

**SCHEMATIC DIAGRAM
AND
PARTS LIST**



**35 MHZ TRIGGERED SWEEP
DUAL TRACE OSCILLOSCOPE**

PARTS LIST

**SCHEMATIC
SYMBOL**

DESCRIPTION

**B & K-PRECISION
PART NUMBER**

VERTICAL AMPLIFIER BOARD

RESISTORS

R102,202	1M Ω , 1%, 1/4W Metal Film.....	
R106,107,146,	4.7K Ω , 1%, 1/4W Metal Film.....	
147,167,196,		
206,207,249,		
250,270,272		
R112,113,151,	2.7K Ω , 1%, 1/4W Metal Film.....	
152,212,213,		
254,255		
R115,118,215,	3.6K Ω , 1%, 1/4W Metal Film.....	
218		
R116,150,216,	180 Ω , 1%, 1/4W Metal Film.....	
253		
R119,120,219,	3.9K Ω , 1%, 1/4W Metal Film.....	
220,280		
R124,125,224,	1.5K Ω , 1%, 1/4W Metal Film.....	
225		
R126,226	470 Ω , 1%, 1/4W Metal Film.....	
R128,179	270 Ω , 1%, 1/4W Metal Film.....	
180,228		
R129,229,273	100 Ω , 1%, 1/4W Metal Film.....	
R130,230	1.2 Ω , 5%, 1/4W Carbon.....	
R134,234	130 Ω , 1%, 1/4W Metal Film.....	
R136,137,169,	1K Ω , 1%, 1/4W Metal Film.....	
170,172,173,		
235,236		
R142,143,246,	430 Ω , 1%, 1/4W Metal Film.....	
247		
R156,158,259,	2.2K Ω , 1%, 1/4W Metal Film.....	
260		
R157	330 Ω , 1%, 1/4W Metal Film.....	
R163,266	4.3K Ω , 1%, 1/4W Metal Film.....	
R164,267	910 Ω , 1%, 1/4W Metal Film.....	
R168,197,271	620 Ω , 1%, 1/4W Metal Film.....	
R171,174	820 Ω , 1%, 1/4W Metal Film.....	
R182,183	91 Ω , 1%, 1/4W Metal Film.....	
R261	220 Ω , 1%, 1/4W Metal Film.....	
R281	75 Ω , 1%, 1/4W Metal Film.....	
R282	1.1K Ω , 1%, 1/4W Metal Film.....	
R283,284	4.7 Ω , 5%, 1/4W Carbon.....	

**SCHEMATIC
SYMBOL**

DESCRIPTION

**B & K-PRECISION
PART NUMBER**

INTEGRATED CIRCUITS

IC101	Quad NAND Gate, SN74S00N.....	307-172-9-001
IC102	Quad NOR Gate, SN74S02N.....	307-172-9-002
IC103	Dual J-K Flip-Flop, SN74S112N.....	307-172-9-003

SWITCHES

S101,102	3-Position Lever Switch "AC,GND,DC".....	080-015-9-001
S104	5-Position Lever Switch "MODE".....	080-003-9-002

MISCELLANEOUS

L101,102,103	47 μ H Inductor.....	041-068-9-002
TH101,102	Thermistor, SDT-1000.....	005-003-9-002
	BNC Receptacle "INPUT".....	773-090-9-001

SWEEP BOARD

RESISTORS

R303,373	1M Ω , 1%, 1/2W Metal Film.....	
R314	900K Ω , 1%, 1/2W Metal Film.....	
R315	111K Ω , 1%, 1/2W Metal Film.....	
R317	15K Ω , 5%, 2W Metal Film.....	011-002-5-153
R372	3M Ω , 1%, 1/2W Metal Film.....	
R374	500K Ω , 1%, 1/2W Metal Film.....	
R375	300K Ω , 1%, 1/2W Metal Film.....	
R376,377	100K Ω , 1%, 1/2W Metal Film.....	
R378	47K Ω , 1%, 1/2W Metal Film.....	
R379	18K Ω , 1%, 1/2W Metal Film.....	
R380	9.1K Ω , 1%, 1/2W Metal Film.....	
R384	3.3K Ω , 1%, 1/2W Metal Film.....	
R389	2.4K Ω , 1%, 1/2W Metal Film.....	
R404,407	1.3K Ω , 1%, 1/2W Metal Film.....	
R411	300 Ω , 1%, 1/2W Metal Film.....	
R415,416	4.7K Ω , 5%, 3W Metal Film.....	011-003-5-472
VR301/5302	10K Ω Potentiometer with Push-Pull Switch "TRIG LEVEL".....	008-374-9-011
VR302	2.2M Ω Potentiometer.....	008-298-9-014
VR303/5306	5K Ω Potentiometer with Switch "VARIABLE".....	008-374-9-012
VR304	2.2K Ω Potentiometer.....	008-373-9-007
VR305,313	4.7K Ω Potentiometer.....	008-298-9-009
311	22K Ω Potentiometer.....	008-373-9-008
VR309	680 Ω Potentiometer.....	008-373-9-005
VR310	100 Ω Potentiometer.....	008-298-9-001
VR312	10K Ω Potentiometer.....	008-298-9-010
VR321	150 Ω Potentiometer.....	008-376-9-001

