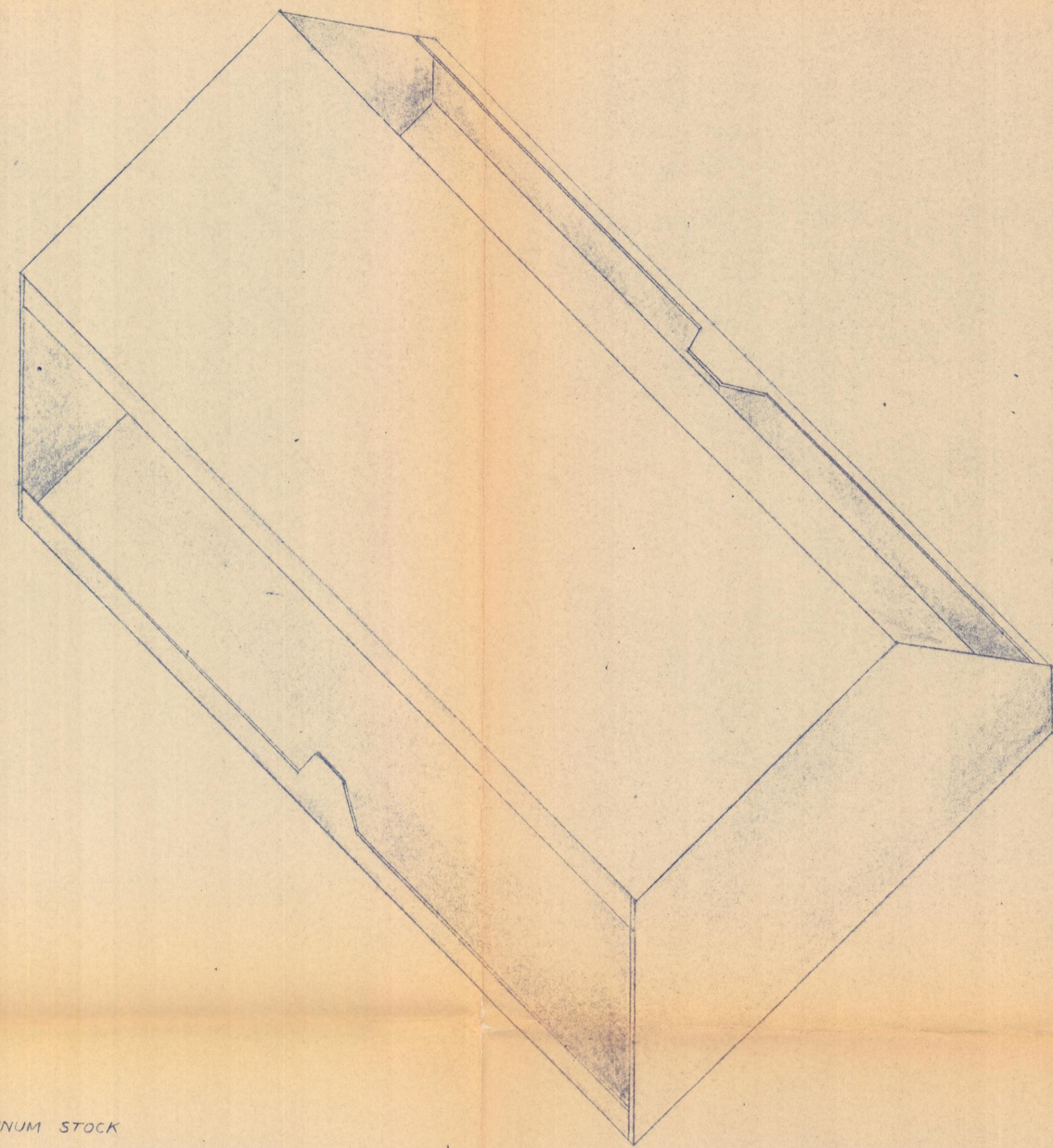
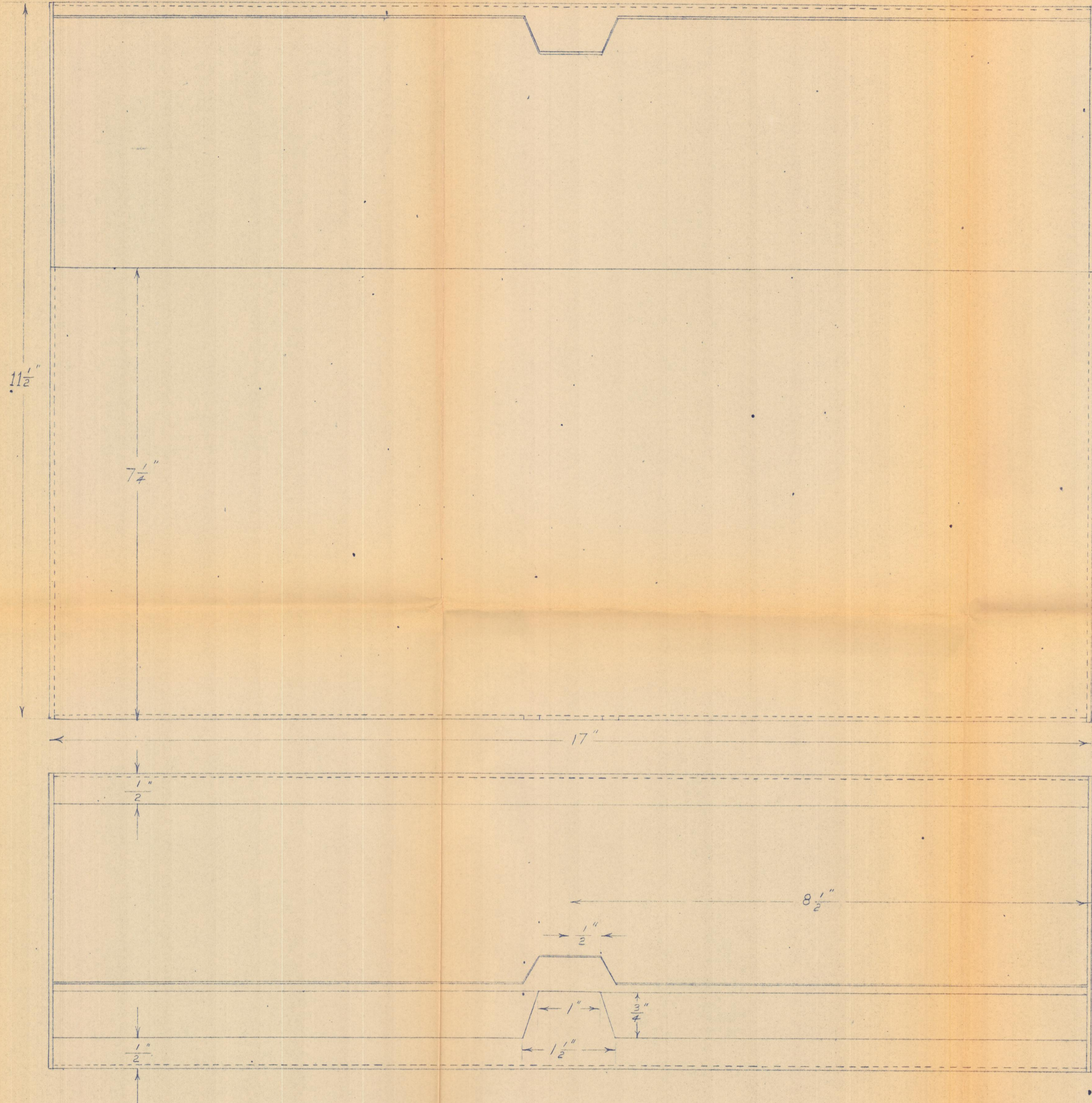
ALL PARTS ARE 1/8" ALUMINUM  
 FRONT PANEL CAN BE MADE FROM  
 STANDARD 5 1/4" RACK PANEL

PRINT ISSUED  
 OCT 26 1956

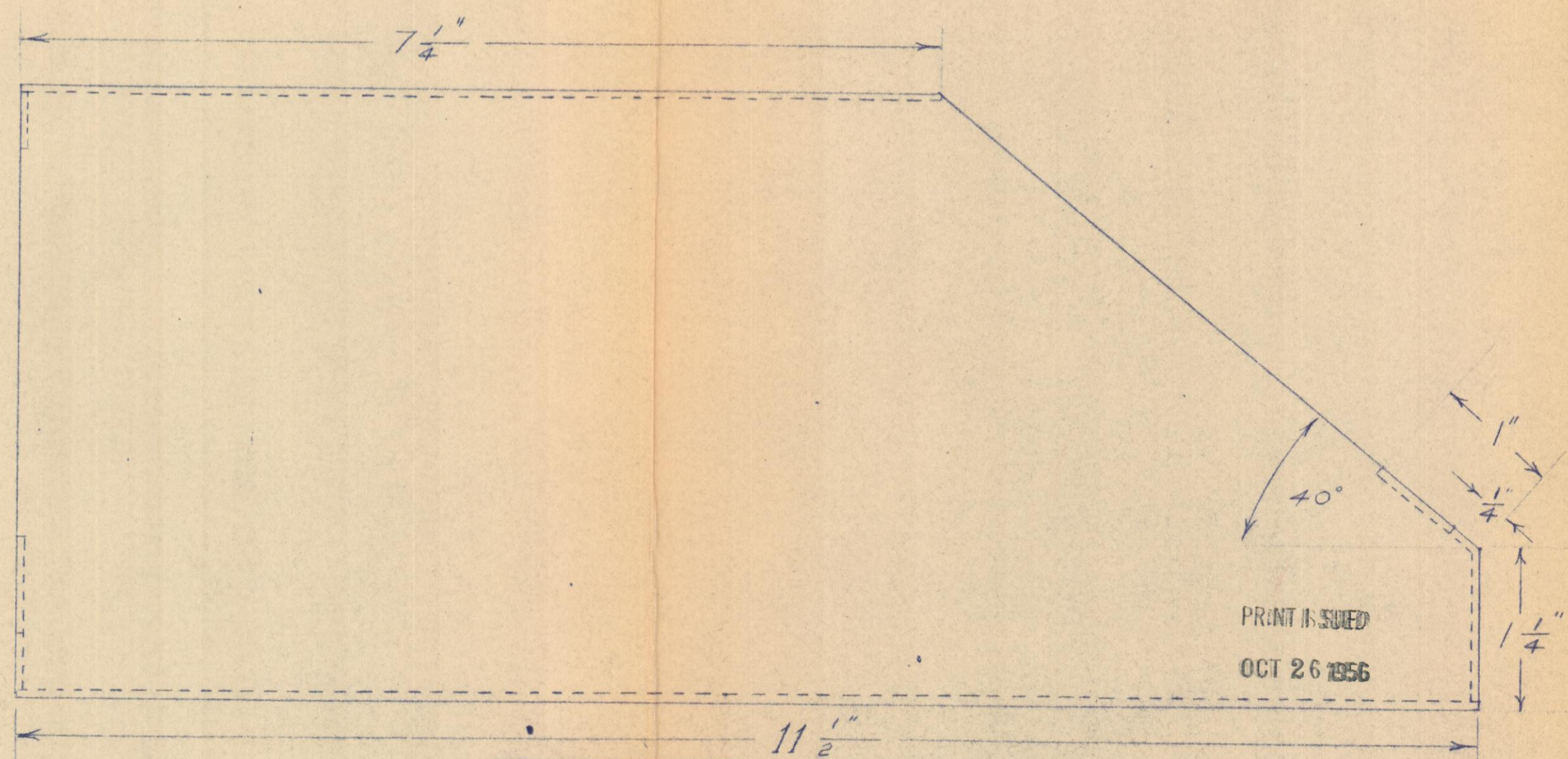
GRADE I FOR REFERENCE ONLY		AL. SHEET 1/8" THK.	
GRADE II PRELIMINARY DESIGN		MATERIAL - DESCRIPTION	
GRADE III FINAL DESIGN		PART NO. QTY.	
GRADED BY: DATE:		LINCOLN LABORATORY DIV. 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73, MASS.	
SCALE: 1:1		FRONT PANEL, FRONT COVER, AND BRACKETS FOR PLUG-IN DECODER TX-2	
DR. DOBBYN E.		TX-2	
ENG. B. GURLEY	CK. [Signature]	APPD. [Signature]	SD-68072

SD-68071

TOLERANCES NOT OTHERWISE SPECIFIED  
 DECIMAL ± .005 FRACTIONAL ± 1/64 ANGULAR ± 1/2°  
 DIMENSIONS ENCLOSED THUS [ ] FOR REFERENCE ONLY



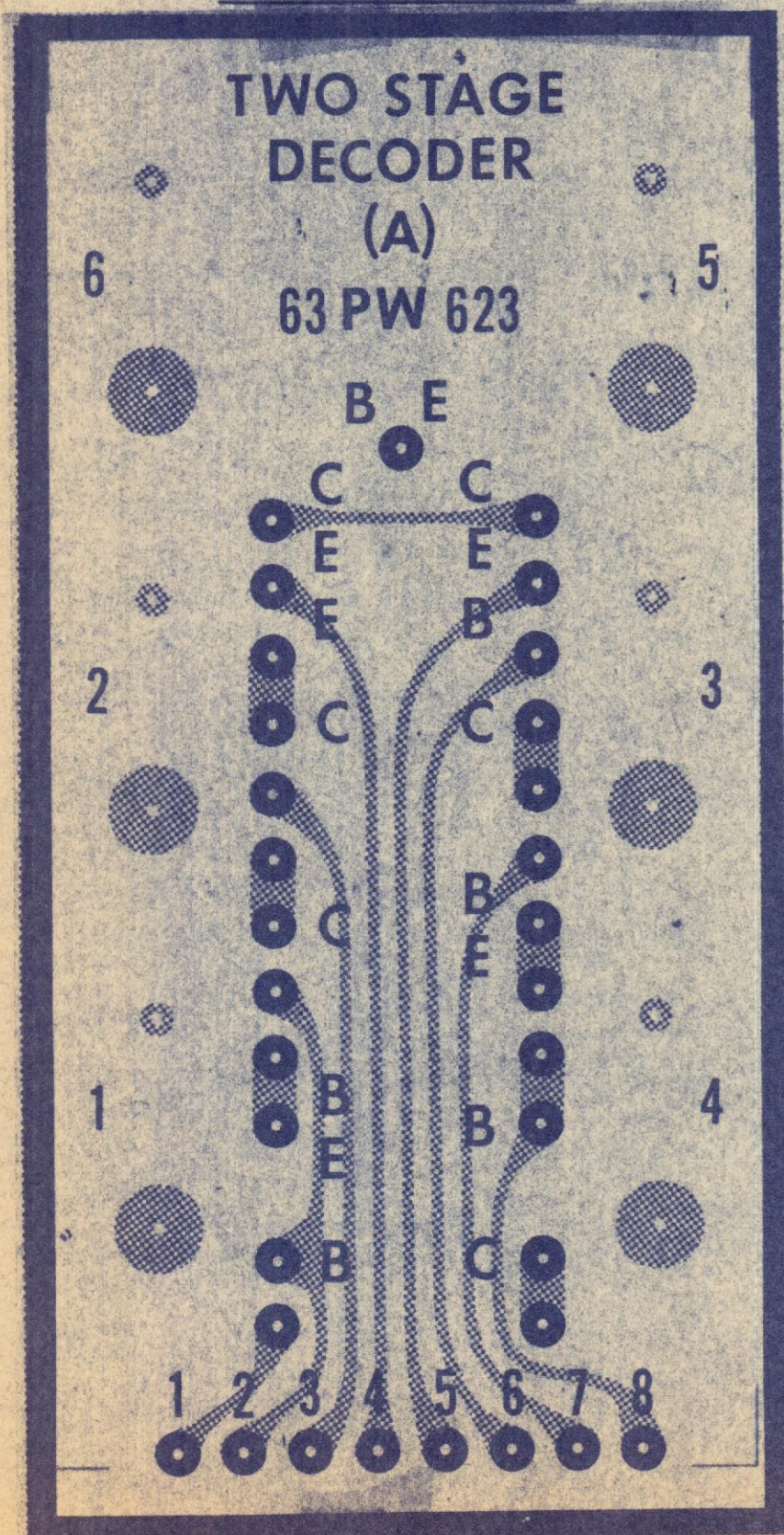
1/16 ALUMINUM STOCK



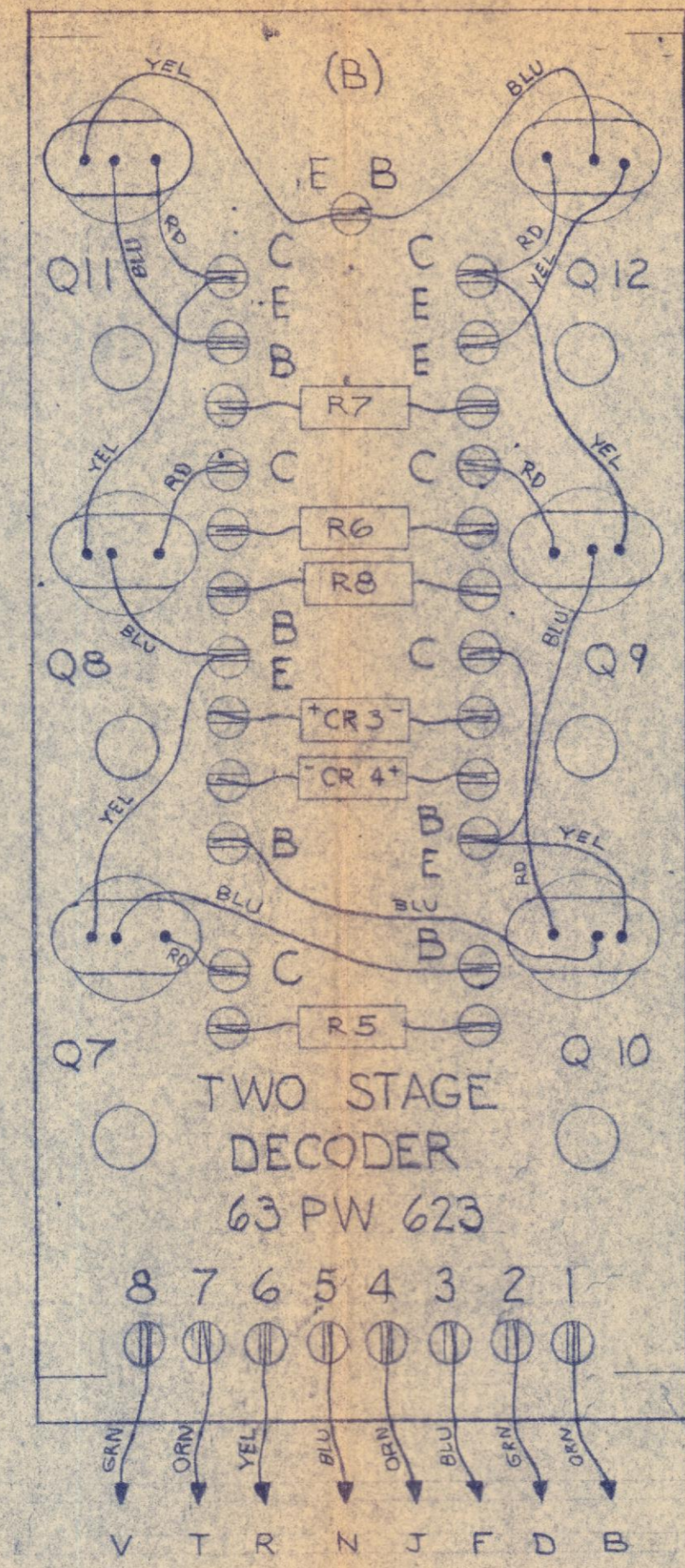
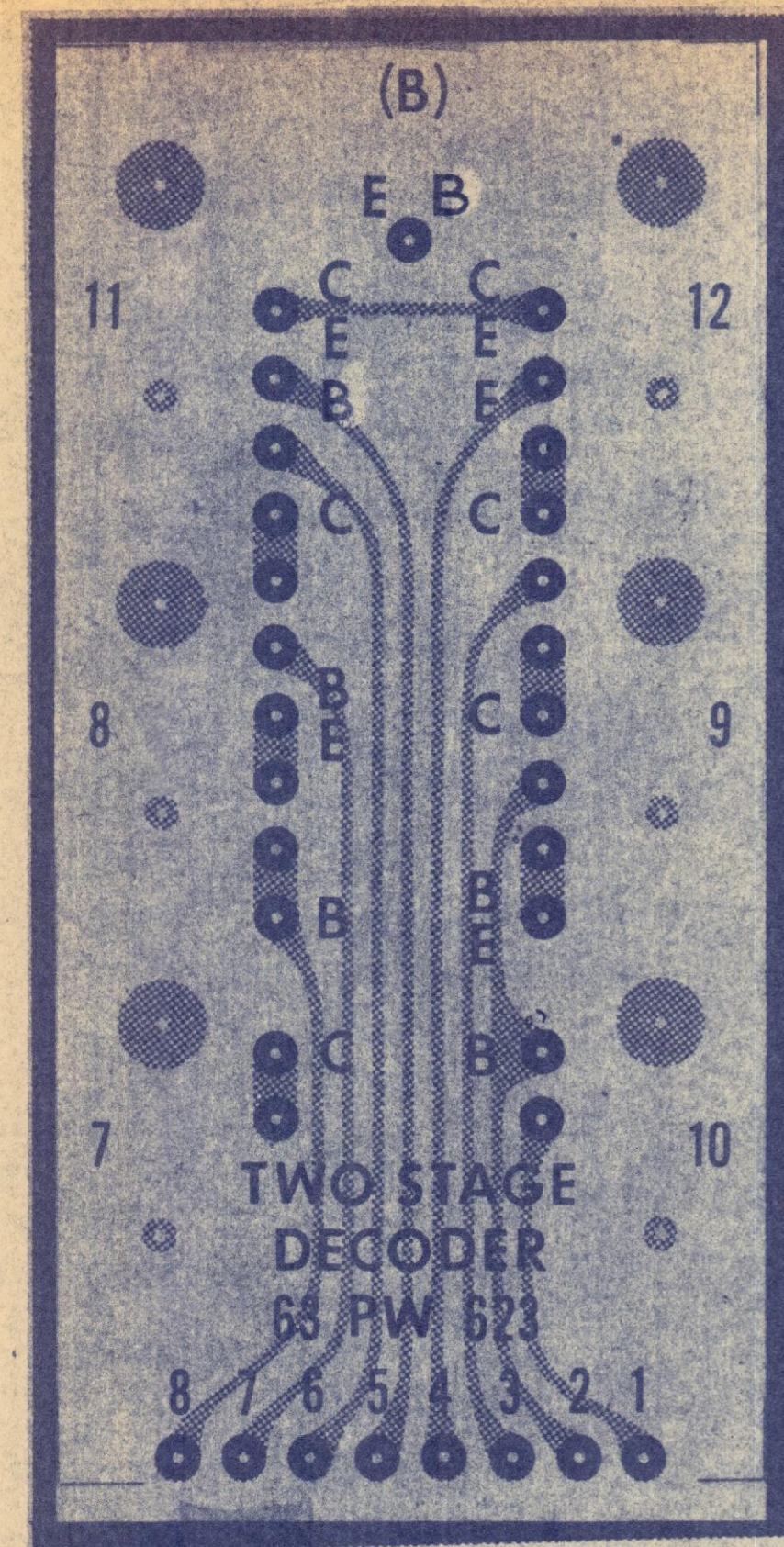
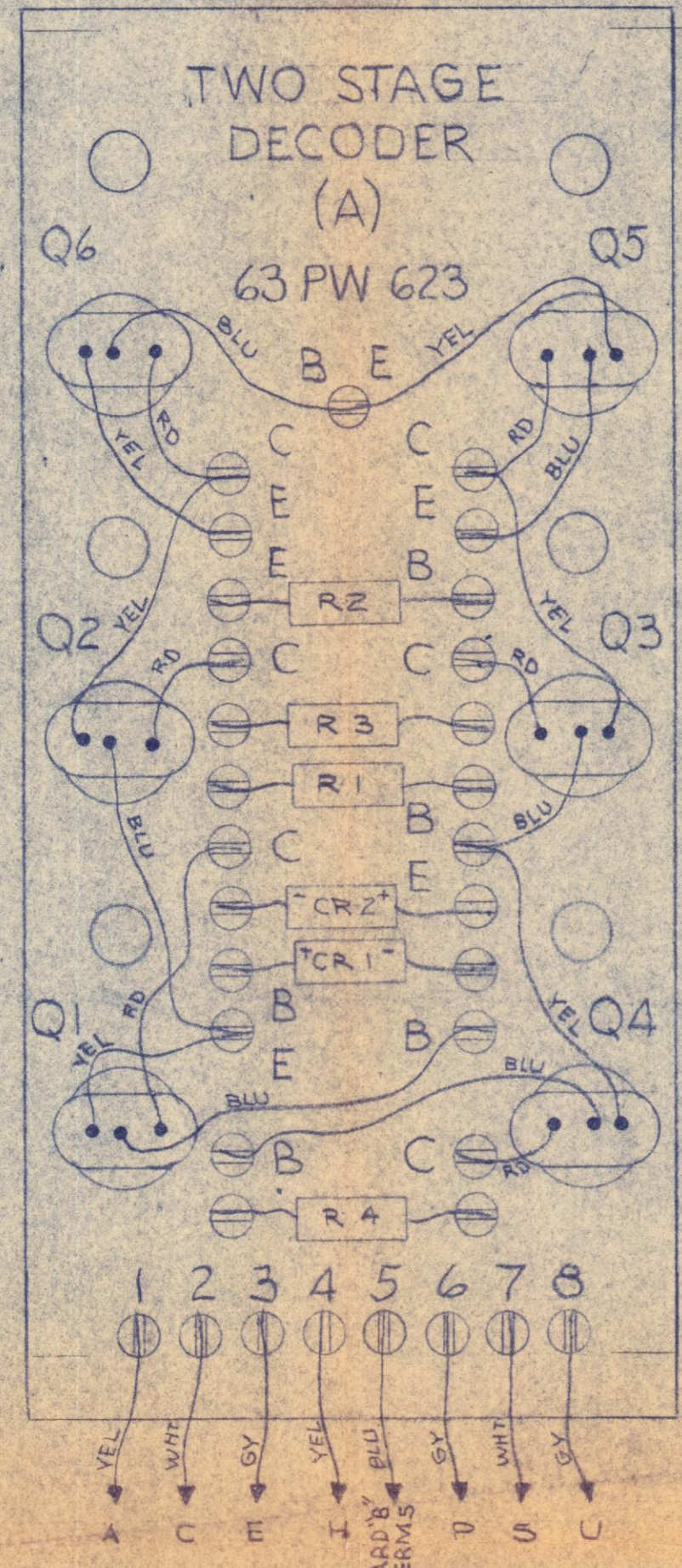
GRADE I FOR REFERENCE ONLY		AL. SHEET, 1/16 THK.	
GRADE II PRELIMINARY DESIGN		PART NO. QTY.	
GRADE III FINAL DESIGN		LINCOLN LABORATORY DIV. 6	
GRADED BY: DATE:		MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
		LEXINGTON 73, MASS.	
		CHASSIS LAYOUT FOR PLUG-IN	
		DECODER TX-2	
		SCALE: 1:1 DR. E. DOBBYN	
		ENG. B. GURLEY	
		CK. [Signature] APPD. [Signature]	
		SD-68071	



