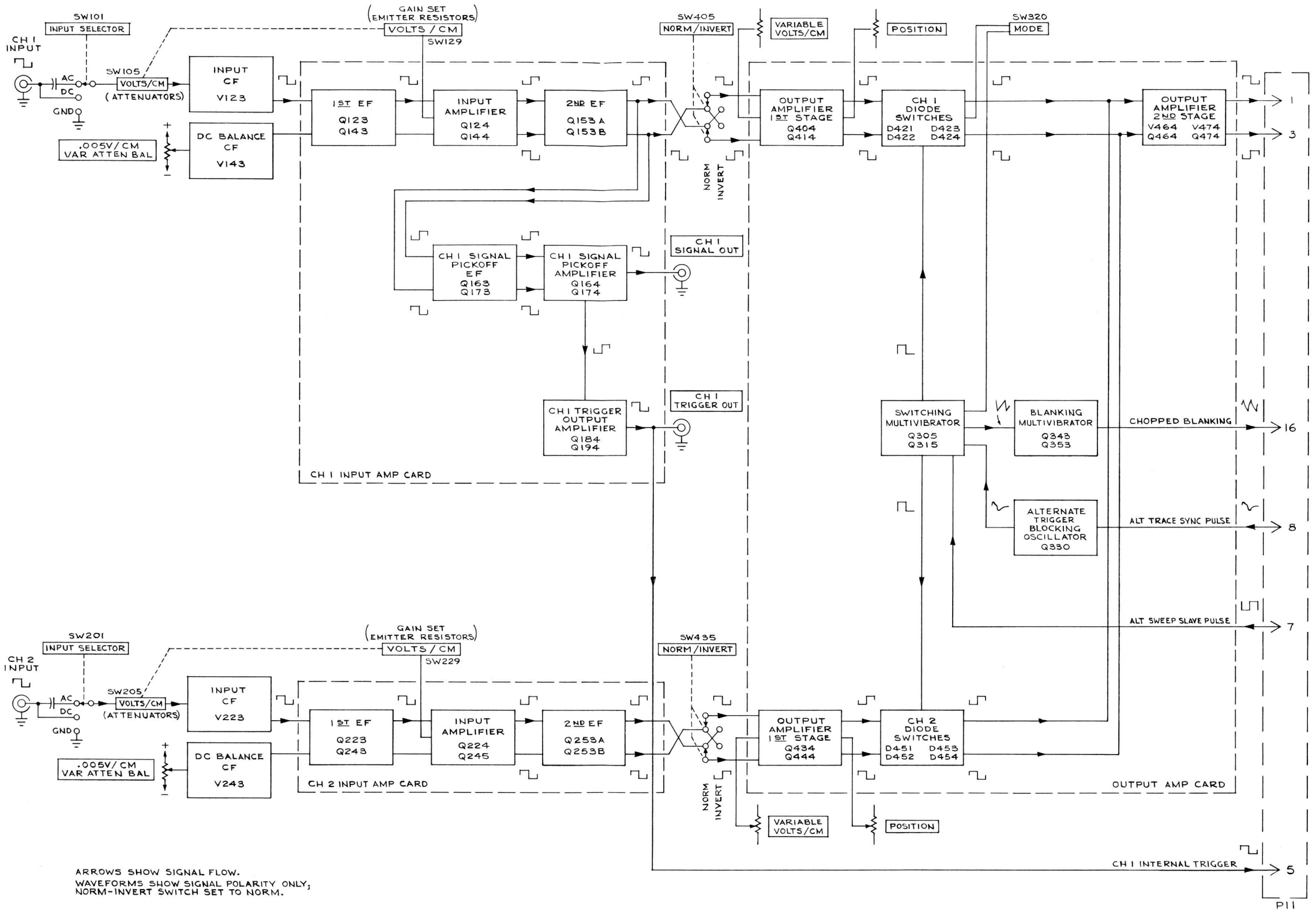
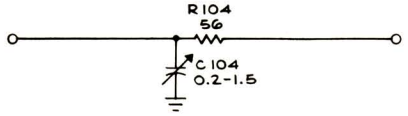


ARROWS SHOW SIGNAL FLOW.
WAVEFORMS SHOW SIGNAL POLARITY ONLY; NORM-INVERT SWITCH SET TO NORM.