CAPACITORS

C301,304,315	0.01 μ F, 10%, 50V Mylar.....	
C302,303	100pF, 5%, 100V Mica.....	
C307,316	2pF, \pm 0.25pF, 50V Ceramic.....	
C308,311,312,	1 μ F, \pm 20%, 50V Electrolytic.....	
317,320,380		
C309,310,318,	0.01 μ F, 20%, 50V Ceramic.....	
319,340,343,		
344,349,357,		
358,363,374,		
375-379		
C314	33pF, 5%, 50V Ceramic.....	

R301,305 2000, 1% 1/4W Metal Film 008-374-9-007
R308 2400, 1% 1/4W Metal Film 008-374-9-007
VR101,108 4700, Potentiometer 008-374-9-007
VR102,109 Part of ATT101, 102 008-374-9-006
VR103,110 10000 Potentiometer 008-298-9-001
VR104,111,112 10000 Potentiometer 008-374-9-004
VR105 1K0 Potentiometer 008-341-9-010
VR106 4700 Potentiometer 008-382-9-001
VR107,115,116 2200 Potentiometer 008-374-9-005
VR113/S103 1K0 Potentiometer with Switch "CH B POSITION/
PULL INVERT" 008-374-9-008
VR118,119 1.5K0 Potentiometer 008-298-9-013
VR114 100K0 Potentiometer 008-374-9-009
1500 Potentiometer

CAPACITORS

C101,119 0.047uF, 630V Metal Film
C103,113,114, 118,121,134, 143,145,147, 148,149 }
C104,109,112, 115,117,122, 127,128,131, 135,136,144, 146,159,160, 163,164,167 }
C106 }
C107,108,125, 126,137,141, 142. }
C111,130 47pF, 5% 50V Ceramic
C124,138 15pF, 5% 50V Ceramic
C132,133 6800pF, 5% 50V Mylar
C150 39pF, ±0.25pF, 50V Ceramic
C152,174,175 5pF, ±0.25pF, 50V Ceramic
C154 220uF, 10V Electrolytic
C156 0.1uF, 12V Ceramic
C157 68pF, 5% 50V Ceramic
C169,170 180pF, 5% 50V Ceramic
C171,172 10pF, ±1pF, 50V Ceramic
C173 2pF, ±0.25pF, 50V Ceramic
C176,177 35pF, 5% 50V Ceramic
C110,129 150pF, 5% 50V Ceramic
TC113,114,118, 119 }
TC117 20pF Trimmer 028-050-9-002
10pF Trimmer 028-050-9-003

TRANSISTORS AND DIODES

D101,105 3V Zener Diode, YZ030 152-099-9-002
D102,106,109- }
D103,104,107, }
D108 } Small Signal Silicon Diode, 1S1587 151-048-9-001
D112 Small Signal Germanium Diode, IN60 150-001-9-005
D125,126 Small Signal Silicon Diode, 1S1544A 151-096-9-001
Q101,121 Dual N-Channel FET, 2SK228-1-2 or 1-3 182-059-9-001
Q103,104,107- }
Q120,123,124, 127-138,140, 141,147 }
Q105,106,125, }
Q126,148,149 }
Q139,142,144, }
Q146 }
Q145 PNP Small Signal Silicon Transistor, 2SC1047-C 176-075-9-001
PNP Small Signal Silicon Transistor, 2SA838-C 177-036-9-001
PNP Small Silicon Transistor, 2SA733-Q 177-018-9-001
PNP Silicon Power Transistor, 2SA755 173-007-9-001
LED with Wire, "UNCAL" Indicator 400-069-9-001

C321 3.3uF, 50V Electrolytic
C322 47pF, 5%, 100V Mica
C323 3300pF, 5%, 50V Mylar
C324 220pF, 5%, 100V Mica
C325,338,345 }
C346 } 100uF, 16V Electrolytic
C326 47pF, 5% 50V Ceramic
C328 0.47uF, 100V Film
C329 0.0047uF, 100V Film
C330 33pF, 5%, 100V Mica
C331 0.47uF, 5%, 50V Mylar
C332 4700pF, 5%, 50V Mylar
C333 330pF, 20%, 50V Ceramic
C334 68pF, 5% 50V Ceramic
C335,367 5pF, ±0.5pF, 50V Ceramic
C336 39pF, 5%, 100V Mica
C337 47pF, 5% 50V Ceramic
C339,381 470pF, 5%, 50V Ceramic
C341,342 220uF, 10V Electrolytic
C347 10uF, 160V Electrolytic
C348 220pF, 5% 50V Ceramic
C351,352,354 0.1uF, 12V Ceramic
C355,356,359 }
C361 }
C368,373 }
C372 }
TC302 }
D301,313,317, }
D319,322,325- }
D318,323,325 }
D331 }
Q301,318,323 }
Q302 }
Q303,304,321, }
Q328,341,343, }
Q344 }
Q305,307,325, }
Q335 }
Q306,309,315 }
Q317,319,320, }
Q322,324,326, }
Q327,329,332 }
Q308 }
Q316,342 }
Q333,334 }

