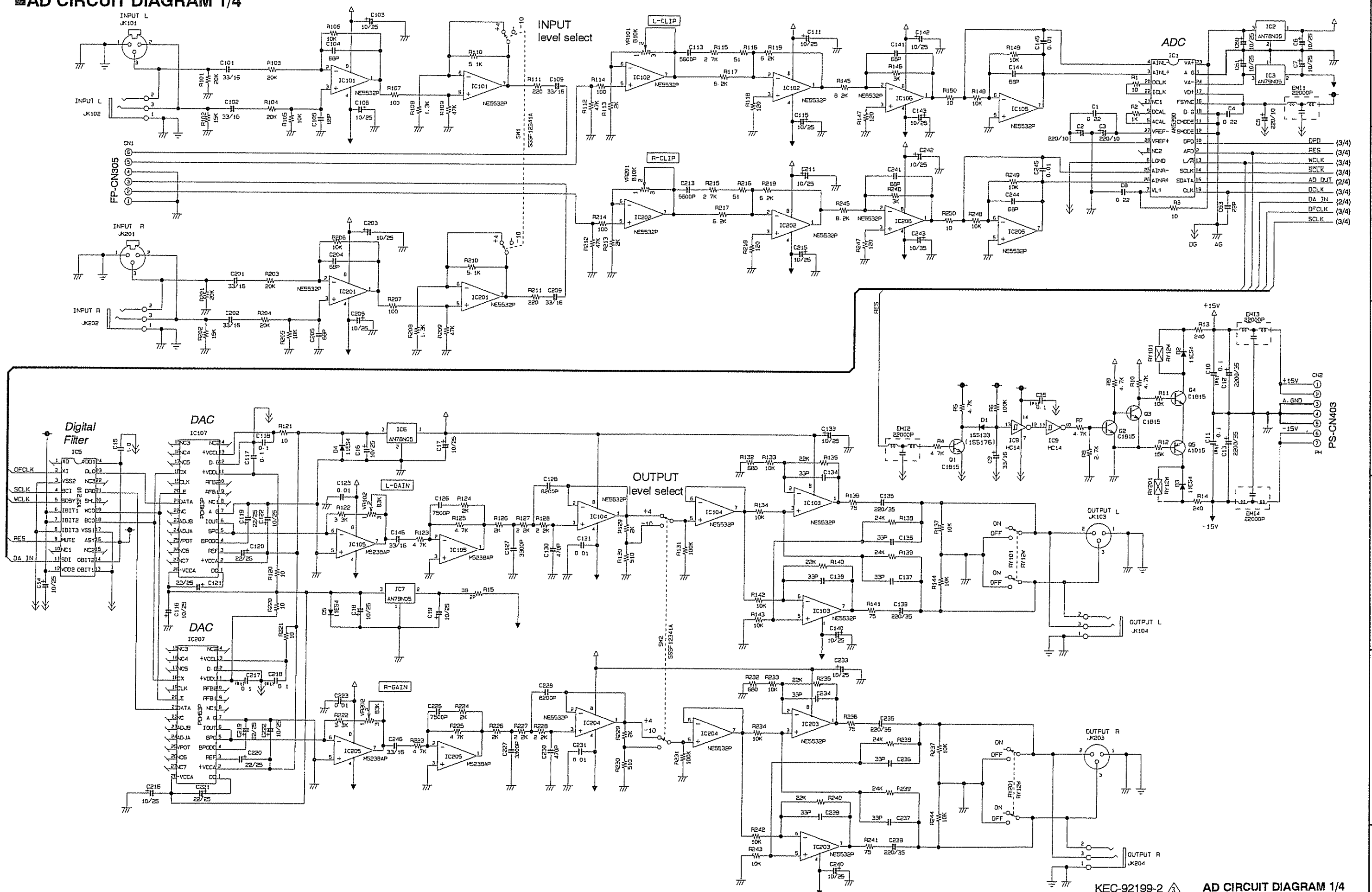


AD CIRCUIT DIAGRAM 1/4

ProR3

ProR3



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