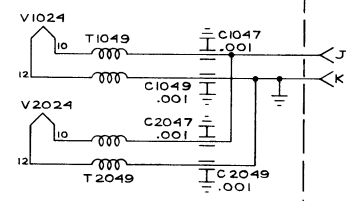
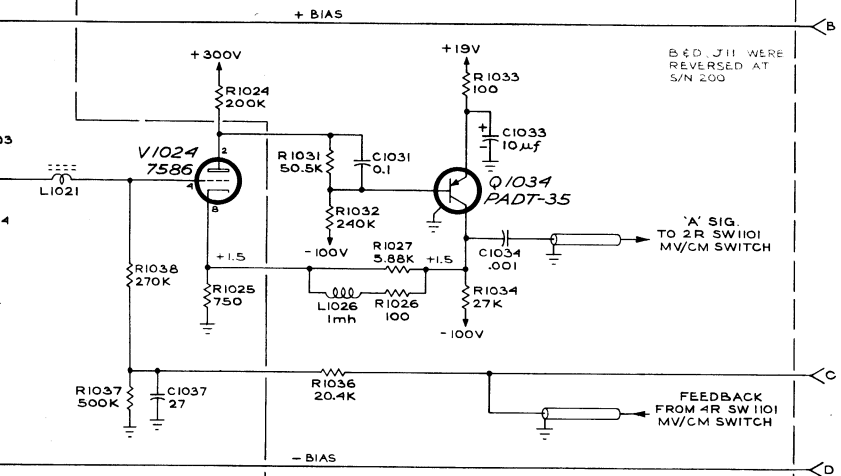
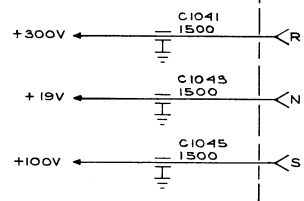
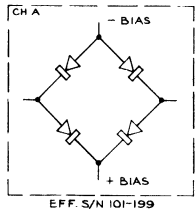


VOLTAGE READINGS WERE OBTAINED UNDER FOLLOWING CONDITIONS:
 Signal None
 Trace Centered