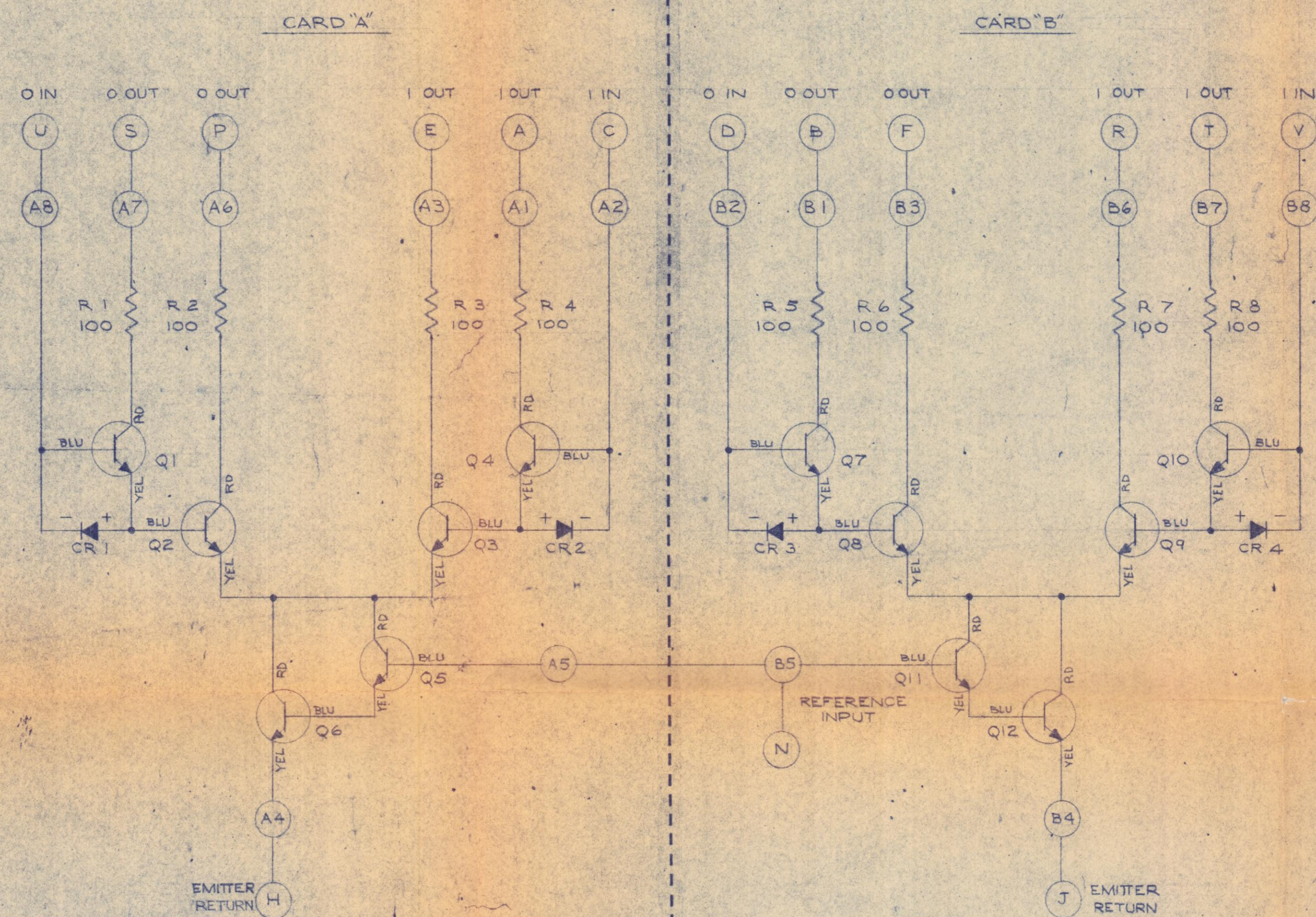
COMPOSITE



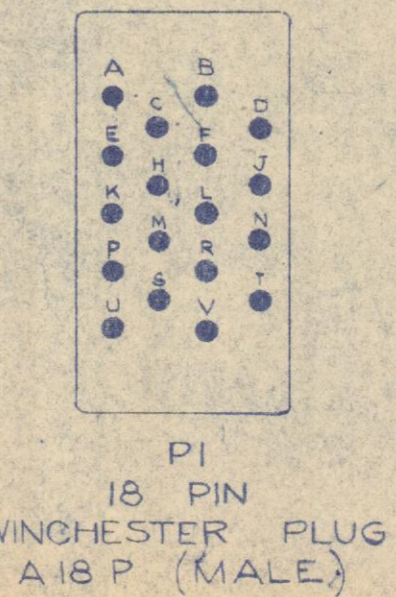
COMPONENT



SCHEMATIC:



(A7) DENOTES, TERMINAL 7 CARD 'A'  
(H) DENOTES, PIN H ON PLUG P1.

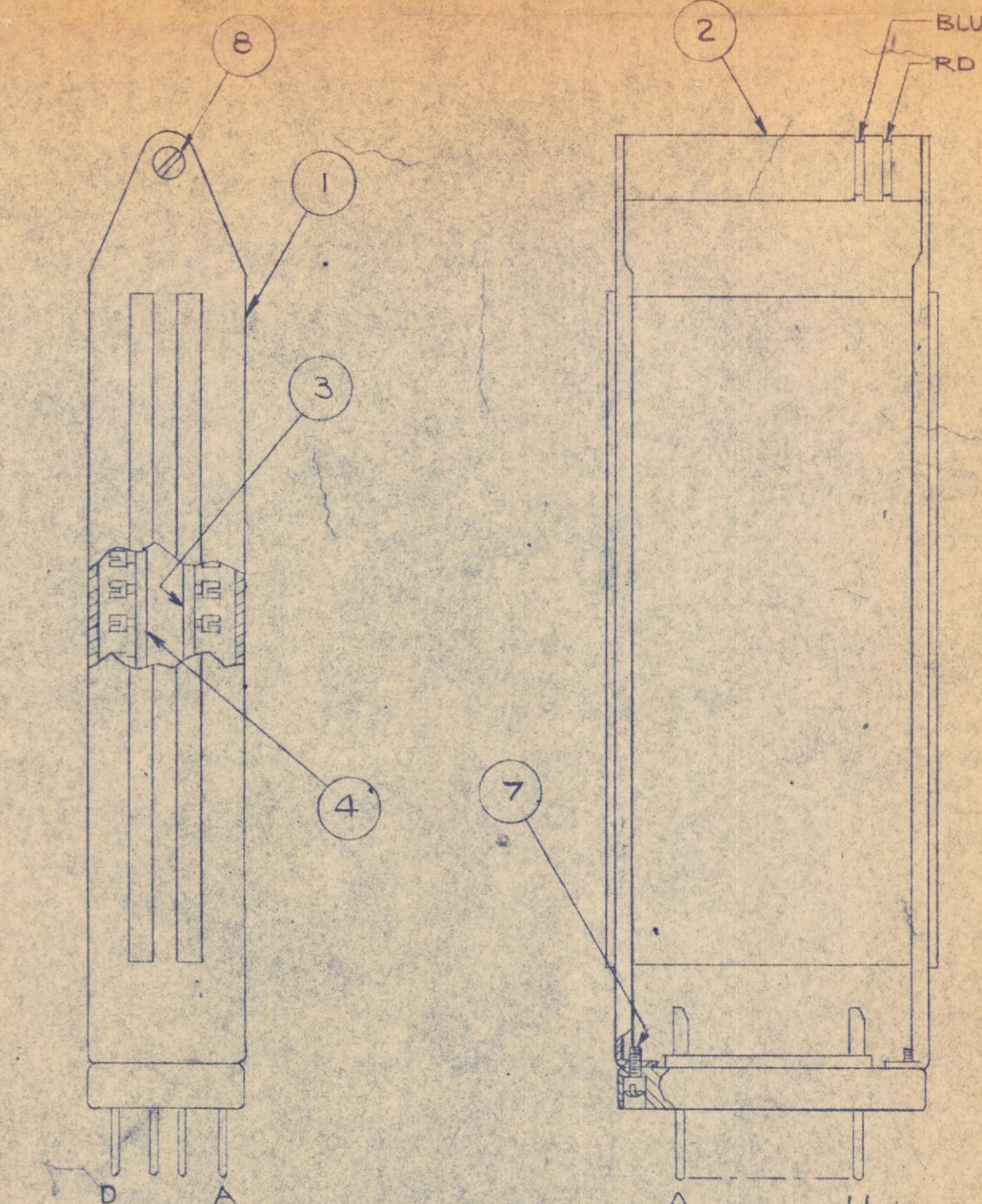
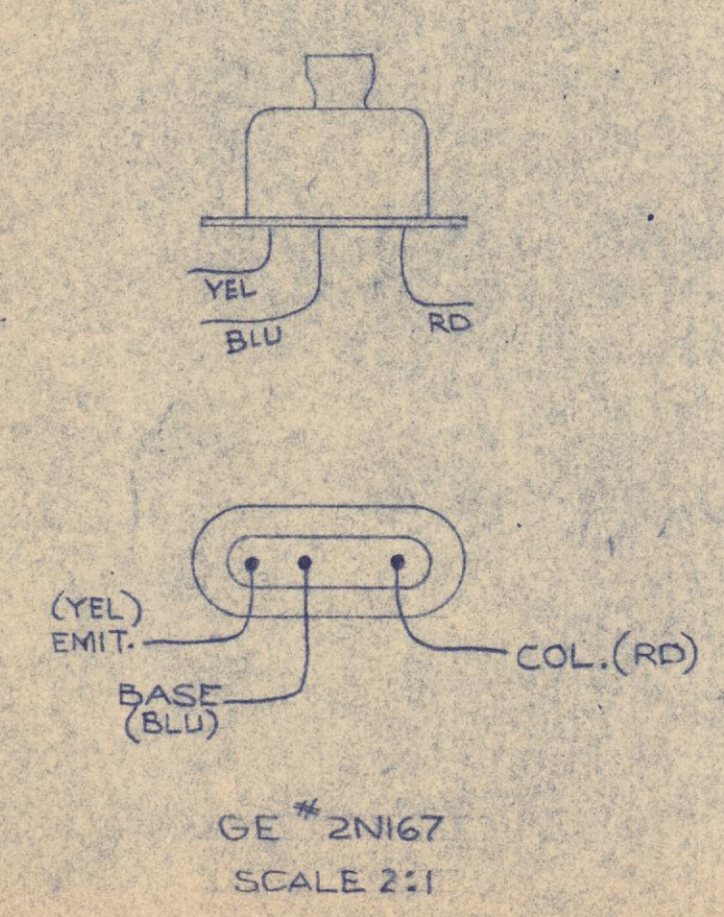


NOTES:

- 1. ALL RESISTORS ARE 1/2W 15%.
- 2. TRANSISTORS ARE GE #2N167.
- 3. CRYSTAL RECTIFIERS ARE TRANSITRON SG-22 (SILICON).

DRAWING REFERENCE:

PARTS LIST: PL-68017



GRADE I FOR REFERENCE ONLY		ITEM	MATERIAL - DESCRIPTION	PART NO.	QTY.
GRADE II PRELIMINARY DESIGN		LINCOLN LABORATORY DIV. 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73, MASS.			
GRADE III FINAL DESIGN		ASSY, COMPOSITE & SCHEMATIC, P.I.U. TWO STAGE DECODER, TX-2.			
PRINT ISSUED		SCALE:	DR. V. PARZIALE		
NOV 28 1956		2:1	10/27/56		
ENG. BY: [Signature]	CK. [Signature]	D-68017			

DL-1530

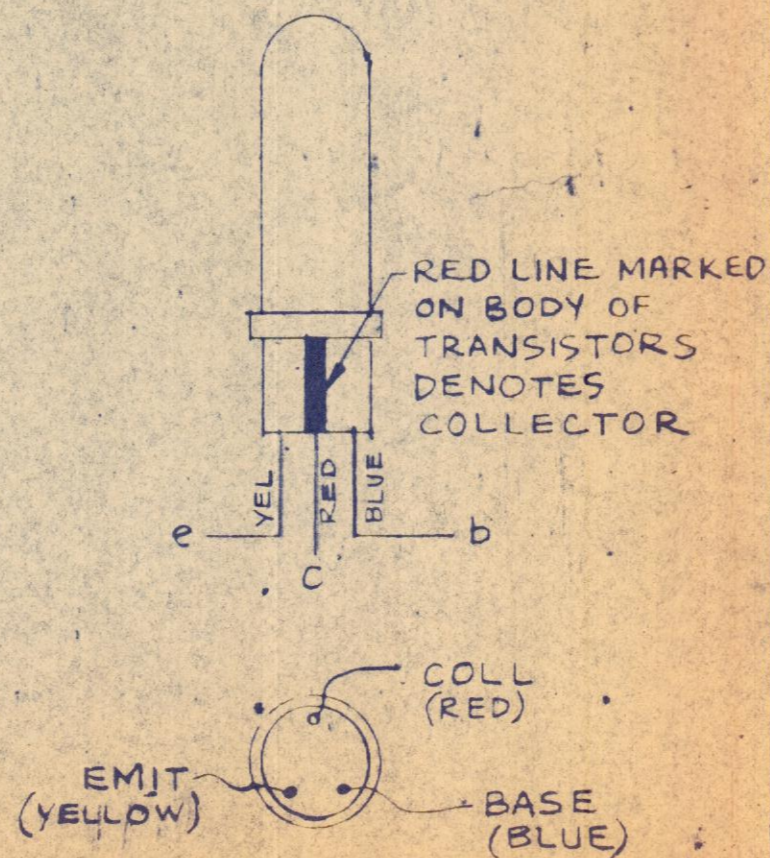
NOTES:-

- UNLESS OTHERWISE SPECIFIED:  
A. TRANSISTORS ARE PHILCO #5122  
B. ALL RESISTORS ARE IN OHMS & ARE 1/2 WATT  $\pm 5\%$   
C. ALL CAPACITORS ARE IN  $\mu\text{fd}$  & ARE GLENCO MINIATURE CERAMIC  $\pm 10\%$
- ALL WIRE #22 STRANDED
- OMIT TRANSISTORS # Q1, Q2, Q5 & Q6

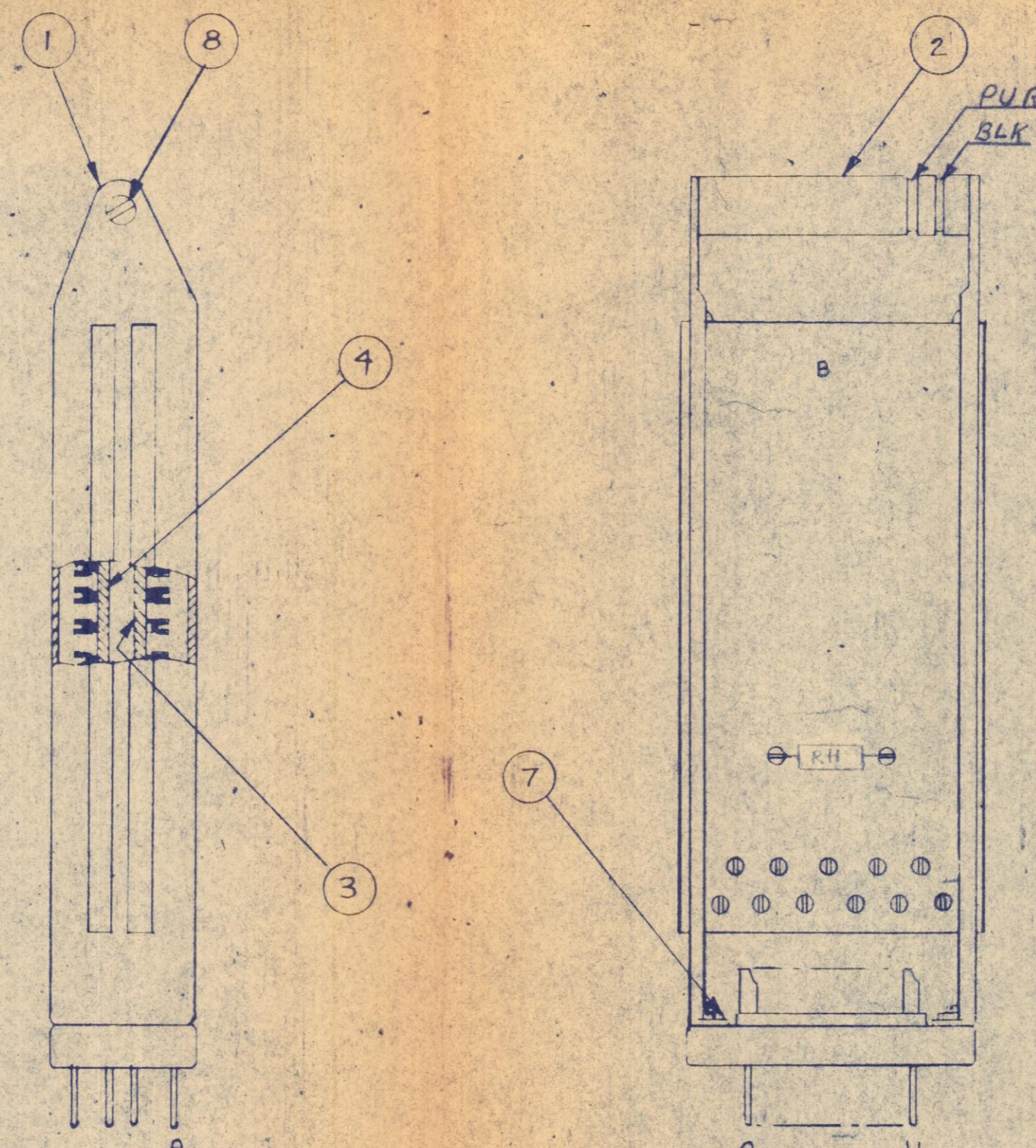
DRAWING REFERENCES:

- DETAIL CARD: A-67223
- 4:1 MASTER: B-
- DETAIL, PLUG-IN UNIT C-66896
- DETAIL, HANDLE: B-66898
- PARTS LIST: PL-67272

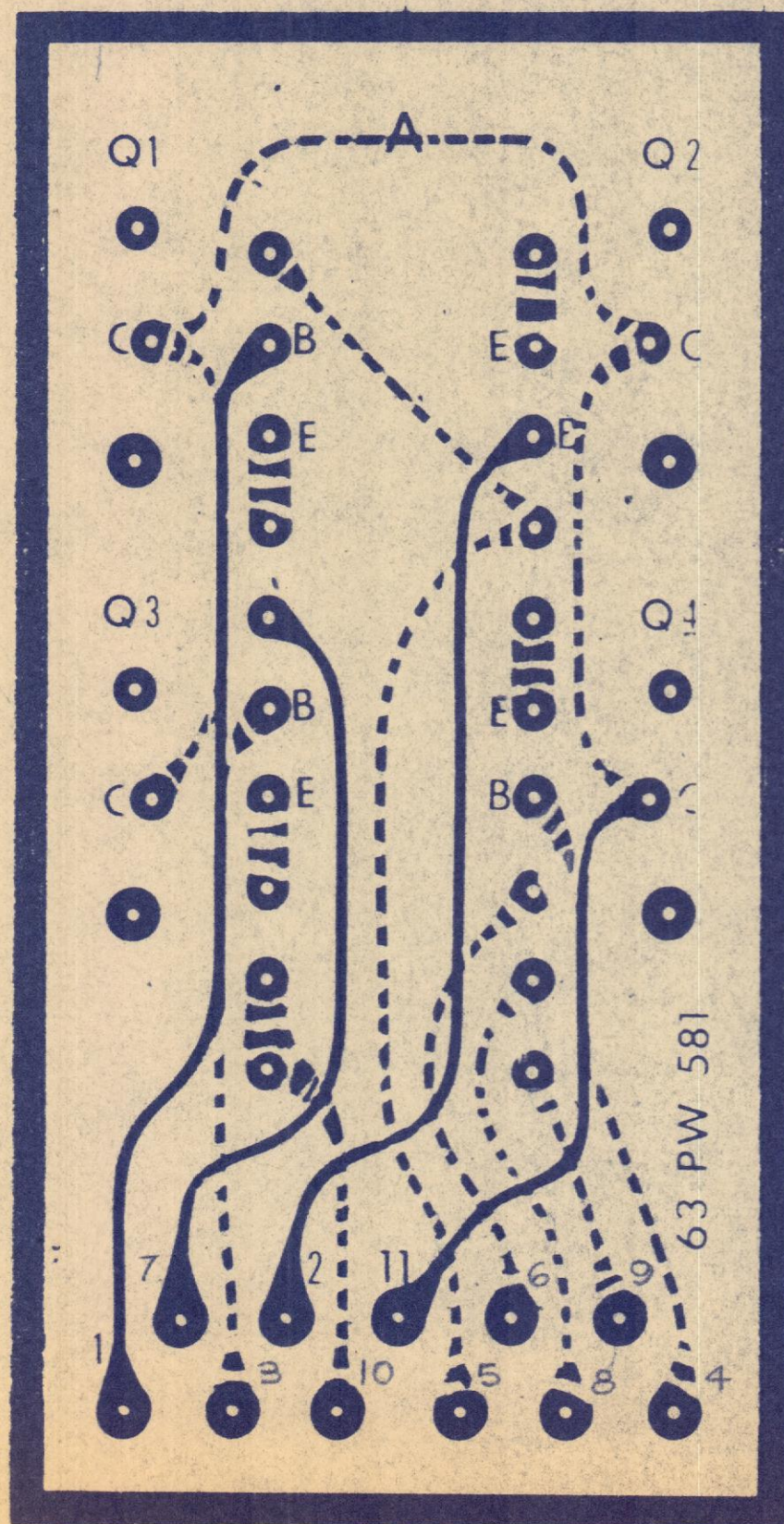
PHILCO #5122



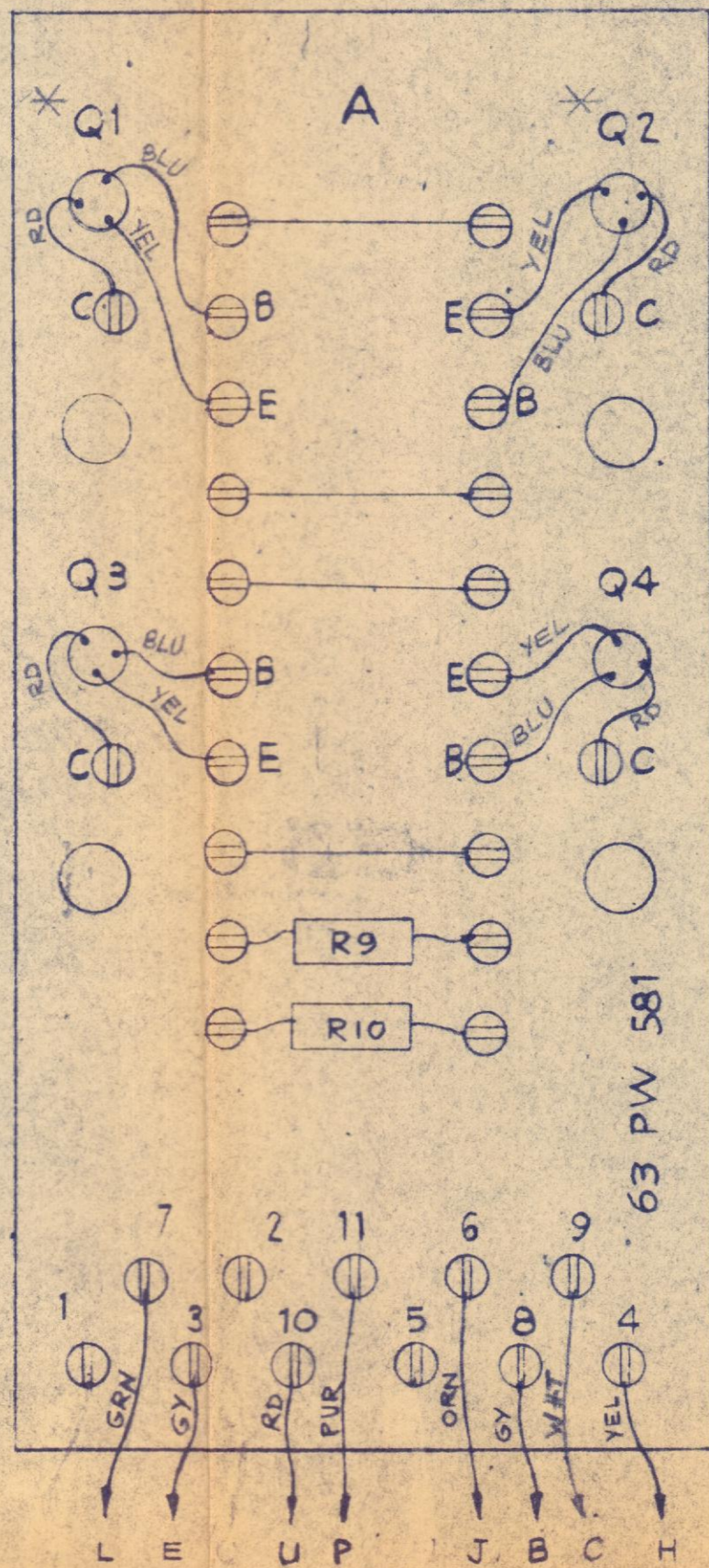
SCALE 4:1



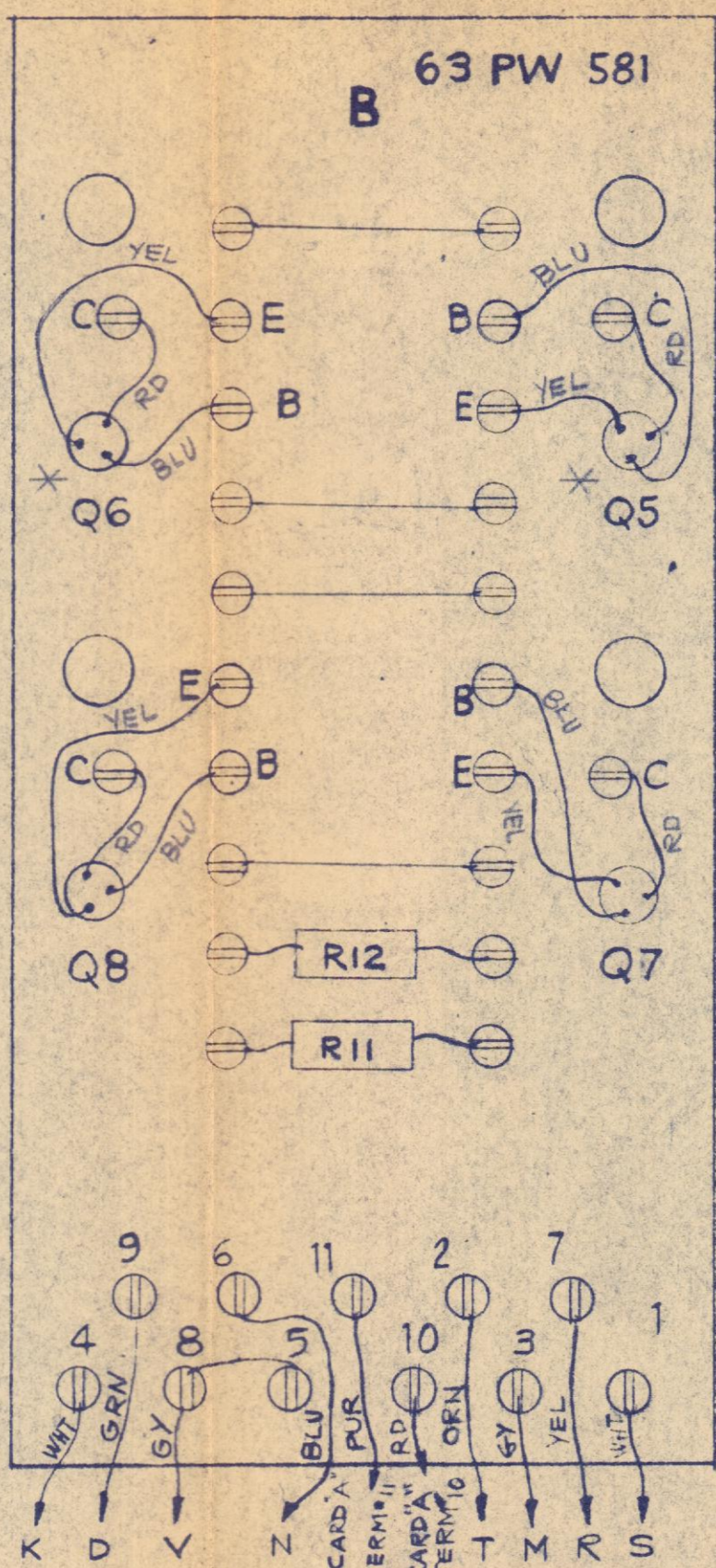
SCALE 1:1



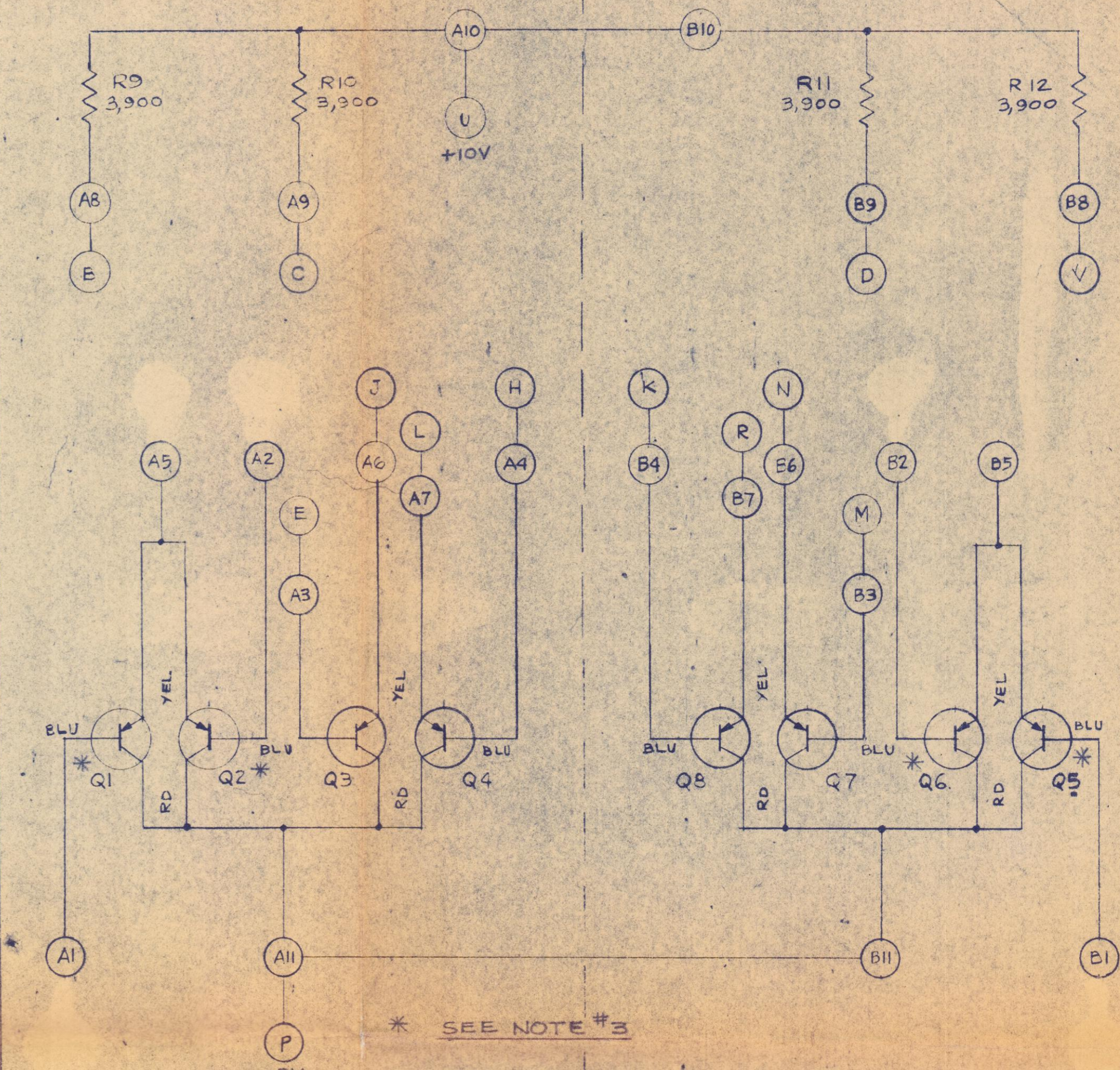
COMPOSITE



\*SEE NOTE #3



COMPONENT

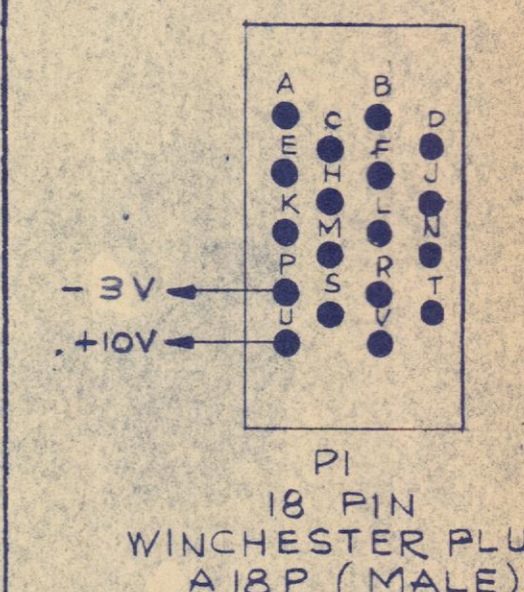


CARD "A"

CARD "B"

NOTES

- (A) DENOTES LUG 1 ON CARD "A"
- (B) DENOTES PIN B ON PLUG P1



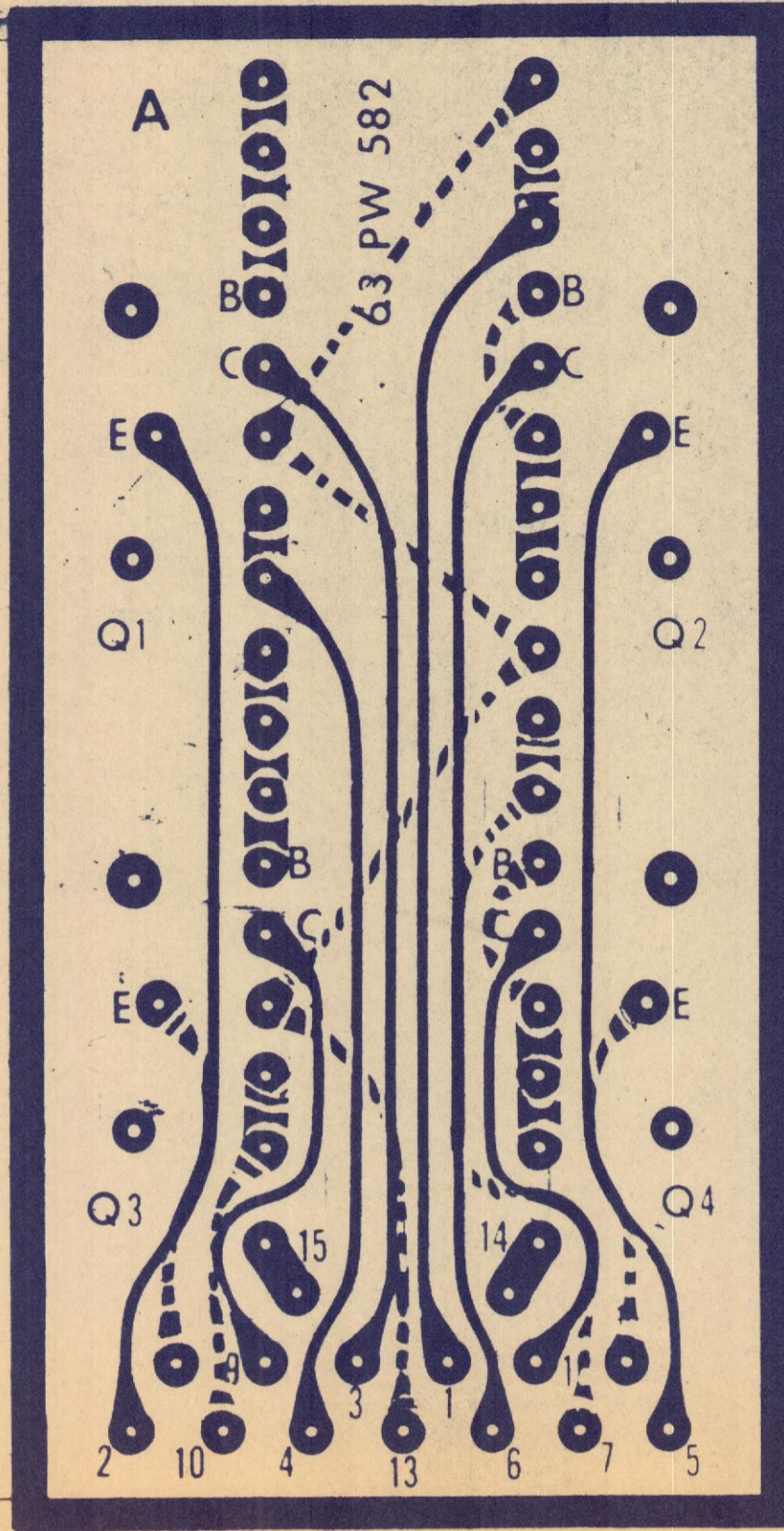
P1  
18 PIN  
WINCHESTER PLUG  
A18P (MALE)

PRINT ISSUED  
FEB 27 1957

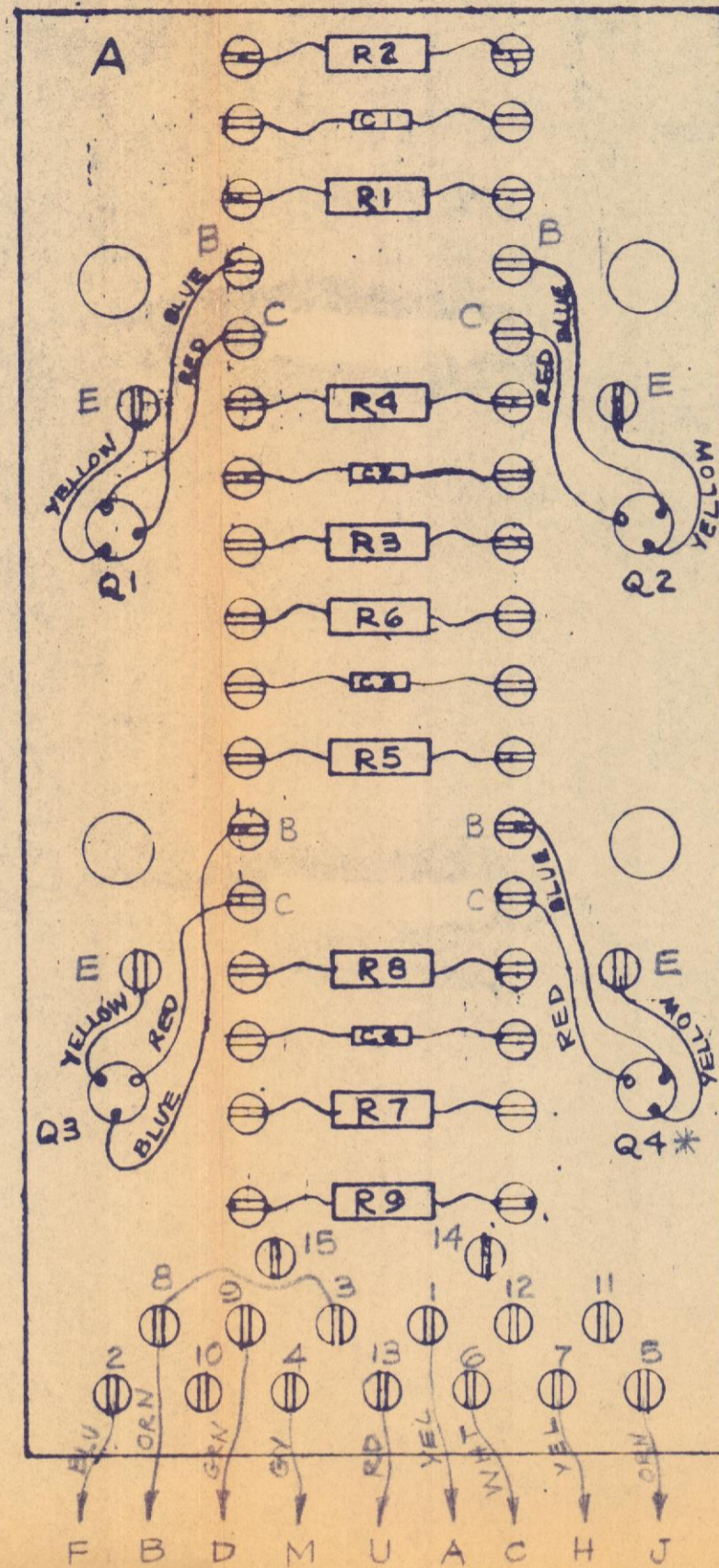
Kolsen

GRADE I FOR REFERENCE ONLY		ITEM		MATERIAL - DESCRIPTION		PART NO		QTY	
GRADE II PRELIMINARY DESIGN				LINCOLN LABORATORY DIV. 6					
GRADE III FINAL DESIGN				MASSACHUSETTS INSTITUTE OF TECHNOLOGY					
				LEXINGTON 73, MASS.					
				ASSY, COMPOSITE, & SCHEMATIC, P.I.U.					
				(4) TRANSISTOR EMITTER FOLLOWER, TX2					
				SCALE 2:1		DR LSG 9-18-56			
				ENG 7-27-56		APPD 7-29-56		D-67272	

COMPOSITE



COMPONENT



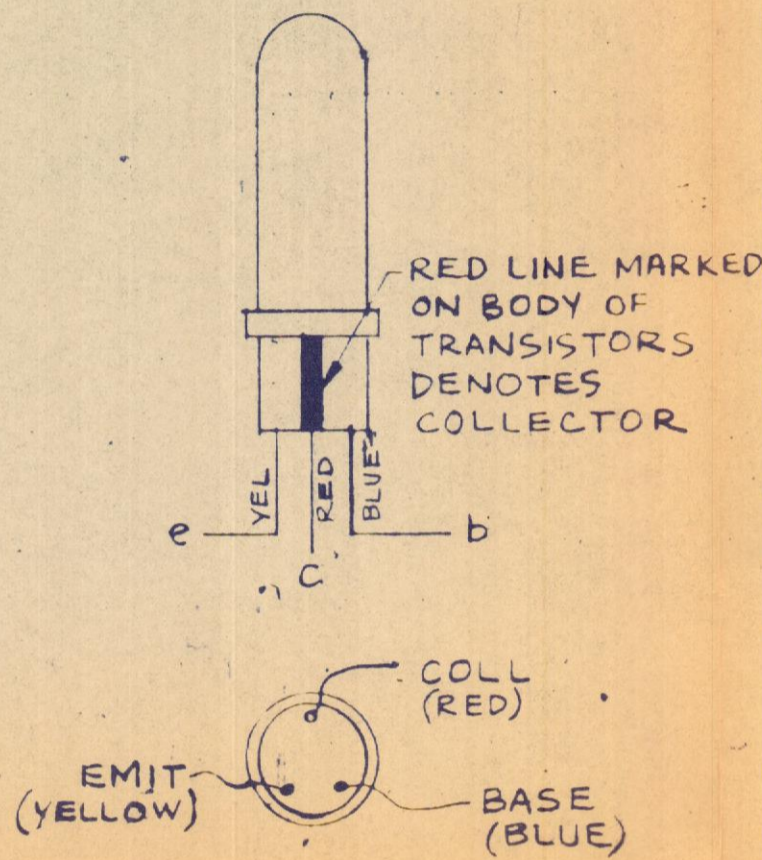
NOTES:-

1. UNLESS OTHERWISE SPECIFIED:  
 A. TRANSISTORS ARE PHILCO #5122  
 B. ALL RESISTORS ARE IN OHMS & ARE 1/2 WATT ± 5%  
 C. ALL CAPACITORS ARE IN  $\mu\text{fd}$  & ARE GLENCO MINIATURE CERAMIC ± 10%
2. ALL WIRE #22 STRANDED
3. OMIT TRANSISTORS # Q4 & Q8

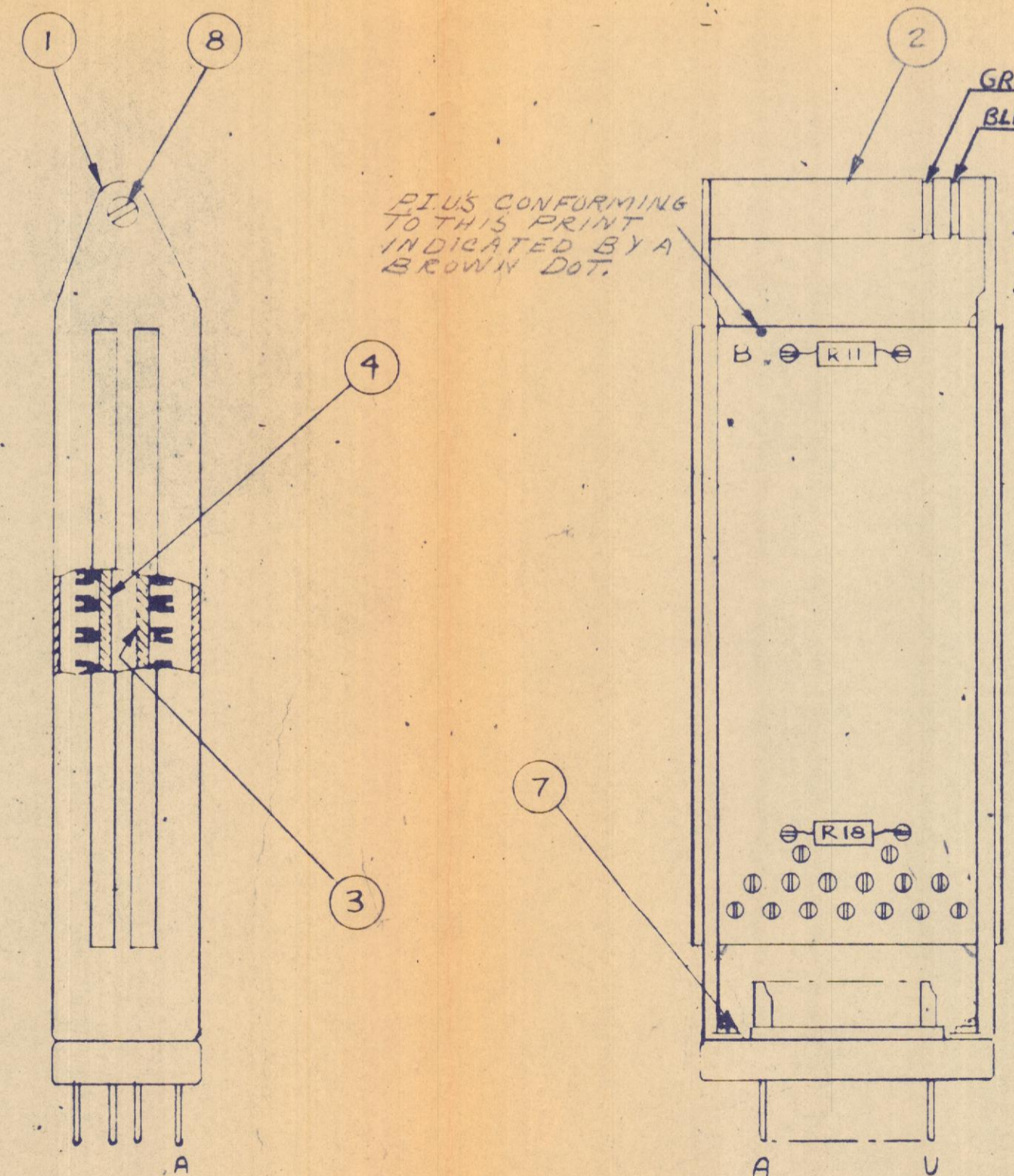
DRAWING REFERENCES:

1. DETAIL CARD: A-67223
2. 4:1 MASTER: B-
3. DETAIL, PLUG-IN UNIT C-66896
4. DETAIL, HANDLE: B-66898
5. PARTS LIST: PL-67254