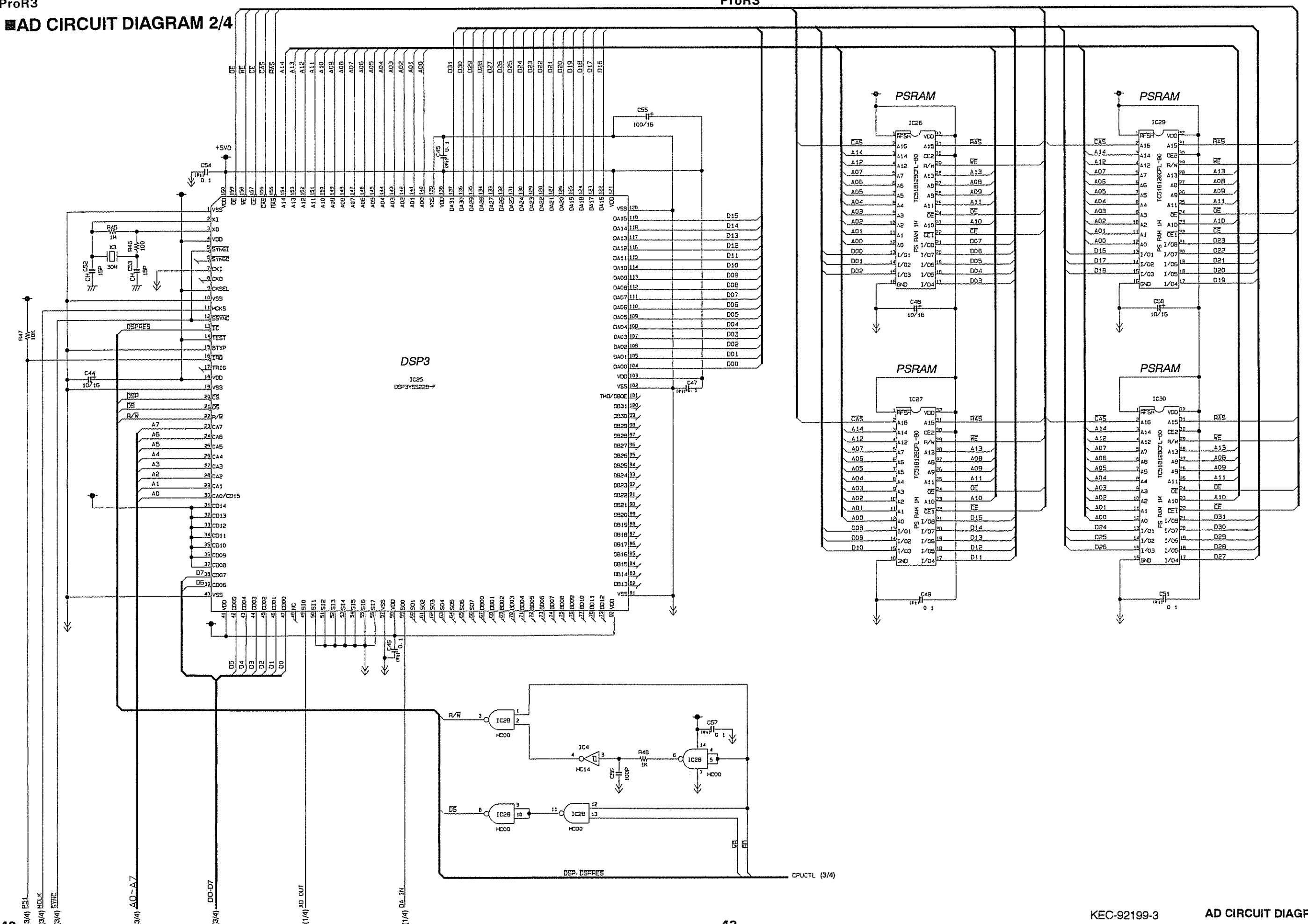
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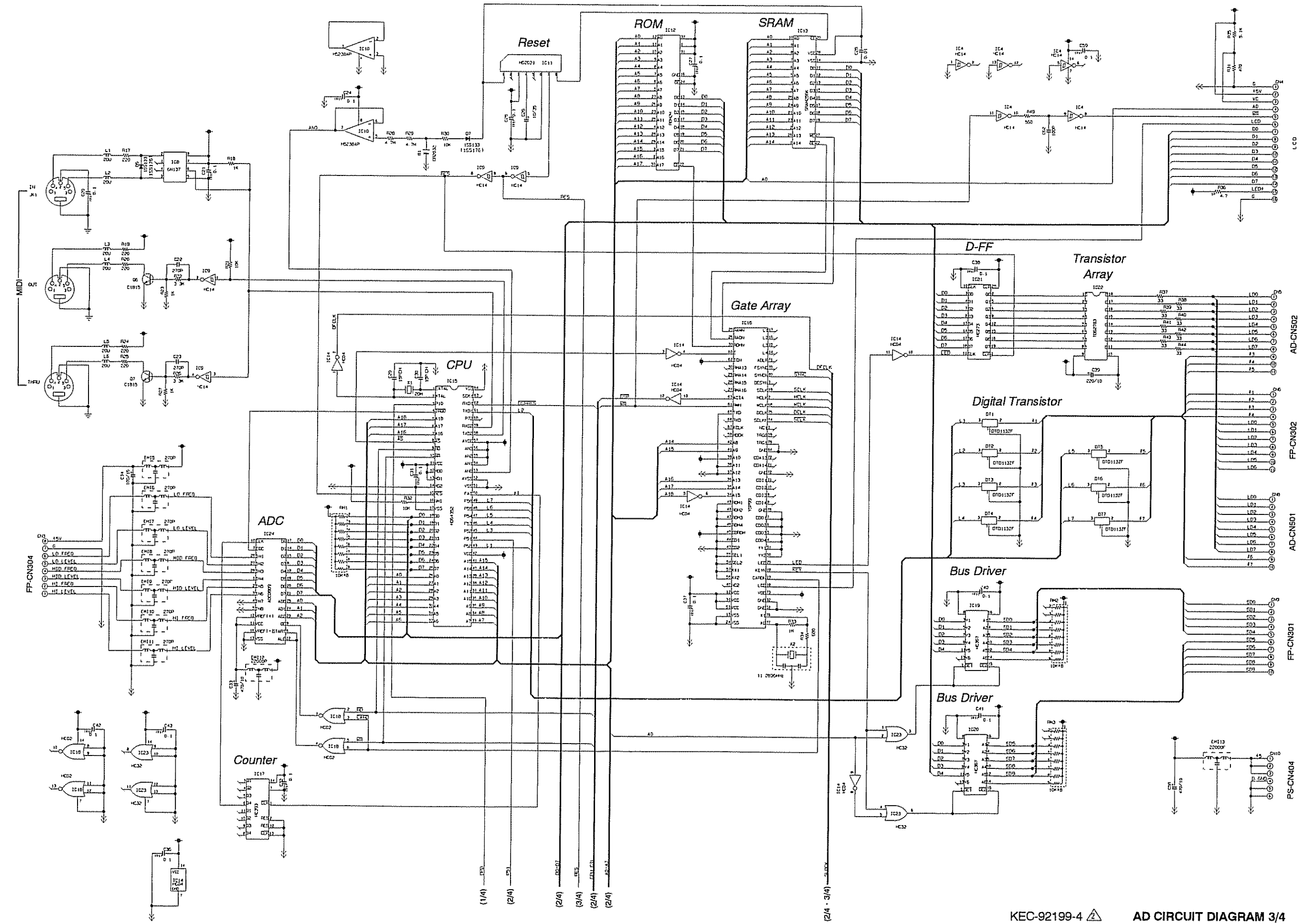
ProR3  
AD CIRCUIT DIAGRAM 2/4