TYPE 4S2

A

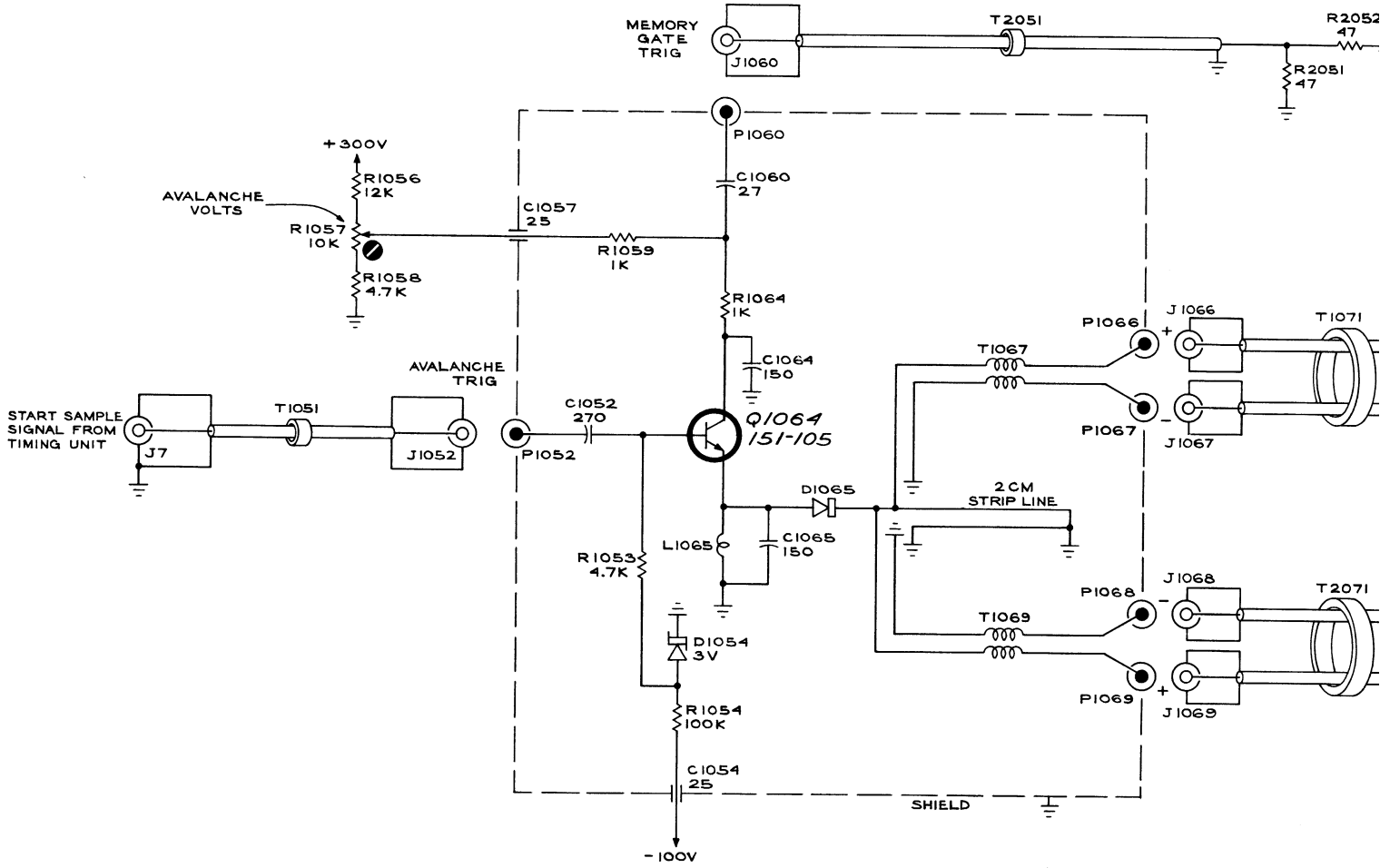
CMD 863
 SAMPLER

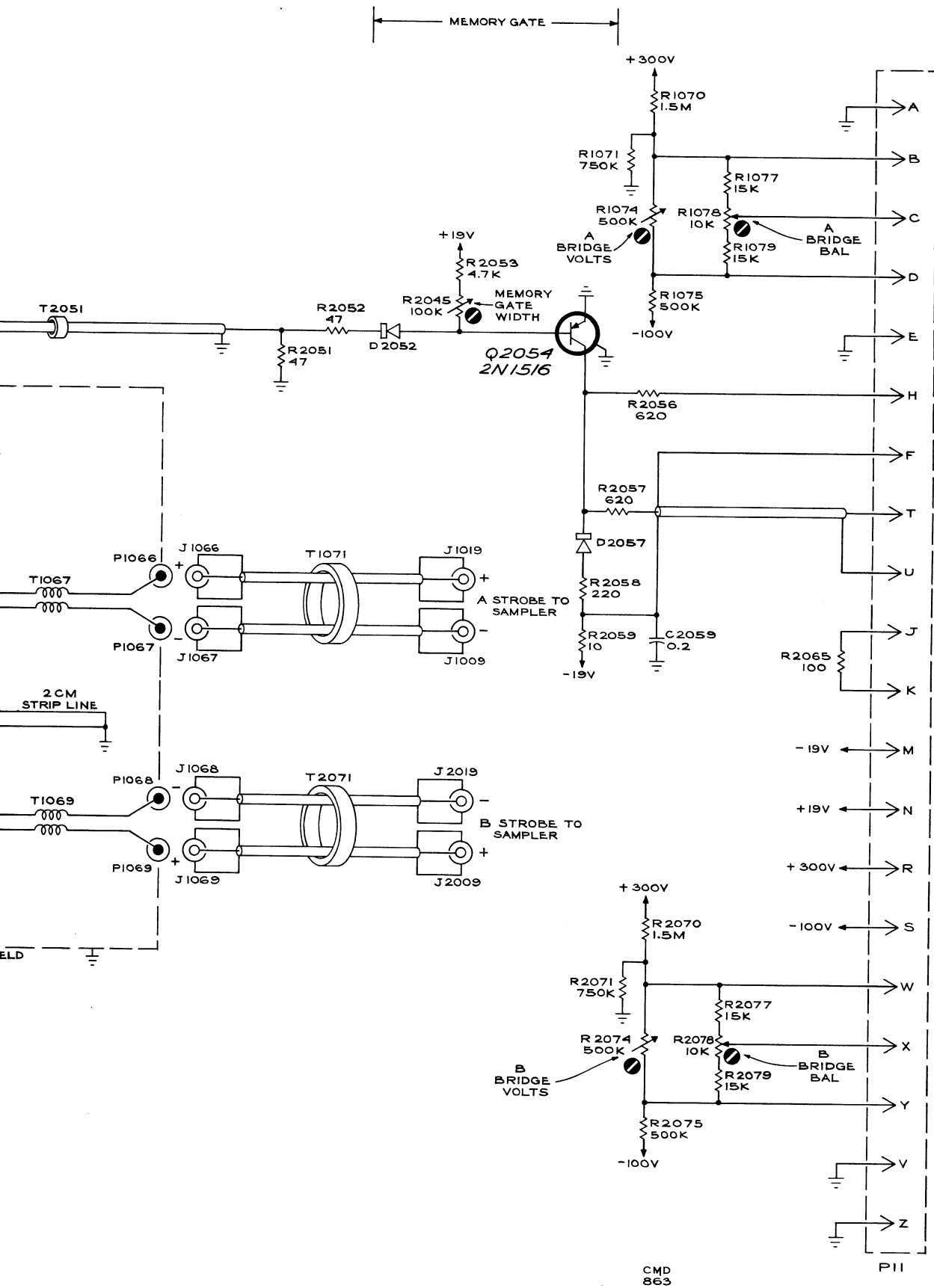


VOLTAGE READINGS WERE OBTAINED UNDER FOLLOWING CONDITIONS:

Signal None

Trace Centered

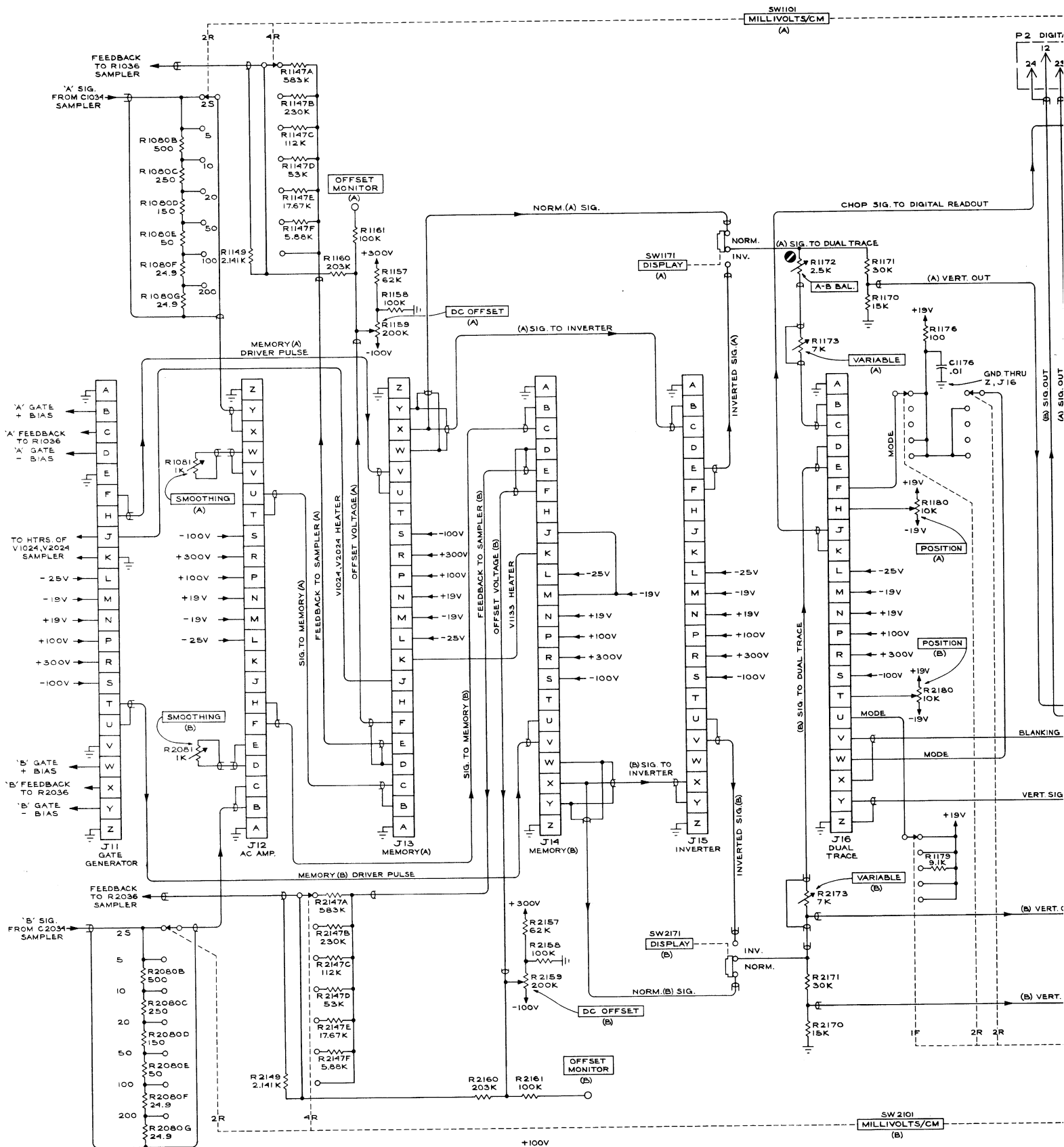




GATE GEN.