X1



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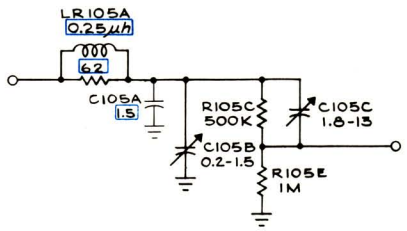

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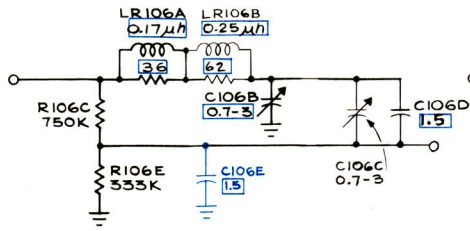

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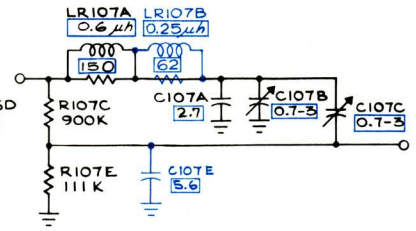

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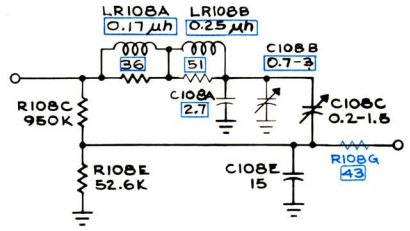

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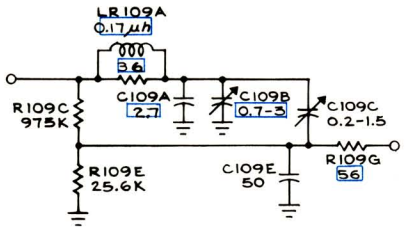

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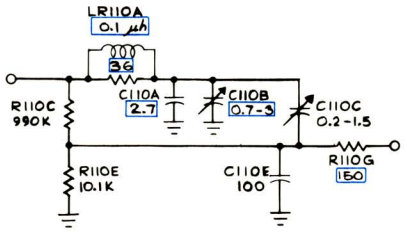

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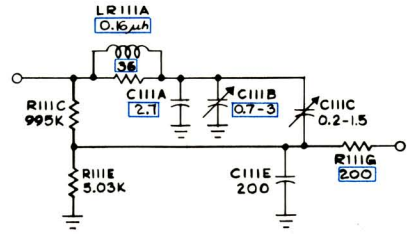

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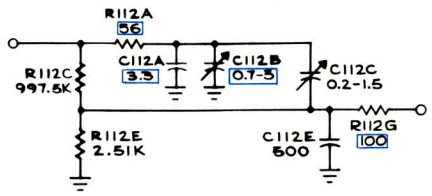
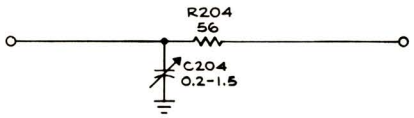


CHANNEL 1

X1



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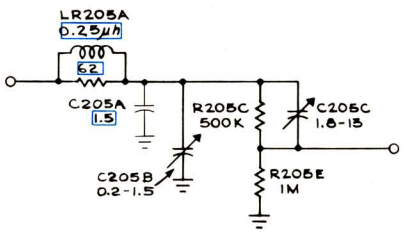

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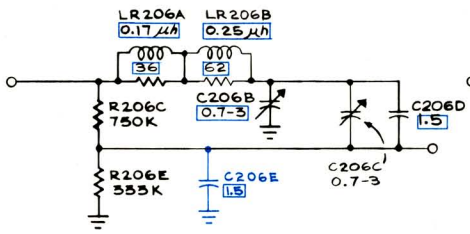

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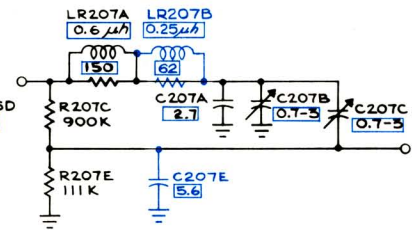

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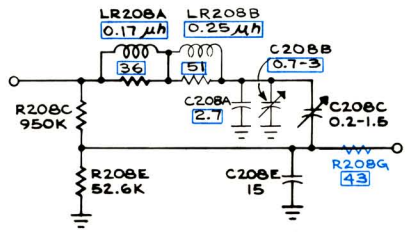