PHILCO # 5122

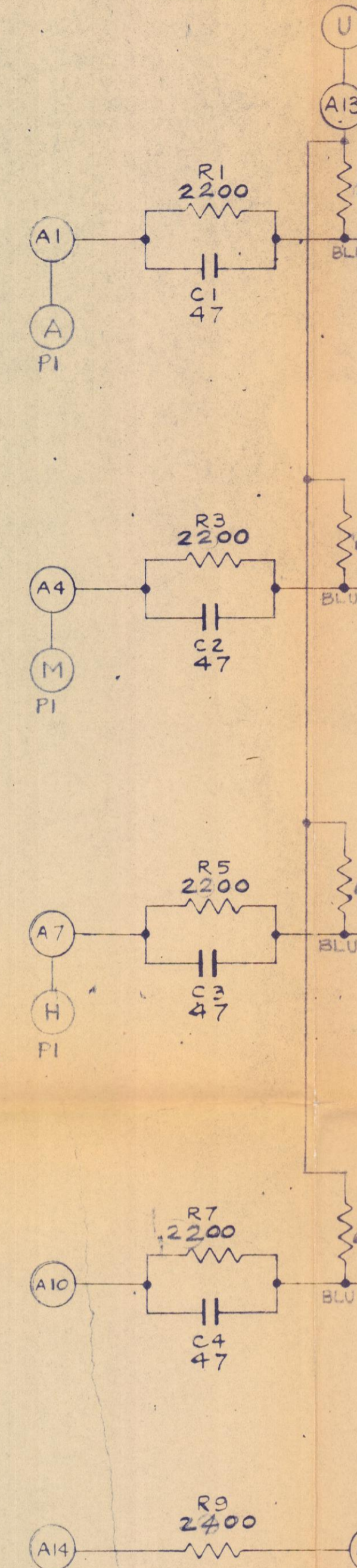


SCALE 4:1

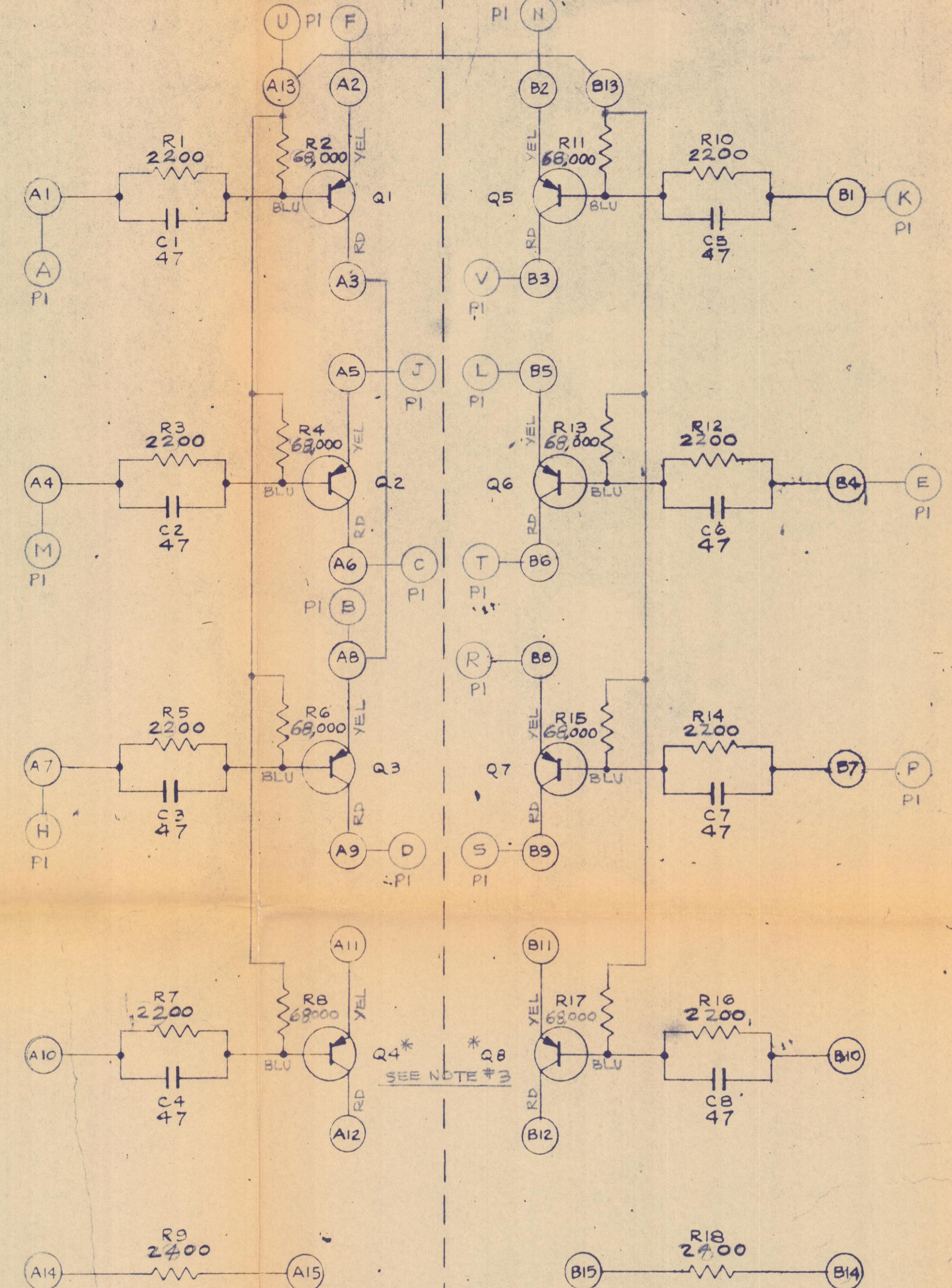


SCALE 1:1

CARD "A"



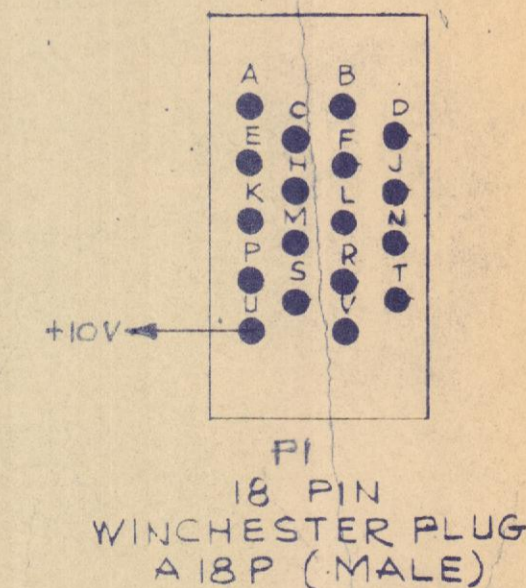
CARD "B"



\* SEE NOTE #3

NOTE

- (A1) DENOTES LUG 1 ON CARD A
- (B) DENOTES PIN B ON PI



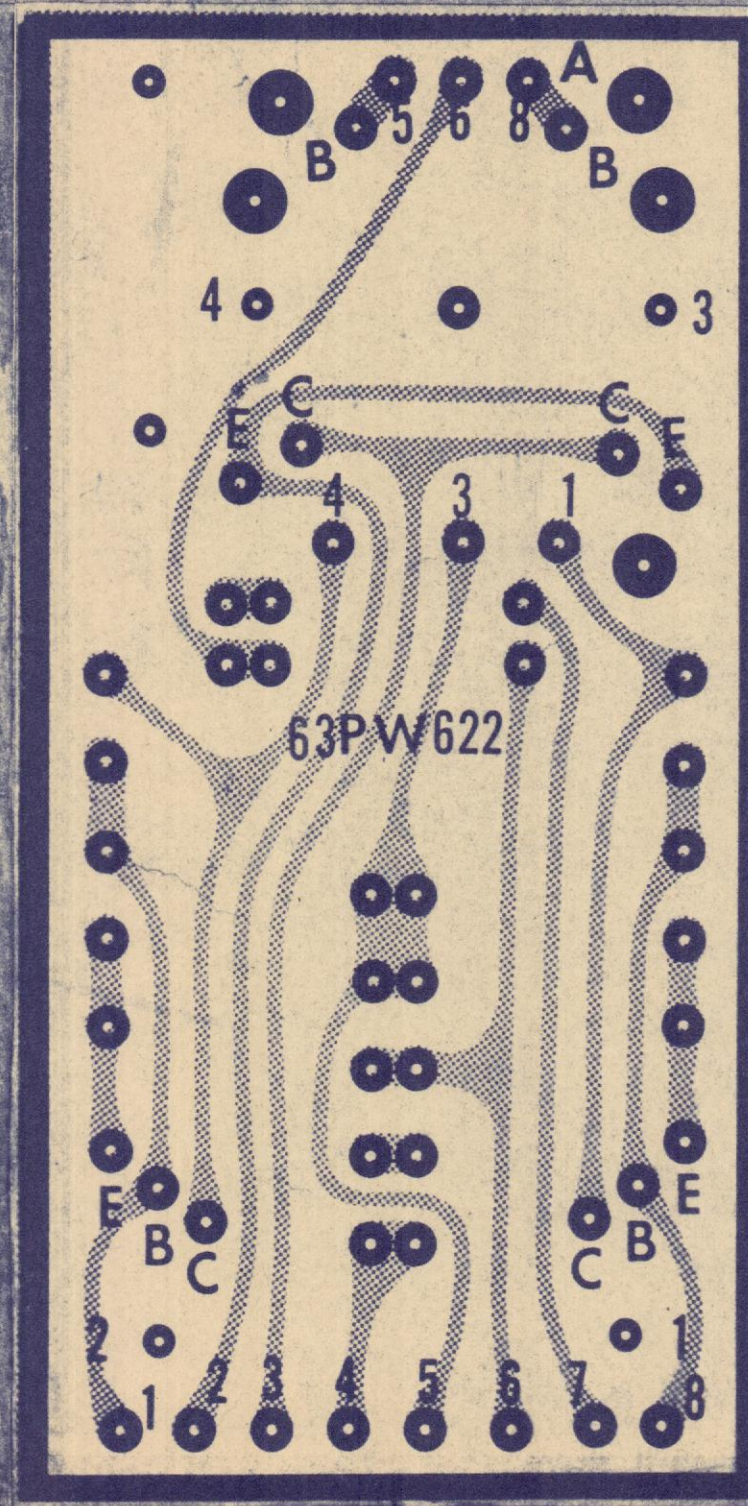
PI 18 PIN WINCHESTER PLUG A18P (MALE)

PRINT ISSUED  
 MAR 25 1957

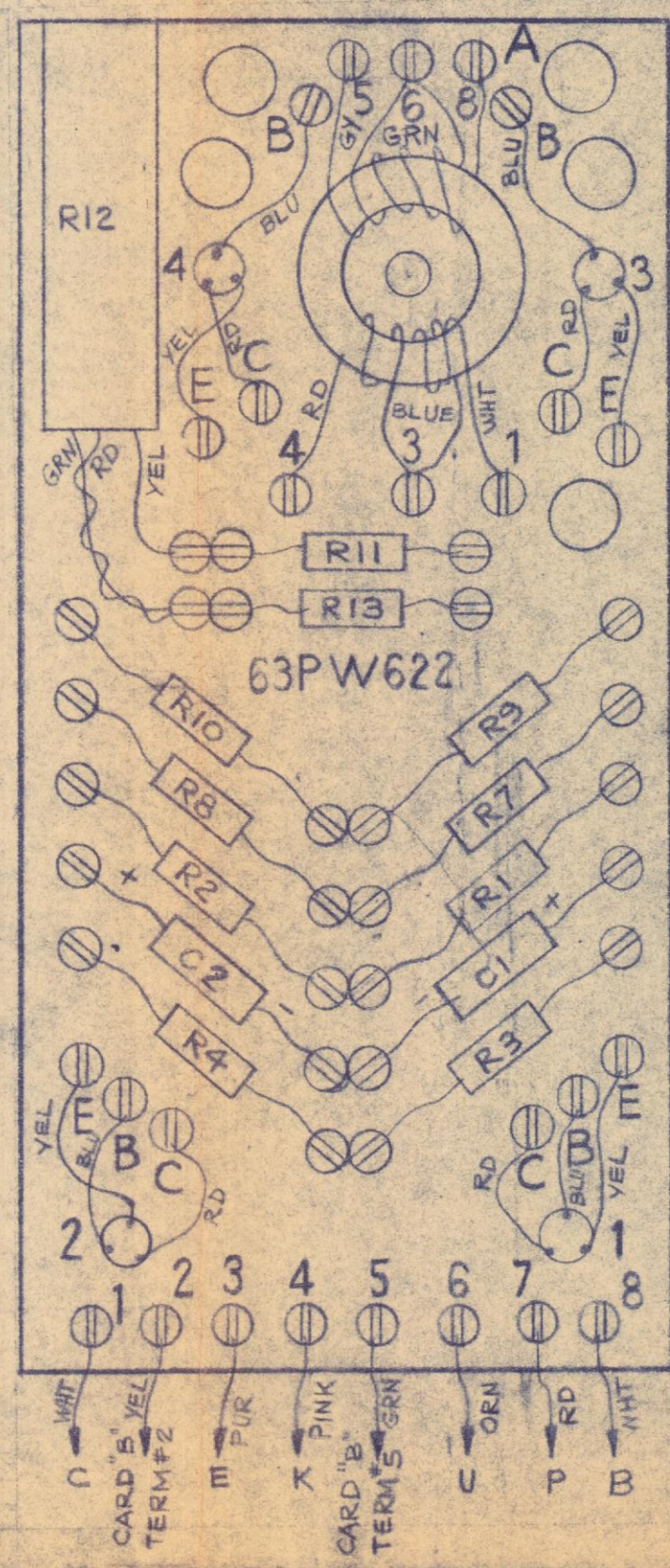
GRADE I FOR REFERENCE ONLY  
 GRADE II PRELIMINARY DESIGN  
 GRADE III FINAL DESIGN

ITEM	MATERIAL-DESCRIPTION	PART NO.	QTY
LINCOLN LABORATORY-DIV 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 79, MASS.			
ASS'Y, COMPOSITE & SCHEMATIC, P. I. U. SERIES (C) INVERTER, TX-2			
SCALE 2:1 DR LSG 9-18-56			
ENG 7-26-56 CK 9-21-56 APPD 9-26-56			
DRAWN BY [Signature]			

COMPOSITE



COMPONENT



NOTES:

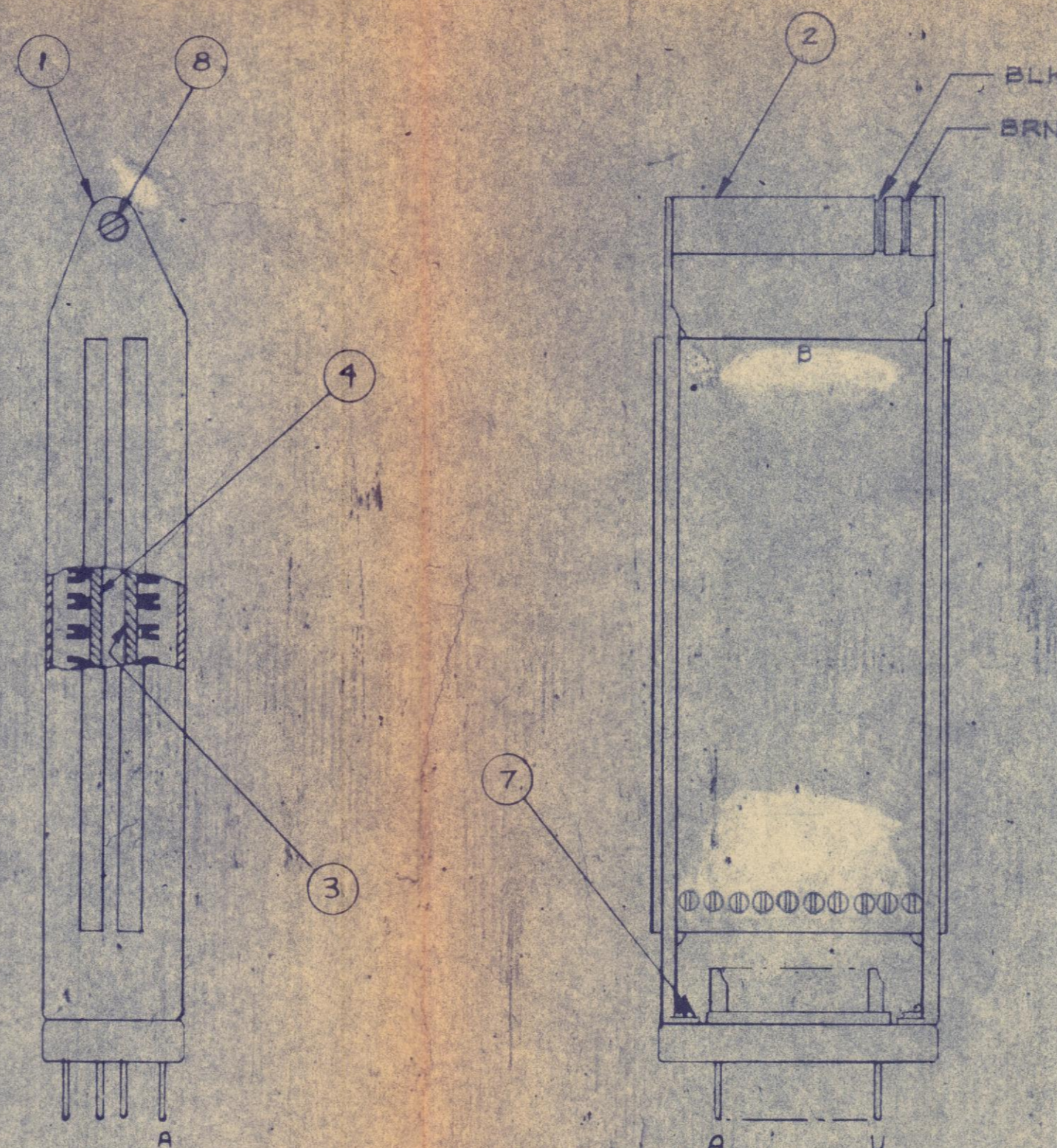
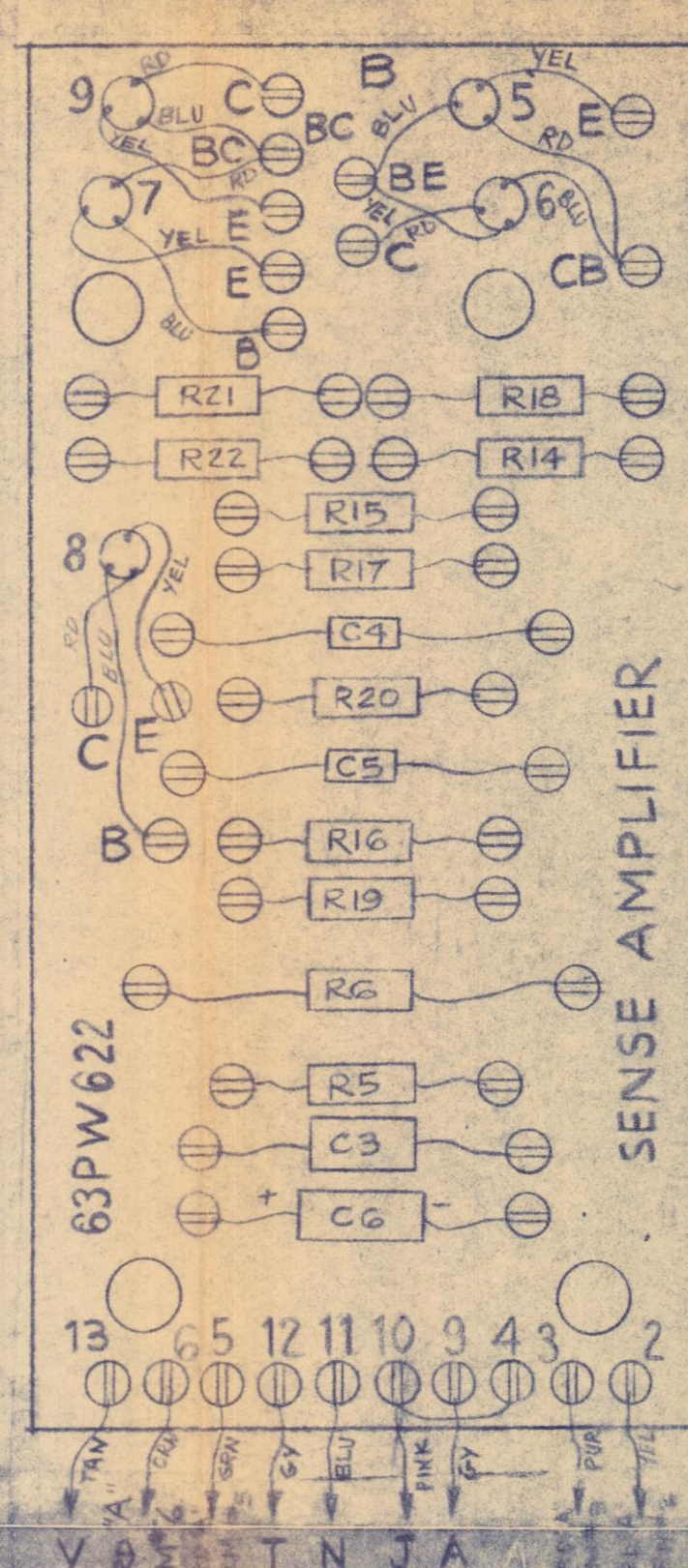
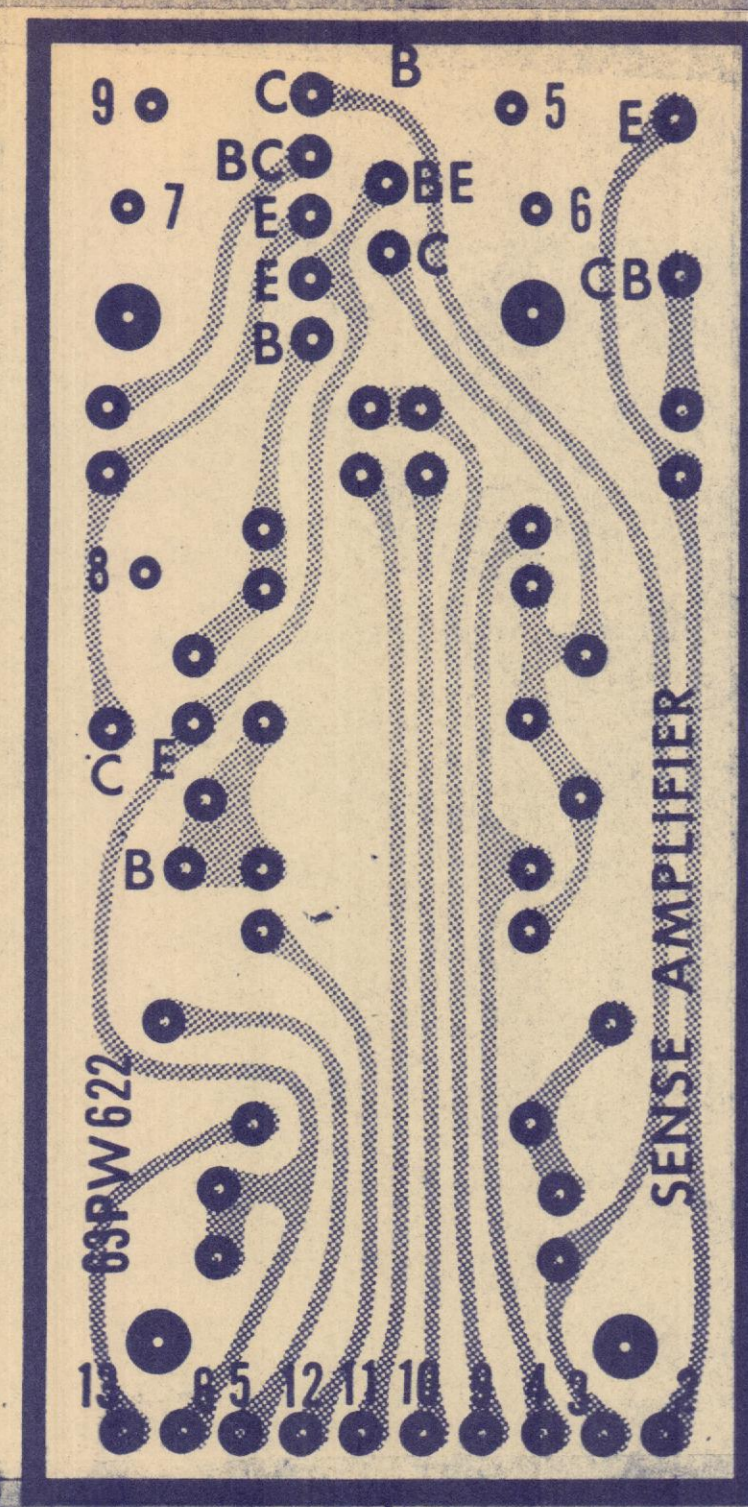
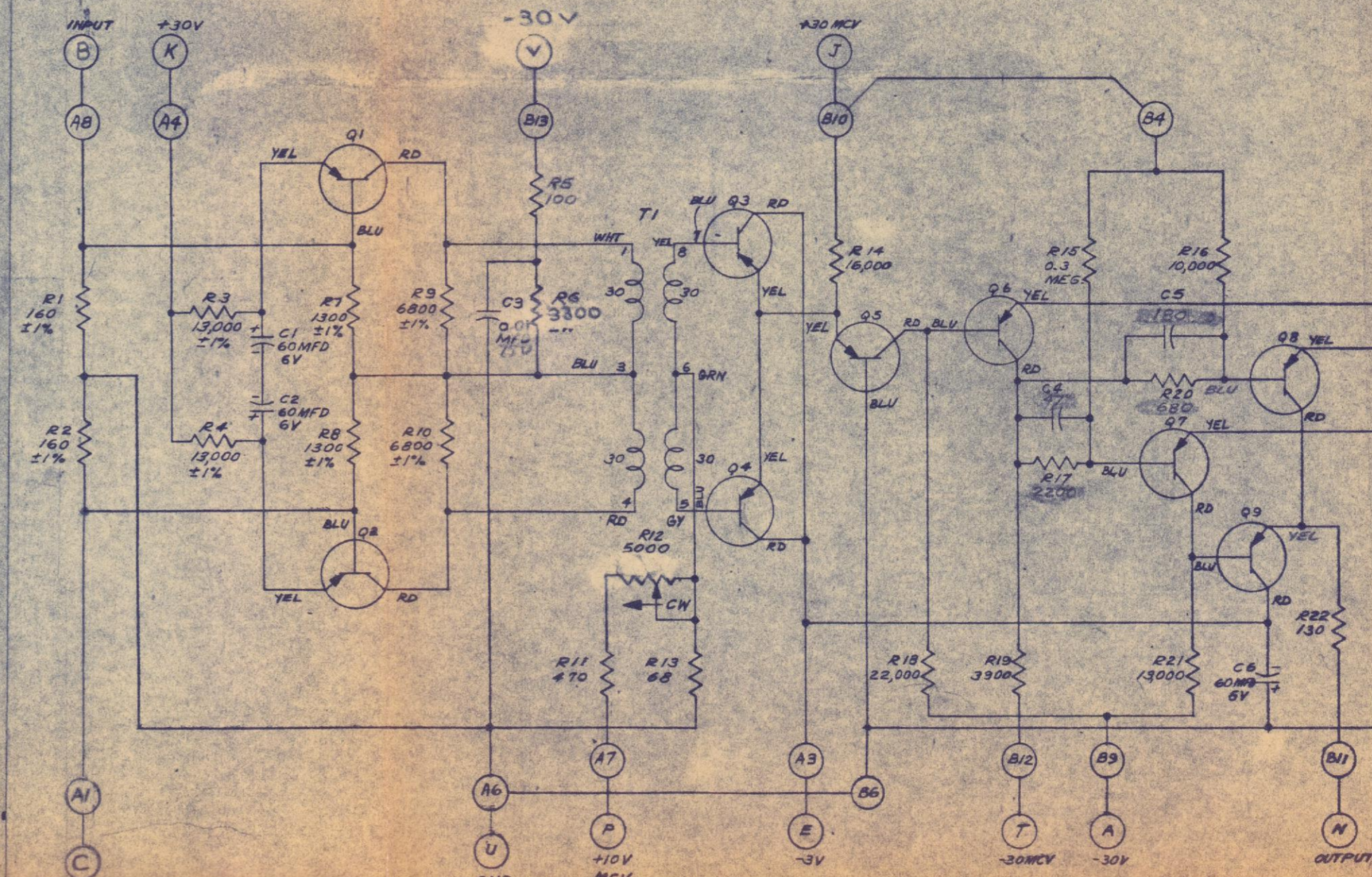
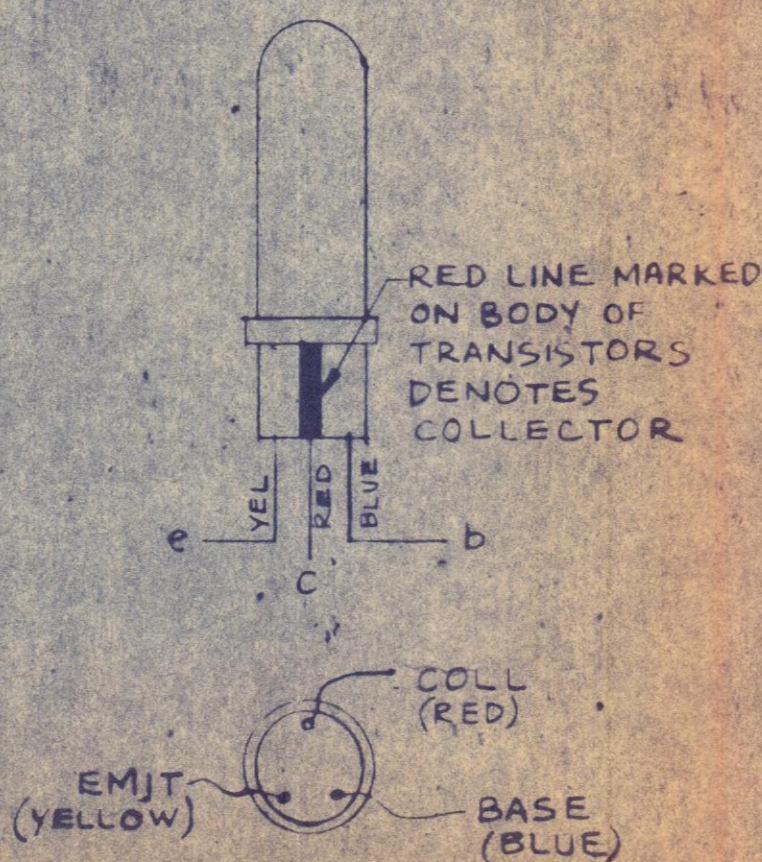
- 1. UNLESS OTHERWISE SPECIFIED:  
A. TRANSISTORS ARE PHILCO # 5122  
B. ALL RESISTORS ARE IN OHMS & ARE 1/2 WATT ±5%  
C. ALL CAPACITORS ARE IN μfd & ARE GLENCO MINIATURE CERAMIC ±10%