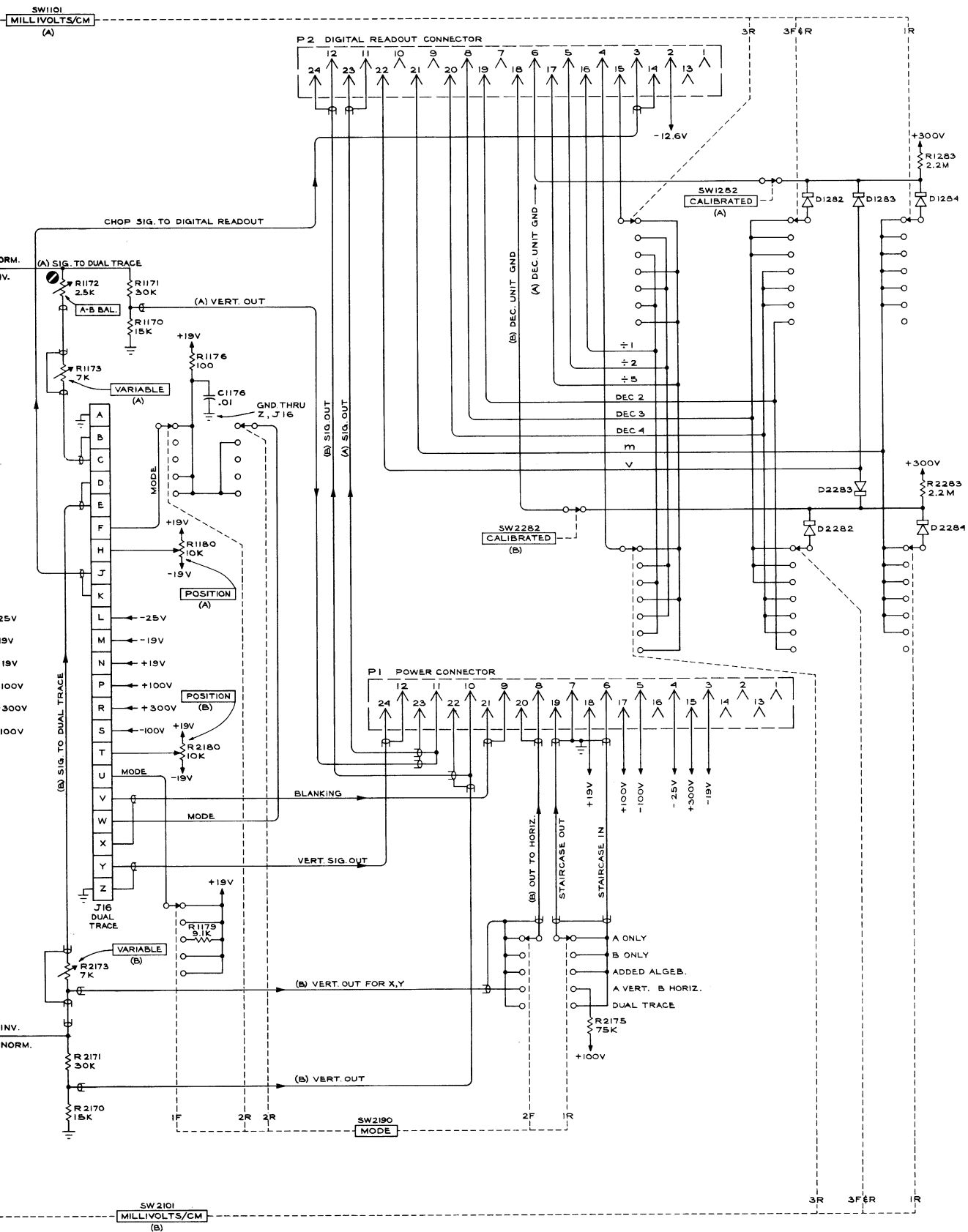
GATE GENERATOR
SERIES 6 MODEL I

A



TYPE 452

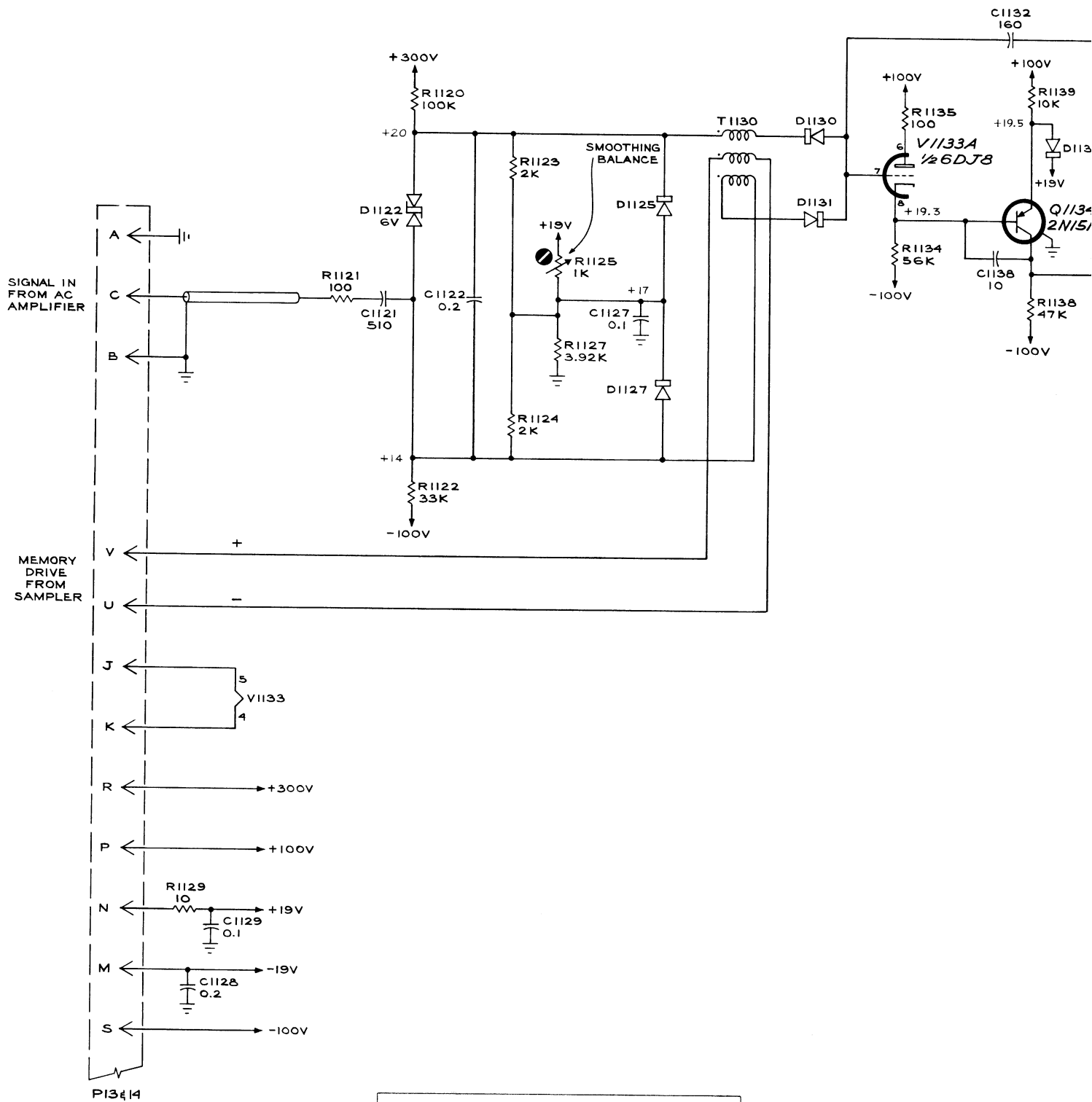
A



INTERCONNECTORS & SWITCHING

CMD
863

INTERCONNECTORS & SWITCHING

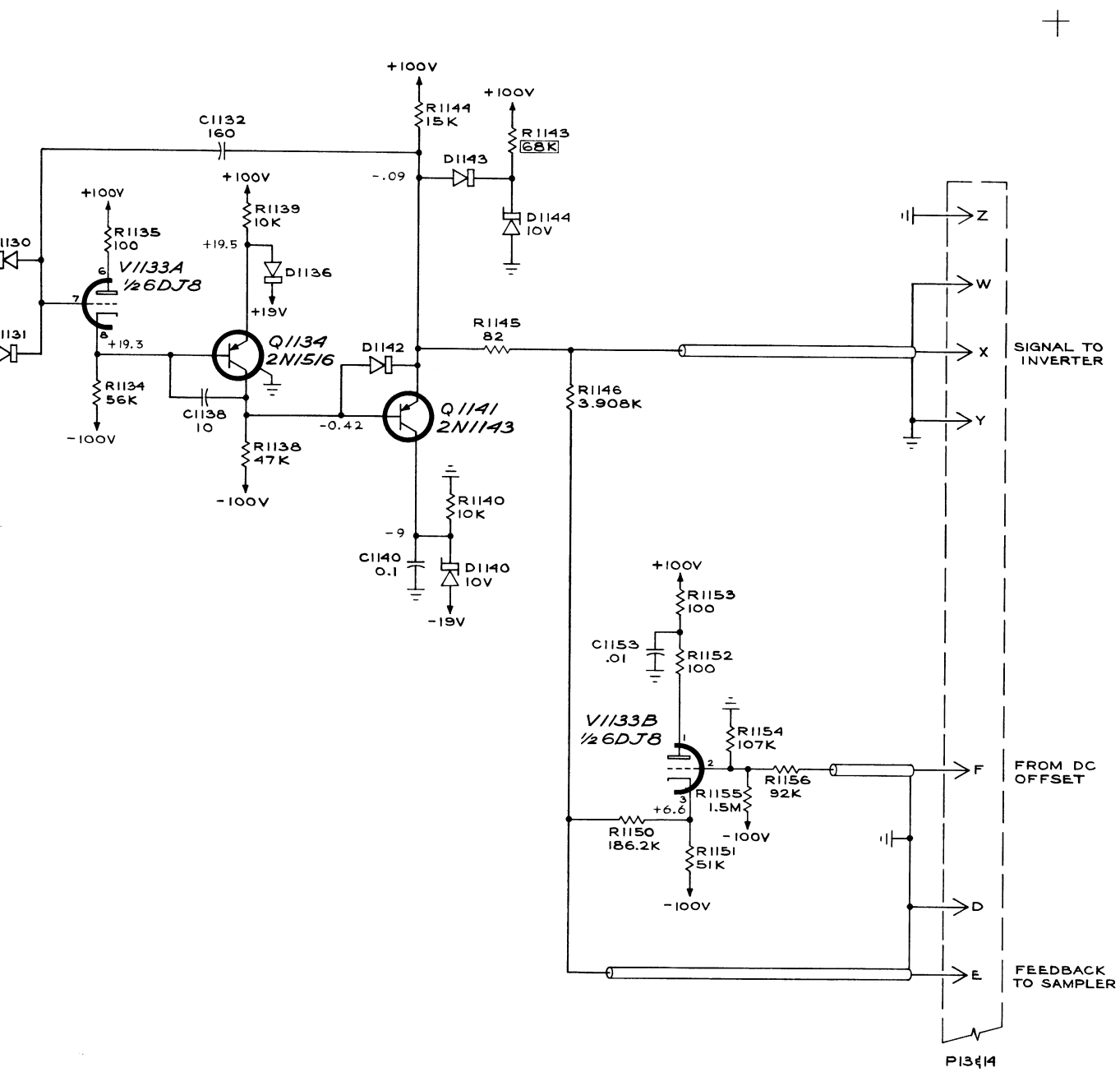


