

■CIRCUIT BOARDS (シート基板図)

●AD 1/2 Circuit Board

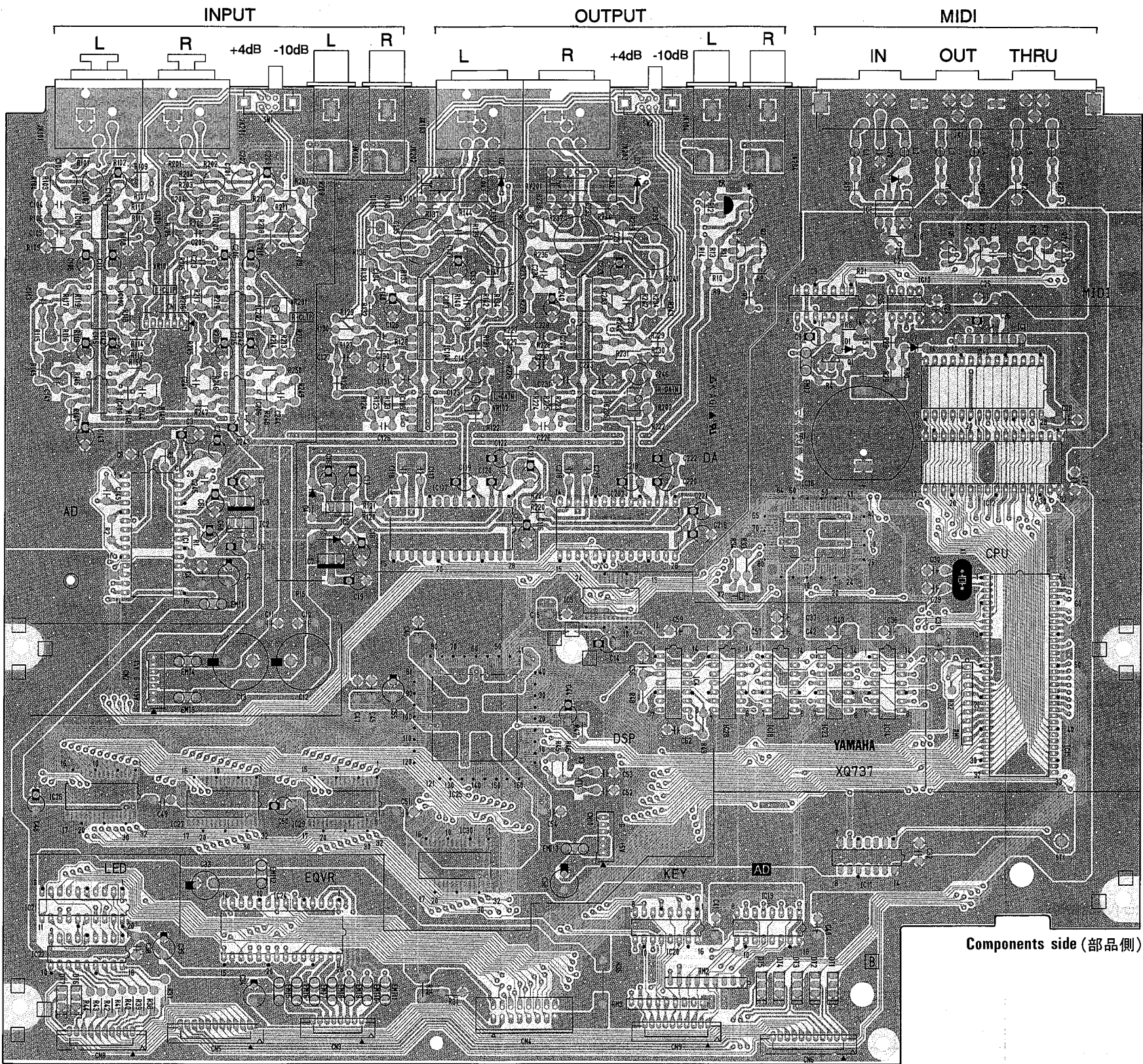
Notes)