ProR3

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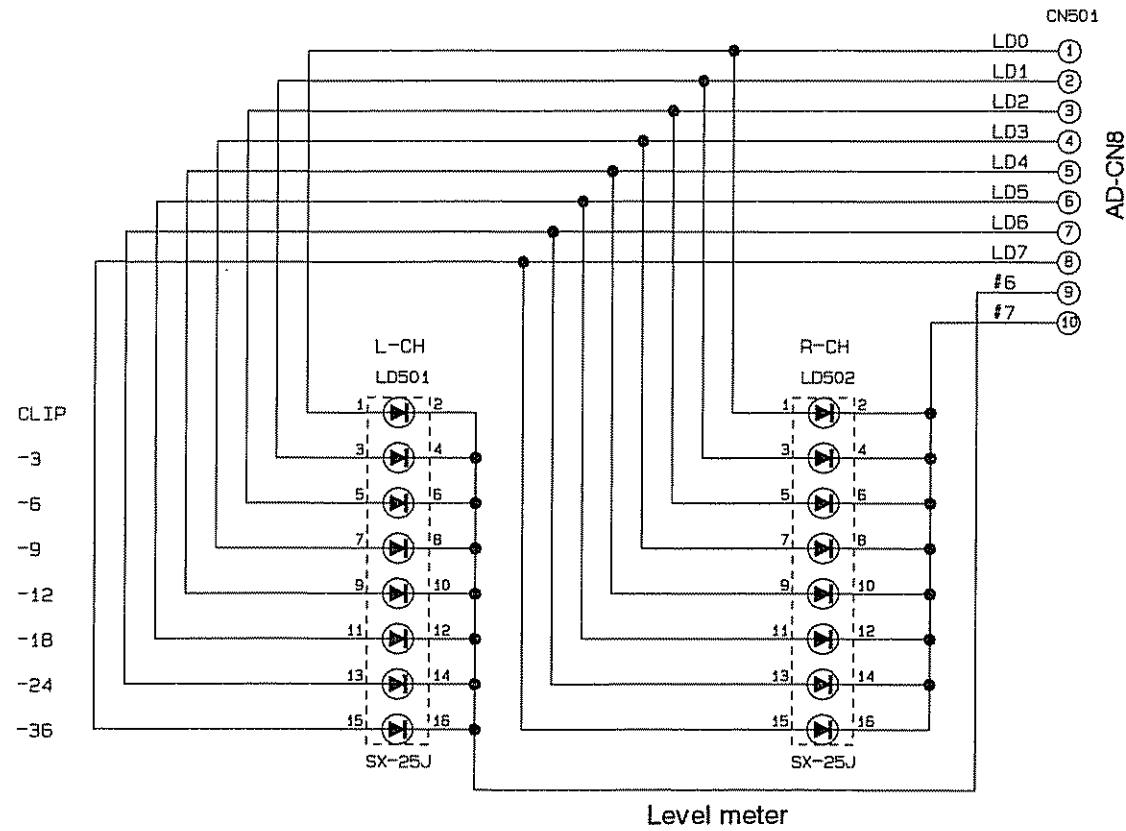


AD CIRCUIT DIAGRAM 3/4

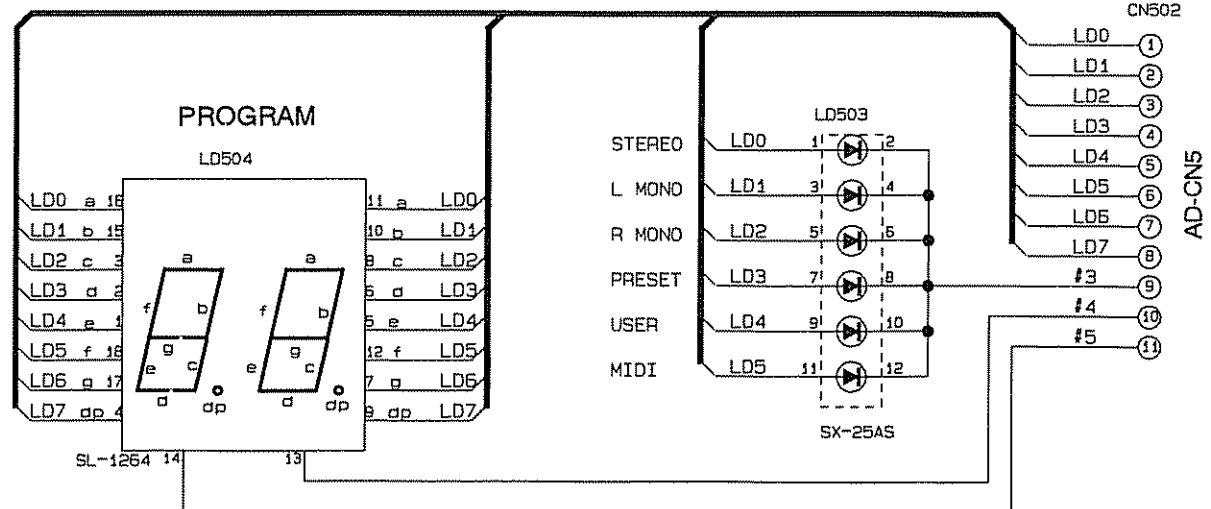


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AD CIRCUIT DIAGRAM 4/4



Level meter



KEC-92199

Notes)