3.3uF, 50V Electrolytic
47pF, 5%, 100V Mica
3300pF, 5%, 50V Mylar
220pF, 5%, 100V Mica
100uF, 16V Electrolytic
47pF, 5% 50V Ceramic
0.47uF, 100V Film
0.0047uF, 100V Film
33pF, 5%, 100V Mica
0.47uF, 5%, 50V Mylar
4700pF, 5%, 50V Mylar
330pF, 20%, 50V Ceramic
68pF, 5% 50V Ceramic
5pF, ±0.5pF, 50V Ceramic
39pF, 5%, 100V Mica
47pF, 5% 50V Ceramic
470pF, 5%, 50V Ceramic
220uF, 10V Electrolytic
10uF, 160V Electrolytic
220pF, 5% 50V Ceramic
0.1uF, 12V Ceramic
47uF, 10V Electrolytic
0.001uF, 10%, 50V Ceramic
10pF, ±0.5pF, 50V Ceramic
10pF Trimmer 028-050-9-003

TRANSISTORS AND DIODES

Small Signal Silicon Diode, 1S1555 151-028-9-007
Small Signal Silicon Diode, 1S1587 151-048-9-001
7, 1V Zener Diode, WZ071 152-075-9-001
N-Channel FET, 2SK30A-0 182-026-9-001
Dual N-Channel FET, 2SK228-1-2 or 1-3 182-059-9-001
NPN Small Signal Silicon Transistor, 2SC1047-C 176-099-9-001
PNP Small Signal Silicon Transistor, 2SA733-Q 177-018-9-001
NPN Small Signal Silicon Transistor, 2SC945-D 176-113-9-001
N-Channel FET, 2SK30A-GR 182-014-9-002
PNP Small Silicon Transistor, 2SA838-C 177-036-9-001
NPN Silicon Power Transistor, 2SC1953-R 176-086-9-002

INTEGRATED CIRCUITS

IC301 Linear IC, NE529N 307-172-9-004
IC302,303,304 Quad NAND Gate, SN74S00N 307-172-9-001
IC305 Quad NOR Gate, SN74S02N 307-172-9-002
IC306 Dual J-K Flip-Flop, SN74S112N 307-172-9-003

SWITCHES

S301 21-Position Rotary "SWEEP TIME/DIV" 083-258-9-001
S302 Part of VR 301
S303 4-Position Lever Switch "TRIGGERING MODE" 080-004-9-002
S304 5-Position Lever Switch "COUPLING" 080-003-9-002
S305 5-Position Lever Switch "SOURCE" 080-014-9-001
S306 Part of VR 303

SCHEMATIC SYMBOL

DESCRIPTION

B & K-PRECISION PART NUMBER

L301	47uH Inductor.....	041-068-9-002
L302	330uH Inductor.....	041-113-9-001
L303,304	150uH Inductor.....	041-082-9-003
L305,306,308	470uH Inductor.....	041-071-9-001

MISCELLANEOUS

LOW VOLTAGE POWER SUPPLY BOARD

RESISTORS

R505	100, 5% 1/2W Carbon.....	
R508	130K Ω , 1%, 1/4W Metal Film.....	
R509,512,517,518	12K Ω , 1%, 1/4W Metal Film.....	
R511	5.1K Ω , 1%, 1/4W Metal Film.....	
R515	11K Ω , 1%, 1/4W Metal Film.....	
VR501	2.2K Ω Potentiometer.....	008-373-9-007

CAPACITORS

C501	220uF, 250V Electrolytic.....	
C502	4.7uF, 250V Electrolytic.....	
C503	10uF, 160V Electrolytic.....	
C504	4700uF, 16V Electrolytic.....	
C505	330uF, 10V Electrolytic.....	
C506,509	2200uF, 25V Electrolytic.....	
C507	10uF, 25V Electrolytic.....	
C508,510	220uF, 16V Electrolytic.....	
C511	0.1uF, 12V Ceramic.....	