VOLTAGE READINGS WERE OBTAINED UNDER FOLLOWING CONDITIONS:
 DC OFFSET Zero Volts
 Trace Centered

TYPE 4S2

A





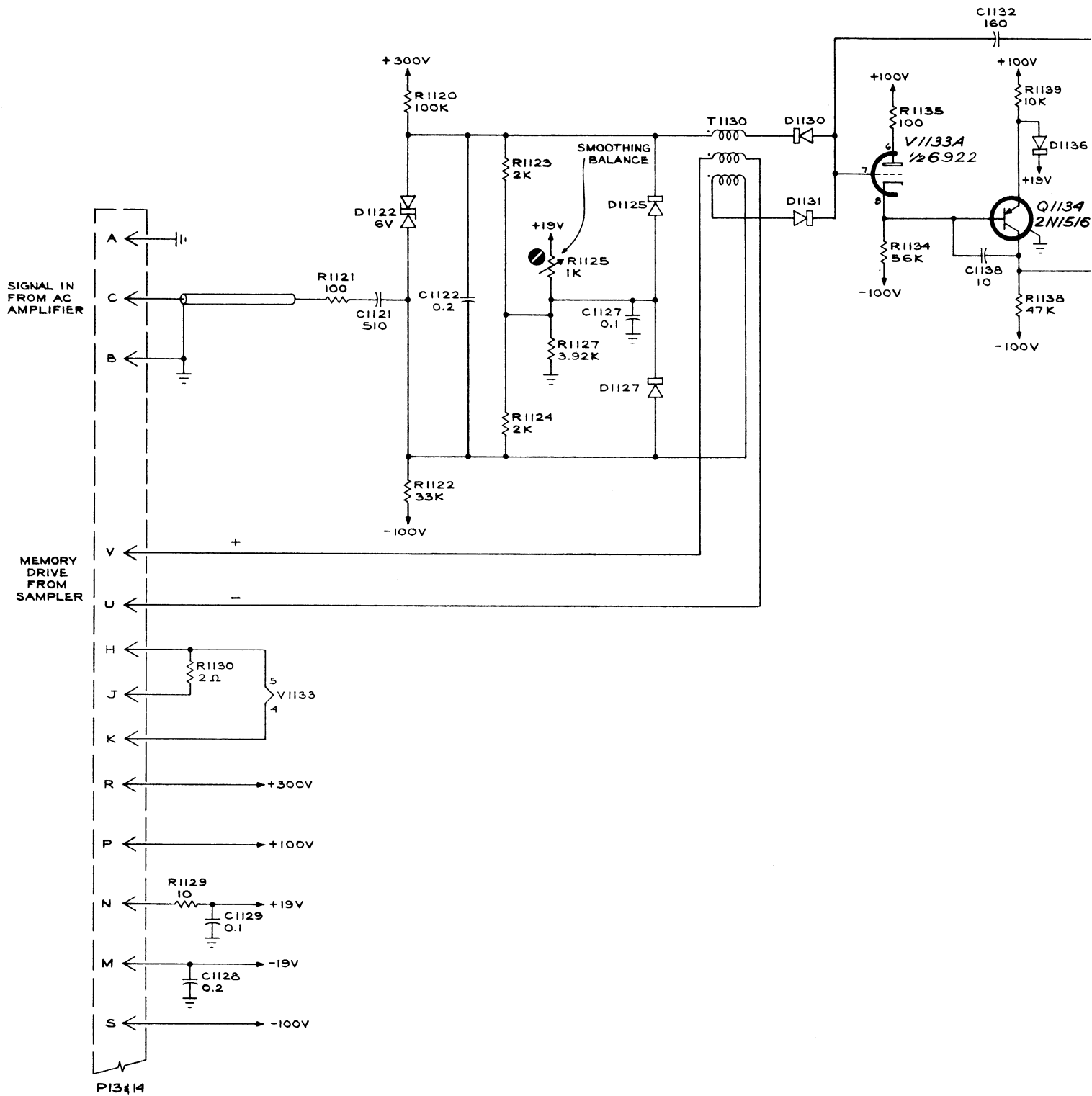
SEE PARTS LIST FOR EARLIER
VALUES AND S/N CHANGES OF
PARTS MARKED WITH BLUE
OUTLINE