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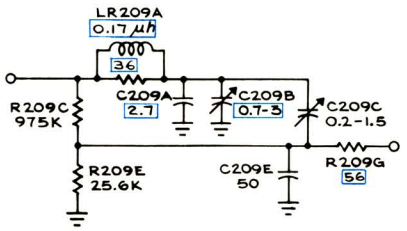

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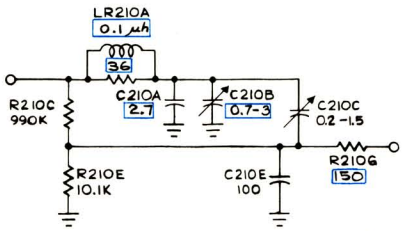

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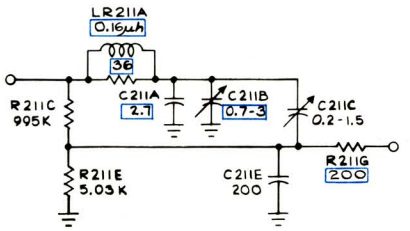

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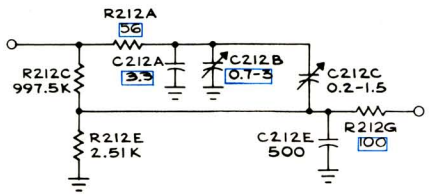


CHANNEL 2

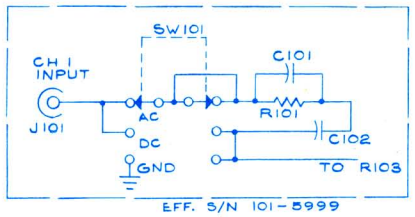
SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS MARKED WITH BLUE OUTLINE.

TYPE 1A1 PLUG-IN

D1

ATTENUATORS ◇1

DON
1165



EFF. S/N 101-5999

SW101 INPUT SELECTOR

SW405 PULL FOR INVERT

NORM

INVERT

INVERT BALANCE

R152 500K

+225V

-150V

R169 10K

R151 560K

R153 2K

R154 1.5K

C152 2-8

Q153A

Q153B

CH 1 SIGNAL THRU SW405 (NORM) TO TERM 13 ◇4

CH 1 SIGNAL OUT

CH 1 TRIGGER OUT

CH 1 INT TRIGGER

P11 ◇4

CH 1 SIGNAL THRU SW405 (NORM) TO TERM 16 ◇4

CH 1 INPUT

J101

C102 0.1

AC

DC

GND

C103 10

R103 56

.005 .01 .02 .05 .1 .2 .5 1 2 5 10 20

X1 X2 X4 X10 X20 X40 X100 X200 X400

R114 27

C119 .0068

R119 470K

B119 NE-23

R116 1M

GRID CURRENT ZERO

R117 100

R118 1M

-150V

CH 2 CARD

R120 4.3K

R122 39K

D121

+100V (DEC)

C121 .001

V123 7586

R121 18K

D122

+5V

R123 9.1K

½T124 2T

Q124

Q123

R124 205

R125 205

R126 560

C125 2-8

R150 51

R127 6.8K

R128B 47

.005 V/CM GAIN

R128A 100

C128 5.5-18

R128C 39

R129C 750

R129B 243

R129A 80

R129E 1.5K

C129E 25

C129F SEL

C129D 9-35

R148 5K

.05V/CM DC BAL

R149 12K

R147 6.8K

R146 620

R145 205

R144 205

Q144

Q143

R143 9.1K

R142 39K

V143 7586

R139 47

R138 2.2K

C138 .01

≈0V

R133 4.7M

R134 470K

R136 1.8M

R130 2X500K

.005 V/CM VAR ATTEN BAL

(FINE)

(COARSE)

+225V

+11V

+39V

+100V (DEC)

SW105 VOLTS/CM

MECHANICALLY COUPLED

SW 129 VOLTS/CM

DECOUPLING

R115 10

C115 .01

+100V (DEC)

R164 49.9

R165 470

C165 .001

R163 6.8K

Q164

Q163

Q173

Q174

R157 3K

R161 680

R166 3.9K

R168 33

R176 3.9K

R173 6.8K

R175 360

C175 .001

R174 220

Q184

Q194

R181 1K

R182 62K

R183 3.3K

C186 .01

R184 30K

R185 100

C185 .01

R186 10K

R191 1K

R193 3.3K

C196 .01

R194 43K

R196 10K

C197 1μf

C198 0.1

+8.4

+0.44

+0.64

+0.12

+1.3

+0.6

+0.2

-0.28

-0.54

+2.9

+2.2

+2.6

+6.5

+5.4

+8.7

+9

+6

+15.4

+4

+5.6

REFERENCE DRAWINGS

◇4 OUTPUT AMPLIFIER

SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS MARKED WITH BLUE OUTLINE.