2. ALL WIRE #22 STRANDED

DRAWING REFERENCES:

- 1. DETAIL CARD: A-67223
- 2. 4:1 MASTER: B-
- 3. DETAIL PLUG-IN UNIT C: 66896
- 4. DETAIL HANDLE: B-66896
- 5. PARTS LIST: PL-87963

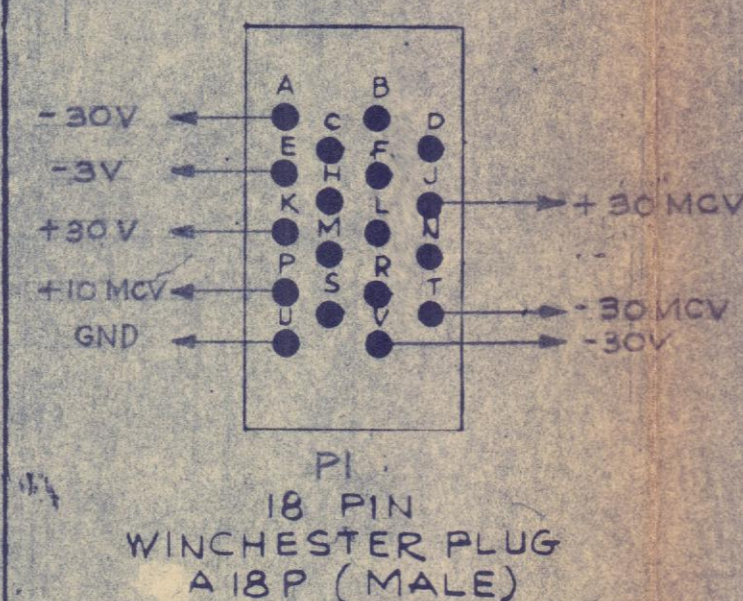
PHILCO # 5122



SCALE 1:1

NOTES:

- (A) DENOTES LUG #1 ON CARD "A"
- (B) DENOTES PIN "B" ON PLUG P1



P1  
16 PIN  
WINCHESTER PLUG  
A18P (MALE)

GRADE I FOR REFERENCE ONLY  
GRADE II PRELIMINARY DESIGN  
GRADE III FINAL DESIGN

Graded by: *E. Johnson* DATE: *10-22-56*

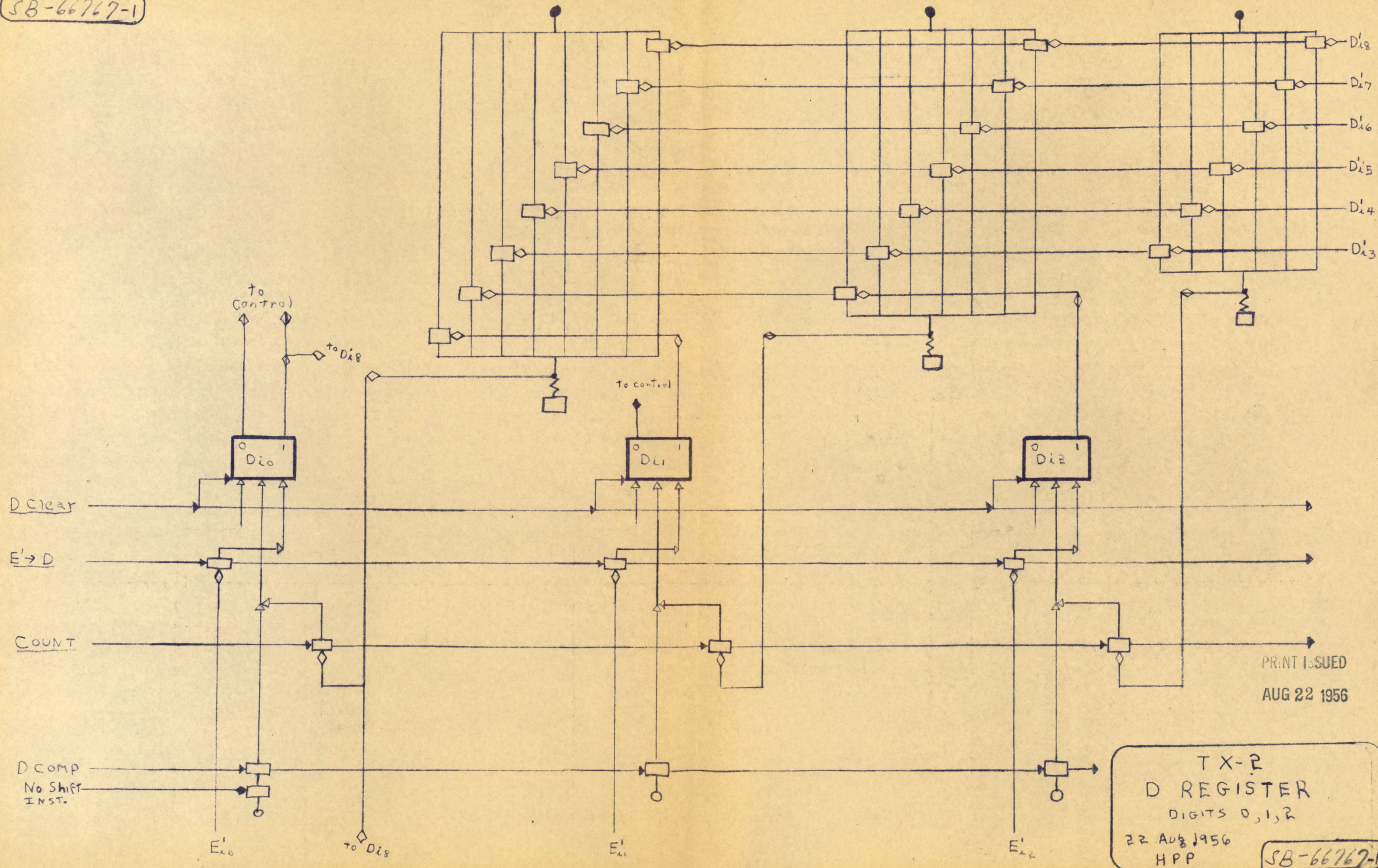
ITEM	MATERIAL-DESCRIPTION	PART NO.	QTY
LINCOLN LABORATORY DIV. 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73, MASS.			
ASS'Y, COMPOSITE & SCHEMATIC, P.I.U. SENSE AMPLIFIER, TDGM, TX-2			
SCALE 2:1 OR LSG 10-22-56			
ENG. <i>W. H. S. G.</i> CK. <i>W. H. S. G.</i> APPD. <i>W. H. S. G.</i>			

APPROVED: *K. Olsen*

DATE: *10-22-56*

D-67963

SB-66767-1

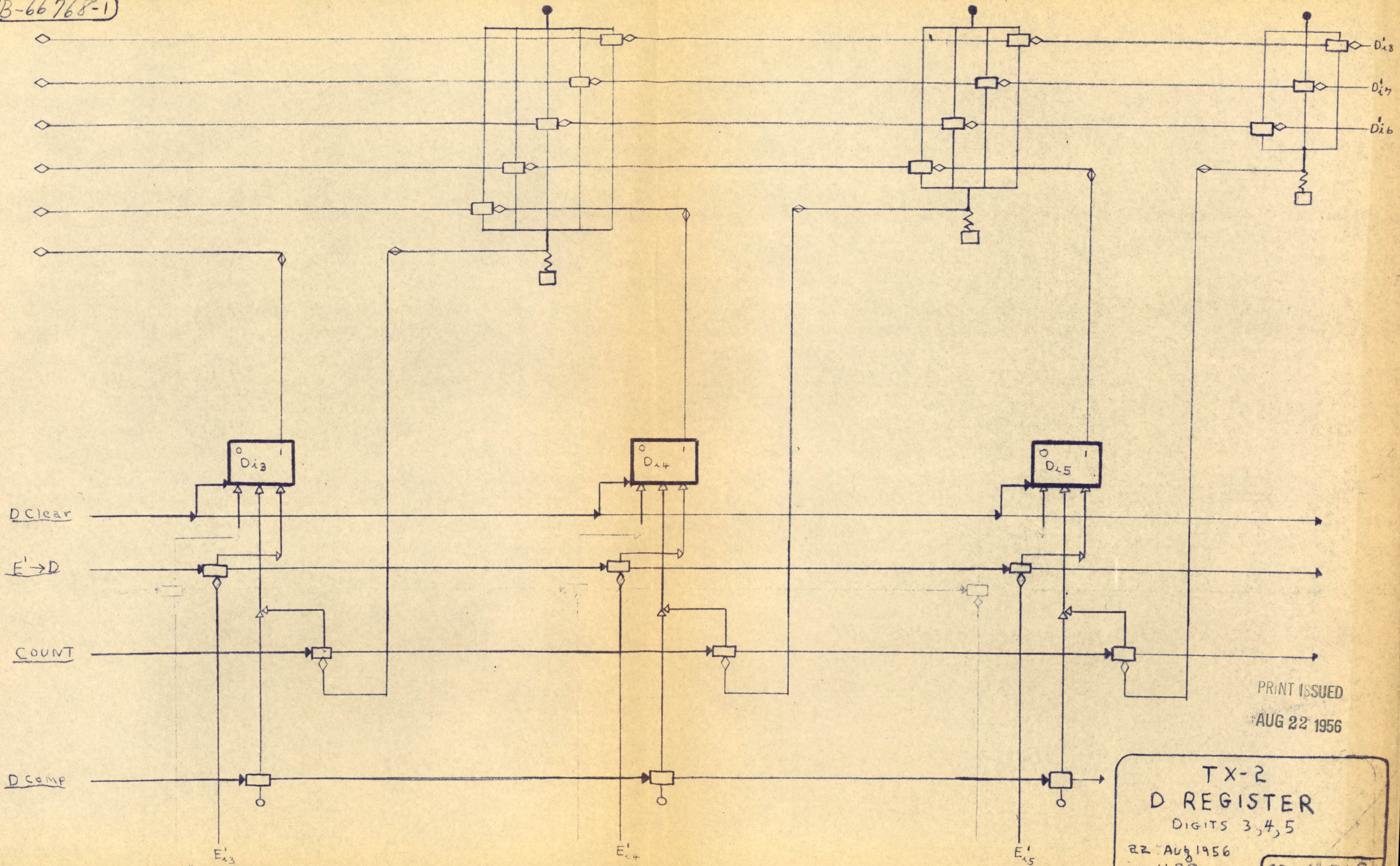


PRINT ISSUED  
AUG 22 1956

TX-2  
D REGISTER  
DIGITS 0, 1, 2  
22 AUG 1956  
HPP

SB-66767-1

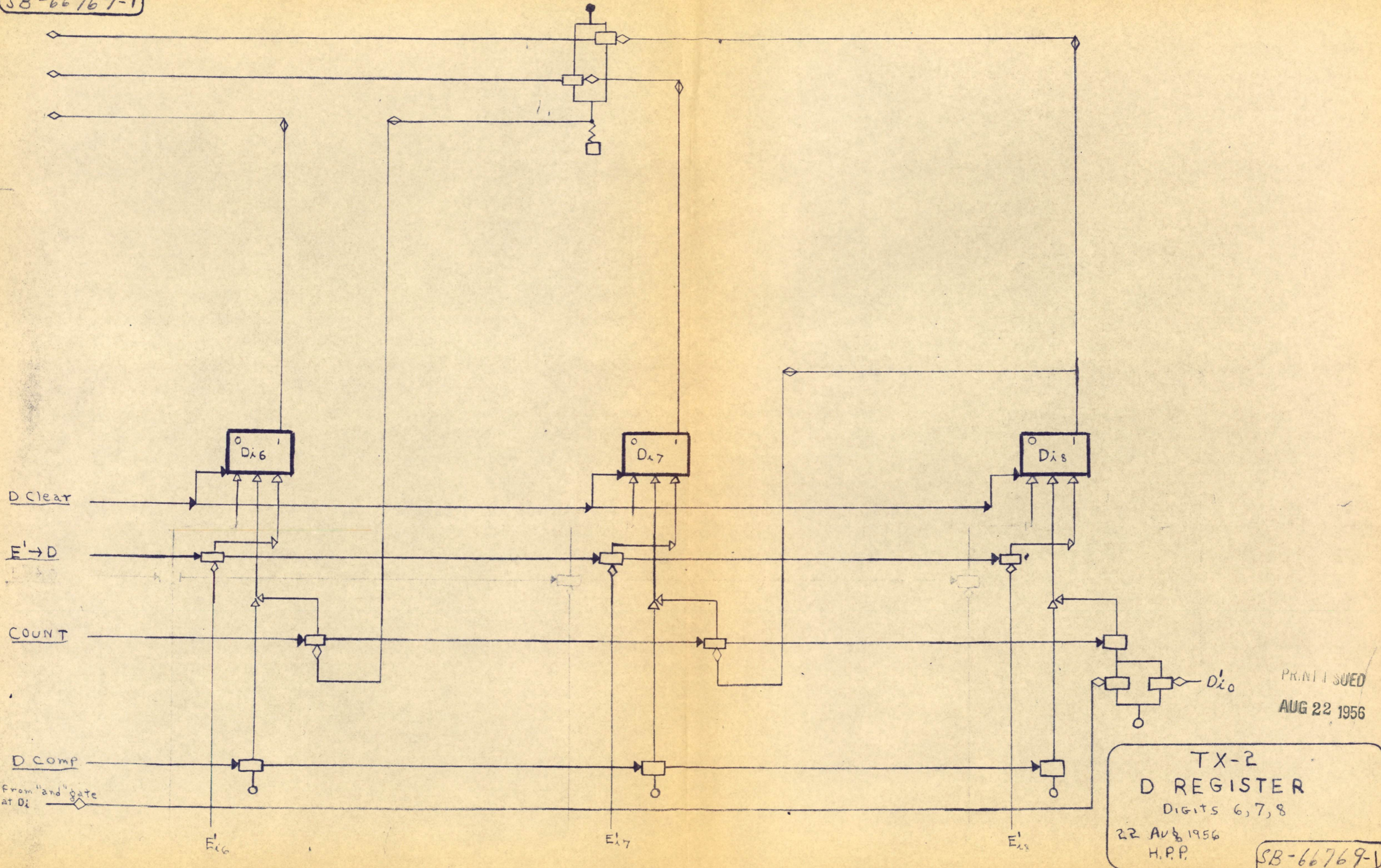
SB-66768-1



PRINT ISSUED  
AUG 22 1956

TX-2  
D REGISTER  
DIGITS 3, 4, 5  
22 AUG 1956  
HPP  
SB-66768-1

SB-66769-1



PRINTED  
AUG 22 1956

TX-2  
D REGISTER  
DIGITS 6, 7, 8  
22 AUG 1956  
H.P.P.

SB-66769-1

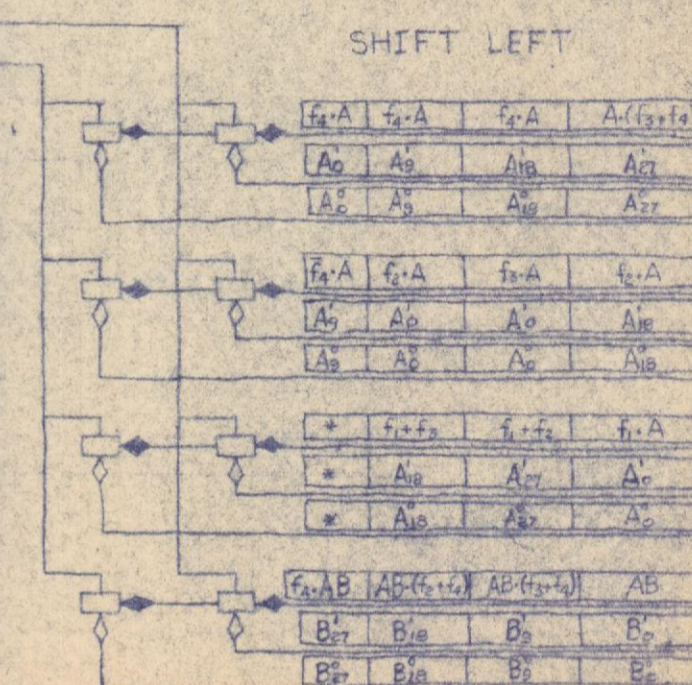
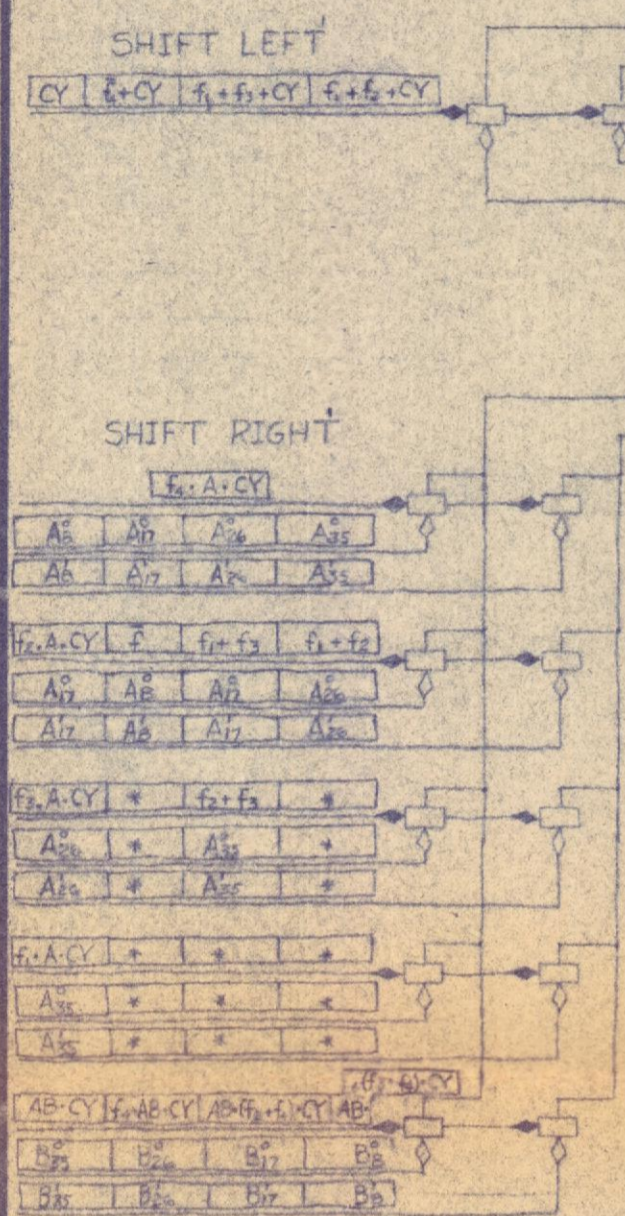
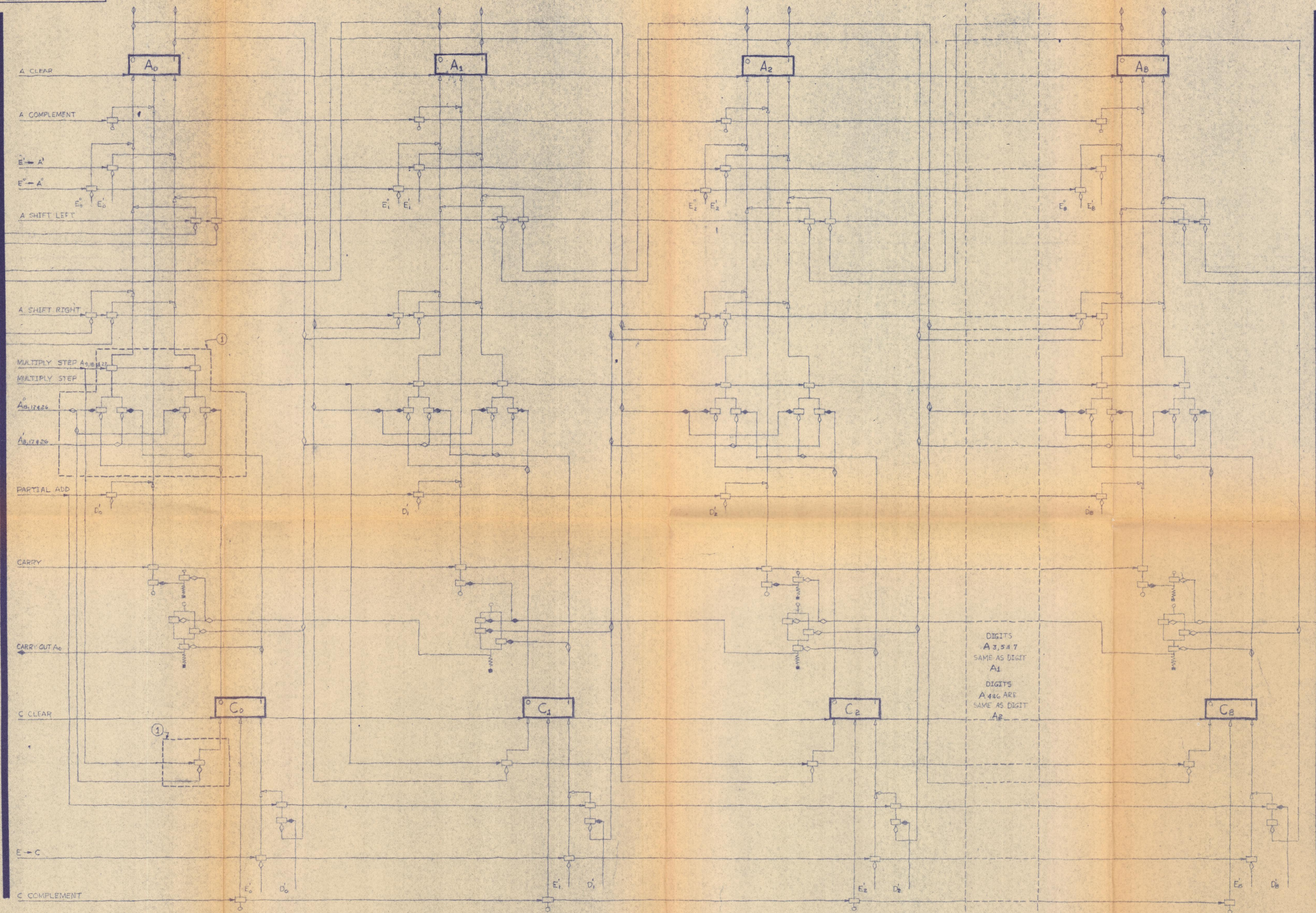
D-

TOLERANCES NOT OTHERWISE SPECIFIED  
DECIMAL ±.005 FRACTIONAL ± 1/64 ANGULAR ± 1/2°  
DIMENSIONS ENCLOSED THUS [ .000 ] FOR REFERENCE ONLY

# A & C REGISTER

(A&C)<sub>0,9,18,27</sub>  
COUPLING UNIT

(A&C)<sub>8,17,26,35</sub>  
COUPLING UNIT



LEGEND  
 \* INPUTS NOT USED  
 (1) LOGIC IN ENCLOSED AREAS IS NOT INCLUDED IN A0  
 A&C DIGITS 9-17, 18-26 & 27-35 ARE SAME AS A&C DIGITS 0-8 WITH EXCEPTIONS NOTED.