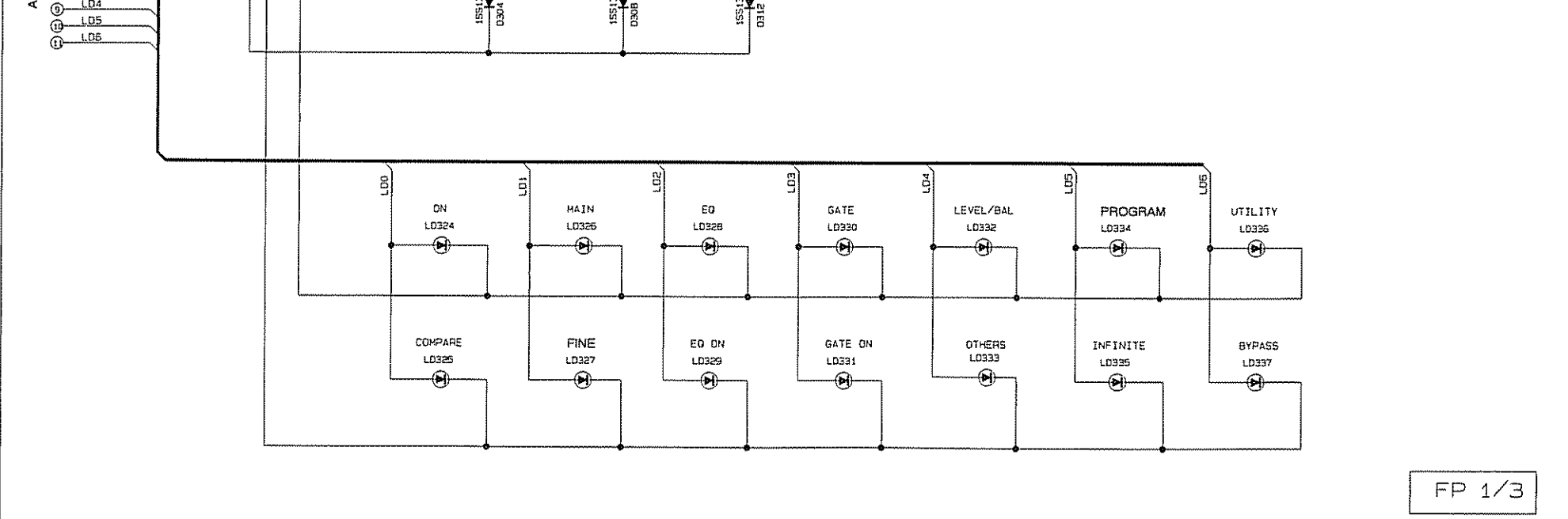
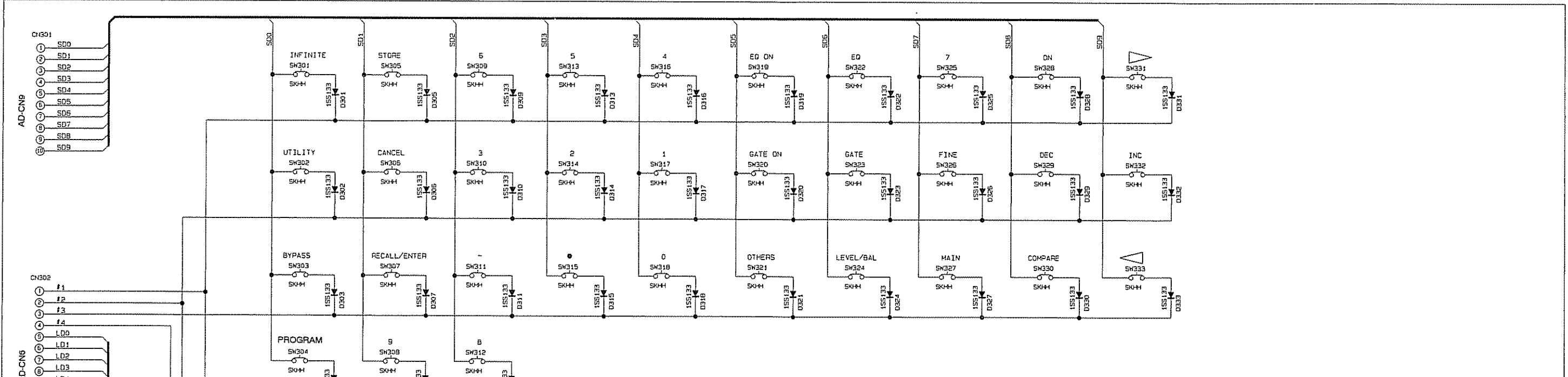
- Circuit Board: AD1/2 (NX816930) XQ737B0  
 Circuit Board: AD2/2 (NX816940) XQ737B0
- IC**  
 IC 1: AK5390-VP (XQ199A00) ADC  
 IC 2,6: AN78N05 (XA507A00) REGULATOR +5V  
 IC 3,7: AN79N05 (XG780A00) REGULATOR -5V  
 IC 4,9: SN74HC14N (IR001450) INVERTER  
 IC 5: YSF210 (XK280A00) DIGITAL FILTER  
 IC 10,105,205: M5238AP (XM085A00) OP AMP  
 IC 11: M62021L (XH970A00) RESET  
 IC 12: TMS27C020-15JL (XR155B00) EPROM 2M  
 IC 13: KM62256CLP-7 (XR405A00) SRAM 256K  
 IC 14: SN74HC04N (IR000450) INVERTER  
 IC 15: HD6435208A00P (XK278A00) CPU  
 IC 16: YSP99 LZ95D59 (XM047A00) GATE ARRAY  
 IC 17: SN74HC393N (IR039350) COUNTER  
 IC 18: SN74HC02N (IR000250) NOR  
 IC 19,20: SN74HC367N (IR036750) BUS DRIVER  
 IC 21: SN74HC273N (IR027350) D-FF  
 IC 23: SN74HC32N (IR003250) OR  
 IC 24: ADC0809CCN (XG740A00) ADC  
 IC 25: YSS228-F (XQ962A00) DSP3  
 IC 26,27,29,30: TC518128CFL-80 (XK832C00) PSRAM 1M  
 IC 28: SN74HC00N (IR000050) NAND  
 IC 101-104,106, 201-204,206: NE5532P (IG102500) OP AMP  
 IC 107,207: PCM63P-J (XN558A00) DAC
  - Photo Coupler**  
 IC 8: 6N137 (VD473200)
  - Transistor Array**  
 IC 22: TD62783AP (VK456300)
  - Transistor**  
 Q1-4,6,7: 2SC1815 Y,GR (IC1815M0)  
 Q5: 2SA1015 O,Y (IA101590)
  - Digital Transistor**  
 DT 1-7: DTD113ZF (VI005500)
  - Diode**  
 D 1,6,7: 1SS133,1SS176 (VB941200)  
 D 2-5: 11ES4 (VB481900)
  - LED Display**  
 LED 501,502: SX-25J (VA039100) Meter L,R  
 LED 503: SX-25AS (VP987600) Mode indicators  
 LED 504: SL1264 (VP228100) PROGRAM
  - Mylar Capacitor**  
 C 28: 0.0100 50V J (UA654100)
  - Monolithic Mylar Capacitor**  
 C 1,4,8: 0.22 50V J (VJ663100)  
 C 15: 1.0 50V J (VI550800)  
 C 117,118,217,218: 0.1 50V J (VI550800)  
 C 123,131,145, 223,231,245: 0.01 50V J (VI550500)
  - Polypropylene Capacitor**  
 C 113,213: 5600P 100V J (UT653560)  
 C 126,226: 7500P 50V G (FT56375)  
 C 127,227: 3300P 50V G (FT56333)  
 C 128,228: 8200P 50V G (FT56382)  
 C 130,230: 470P 50V G (FT562470)
  - Ceramic Capacitor**  
 C 22,23: B 270P 50V K (FG612270)  
 C 29,30,52,53: CH 15P 50V J (VK662900)  
 C 56,62: SL 100P 50V J (FG652100)  
 C 63: SL 22P 50V J (FG651220)