TRANSISTORS AND DIODES

D501	Silicon Bridge Rectifier, S1BQ60.....	157-006-9-001
D502,505,507,508,509	Small Signal Silicon Diode, 1S1555.....	151-028-9-007
D503,504	Silicon Bridge Rectifier, S2V840.....	157-011-9-001
D506	12V Zener Diode, WZ-120.....	152-110-9-001
Q501,502	NPN Silicon Power Transistor, 2SC1505.....	172-053-9-001
Q503	NPN Small Signal Silicon Transistor, 2SC945-P.....	176-055-9-002
Q504,507	PNP Silicon Power Transistor, 2SA913.....	173-006-9-001
Q505,506	NPN Silicon Power Transistor, 2SC1913-Q or R.....	172-054-9-001
Q508	PNP Small Signal Silicon Transistor, 2SA684.....	177-046-9-001
Q509	NPN Small Signal Silicon Transistor, 2SC1384.....	176-109-9-001

INTEGRATED CIRCUITS

IC501,502	Dual OP-Amp, NIM4558D.....	307-139-9-004
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HIGH VOLTAGE POWER SUPPLY BOARD

RESISTORS

R601	100K Ω , 1%, 1/4W Metal Film.....	
R609	47M Ω , 1/2W, P Metal Film.....	
R610	2.7M Ω , 1/2W, P Metal Film.....	
R611	8.2M Ω , 1W, P Metal Film.....	004-171-9-001
R629	22K Ω , 5%, 2W Metal Film.....	011-002-5-223
VR601	33K Ω Potentiometer.....	008-341-9-008
VR602	68K Ω Potentiometer.....	008-374-9-014

SCHEMATIC SYMBOL

DESCRIPTION

B & K-PRECISION PART NUMBER

C703,704,713	0.01uF, 20%, 50V Ceramic.....	028-050-9-002
714,723,724		
C705	10pF, $\pm 0.5pF$, 50V Ceramic.....	
C706	20pF, 5%, 50V Ceramic.....	
C707-710	1pF, $\pm 0.25pF$, 500V Ceramic.....	
C711,712	0.001uF, 20%, 500V Ceramic.....	
C715,716,717	0.01uF, 20%, 500V Ceramic.....	
C718	10uF, 160V Electrolytic.....	
C719	22pF, 5%, 50V Ceramic.....	
C725	100uF, 10V Electrolytic.....	
C726	5pF, $\pm 0.25pF$, 50V Ceramic.....	
TC702,704	20pF, Ceramic Trimmer.....	

CAPACITORS

TRANSISTORS AND DIODES

D701,702	Small Signal Silicon Diode, 1S1555.....	151-028-9-007
D703	6.1V Zener Diode, WZ061.....	152-070-9-002
Q701,702,703	NPN Small Signal Silicon Transistor, 2SC1047-C.....	176-075-9-001
704		
Q705,706	NPN Small Signal Silicon Transistor, 2SC2407.....	176-099-9-003
Q707,708	NPN Small Signal Silicon Transistor, 2SC805A-2(2).....	176-098-9-002
Q709,710	PNP Small Signal Silicon Transistor, 2SA923-2(2).....	177-041-9-001
Q711,712	NPN Silicon Power Transistor, 2SC1973-T.....	176-099-9-002

CHASSIS ASSEMBLY

RESISTORS

VR2	1K Ω potentiometer "INTENSITY".....	008-373-9-001
VR3	10K Ω Potentiometer "TRACE ROTATION".....	008-267-9-003
VR4/S3	500 Ω Potentiometer with Push-Pull Switch "◀▶ POSITION".....	
VR5	PULL 5X MAG.....	008-374-9-001
VR6	10K Ω Potentiometer "HOLD OFF".....	008-374-9-003
VR7	3M Ω Potentiometer "FOCUS".....	008-235-9-001
	250K Ω Potentiometer "ASTIG".....	008-374-9-002

DIODES

LED "POWER" and "READY/TRIG'D".....	400-072-9-001
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TRANSFORMERS AND SWITCHES

Rotary Switch "POWER".....	083-268-9-001
Pushbutton Switch "CHOP-NORM"/"RESET".....	088-056-9-001
Power Transformer.....	065-153-9-001

CAPACITORS

C601	1 μ F, 10%, 50V Metallized Polyester	151-028-9-007
C602	0.01 μ F, 10%, 50V Mylar	151-048-9-003
C603,604	470 μ F, 50V Electrolytic	151-084-9-001
C605,606	0.01 μ F, 5%, 2KV Metallized Polypropylene	152-070-9-002
C607,608	0.01 μ F, +100, -0, 2KV Ceramic	057-011-9-002
C609	0.001 μ F, +100, -0, 2KV Ceramic	176-113-9-001
C610	1 μ F, 250V Electrolytic	177-018-9-001
C612	2pF, \pm 0.25pF, 500V Ceramic	172-057-9-001
C613	100pF, 5%, 500V Ceramic	172-053-9-001
C614,616	0.01 μ F, 20%, 50V Ceramic	176-075-9-001
C615	220 μ F, 10V Electrolytic	176-073-9-003
C617,618,619,621	0.01 μ F, 20%, 500V Ceramic	176-086-9-002
C620	10 μ F, 160V Electrolytic	177-036-9-002
C622	10pF, 0.5pF, 500V Ceramic	
TC501	20pF Ceramic Trimmer	