CMD
863

MEMORY

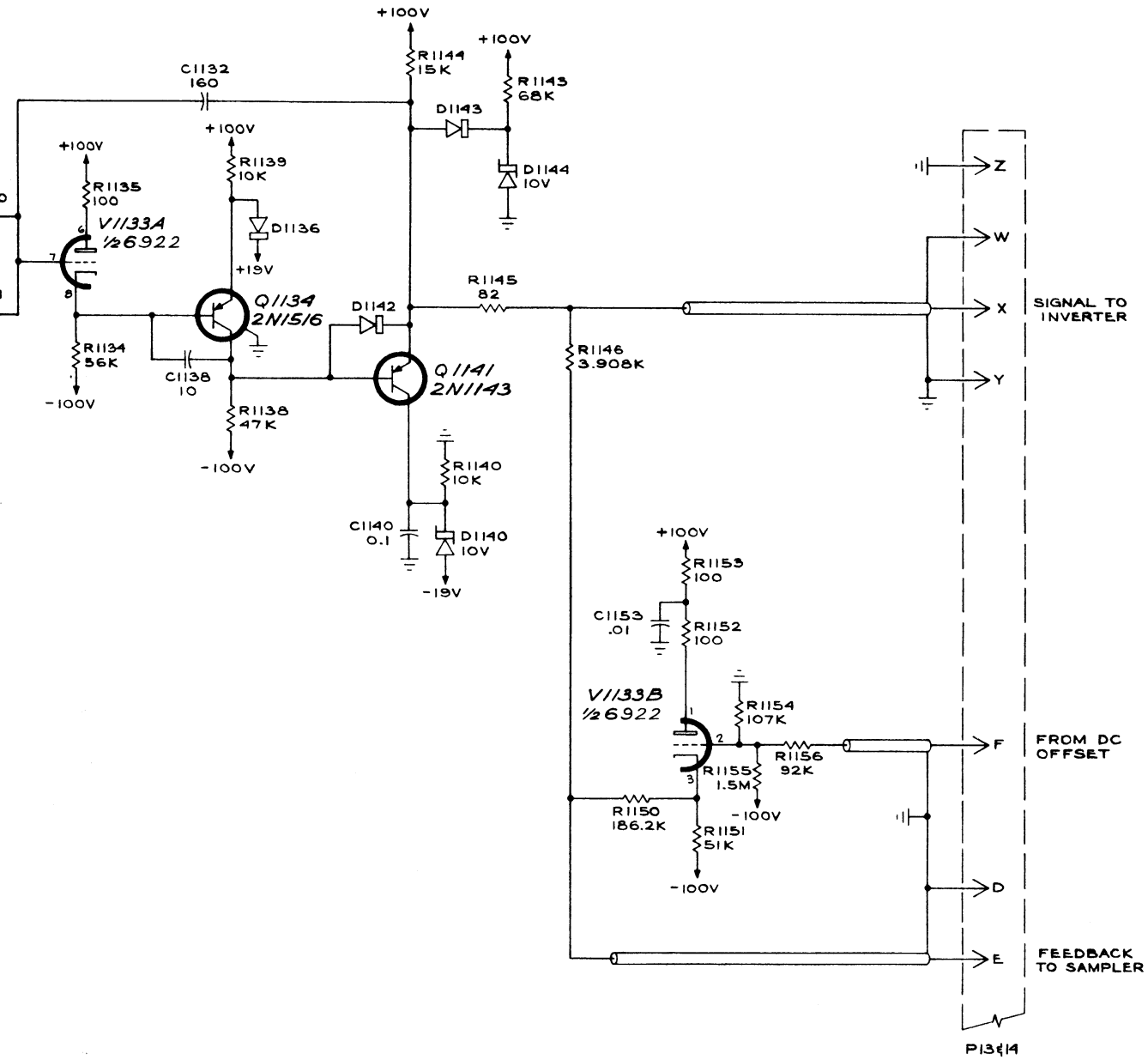
SERIES 8 MODELS 1&2

MEMORY



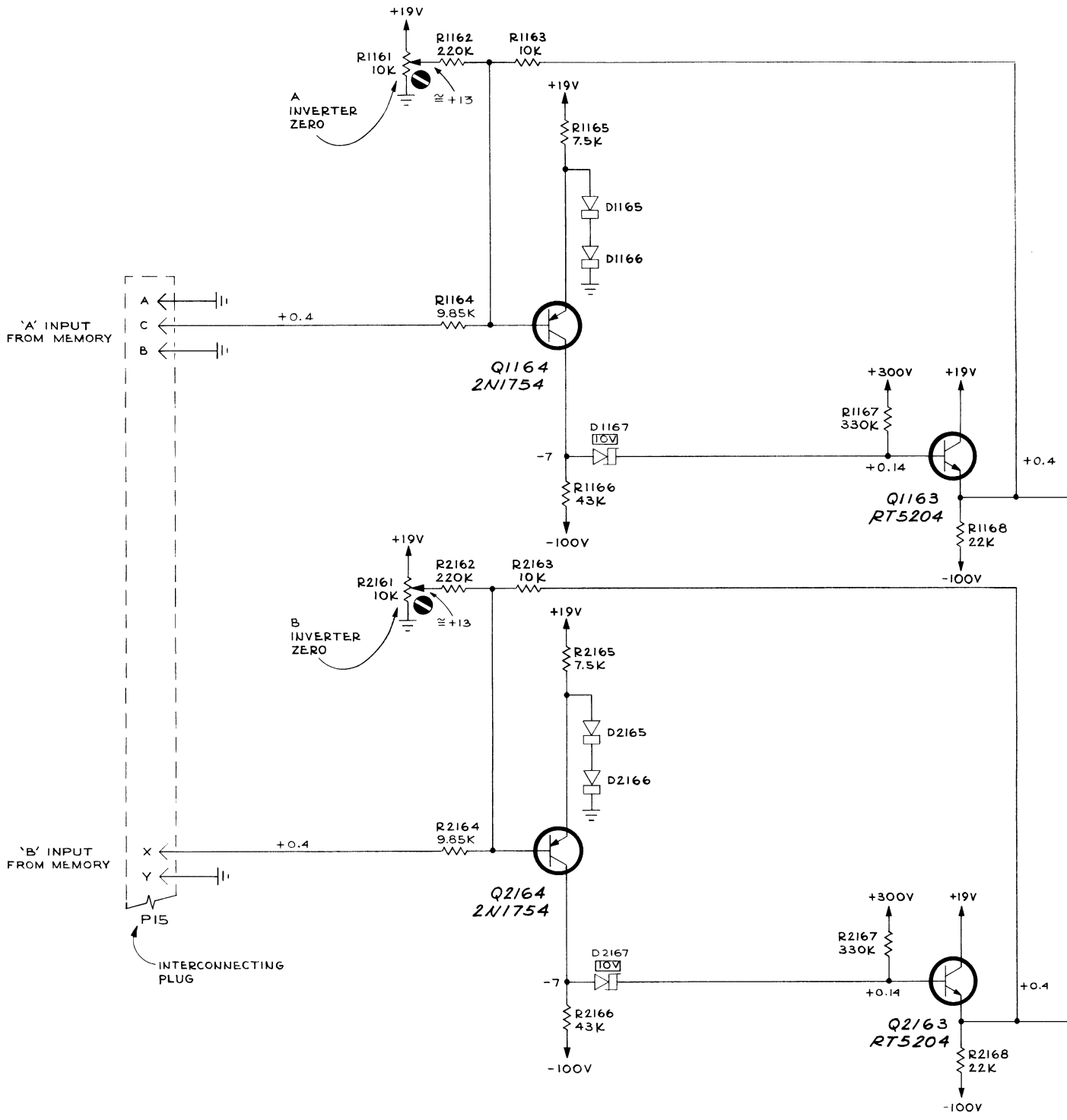
TYPE 4S2

A



CMD
863
MEMORY
SERIES II MODEL I

MEMORY

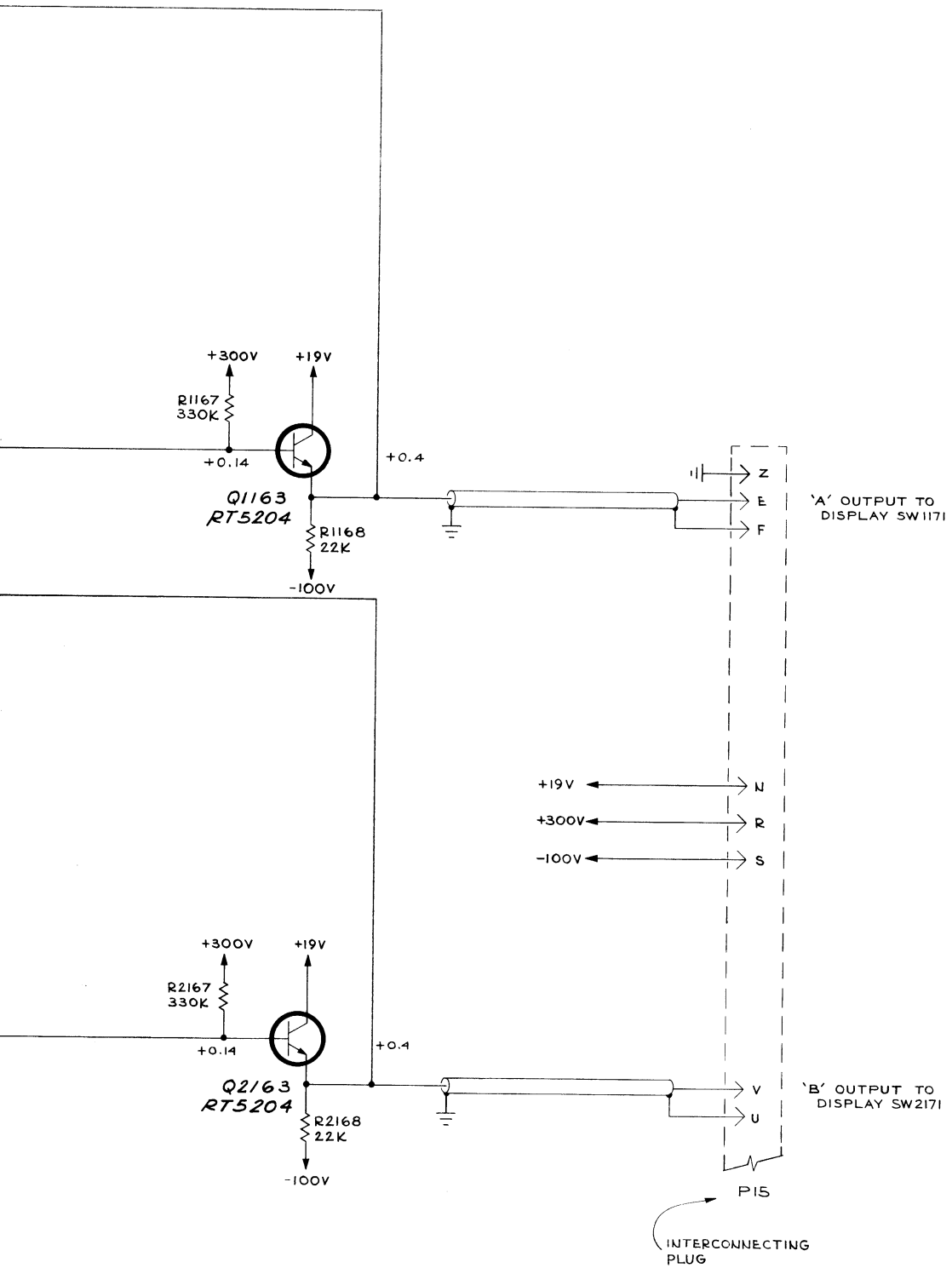


SEE PARTS LIST FOR EACH VALUE AND S/N CHANGES OF PARTS MARKED WITH BLUE OUTLINE

VOLTAGE READINGS WERE OBTAINED UNDER FOLLOWING CONDITIONS:
 DISPLAY INVERTED
 Trace Centered

TYPE 4S2

A

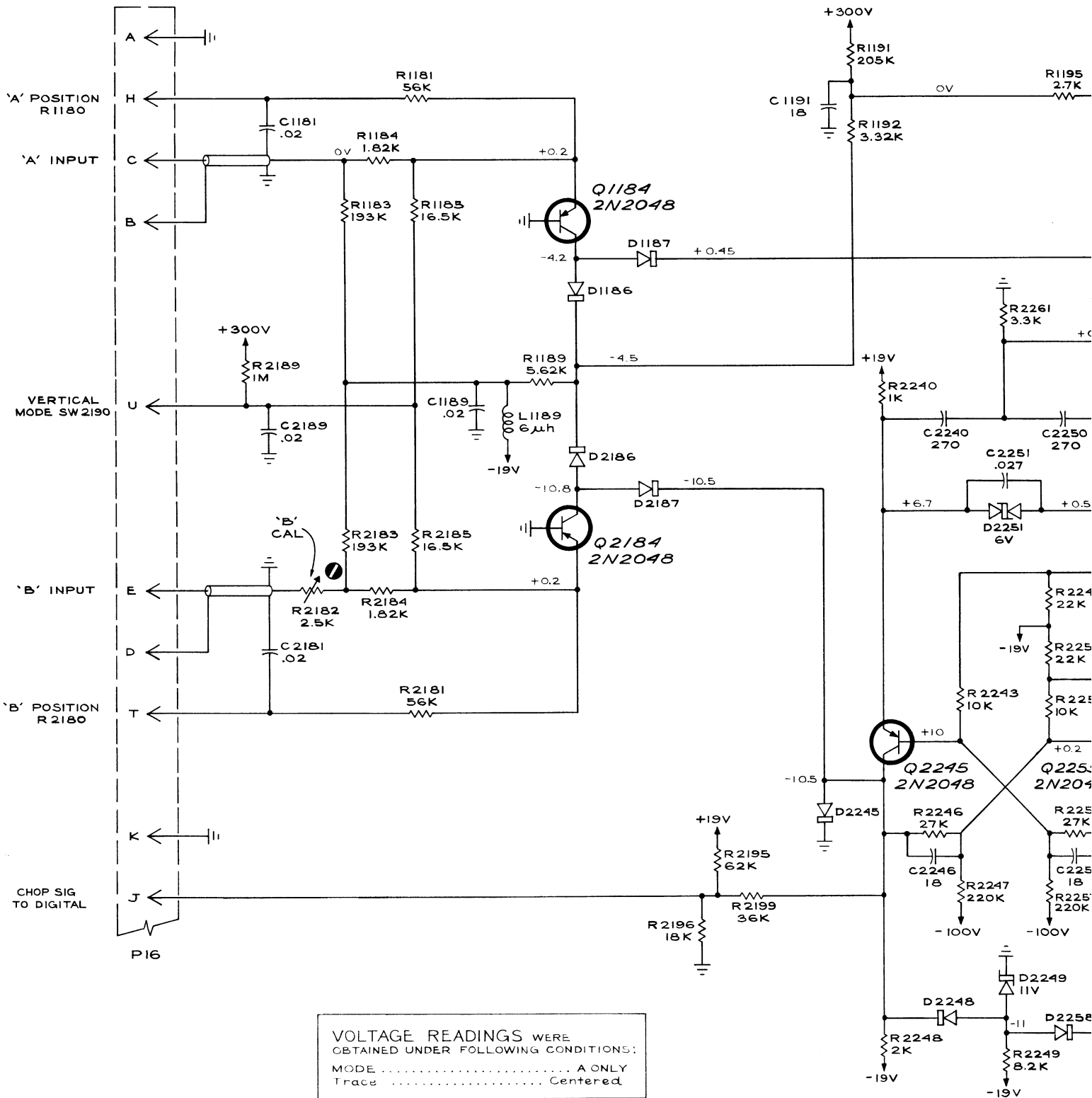


SEE PARTS LIST FOR EARLIER
VALUES AND S/N CHANGES OF
PARTS MARKED WITH BLUE
OUTLINE

JN
863

INVERTER
SERIES 9 MODELS 142

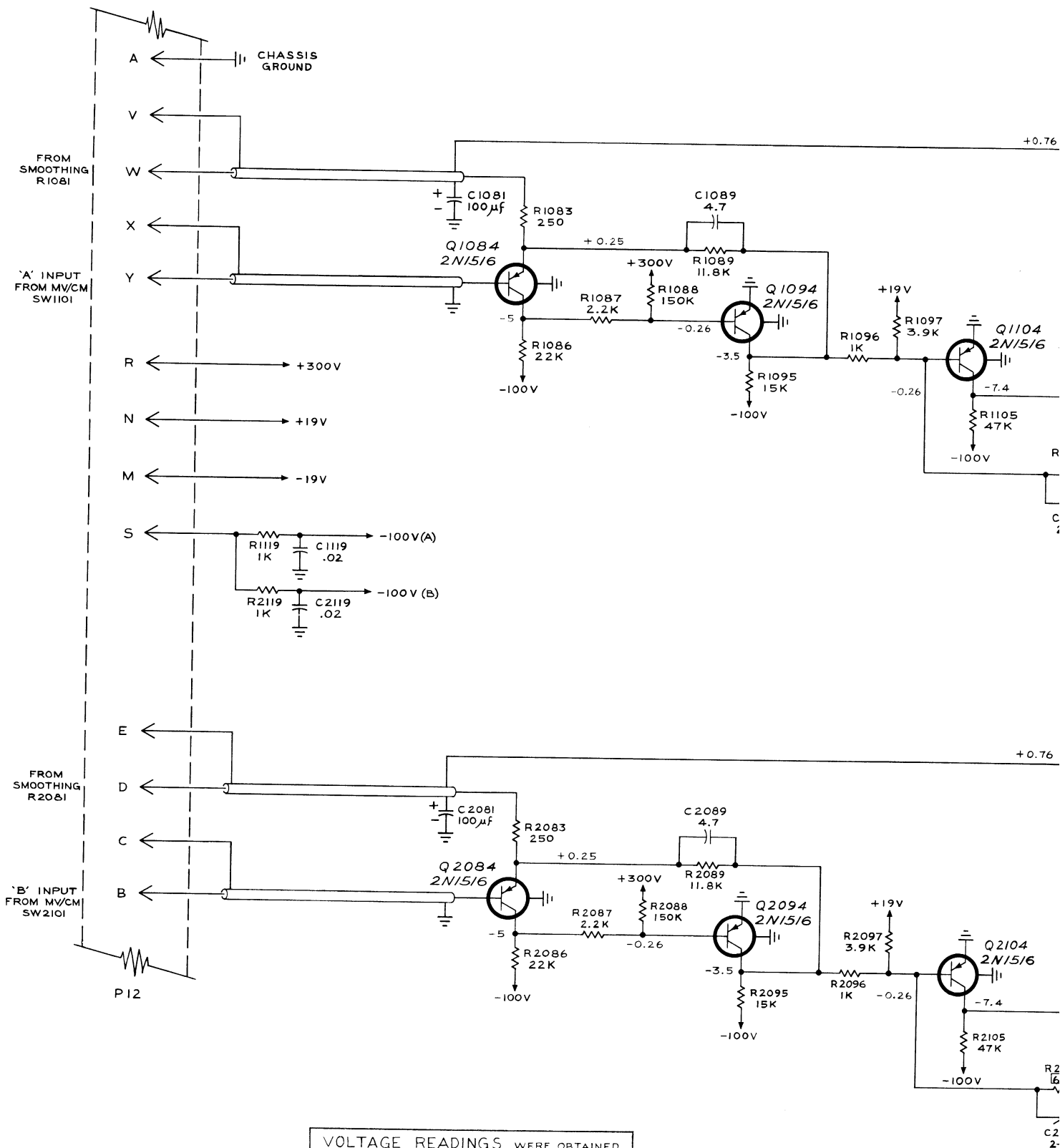
A



TYPE 4S2

A

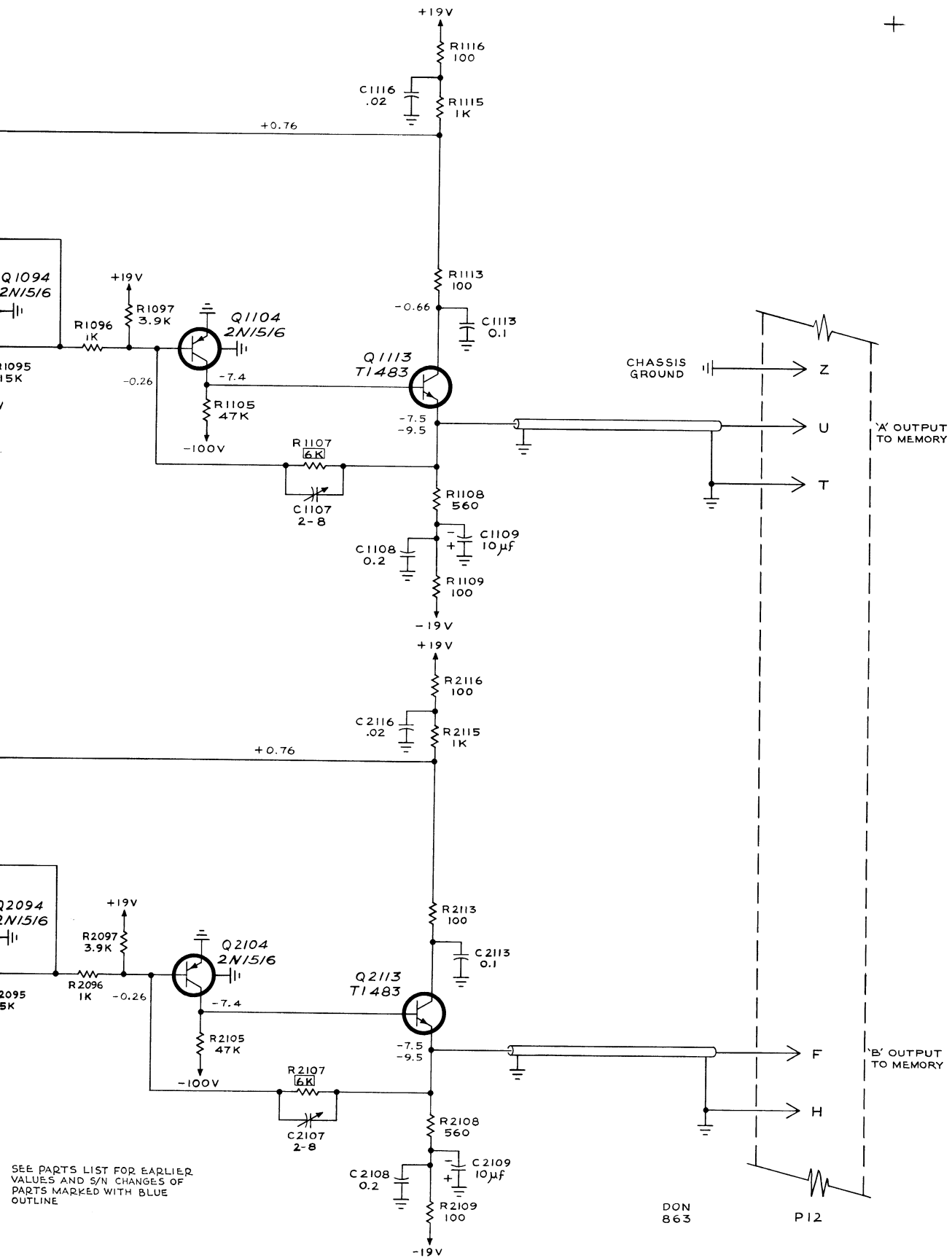
+



VOLTAGE READINGS WERE OBTAINED UNDER THE FOLLOWING CONDITIONS:
 DC OFFSET Zero Volts
 SMOOTHING:
 UPPER READINGS NORMAL
 LOWER READINGS CCW