DIGITS  
 A<sub>3,5,7</sub>  
 SAME AS DIGIT  
 A<sub>1</sub>  
 DIGITS  
 A<sub>4,6</sub> ARE  
 SAME AS DIGIT  
 A<sub>2</sub>

GRADE I FOR REFERENCE ONLY		ITEM		MATERIAL-DESCRIPTION		PART NO.		QTY.	
GRADE II PRELIMINARY DESIGN									
GRADE III FINAL DESIGN									
GRADED BY: DATE:									
LINCOLN LABORATORY DIV. 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73, MASS.									
A & C REGISTER BLOCK SCHEM TX-2									
SCALE: MOD 2		DR. C. A. NORMAN		#16156					
ENG.		CK.		APPD.					
D-									



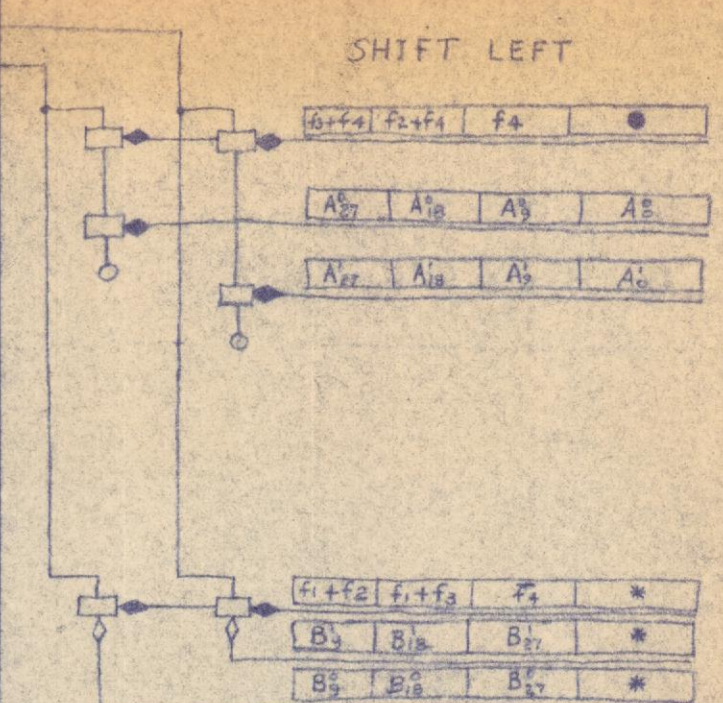
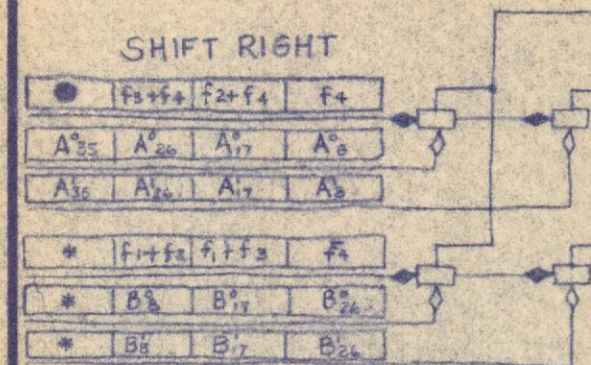
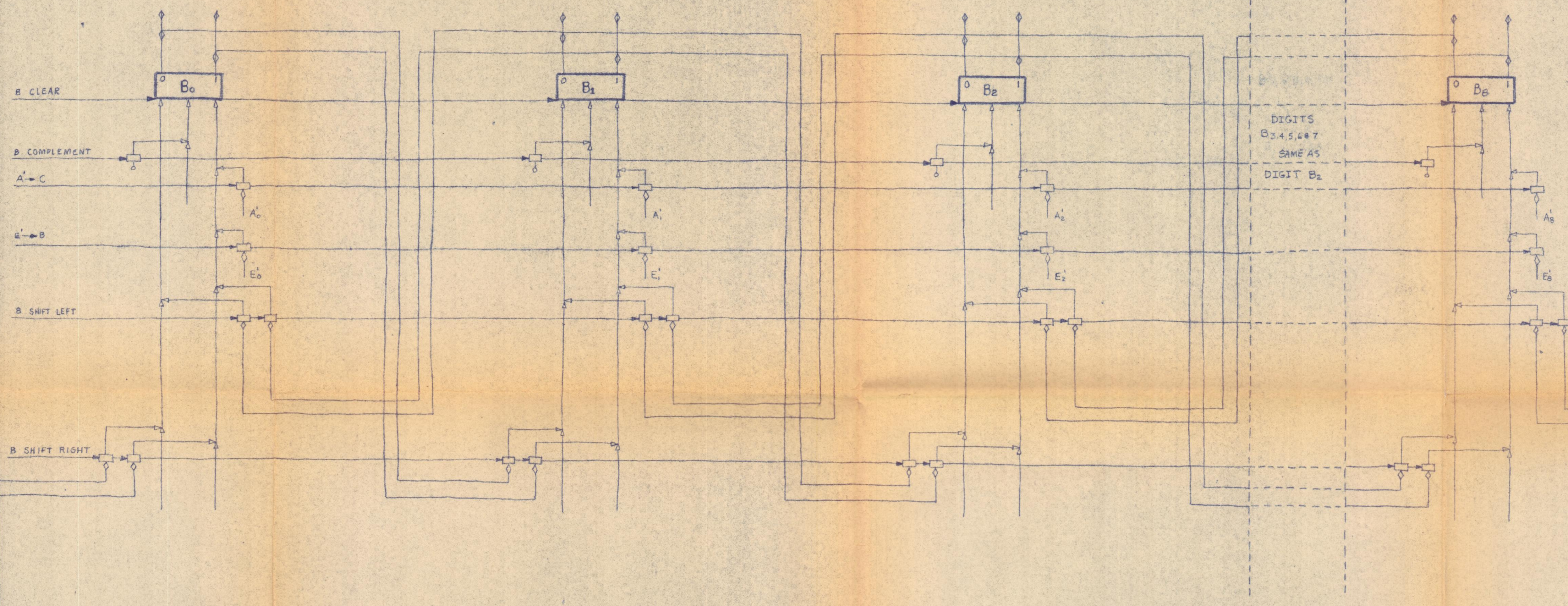
D-

TOLERANCES NOT OTHERWISE SPECIFIED  
DECIMAL ± .005 FRACTIONAL ± 1/64 ANGULAR ± 1/2°  
DIMENSIONS ENCLOSED THUS .000 FOR REFERENCE ONLY

### B REGISTER

B<sub>0,9,18,27</sub>  
COUPLING UNIT

B<sub>8,17,26,35</sub>  
COUPLING UNIT

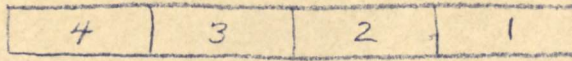


LEGEND  
 \* INPUTS NOT USED  
 B DIGITS 9-17, 18-26  
 # 27-35 ARE SAME AS  
 B DIGITS 0-8.

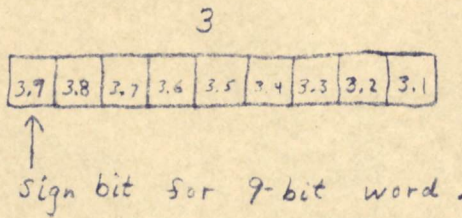
GRADE I FOR REFERENCE ONLY		ITEM		MATERIAL DESCRIPTION		PART NO.		QTY.	
GRADE II PRELIMINARY DESIGN		LINCOLN LABORATORY DIV. 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73, MASS.							
GRADE III FINAL DESIGN		B REGISTER BLOCK SCHEM. TX-2							
GRADED BY: DATE:		SCALE: MOD E		DR. SPARFENK. B. B. G.		APPD.		D-	
ENG. C.A. NORMAN		CK.		APPD.		APPD.		APPD.	

# TX-2 NUMBERING SYSTEM

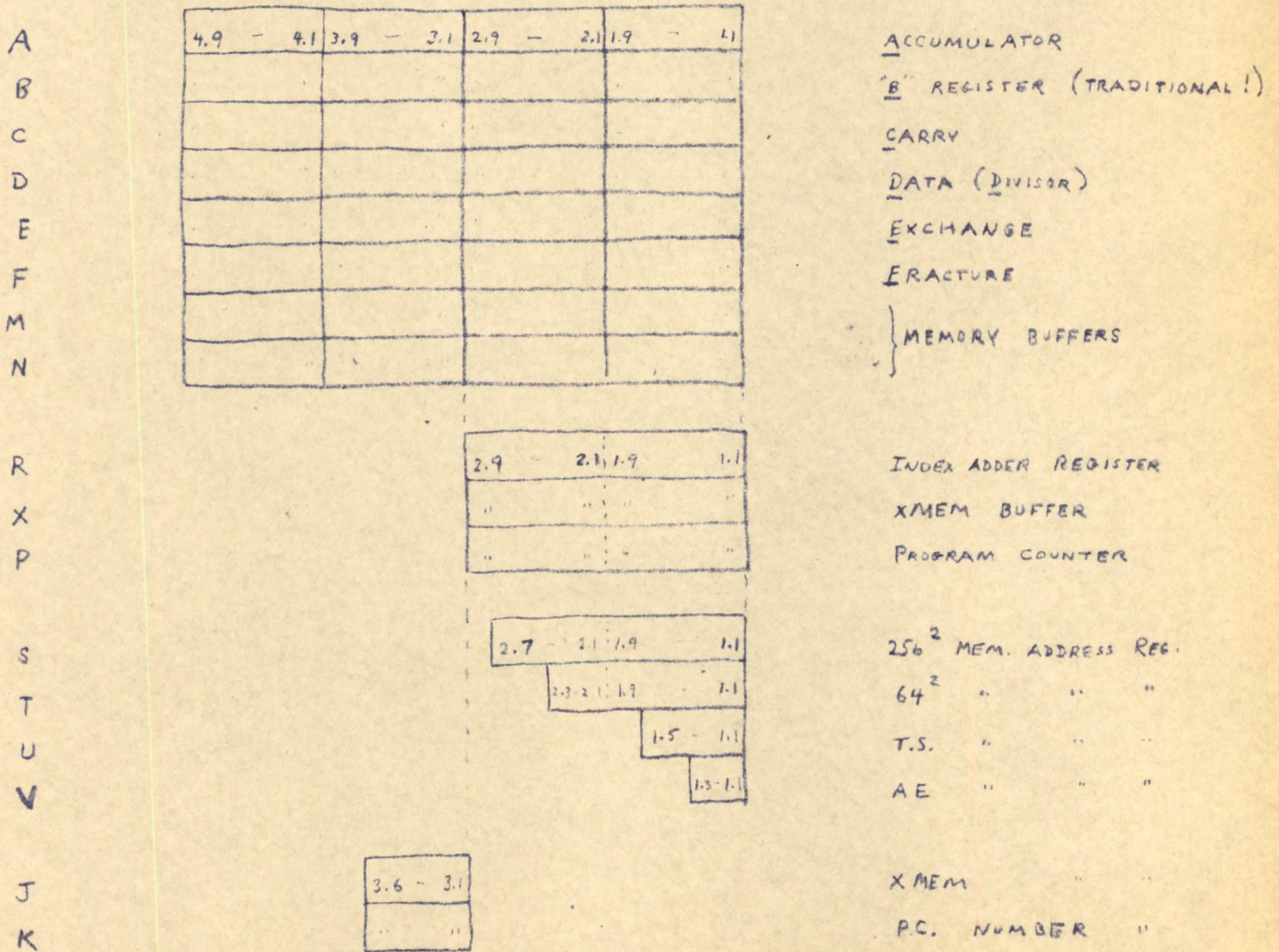
1) Word quarters, right to left:



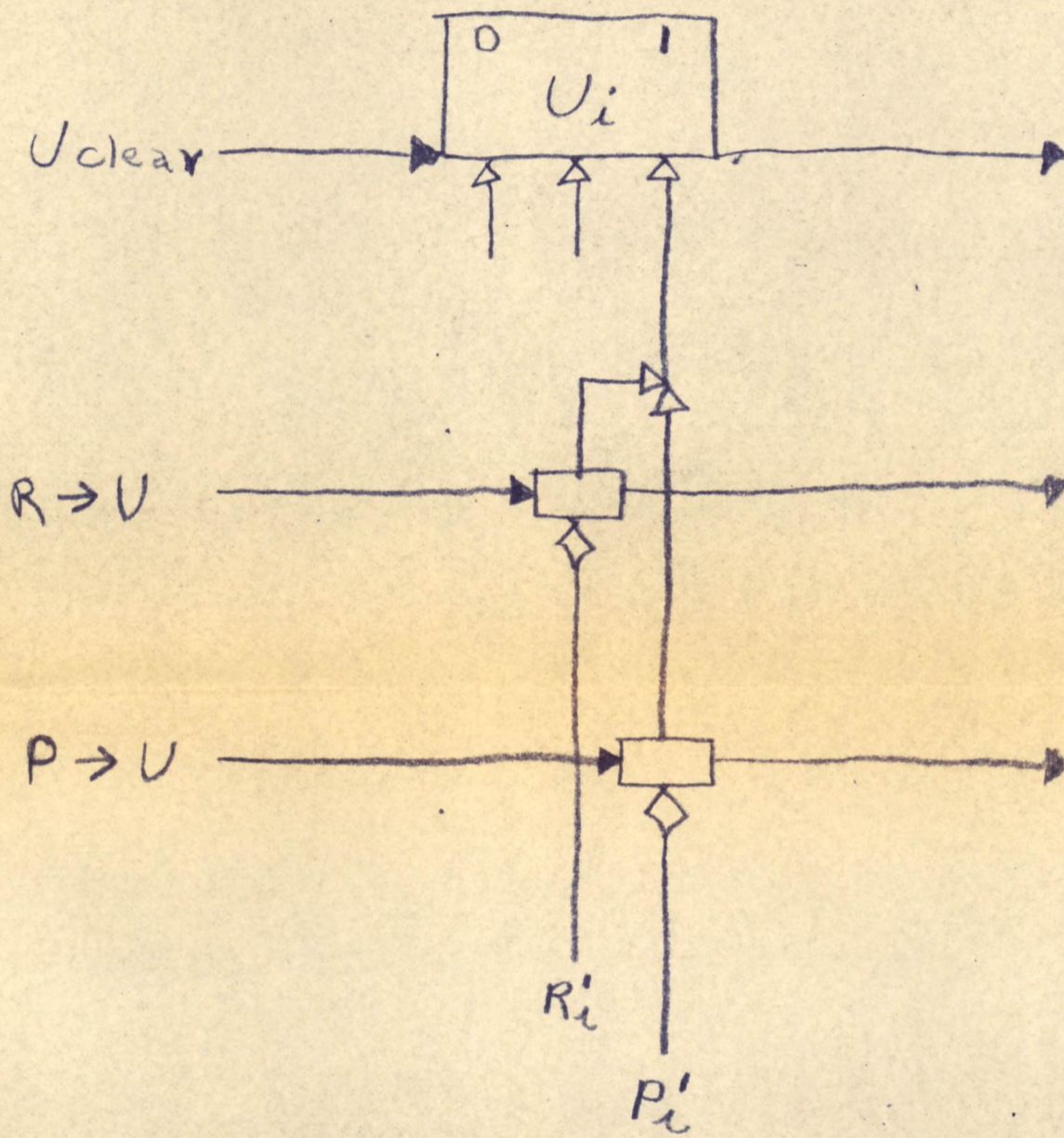
2) Bits within quarter, right to left: Example, quarter 3:



3) Correspondence between registers:



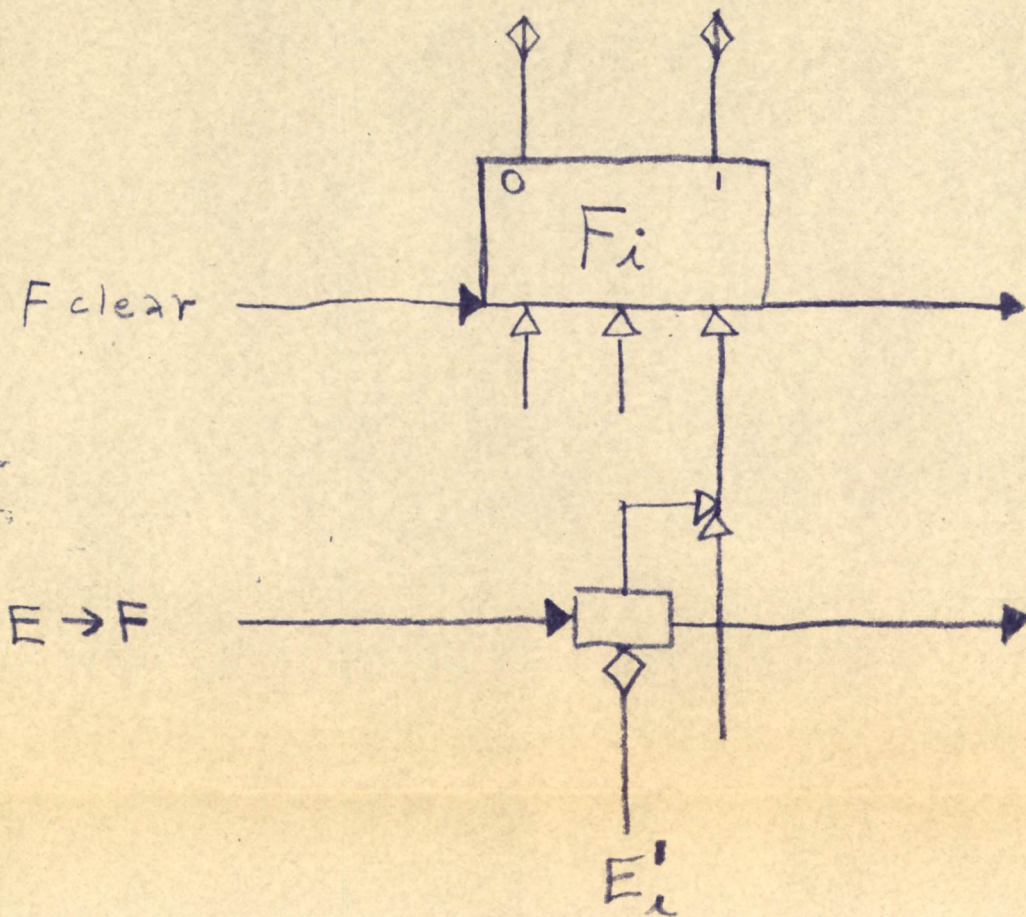
SB-67072



PRINT ISSUED  
AUG 23 1956

TX-2  
U REGISTER  
Address Reg. for Plug board  
and Toggle Switch Storage.  
 $i = 1.5 - 1.1$  (5 bits).  
23 AUG 56  
H.P.P.  
SB-67072

SB-67100



PRINT ISSUED

AUG 24 1956

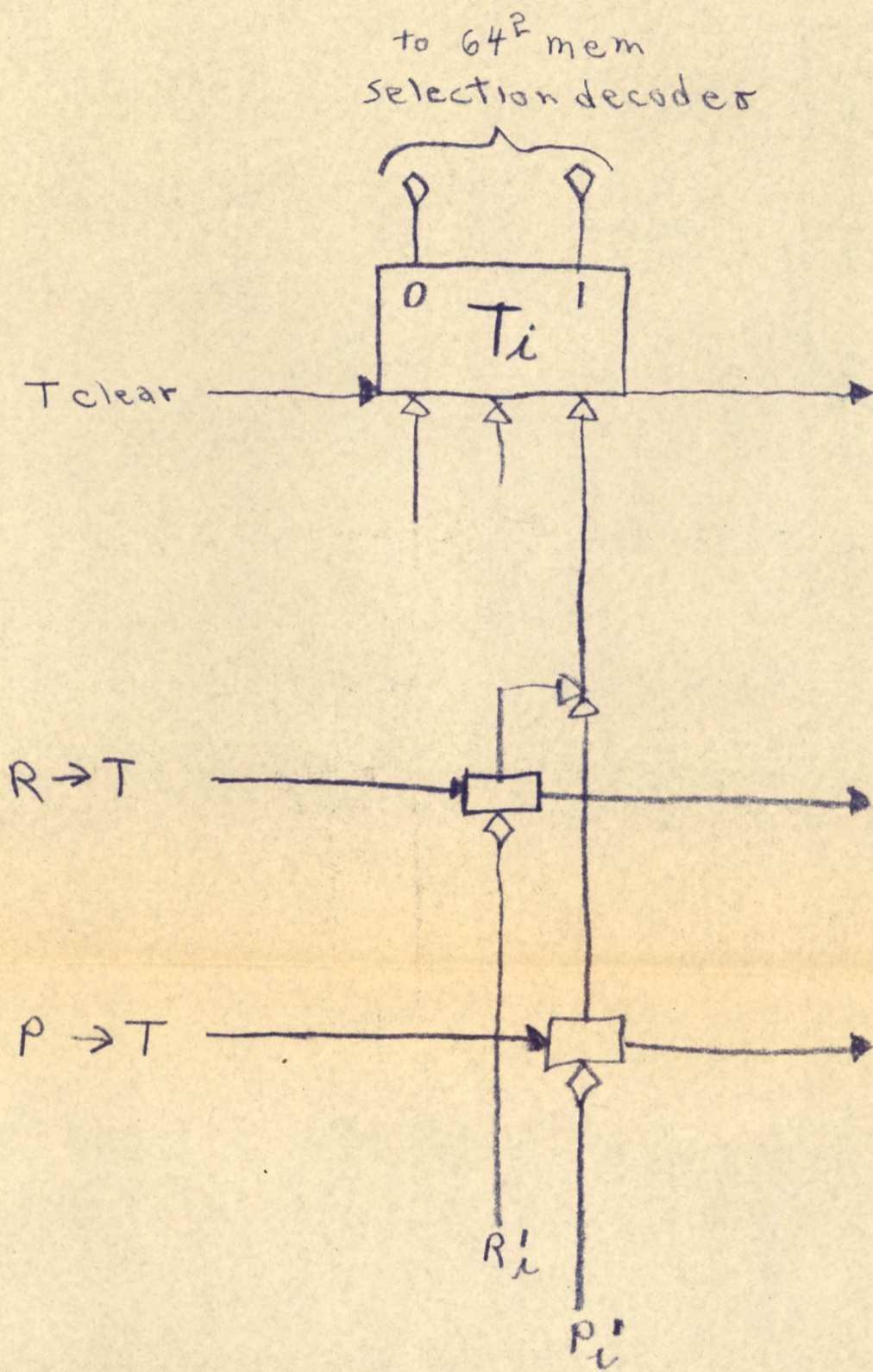
# TX-2 F REGISTER

Sort of an addressable live register to hold changeable fracture-activity-permutation information.