12. Electrolytic Cap.

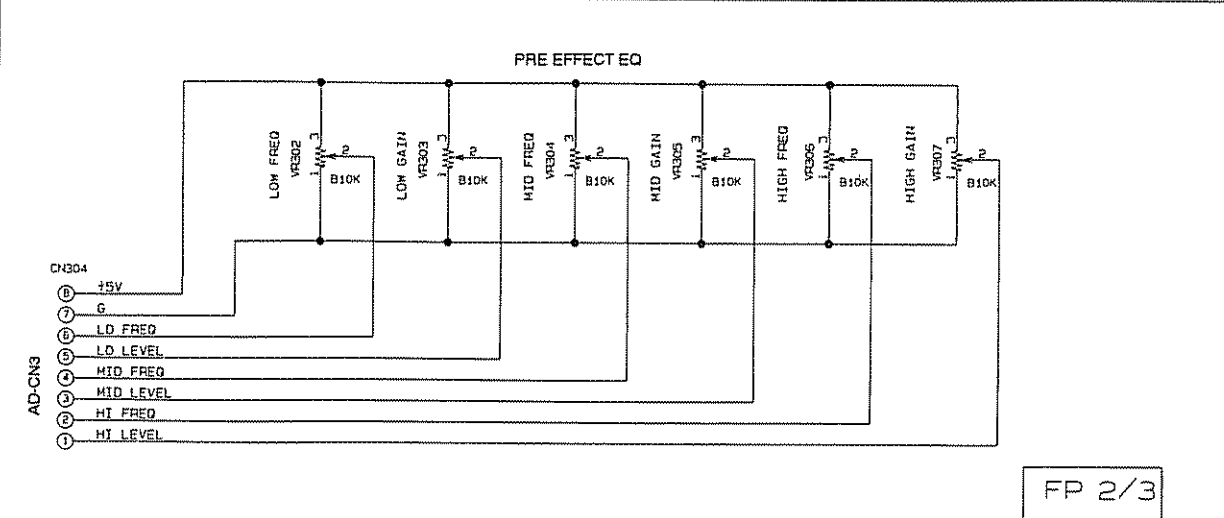
- C 2,3: 220.00 10 0V (VE017300) DUOREX  
 C 5,39: 220.00 10 0V (UJ828220)  
 C 6,7,14,16-19,103, 106,111,115,116, 122,133,140,142, 143,203,206,211, 215,216,222,233, 240,242,243: 10 00 25 0V (VH620500) PZ  
 C 9: 33.00 16.0V (UJ837330)  
 C 12,13: 2200 35.0V (VT896800)  
 C 26: 10.00 35.0V (UJ857100)  
 C 33,58: 470 00 10 0V (UJ828470)  
 C 34,55: 100 00 16.0V (UJ838100)  
 C 44,48,50: 10 00 16 0V (UJ837100)  
 C 60,61: 10 0 25V 25SC10 (VR193400) chip  
 C 101,102,109,146, 201,202,209,246: BP 33 00 16.0 (VR97330)  
 C 119-121,219-221: 22.00 25.0V (VE018400) DUOREX  
 C 135,139,235,239: BP 220 00 35 0V (VJ802600)
- Mica Capacitor**  
 C 104,105,141,144, 204,205,241,244: 68P 500V J (FU451680)  
 C 134,136-138,234, 236-238: 33P 500V J (FU451330)
- Semiconductive Cera. Cap.**  
 C 10,11,20,21,24,25, 27,31,32,35-38,40- 43,45-47,49,51,54, 57,59: 0 1000 25V Z (VC694800)
- Carbon Resistor**  
 R 1,3,120,121,150, 220,221,250: 10 0 1/4 J (HF754100)  
 R 2,18,23,27,48: 1 0K 1/4 J (HF756100)  
 R 4,5,7,9,10,123, 125,223,225: 4 7K 1/4 J (HF756470)  
 R 6,131,231: 100 0K 1/4 J (HF758100)  
 R 8,115,215: 2 7K 1/4 J (HF756270)  
 R 11,21,30,32,47, 105,106,133,134, 137,142-144,148, 149,205,206,233, 234,237,242-244, 248,249: 10 0K 1/4 J (HF757100)  
 R 12,102,202: 15.0K 1/4 J (HF757150)  
 R 13,14: 240 0 1/4 J (HF755240)  
 R 17,19,20,24,25, 111,211: 220 0 1/4 J (HF755220)  
 R 22,26,122,222: 3 3K 1/4 J (HF756330)  
 R 28,29: 4.7M 1/4 J (HF759470)  
 R 31: 470 0 1/4 J (HF755470)  
 R 33,45: 1.0M 1/4 J (HF759100)  
 R 34,132,232: 680 0 1/4 J (HF755680)  
 R 35,110,210: 5.1K 1/4 J (HF756510)  
 R 37-44: 33 0 1/4 J (HF754330)  
 R 46,107,114,207, 214: 100 0 1/4 J (HF755100)  
 R 49: 560 0 1/4 J (HF755560)  
 R 101,103,104,201, 203,204: 20.0K 1/4 J (HF757200)  
 R 108,208: 1.3K 1/4 J (HF756130)  
 R 109,112,209,212: 47 0K 1/4 J (HF757470)  
 R 113,124,126,129, 213,224,226,229: 2.0K 1/4 J (HF756200)  
 R 116,216: 51.0 1/4 J (HF75451)  