- Circuit Board: AD1/2 (NX816930) XQ737B0
Circuit Board: AD2/2 (NX816940) XQ737B0
1. 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 (XR155C00) 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
 2. Photo Coupler
 - IC 8: 6N137 (VD473200)
 3. Transistor Array
 - IC 22: TD62783AP (VK456300)
 4. Transistor
 - Q1-4,6,7: 2SC1815 Y,GR (IC1815M0)
 - Q5: 2SA1015 O,Y (IA101590)
 5. Digital Transistor
 - DT 1-7: DTD113ZF (VI005500)
 6. Diode
 - D1,6,7: 1SS133,1SS176 (VB941200)
 - D2-5: 11ES4 (VB481900)
 7. LED Display
 - LED 501,502: SX-25J (VA039100) Meter L,R
 - LED 503: SX-25AS (VP987600) Mode indicators
 - LED 504: SL1264 (VP228100) PROGRAM
 8. Mylar Capacitor
 - C 28: 0.0100 50V J (UA654100)
 9. 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 (VI550600)
 - C 123,131,145,223,231,245: 0.01 50V J (VI550500)
 10. 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)
 11. 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)
 13. 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)
 14. 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)
 15. 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)

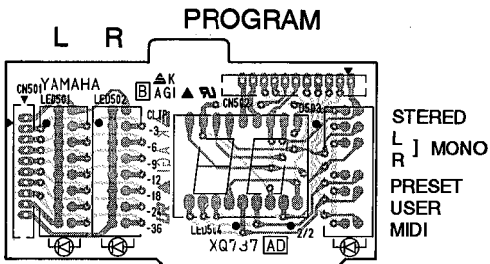
●AD 1/2 Circuit Board

- 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)
16. Metal Oxide Film Resistor
R 15: 39.0 2W J (VC772200)
R 36: 4.7 1W J (VC741700)
17. Resistor Array
RM 1-3: RGLD8X103J (VE445200) 10Kx8
18. 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.
19. Coil
L 1-6: FL5R200QNT 20u (VB835000)
20. LC Filter
EMI 1-4,12,13: LS MT Y223NB (FZ006970) 22000P
EMI 5-11: LS MT B271KB (FZ006920) 270P
21. Quartz Crystal Unit
X 1: 20.0000M AT-49 (VI927300)
22. Ceramic Resonator
X 2: 11.28M CST11.2MT (VK175200)
X 3: 30.00M CSAMXZ30M (VT841300)
23. Slide Switch
SW1,2: SSSF12341A (VP799800) INPUT, OUTPUT -4/+10dB
24. Relay
RY 101,201: DC RY12W (KC001900)
25. Phone Jack
JK 102,104,202, 204: HLJ0544 STEREO (LB302070) INPUT L/R, OUTPUT L/R
26. Cannon Connector
JK 101,201: NC3FAH1 JACK (VT838100) INPUT L,R
JK 103,203: NC3MAH (VS133700) OUTPUT L,R
27. DIN Connector
JK 1: 3P DIN YKF51-5046 (VI466400) MIDI
28. 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
29. 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
30. Header
CN 4: HIF3FC-16P TE (VP214600) to LCD
31. Cable Holder
CN 501: 51048-10P TE (VI878800) to AD1/2-CN8
CN 502: 51048-11P TE (VI878900) to AD1/2-CN5
32. Jumper Wire
: FVP=2.0C26SB10-170 (VT64310)
: FVP=2.0C26SB11-150 (VT64470)



3NA-VT59230

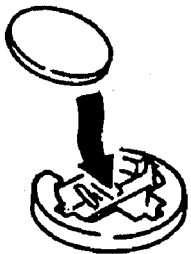
●AD 2/2 Circuit Board



Components side (部品側)