$i=1.1-4.9$  (36 bits)

24 Aug. 56  
H.P.P.

SB-67100



PRINT ISSUED  
AUG 23 1956

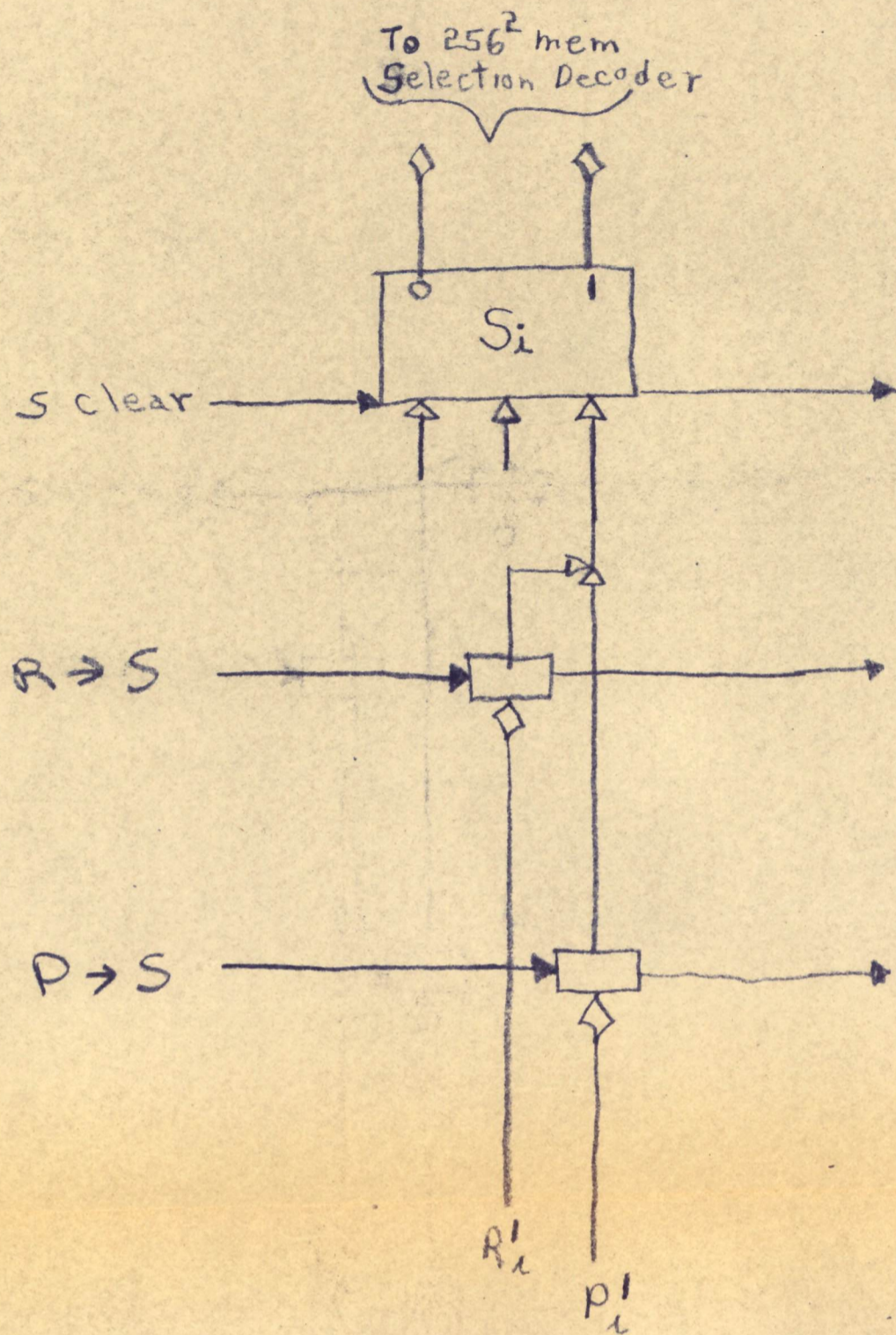
TX-2  
T REGISTER

Address Register For  $64^2$   
Memory  
 $i = 2.3-2.1, 1.9-1.1$  (12 bits)

H.P.P.  
23 AUG. '56

SB-67071

SB-67070



PRINT ISSUED  
AUG 23 1956

TX-2

S REGISTER

Address Register for  
256<sup>2</sup> memory

$L = 2.7 - 2.1, 1.9 - 1.1$  (16 bits)

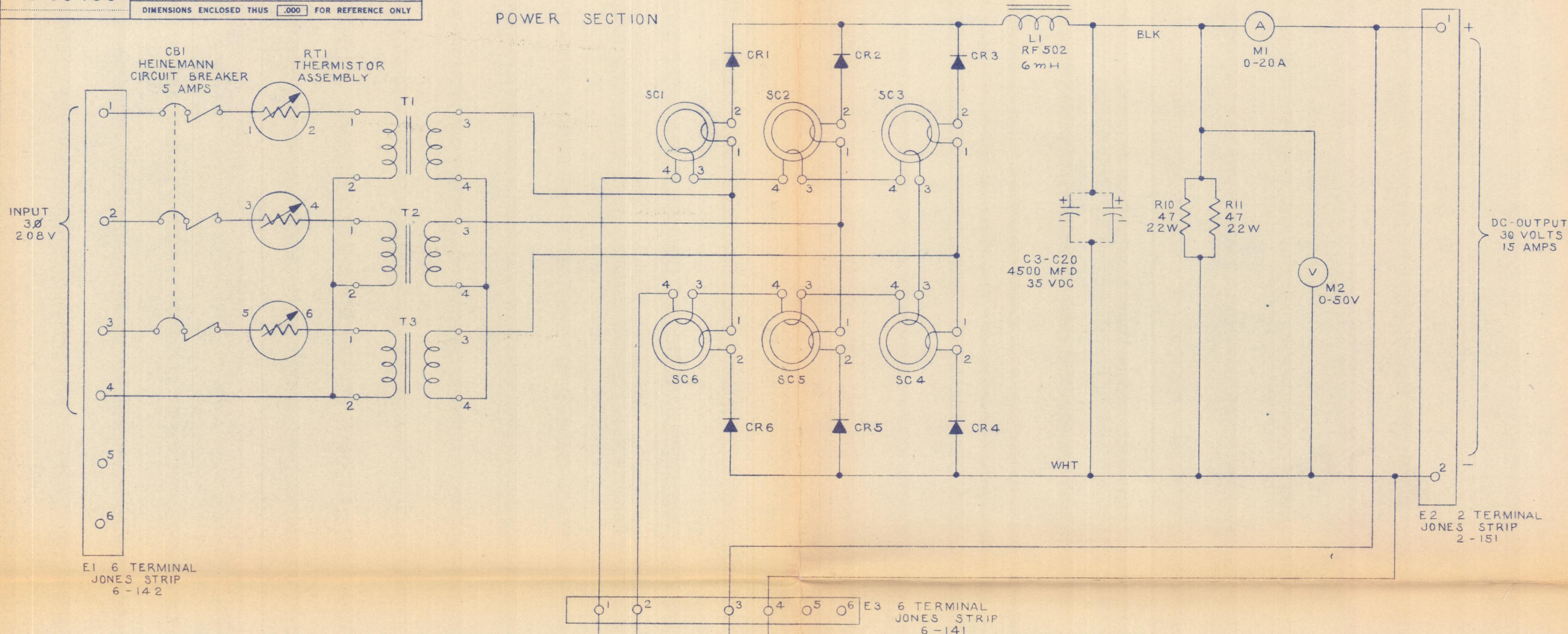
H.P.P.  
23 AUG '56

SB-67070

C-69436

TOLERANCES NOT OTHERWISE SPECIFIED  
 DECIMAL ±.005 FRACTIONAL ± 1/64 ANGULAR ± 1/2°  
 DIMENSIONS ENCLOSED THUS .000 FOR REFERENCE ONLY

POWER SECTION



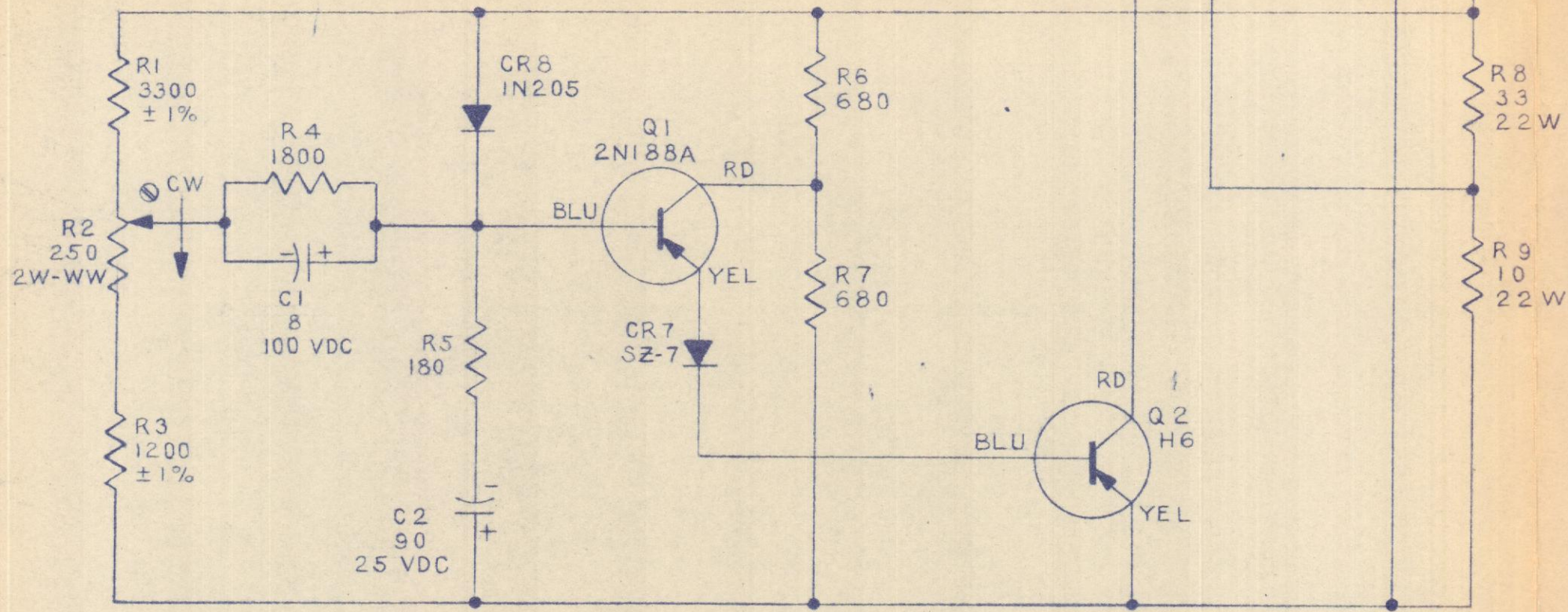
E1 6 TERMINAL JONES STRIP 6-142

E3 6 TERMINAL JONES STRIP 6-141

E2 2 TERMINAL JONES STRIP 2-151

DC-OUTPUT 30 VOLTS 15 AMPS

REGULATOR SECTION



DRAWING REFERENCES:

- 1. ASSEMBLY: E-69437
- 2. PARTS LIST: PL-69437

NOTES:

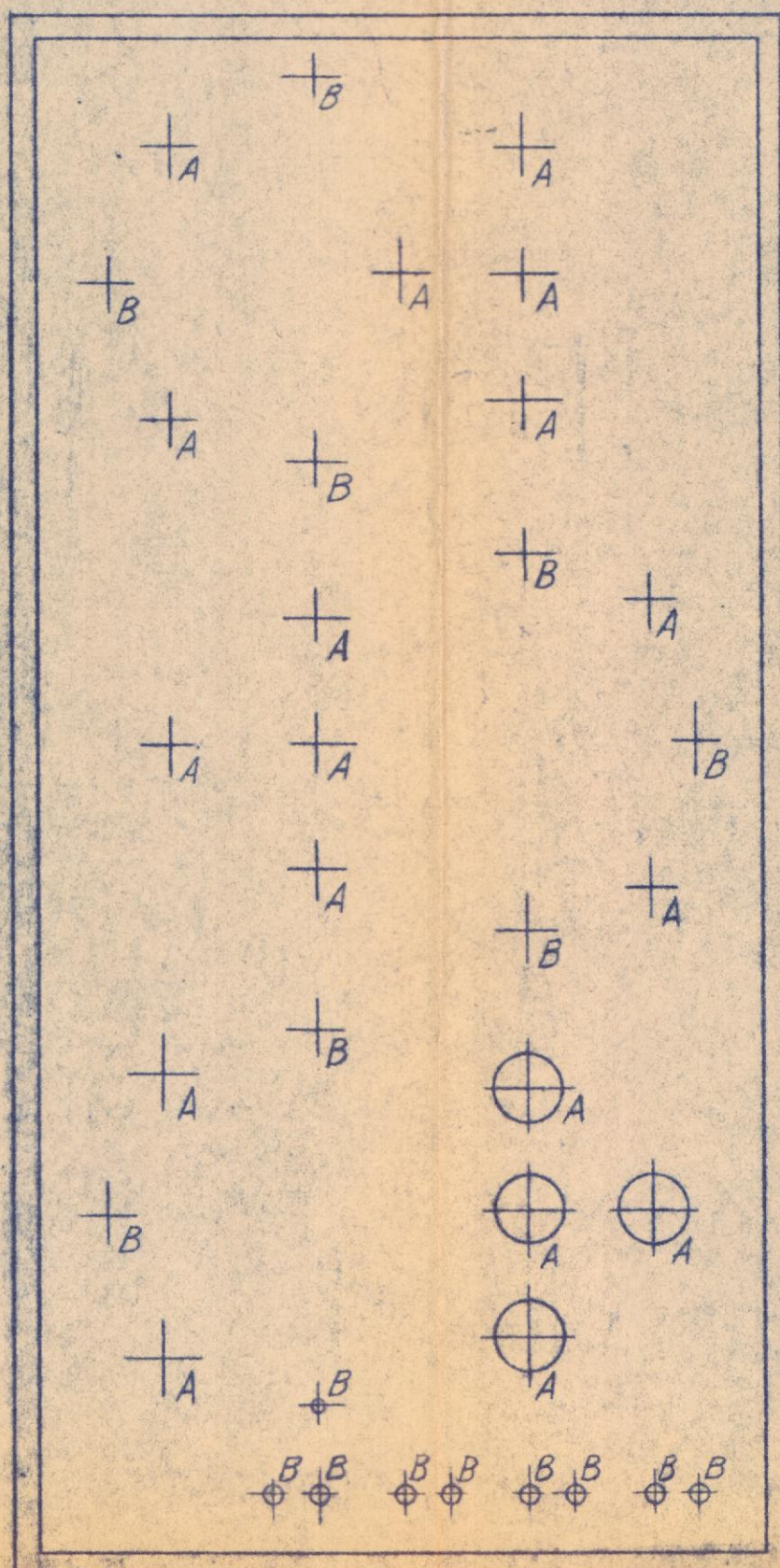
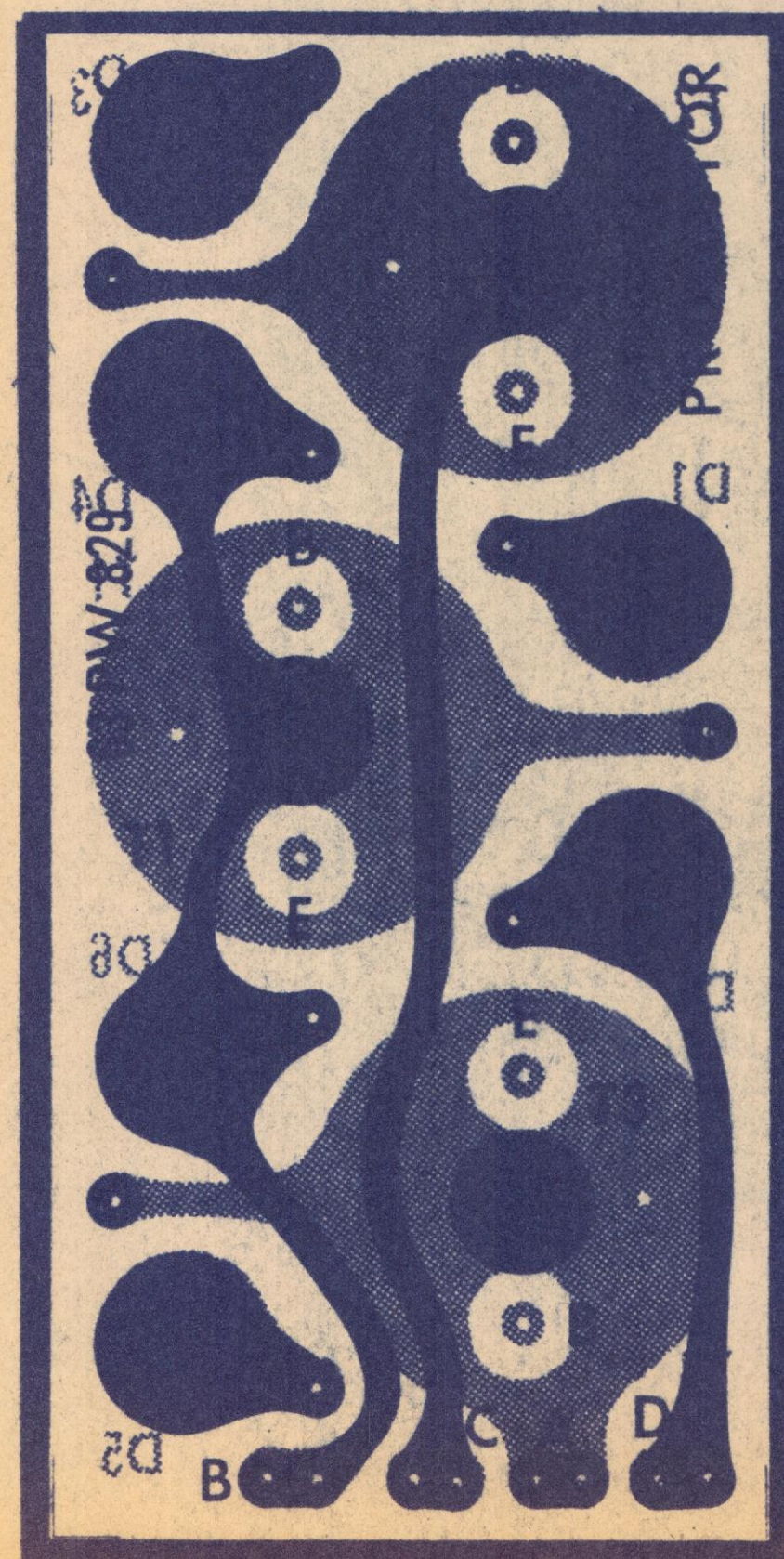
- 1. CRYSTAL RECTIFIERS CR1-CR6 ARE WESTINGHOUSE WN-5091A.
- 2. T1-T3 ARE FILAMENT TRANSFORMERS DCL # 195-7.
- 3. SC1-SC6 ARE WESTINGHOUSE #RA-25 HIPERSIL CORES, GATE WINDING (1-2) 110 TURNS #14 WIRE, CONTROL WINDING (3-4) 11 TURNS #22 WIRE.
- 4. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE IN OHMS, 1W, ±5%

PRINT ISSUED  
 FEB 18 1957

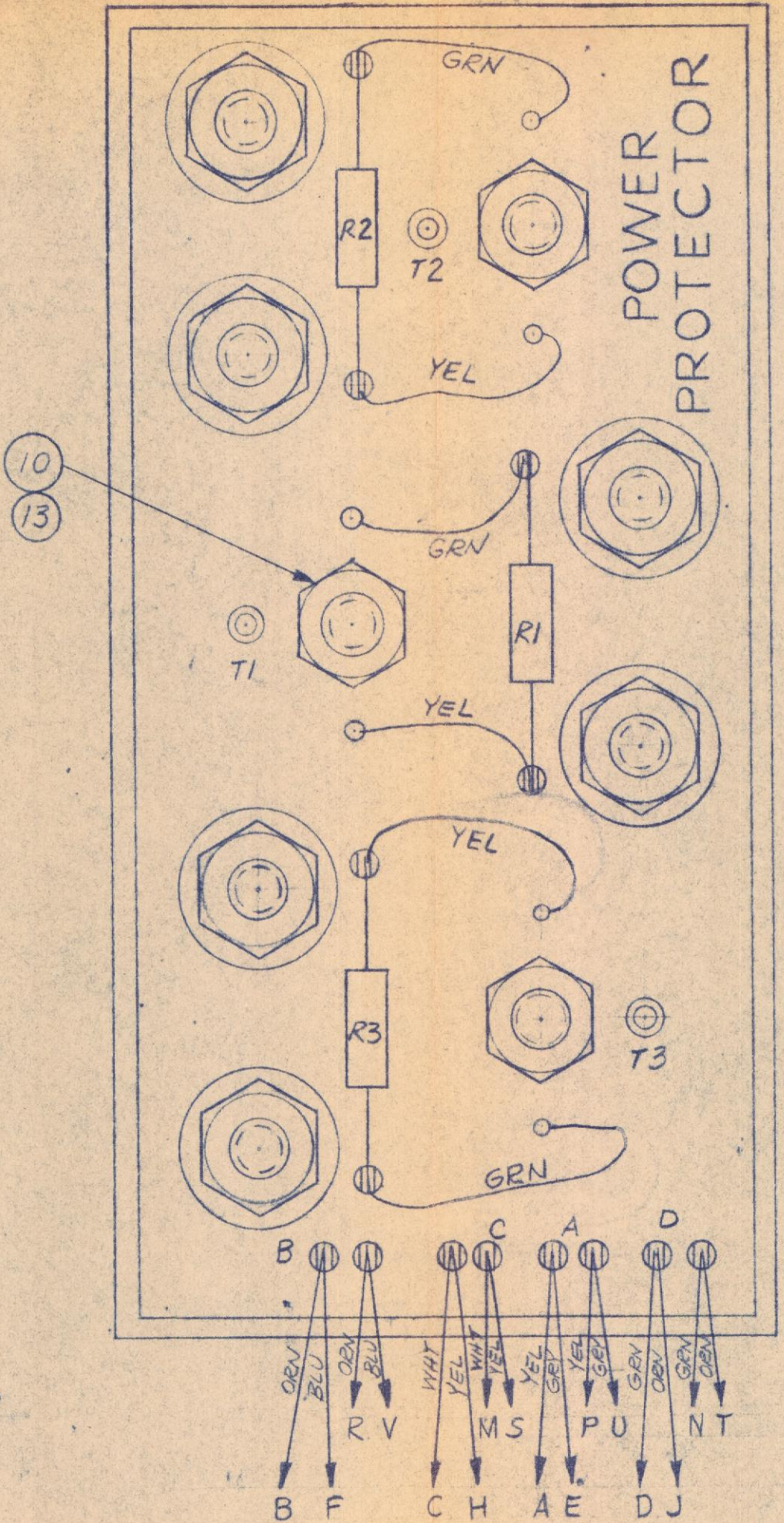
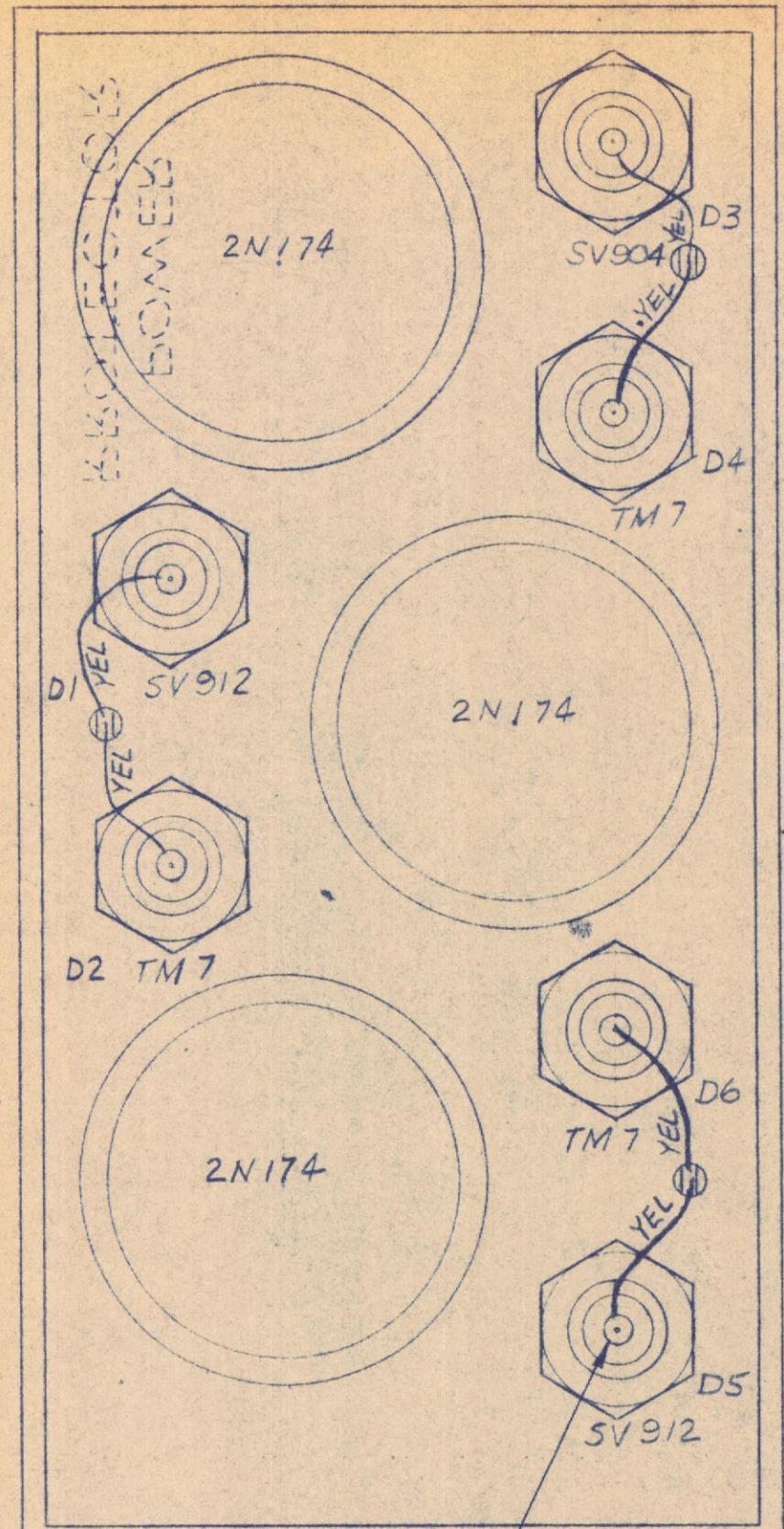
GRADE I FOR REFERENCE ONLY			
GRADE II PRELIMINARY DESIGN			
S. Coffin 2-7-57 GRADE III FINAL DESIGN			
GRADED BY: DATE:		ITEM	MATERIAL-DESCRIPTION
		PART NO.	QTY.
LINCOLN LABORATORY DIV. 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73, MASS.			
CIRCUIT SCHEMATIC, 30 VOLT, 15 AMP. D-C POWER SUPPLY, TX-2			
SCALE:		DR. J. LOFGREN 2-7-57	
ENG. 2-7-57	CK. 2-7-57	APPD. 2-7-57	C-69436
S. Coffin	S. Coffin	S. Coffin	

"A" HOLES = 3/16 DIA.  
"B" HOLES = .046 DIA.