 R 117,119,217,219: 6.2K 1/4 J (HF756620)  
 R 118,147,218,247: 120 0 1/4 J (HF755120)  
 R 127,128,227,228: 2.2K 1/4 J (HF756220)  
 R 130,230: 510 0 1/4 J (HF755510)  
 R 135,140,235,240: 22 0K 1/4 J (HF757220)  
 R 136,141,236,241: 75 0 1/4 J (HF754750)

- R 138,139,238,239: 24 0K 1/4 J (HF757240)  
 R 145,245: 8 2K 1/4 J (HF756820)  
 R 146,246: 3 0K 1/4 J (HF756300)
- Metal Oxide Film Resistor**  
 R 15: 68.0 2W J (VC772900)  
 R 36: 4.7 1W J (VC741700)
- Resistor Array**  
 RM 1-3: RGLD8X103J (VE445200) 10Kx8
- Trimmer Potentiometer**  
 VR 101,201: B10.0K 3P EVN (VA024800) L/R clip adj.  
 VR 102,202: B 3 0K 3P EVN (VB135200) L/R gain adj
- Coil**  
 L 1-6: FL5R200QNT 20u (VB835000)
- LC Filter**  
 EMI 1-4,12,13: LS MT Y223NB (FZ006970) 22000P  
 EMI 5-11: LS MT B271KB (FZ006920) 270P
- Quartz Crystal Unit**  
 X 1: 20 0000M AT-49 (VI927300)
- Ceramic Resonator**  
 X 2: 11 28M CST11 2MT (VK175200)  
 X 3: 30 00M CSAMXZ30M (VT841300)
- Slide Switch**  
 SW 1,2: SSSF12341A (VP799800) INPUT, OUTPUT -4/+10dB
- Relay**  
 RY 101,201: DC RY12W (KC001900)
- Phone Jack**  
 JK 102,104,202, 204: HLJ0544 STEREO (LB302070) INPUT L/R,OUTPUT L/R
- Cannon Connector**  
 JK 101,201: NC3FAH1 JACK (VT83810) INPUT L,R  
 JK 103,203: NC3MAH (VS133700) OUTPUT L,R
- DIN Connector**  
 JK 1: 3P DIN YKF51-5046 (VI466400) MIDI
- Connector Base Post**  
 CN 1: PH- 6P TE (VB390200) to FP3/3-CN305  
 CN 2: PH- 7P TE (VB390300) to PS-CN403  
 CN 10: PH- 6P TE (VB390200) to PS-CN404
- Wire Trap**  
 CN 3: 52147- 8P TE (VK025200) to FP2/3-CN304  
 CN 5: 52147-11P TE (VK025500) to AD2/2-CN502  
 CN 6: 52147-11P TE (VK025500) to FP1/3-CN302  
 CN 8: 52147-10P TE (VF728200) to AD2/2-CN501  
 CN 9: 52147-10P TE (VF728200) to FP1/3-CN301
- Header**  
 CN 4: HIF3FC-16P TE (VP214600) to LCD
- Cable Holder**  
 CN 501: 51048-10P TE (VI878800) to AD1/2-CN8  
 CN 502: 51048-11P TE (VI878900) to AD1/2-CN5
- Jumper Wire**  
 : FVP=2 0C26SB10-170 (VT64310)  
 : FVP=2 0C26SB11-150 (VT64470)