SEE PARTS LIST FOR EARLIER VALUES AND S/N CHANGES OF PARTS MARKED WITH BLUE OUTLINE





SEE PARTS LIST FOR EARLIER VALUES AND S/N CHANGES OF PARTS MARKED WITH BLUE OUTLINE

A

AC AMPLIFIER
SERIES 2 MODELS 2,3

AC AMP.

TYPE 4S2 - TENT. S/N 470

PARTS LIST CORRECTIONS

CHANGE TO:

C1007	283-099	33 pf	Cer	50 v	10%
C1017	283-099	33 pf	Cer	50 v	10%
C2007	283-099	33 pf	Cer	50 v	10%
C2017	283-099	33 pf	Cer	50 v	10%

TYPE 4S2

PARTS LIST CORRECTION

REMOVE

L1021	276-532	Core, Shield Bead
L2021	276-532	Core, Shield Bead

ADD

*C1031				
**R1021	317-201	220 Ω	1/10w	5%
***R2021	317-201	220 Ω	1/10w	5%

*This is a selected component. Its value can range from 0pf to 4.7pf depending on circuit requirements. When needed it is added between the grid of V1024 and ground.

**REPLACES L1021

***REPLACES L2021

TYPE 4S1 - TENT. Series 11, Model 3

TYPE 4S2 - TENT. Series 11, Model 3