COMPOSITE CARD B

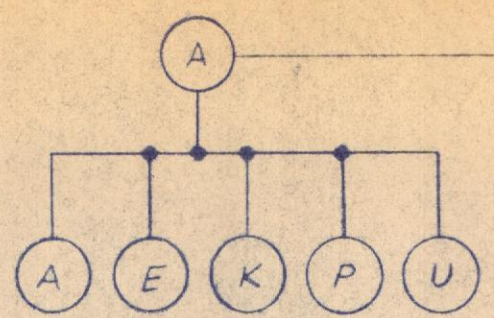
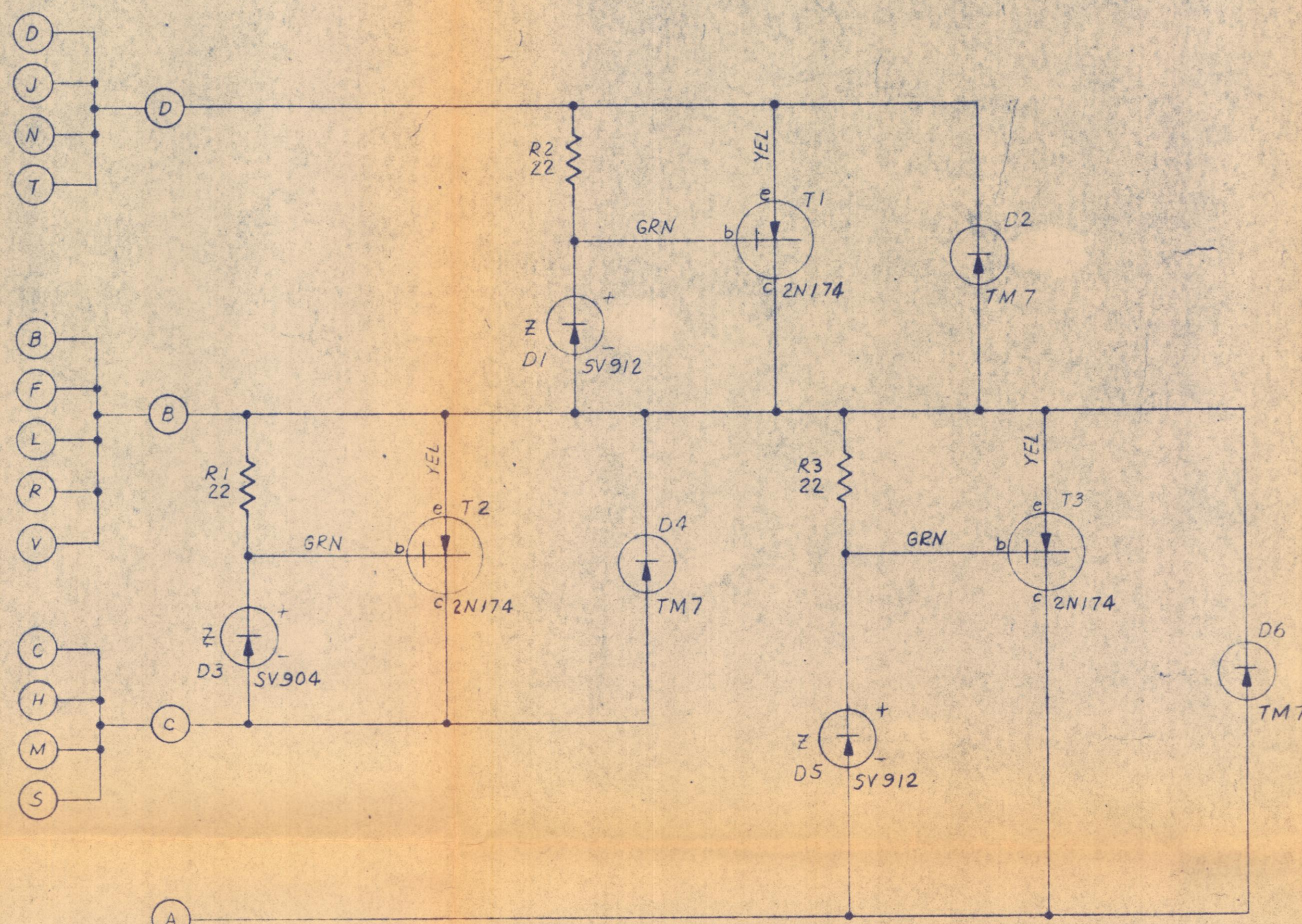


COMPONENT

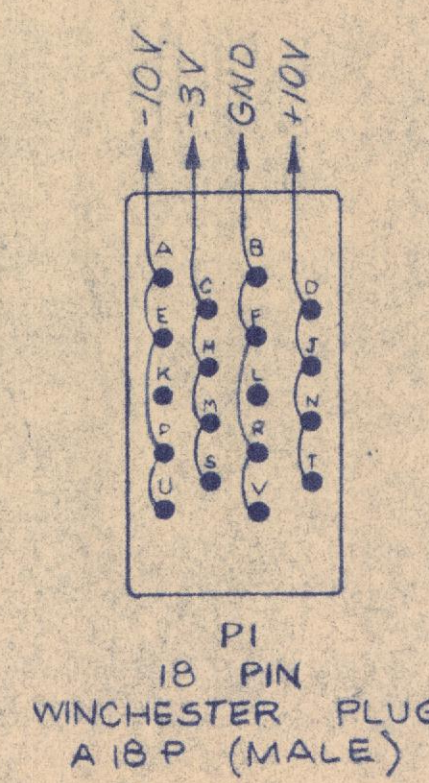


BEND LUGS OVER

SCHEMATIC



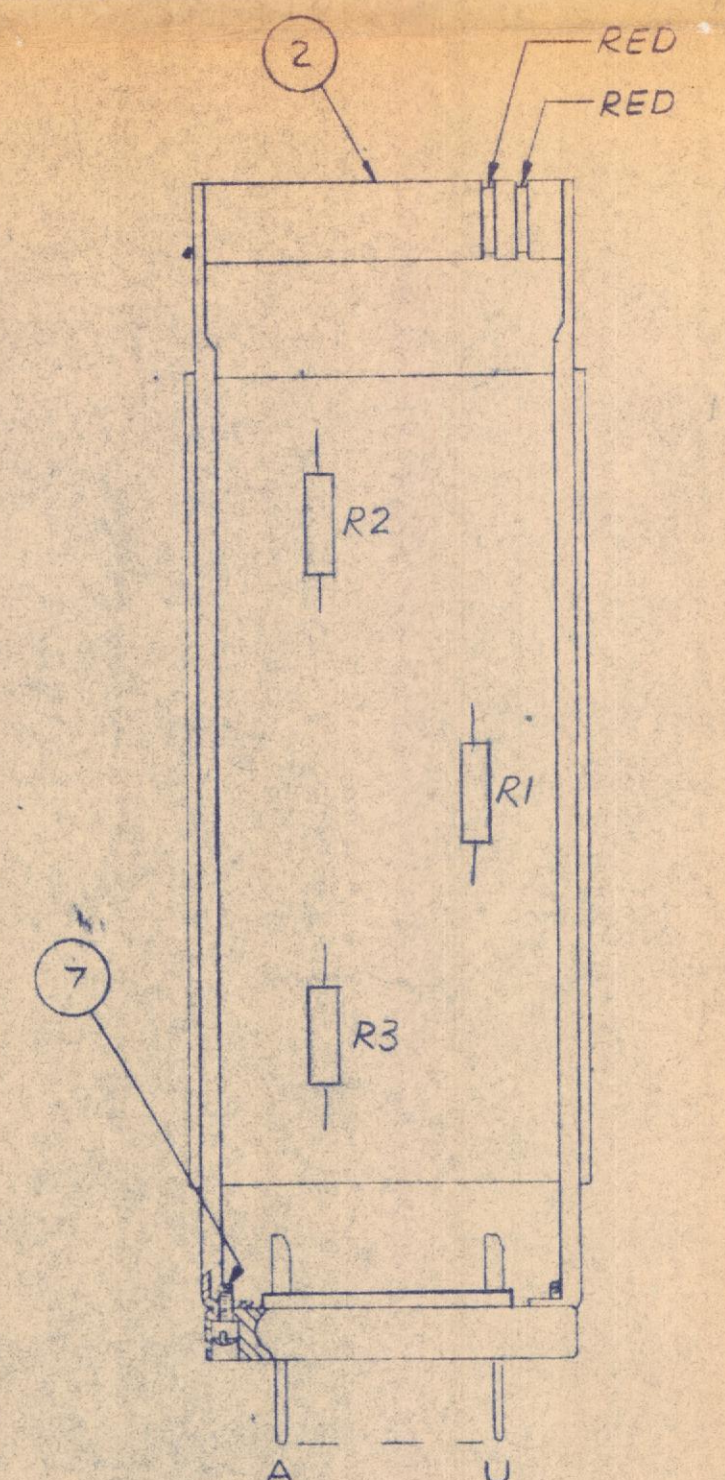
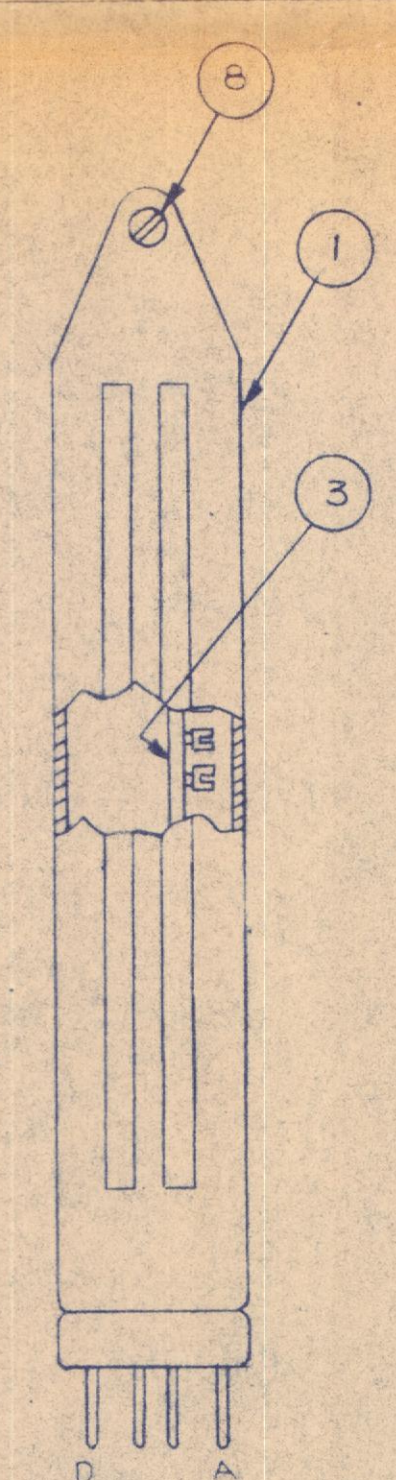
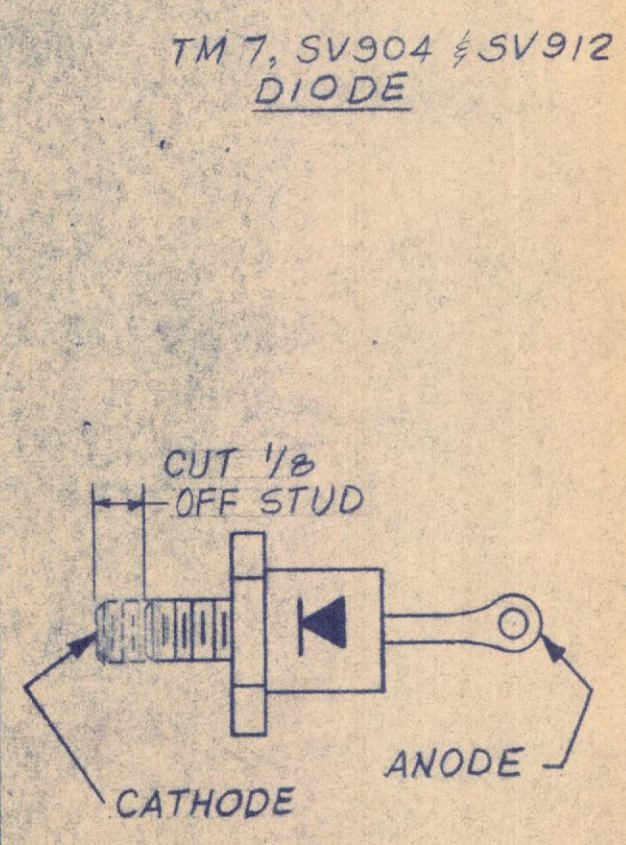
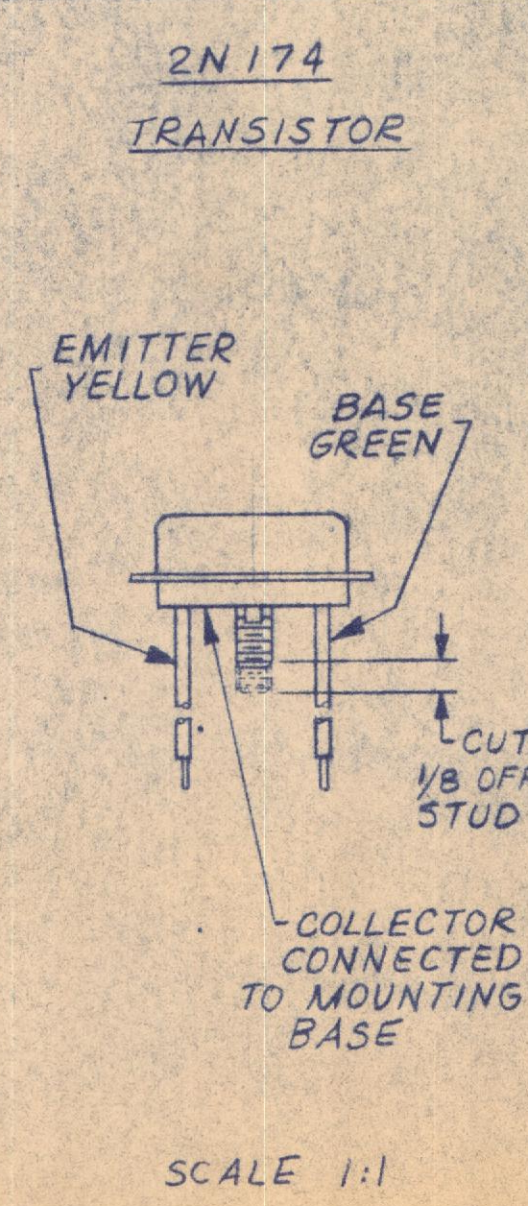
(A) DENOTES, TERMINAL 7 CARD A  
(H) DENOTES, PIN H ON PLUG P1.



NOTES:  
1. UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE 1/2 W, ± 5%.  
2. ALL WIRE #22 STRANDED.  
3. HAND SOLDER TERMINALS AT ASSEMBLY.  
4. SOLDER PLATE ETCHED WIRING CARD.

DRAWING REFERENCE:

PARTS LIST: PL-82709



SCALE 1:1  
PRINT ISSUED  
AUG 23 1957

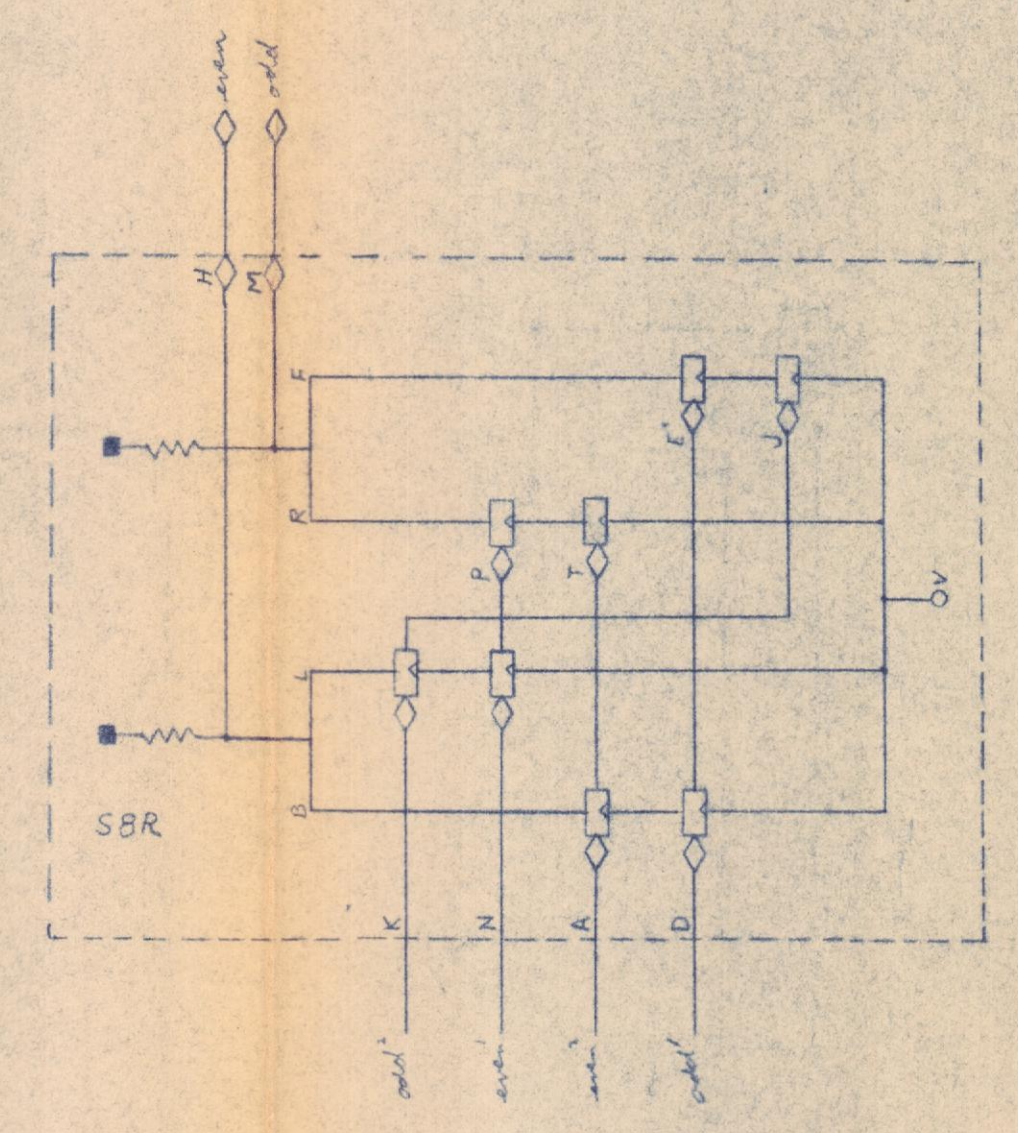
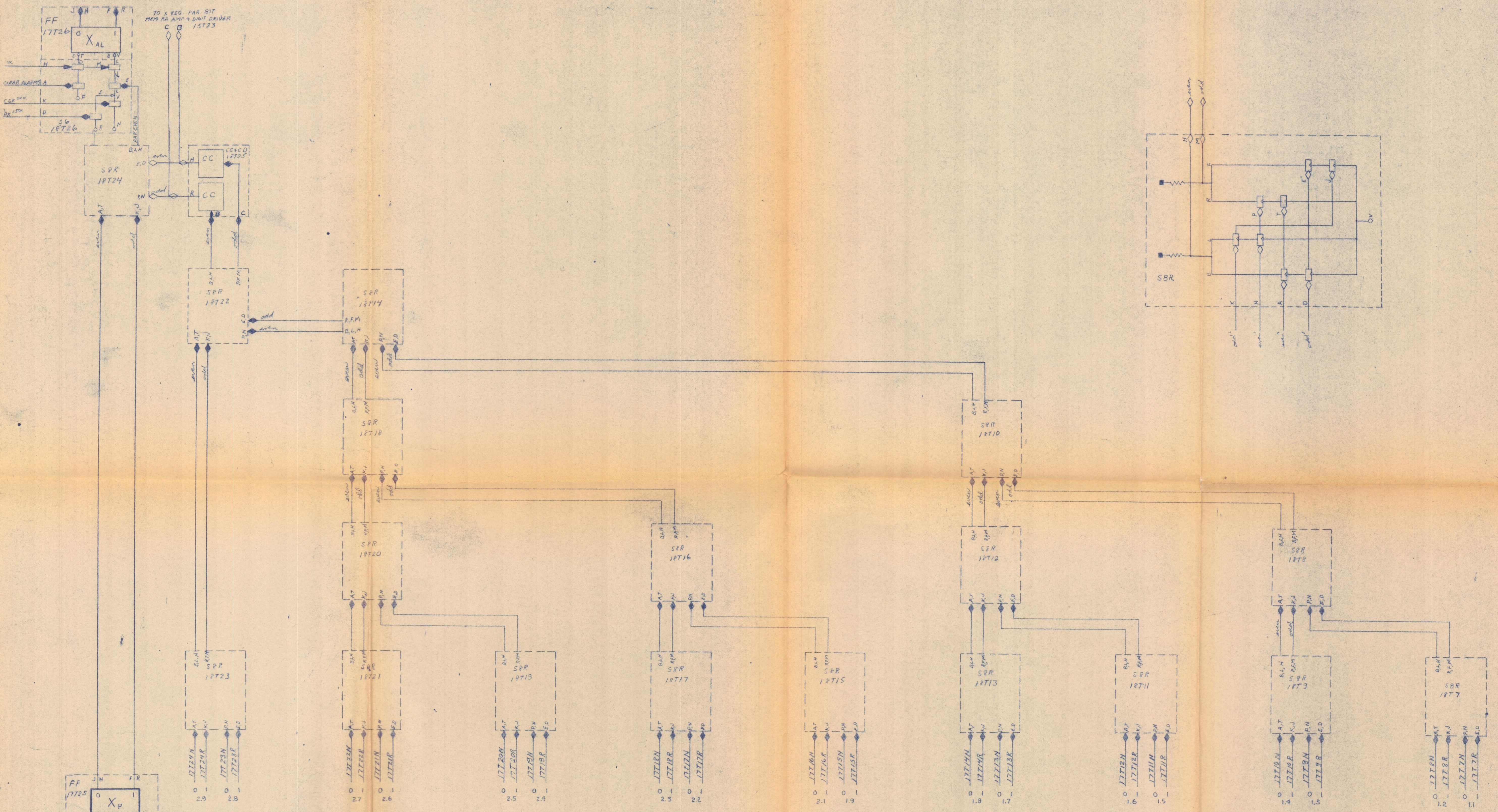
Kosen

GRADE I FOR REFERENCE ONLY		GRADE II PRELIMINARY DESIGN		GRADE III FINAL DESIGN	
DATE	APP'D	DATE	APP'D	DATE	APP'D
LINCOLN LABORATORY DIV 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73 MASS					
ASSY, COMPOSITE & SCHEMATIC, P.I.U. POWER PROTECTOR, TX-2					
SCALE	2:1	DR	6/12-57		
ENG	8/9/57	CK	M.B. HIRS		
K.H. Kosen		K.H. Kosen		D-82709	



5D-67693

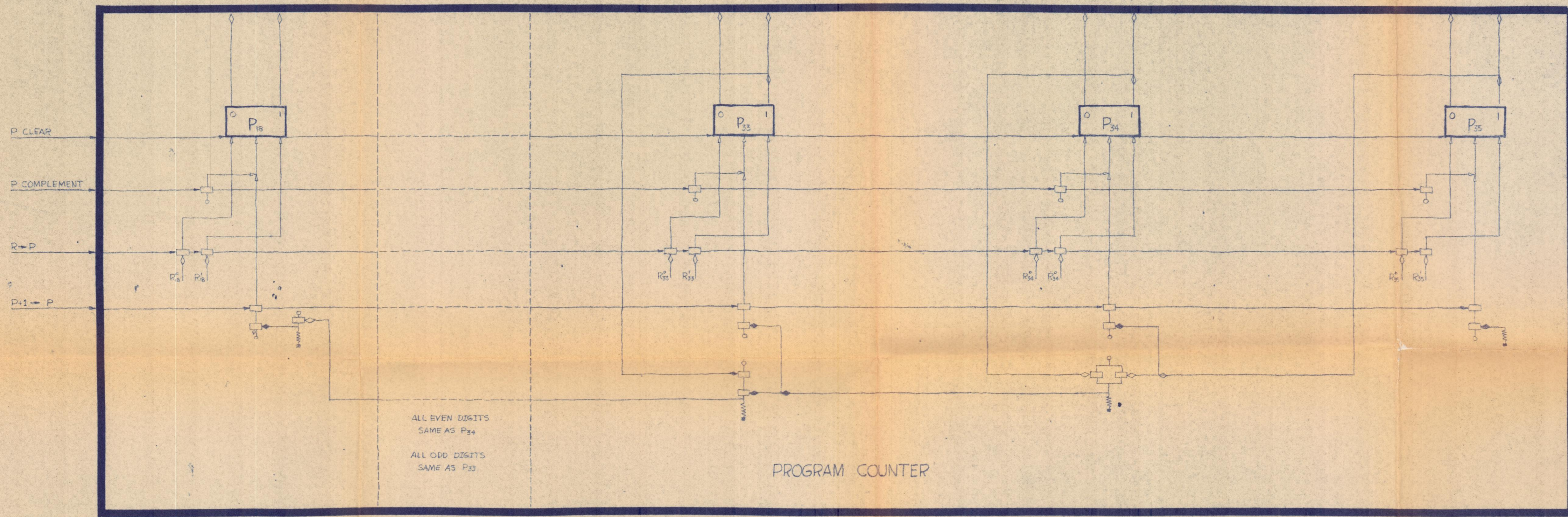
TOLERANCES NOT OTHERWISE SPECIFIED  
 DECIMAL ± .005 FRACTIONAL ± 1/64 ANGULAR ± 1/2°  
 DIMENSIONS ENCLOSED THUS .000 FOR REFERENCE ONLY



PRINT ISSUED  
 AUG 20 1957

GRADE I FOR REFERENCE ONLY GRADE II PRELIMINARY DESIGN GRADE III FINAL DESIGN GRADED BY: DATE:		ITEM: _____ MATERIAL-DESCRIPTION: _____ PART NO.: _____ QTY: _____
LINCOLN LABORATORY DIV. 6 MASSACHUSETTS INSTITUTE OF TECHNOLOGY LEXINGTON 73, MASS.		X REG. PAR COUNT BL. SCH. #W.D., TX-2 SEC. C. FERMEZ DR. SPARFENK
SCALE: _____ ENG. 9-2-56 CK. _____ APPD. C.A.V. 10-5-56	CHG. NO. _____ DATE _____ APPD. _____	SD-67693

TOLERANCES NOT OTHERWISE SPECIFIED  
 DECIMAL ± .005 FRACTIONAL ± 1/64 ANGULAR ± 1/2°  
 DIMENSIONS ENCLOSED THUS .000 FOR REFERENCE ONLY



ALL EVEN DIGITS  
 SAME AS P<sub>34</sub>  
 ALL ODD DIGITS  
 SAME AS P<sub>33</sub>

PROGRAM COUNTER

GRADE I FOR REFERENCE ONLY		ITEM		MATERIAL - DESCRIPTION		PART NO.		QTY.	
GRADE II PRELIMINARY DESIGN				LINCOLN LABORATORY DIV. 6					
GRADE III FINAL DESIGN				MASSACHUSETTS INSTITUTE OF TECHNOLOGY					
GRADED BY: DATE:				LEXINGTON 73, MASS.					
FOR CHECKING PURPOSES ONLY				PROGRAM COUNTER, TX-2 BLOCK SCHEM.					
AUG 20 1958				SCALE:		DR. C. G. NORMAN			
				ENG.		CK.		APPD.	
								D-	