SEE PARTS LIST FOR SEMICONDUCTOR TYPES

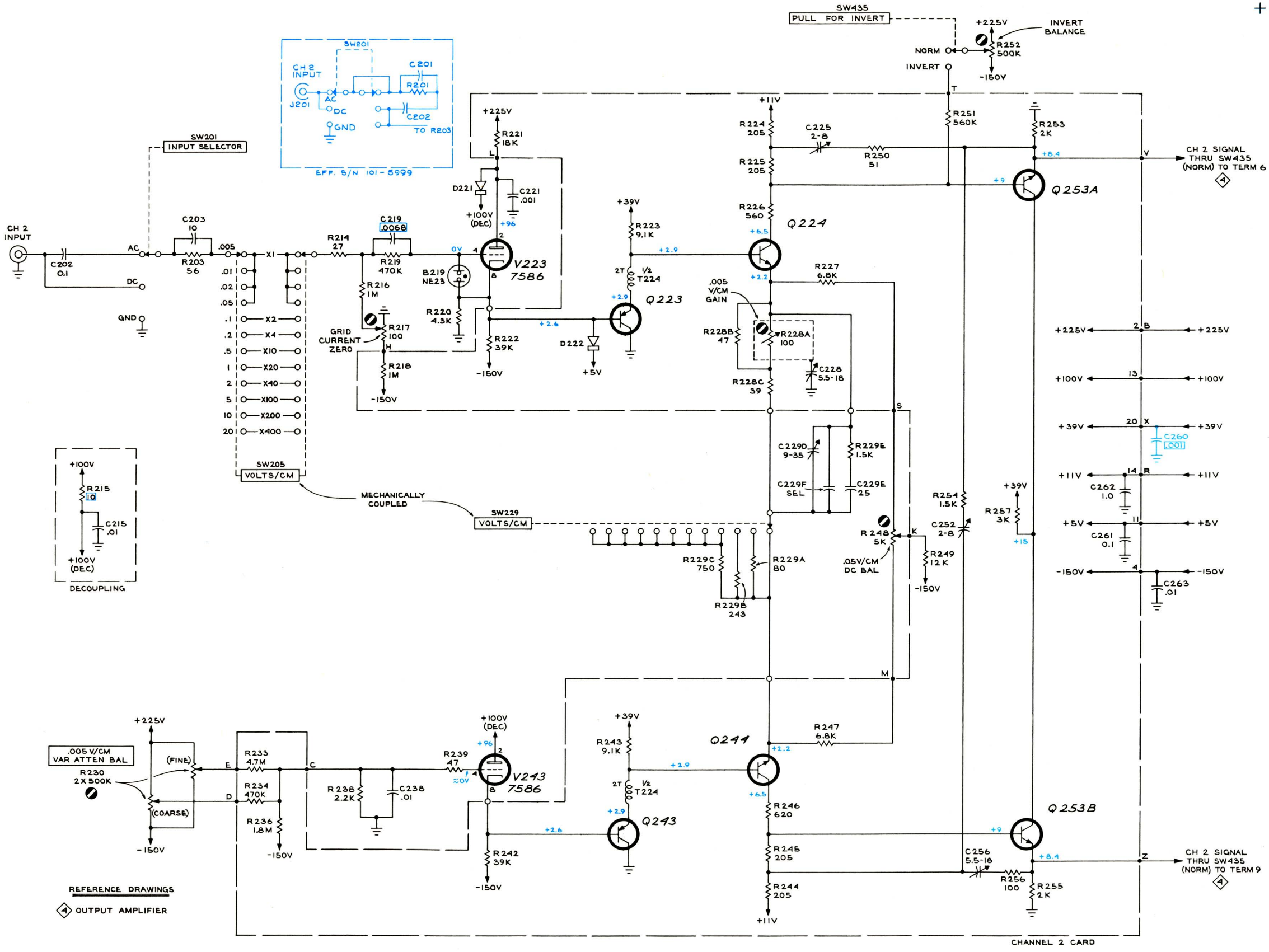
CHANNEL 1 CARD

DON 867

TYPE 1A1 PLUG-IN

D

CHANNEL 1 INPUT AMPLIFIER ◇2