TYPE 4S3 - TENT. Series 11, Model 3

PARTS LIST CORRECTION

(MEMORY BOARDS, TWO PER INSTRUMENT)

CHANGE TO:

D1130 }
D1131 } *152-145 with leads (1 pair)

TYPE 4S2

CHANGE TO:

PARTS LIST CORRECTIONS

R1002	315-510	51 Ω	1/4w	5%
R2002	315-510	51 Ω	1/4w	5%

ADD:

C2030 This is a selected component. Its value can range from 0 pf to 4.7 pf depending on circuit requirements. When needed it is added at the grid of V2024 between L2021 and ground.

TYPE 4S2

PARTS LIST CORRECTIONS

REMOVE:

R1007	317-270	27 Ω	1/10w	5%
R1017	317-270	27 Ω	1/10w	5%
R2007	317-270	27 Ω	1/10w	5%
R2017	317-270	27 Ω	1/10w	5%

CHANGE TO:

D1002	*152-164 Point contact, low capacitance (2 pairs)
D1003	
D1004	
D1005	
D2002	*152-164 Point contact, low capacitance (2 pairs)
D2003	
D2004	
D2005	

ADD:

R1035	311-078	50k	.1w	Var
R1041	316-102	1k	1/4w	
R1045	316-221	220 Ω	1/4w	
R2035	311-078	50k	.1w	Var