TRANSISTORS AND DIODES

D601,504,610,613,614	Small Signal Silicon Diode, 1S1555	151-028-9-007
D605	High Voltage Commutation Diode, Y161A	151-048-9-003
D606,607,617,618	Small Signal Commutation Diode, W06C	151-052-9-002
D608,609	High Voltage Switching Diode, 1SS83	151-084-9-001
D611,612	Small Signal Silicon Diode, 1S1587	151-048-9-001
D615	6.1V Zener Diode, WZ061	152-070-9-002
D616	High Voltage Rectifier Block	057-011-9-002
Q601,602	NPN Small Signal Silicon Transistor, 2SC945-D	176-113-9-001
Q603	PNP Small Signal Silicon Transistor, 2SA733-Q	177-018-9-001
Q604	NPN Silicon Power Transistor, 2SD401A-K	172-057-9-001
Q605	NPN Small Signal Silicon Transistor, 2SC983-Y	176-053-9-002
Q606	NPN Silicon Power Transistor, 2SC1505	172-053-9-001
Q607	NPN Small Signal Silicon Transistor, 2SC1047-C	176-075-9-001
Q608,613	NPN Small Signal Silicon Transistor, 2SC1973	176-073-9-003
Q609,611	NPN Silicon Power Transistor, 2SC1953-R	176-086-9-002
Q610,612	NPN Small Signal Silicon Transistor, 2SA914-R	177-036-9-002

MISCELLANEOUS

L601	1mH Inductor	041-117-9-004
NR601,602	Neon Bulb, NE-2	401-018-9-001
T601	Transformer, DC-DC Converter	064-023-9-001

VERTICAL OUTPUT AMPLIFIER BOARD

RESISTORS

R701	180 Ω , 1%, 1/4W Metal Film	011-002-5-223
R730	22K Ω , 5%, 2W Metal Film	008-155-9-001
VR701	100K Ω Potentiometer	008-298-9-009
VR702	4.7K Ω Potentiometer	008-341-9-010
VR704	470 Ω Potentiometer	008-341-9-010

MISCELLANEOUS

CRT, 140CGB31	230-020-9-001
Delay Line	040-001-9-001
0.8A Fuse (120V AC), Fast-Blow	191-013-9-001
0.5A Fuse (240V AC), Fast-Blow	191-251-3-102
Fuseholder	742-029-9-001
Bezel Assembly	380-406-9-001
Blue Filter for CRT	380-364-9-003
Rubber Foot (4 used)	381-090-9-002
Foot/Cord Wrap (4 used)	380-338-9-006
Knob, "VOLTS/DIV" and "SWEEP TIME/DIV"	751-187-9-001
Knob, SWEEP TIME "VARIABLE"	751-186-9-003
Knob, "FOCUS", "INTENSITY", etc (8 used)	751-186-9-002
Knob, "MODE", "SOURCE", etc (6 used)	751-186-9-004
Knob, Pushbutton	751-187-9-002
BNC Receptacle "EXT TRIG" and "ZAXIS INPUT"	773-090-9-001

Where B & K-Precision part number does not appear after part description, part should be available from local parts supplier.

NOTE: Standard value resistors are not listed. Values may be obtained from schematic diagram. Minimum charge \$5.00 per invoice. Orders will be shipped C.O.D. unless previous open account arrangements have been made or remittance accompanies order. Advance remittance must cover postage or express charges. Specify serial number when ordering replacement parts.