TYPE 1A1 PLUG-IN

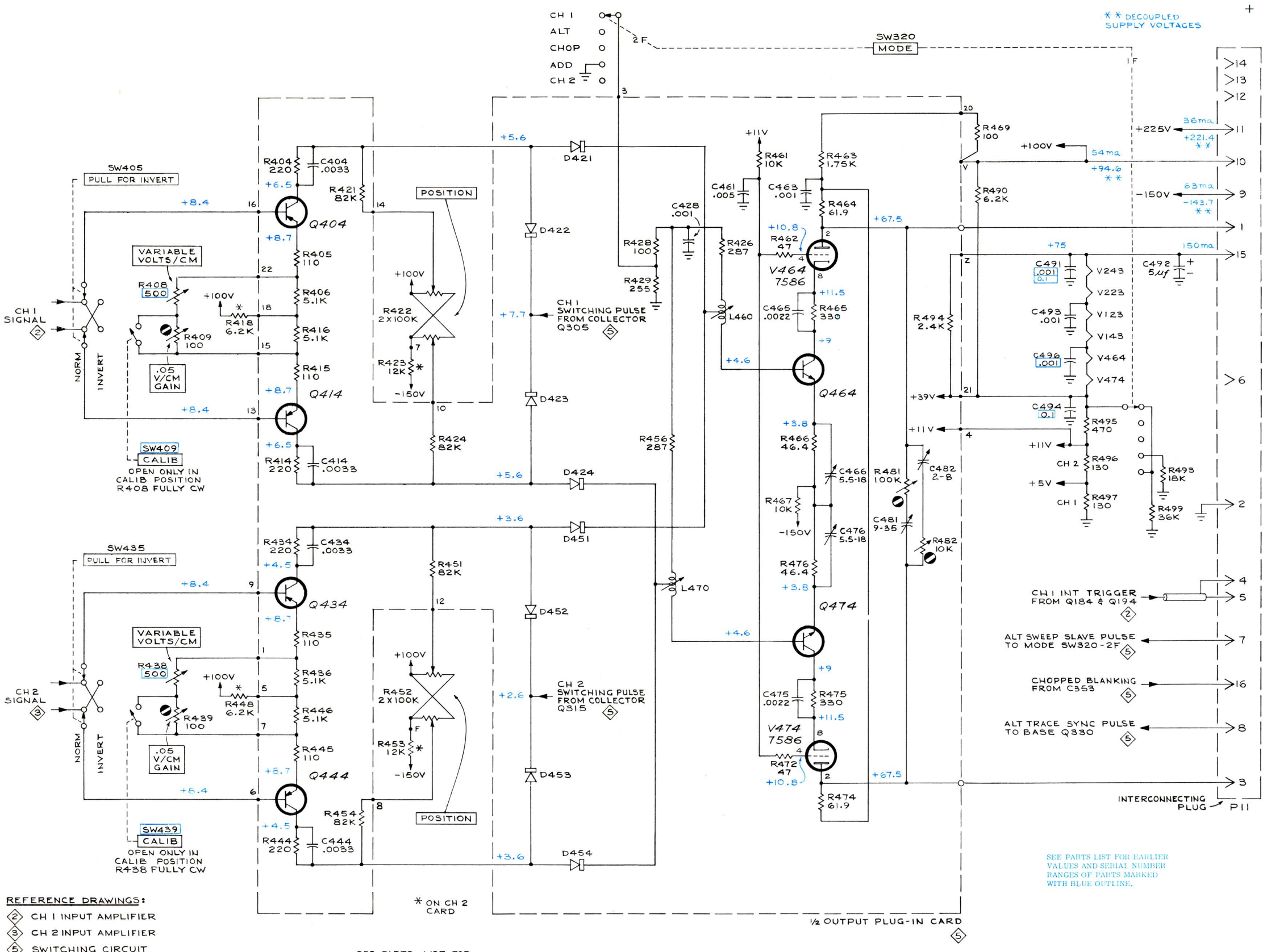
SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS MARKED WITH BLUE OUTLINE.