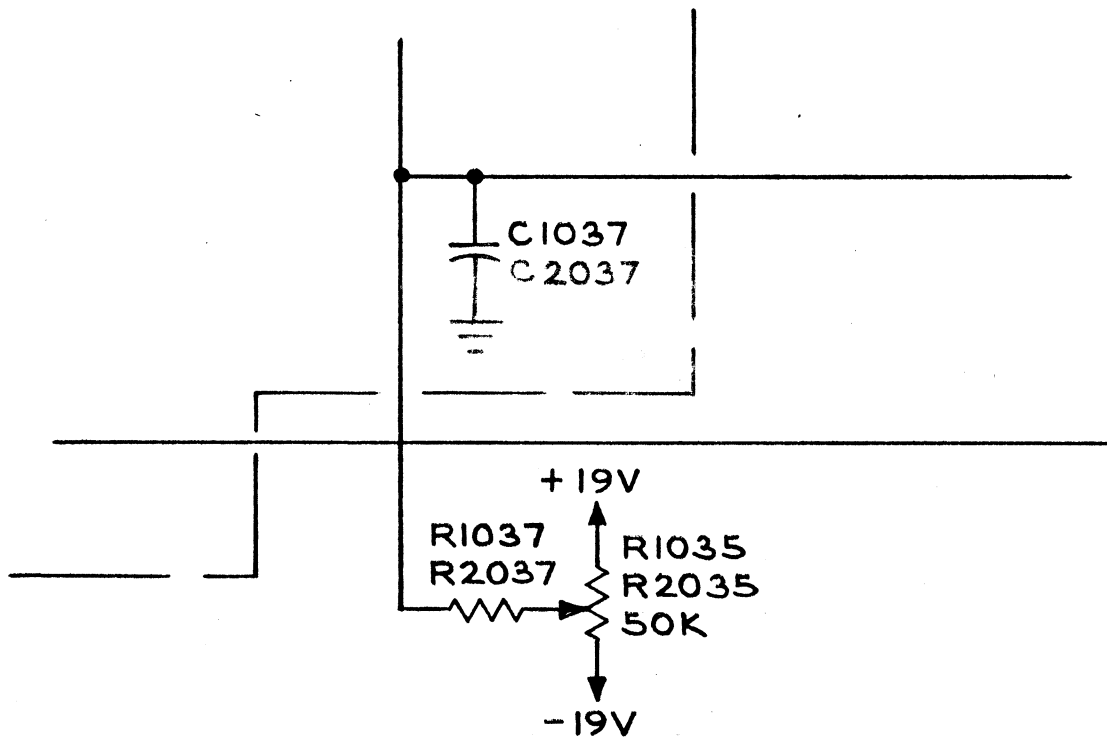
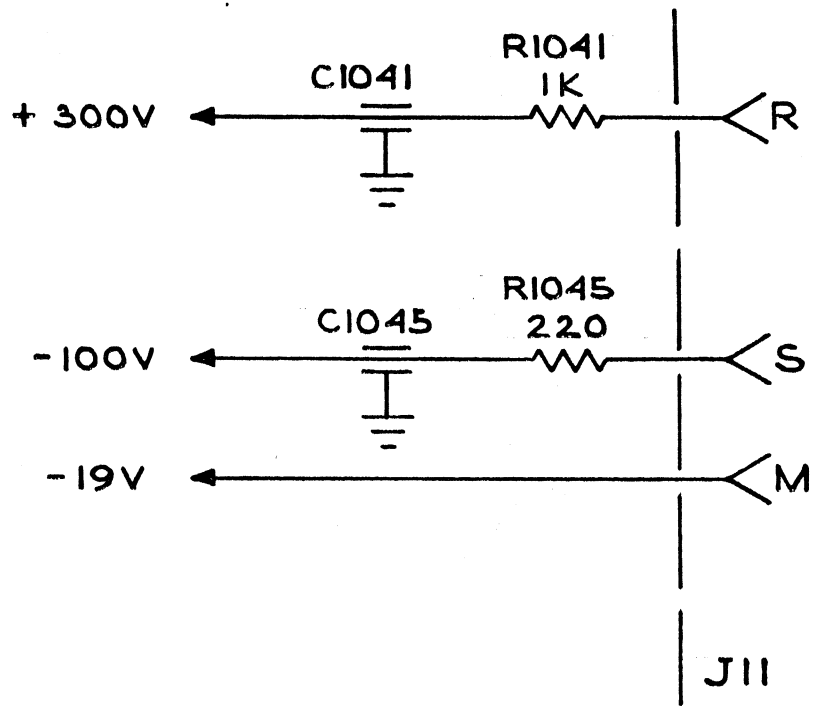
"GATE GENERATOR" Series 6 Model 2

CHANGE TO:

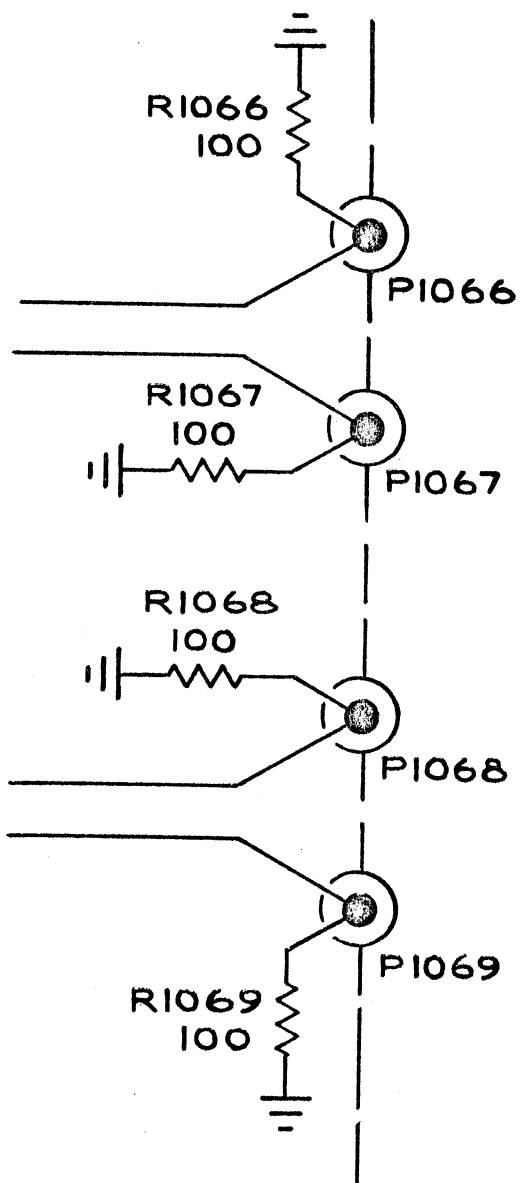
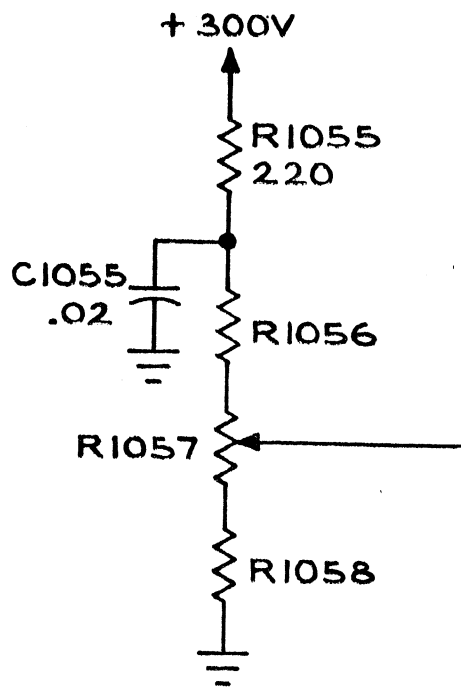
T1067	*120-340	Toroid 5T	TD115
T1069	*120-340	Toroid 5T	TD115

ADD:

C1055	283-006	.02 μ f	Disc Type	500v
R1055	316-221	220 Ω	1/4w	
R1066	321-097	100 Ω	1/8w	Prec 1%
R1067	321-097	100 Ω	1/8w	Prec 1%
R1068	321-097	100 Ω	1/8w	Prec 1%
R1069	321-097	100 Ω	1/8w	Prec 1%



PART. SAMPLER DIAG.



PART. GATE GEN. DIAG

TYPE 4S1, 4S2, 4S3

PARTS LIST CORRECTIONS

CHANGE TO:

R2240	301-102	1k	1/2w	5%	(DUAL TRACE BOARD) 4-up
R2248	301-102	1k	1/2w	5%	(DUAL TRACE BOARD) 4-up
R2250	301-102	1k	1/2w	5%	(DUAL TRACE BOARD) 4-up
R2258	301-102	1k	1/2w	5%	(DUAL TRACE BOARD) 4-up