BK PRECISION **DYNASCAN CORPORATION**

6460 West Cortland Street • Chicago, Illinois 60635

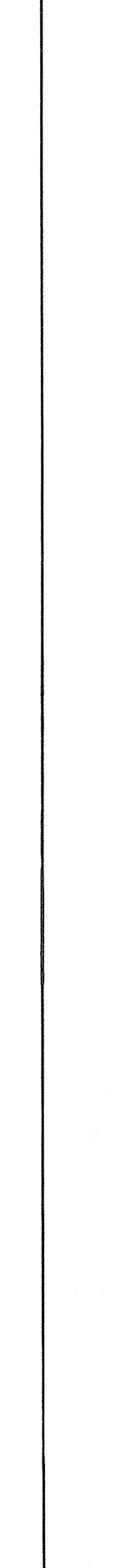
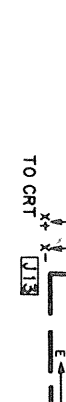
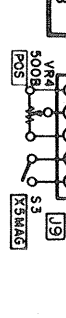
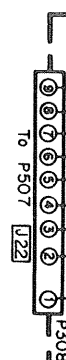
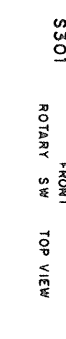
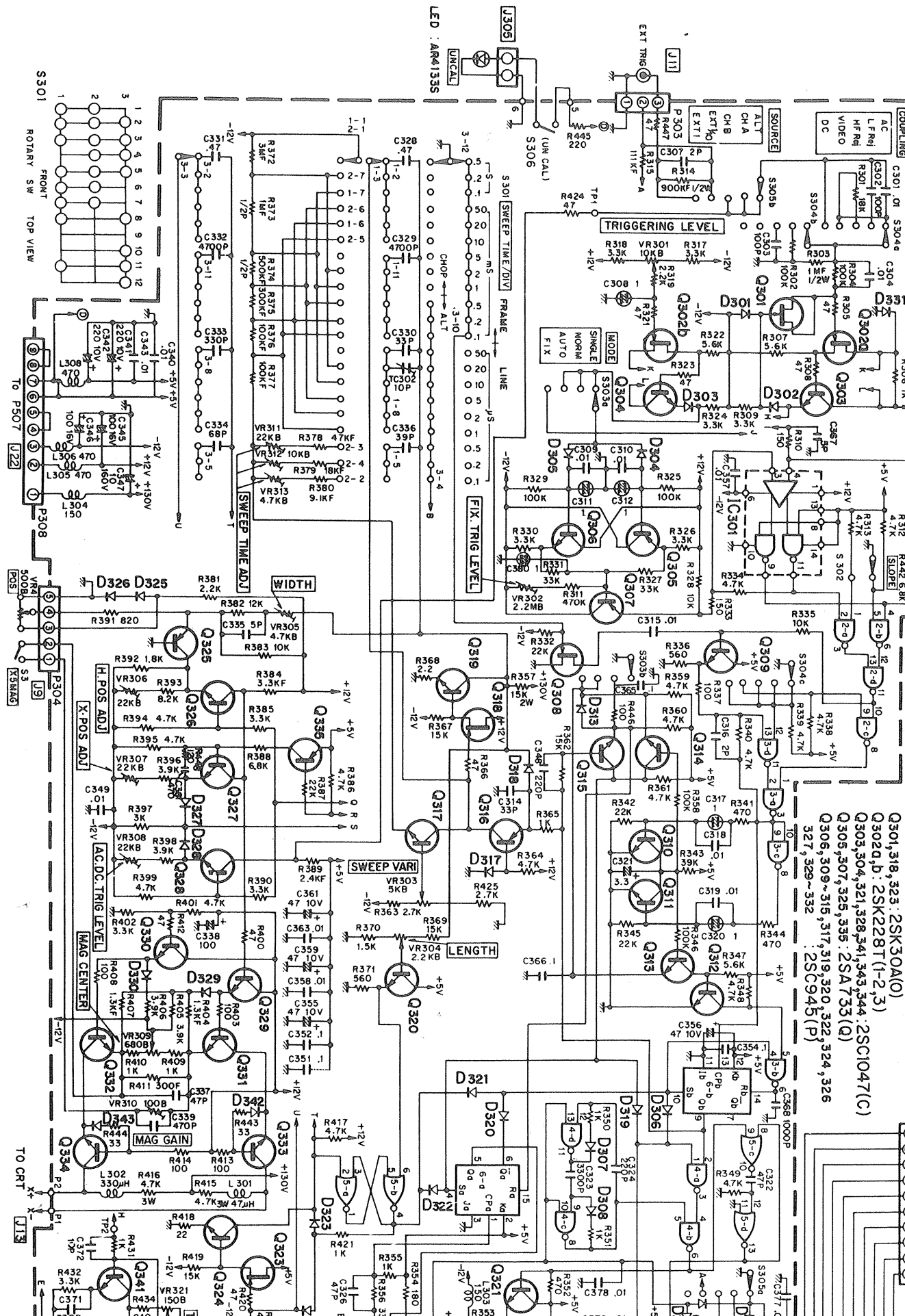
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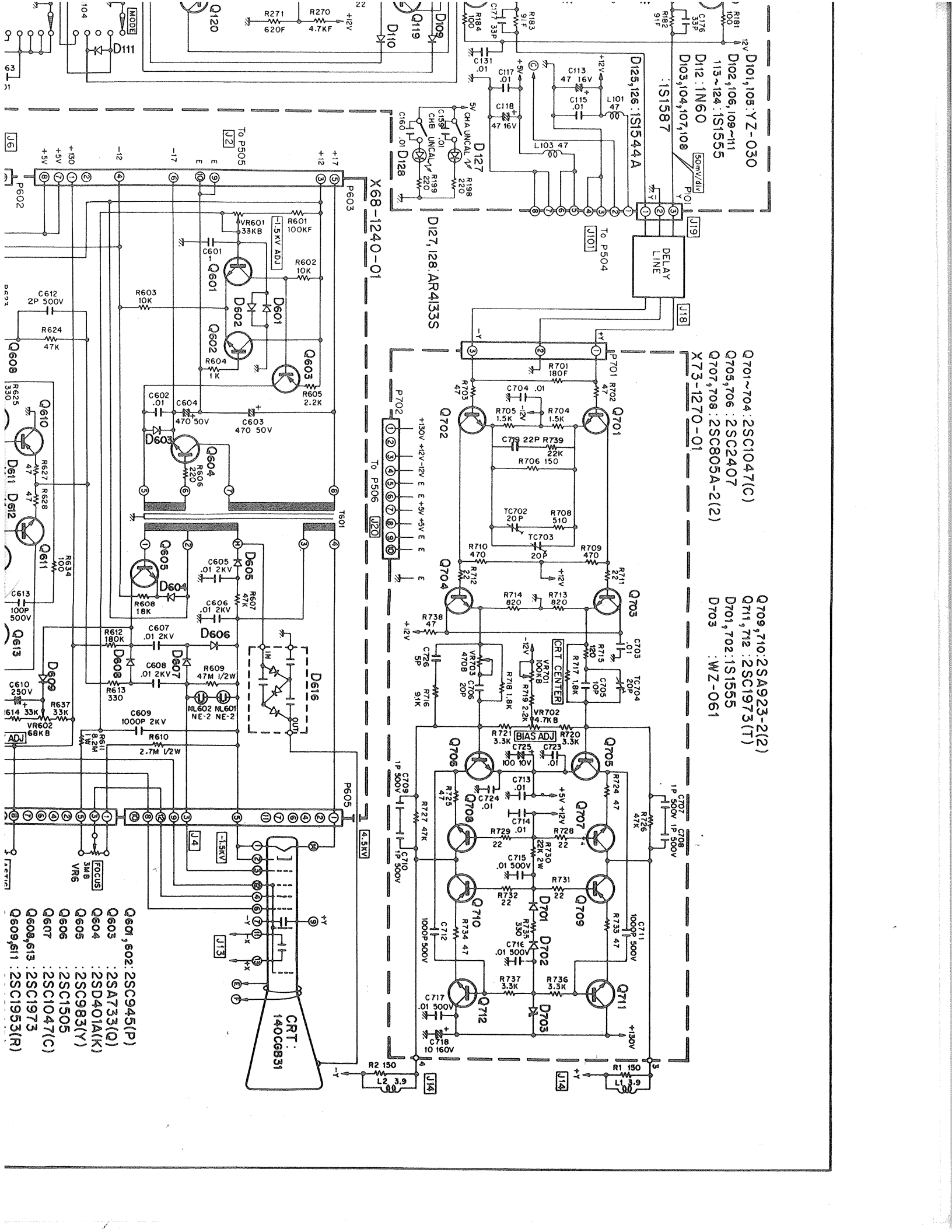
IC301 : NE529N
IC302-304 : SN74SOON