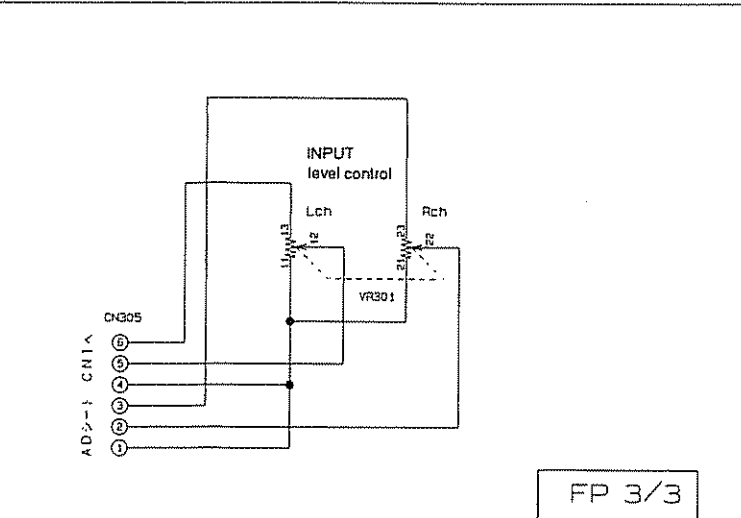
FP CIRCUIT DIAGRAM



FP 1/3



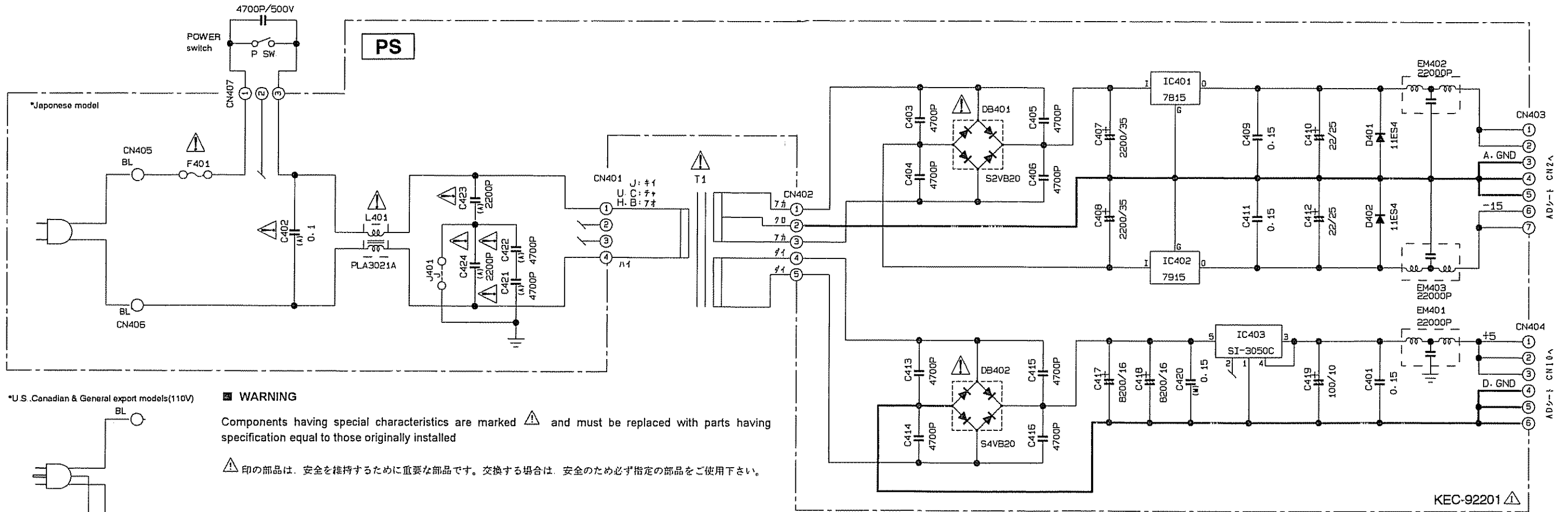
FP 2/3



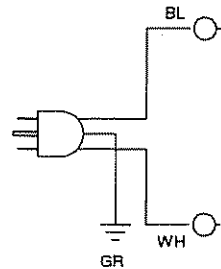
FP 3/3

- Notes)**
- Circuit Board: FP1/3 (NX816950) XQ738B0
  - Circuit Board: FP2/3 (NX816960) XQ738B0
  - Circuit Board: FP3/3 (NX816970) XQ738B0
  - 1. Diode  
D 301-333: 1SS133,1SS176 (VB941200)
  - 2. LED  
LED 324,329,331: SLZ-235B-08-T1 GR (VU091400) ON,EQON,GATEON  
LED 325-328,330,332-337: SLZ-135B-08-T1 RE (VT838500) COMPARATOR,MAIN,FINE,EQ,GATE,LEVEL/BAL, OTHERS, PROGRAM, INFINITE, UTILITY, BYPASS
  - 3. Rotary Variable Resistor  
VR 301: A10Kx2 RK161222 (VT838200) INPUT level  
VR 302,304,306: B 10 0K RK11K114 (VT838300) FREQ
  - 4. Rotary V.R. with click  
VR 303,305,307: B 10 0K RK11K114 (VT838400) GAIN
  - 5. Push Switch  
SW301-333: EVQ PJH 05K (VU420200)
  - 6. Connector Base Post  
CN 305: PH- 6P TE (VB390200) AD1/2-CN1
  - 7. Cable Holder  
CN 301: 51048-10P TE (VI878800) t  
o AD1/2-CN9  
CN 302: 51048-11P TE (VI878900) to AD1/2-CN6  
CN 304: 5104- 8P TE (VI878600) to AD1/2-CN3
  - 8. Jumper Wire  
: FVP=2.0C26SB11-150 (VT64470)  
: FVP=2.0C26SB10-150 (VT98570)  
: FVP=2.0C26SB8-140 (VT98580) (VM60000)
  - 9. Push Button  
SW 304-307,329,331-333: GY (VT839000) 8pcs  
Others: BL (VT810300) 25pcs

PS CIRCUIT DIAGRAM



\*U.S. Canadian & General export models(110V)

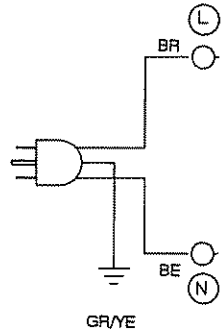


WARNING

Components having special characteristics are marked and must be replaced with parts having specification equal to those originally installed

印の部品は、安全を維持するために重要な部品です。交換する場合は、安全のため必ず指定の部品をご使用下さい。

\*European & General export models(230V)