D 3

SEE PARTS LIST FOR SEMICONDUCTOR TYPES

CMD 1165

CHANNEL 2 INPUT AMPLIFIER 3



REFERENCE DRAWINGS:

2 CH 1 INPUT AMPLIFIER

3 CH 2 INPUT AMPLIFIER

5 SWITCHING CIRCUIT

SEE PARTS LIST FOR SEMICONDUCTOR TYPES

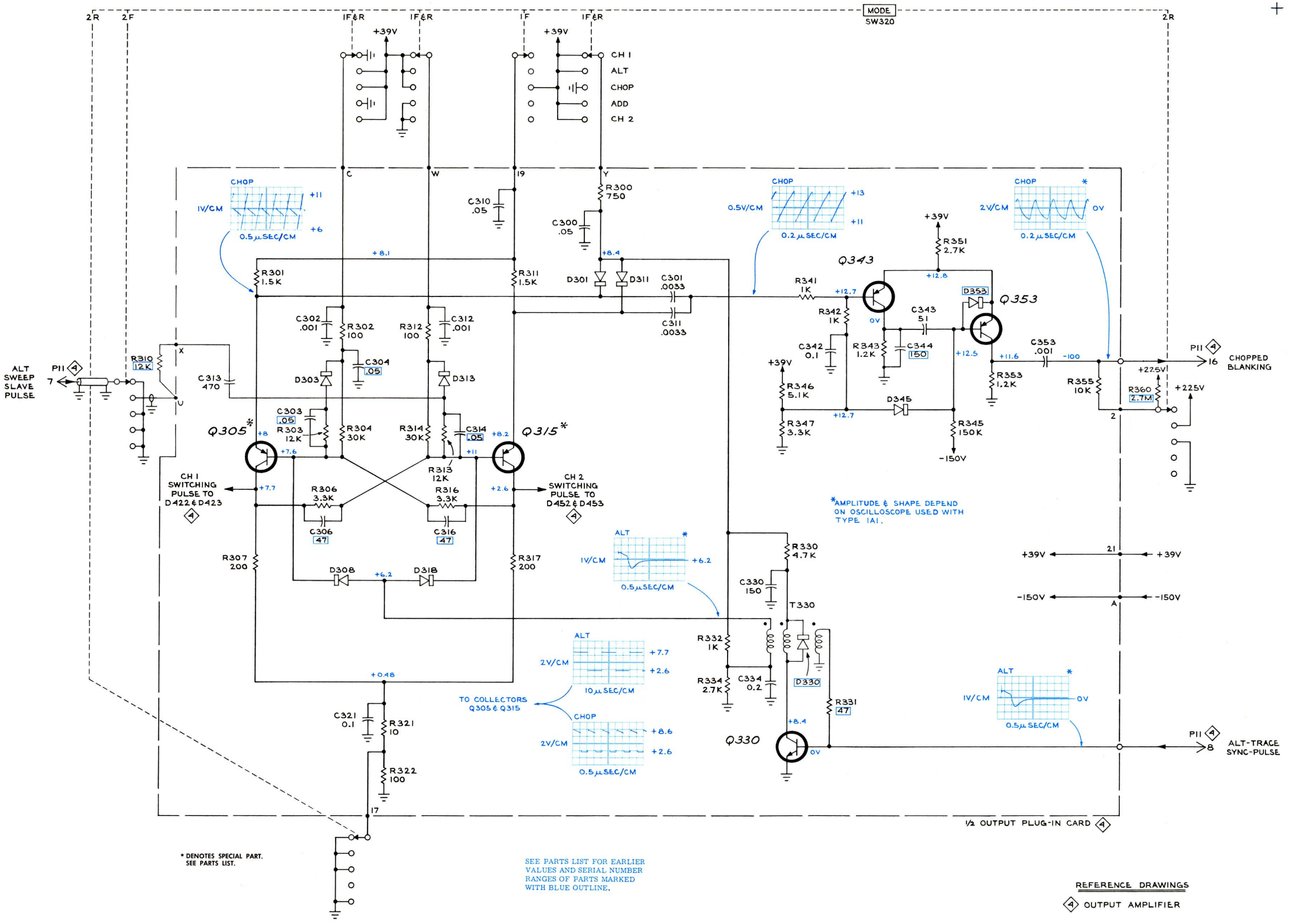
SEE PARTS LIST FOR EARLIER VALUES AND SERIAL NUMBER RANGES OF PARTS MARKED WITH BLUE OUTLINE.

MRH 1266

TYPE 1A1 PLUG-IN

E

OUTPUT AMPLIFIER 4



TYPE 1A1 PLUG-IN

E

CMD 1165

SWITCHING CIRCUIT 5