IC305 : SN74SO2N
IC306 : SN74S112N

IC307 : SN74S112N
IC308 : SN74S112N
IC309 : SN74S112N
IC310 : SN74S112N
IC311 : SN74S112N
IC312 : SN74S112N
IC313 : SN74S112N
IC314 : SN74S112N
IC315 : SN74S112N
IC316 : SN74S112N
IC317 : SN74S112N
IC318 : SN74S112N
IC319 : SN74S112N
IC320 : SN74S112N
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IC336 : SN74S112N
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IC338 : SN74S112N
IC339 : SN74S112N
IC340 : SN74S112N
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Q301, 318, 323 : 2SK30A(O)
Q302a,b : 2SK228T(1-2,3)
Q303,304,321,328,341,343,344 : 2SC1047(C)
Q305,307,325,335 : 2SA733(Q)
Q306,309~315,317,319,320,322,324,326
327,329~332 : 2SC945(P)



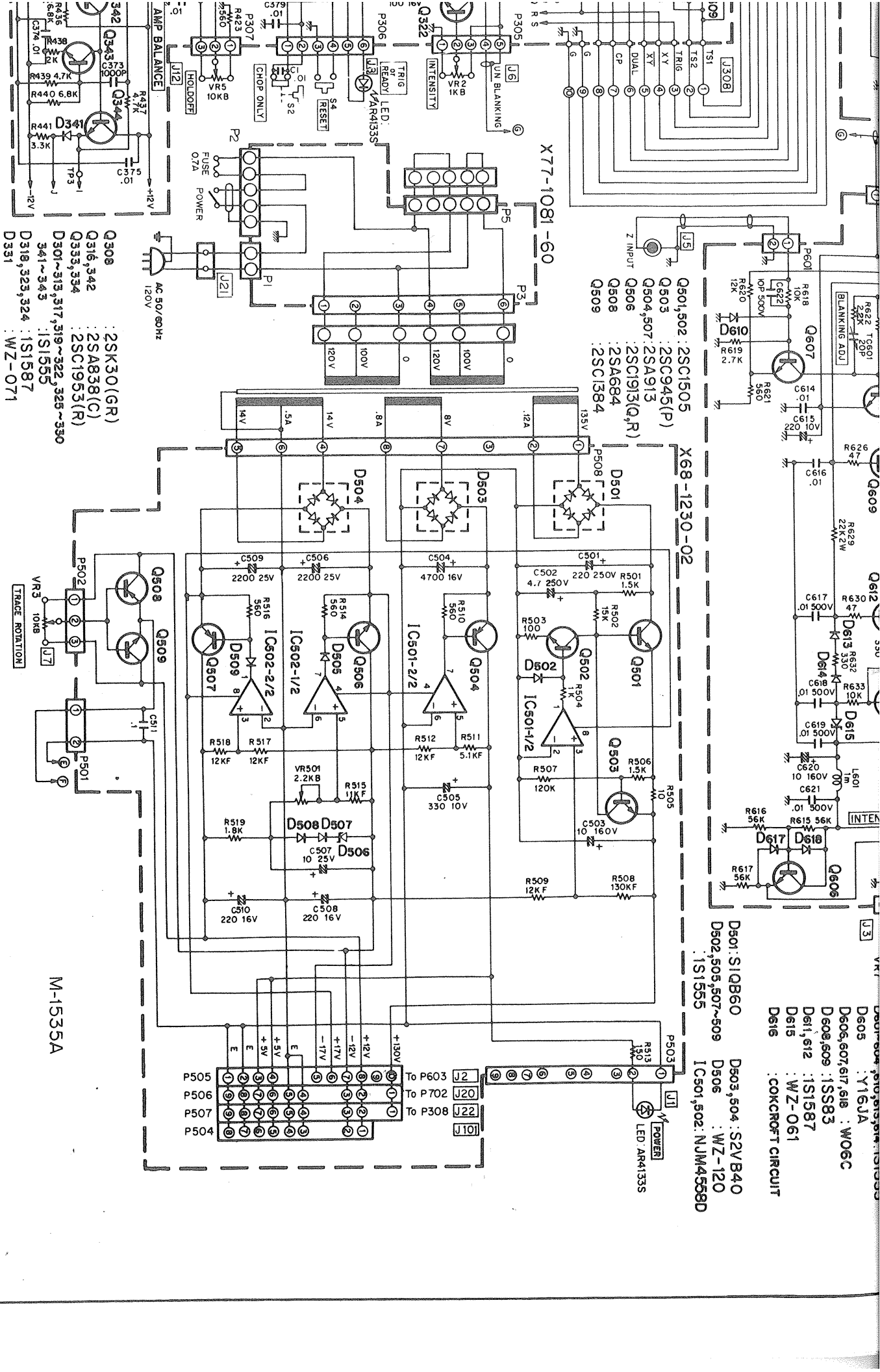


- D101, 106: Y-Z-030
- D102, 106, 109~111 : S1555
- 113~124: S1555
- D112: 1N60
- D103, 104, 107, 108 : S15587

- Q701~704: 2SC1047(C)
- Q705, 706: 2SC2407
- Q707, 708: 2SC805A-2(2)
- X73-1270-01

- Q709, 710: 2SA923-2(2)
- Q711, 712: 2SC1973(T)
- D701, 702: S1555
- D703 : WZ-061

- Q601, 602: 2SC945(P)
- Q603 : 2SA733(Q)
- Q604 : 2SD401A(K)
- Q605 : 2SC983(Y)
- Q606 : 2SC1505
- Q607 : 2SC1047(C)
- Q608, 613 : 2SC1973
- Q609, 611 : 2SC1953(R)



- Q308 : 2SK30(GR)
- Q316, 342 : 2SA838(C)
- Q333, 334 : 2SC1953(R)
- D301~313, 317, 319~322, 328~330 : 1S1555
- 341~343 : 1S1587
- D318, 323, 324 : 1S1587
- D331 : WZ-071

- Q501, 502 : 2SC1505
- Q503 : 2SC945(P)
- Q504, 507 : 2SA913
- Q506 : 2SC1913(Q,R)
- Q508 : 2SA684
- Q509 : 2SC1384

- D501: S1QB60
- D502, 505, 507~509 : S1555
- D503, 504 : S2VB40
- D506 : WZ-120
- IC501, 502: NJM4558D

M-1535A