<p>●SI-3050C(XI164A00) REGULATOR +5V</p> <p>1 GND 2 VC(ON/OFF) 3 V OUTPUT 4 VO SENCE 5. V INPUT</p>	<p>●NJM7815FA(XD853A00) REGULATOR +15V</p> <p>1 INPUT 2 GND 3 OUTPUT</p>	<p>●NJM7915FA(XD854A00) REGULATOR -15V</p> <p>1 GND 2. INPUT 3. OUTPUT</p>
<p>●S4VD20(VP825100) DIODE STACK</p>	<p>●S2VB20(IH001120) DIODE STACK</p>	<p>●11ES4(VB481900) DIODE</p> <p>1 ANODE 2. CATHODE</p>

Notes

- Circuit Board: PS (VT592500) XQ739B0 (J)
- Circuit Board: PS (VT592600) XQ739B0 (U,C,V)
- Circuit Board: PS (VT592700) XQ739B0 (H,B,W)
- 1. IC
  - IC 401: NJM7815FA (XD853A00) REGULATOR +15V
  - IC 402: NJM7915FA (XD854A00) REGULATOR +15V
  - IC 403: SI-3050C (XI164A00) REGULATOR +5V
- 2. Diode
  - D 401,402: 11ES4 (VB481900)
- 3. Diode Stack
  - DB 401: S2VB20 2.0A 200V (IH001120)
  - DB 402: S4VB20 (VP825100)
- 4. Monolithic Mylar Capacitor
  - C 401,409,411,420: ECQ-V1H154JL3 (VR168500) 0.15 50V
- 5. Ceramic Capacitor-B
  - C 403-406,413-416: 4700P 50V K (FG413470)
- 6. Electrolytic Cap.
  - C 407,408: 2200 35.0V (VT896800)
  - C 410,412: 22.00 25.0V (VE018400) DUOREX
  - C 417,418: 8200 16.0V (VP825200)
  - C 419: 100.00 10.0V (UJ828100)

7. Capacitor

- C 402: 0.1U (FR203100)
- C 421,422: 4700P 400V (FI383470) H,B,W
- C 423,424: 2200P 400V (FI383220) U,C,V,H,B,W

8. Coil

- L 401: PLAA3021R0R01B1 3mH (GD900760)

9. LC Filter

- EMI 401-403: LS MT Y223NB (FZ006970) 22000P

10. Fuse

- F 401: T 1 00A (KB003530) J,U,C,V
- F 401: TL 1 00A (KB003040) H,B,W

11. Connector Base Post

- CN 401: VH- 4P TE (LB932040) to Power transformer
- CN 402: VH- 5P TE (LB932050) to Power transformer
- CN 403: PH- 7P TE (VB390300) to AD1/2-CN2
- CN 404: PH- 6P TE (VB390200) to AD1/2-CN10
- CN 407: VH- 3P TE (LB932030) to POWER switch

12. Jumper Wire

- (VM60000)