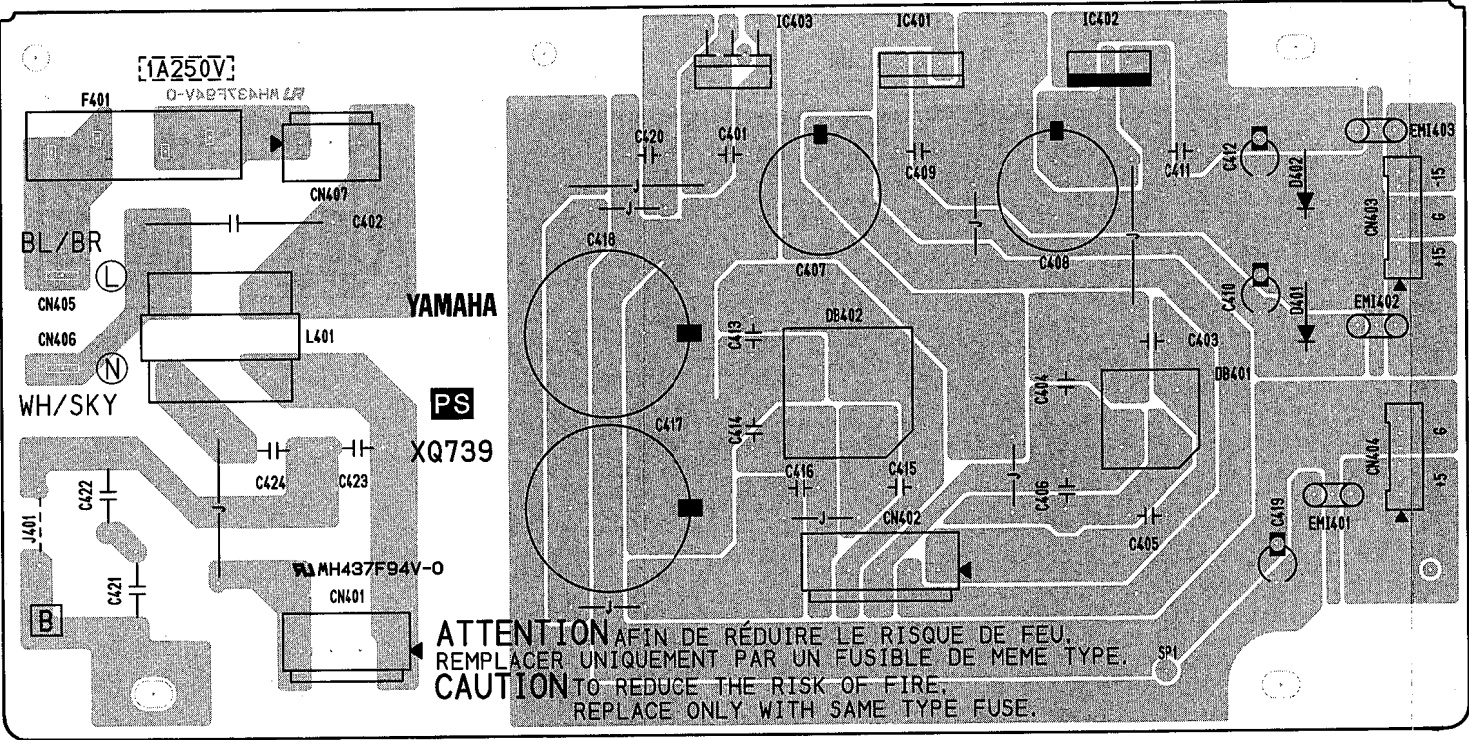
The lithium battery is not a part of the AD1/2 circuit board. When you replace the circuit board, you must install a battery in the battery holder.

リチウム電池は、AD1/2シートの構成部品ではありません。シート交換時には、リチウム電池を取り付けて下さい。



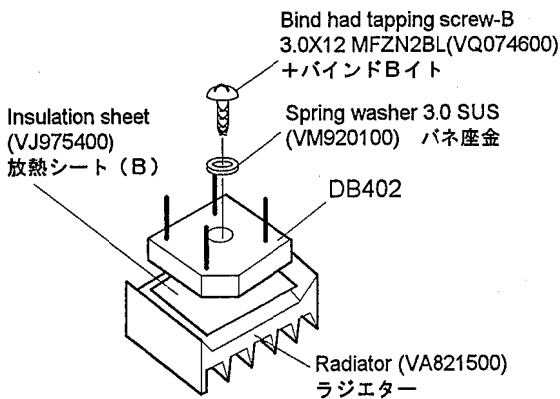
Components side (部品側)

●PS Circuit Board



Components side (部品側)

● Diode stack, DB402 installing
(ダイオードスタックDB402の取付け)



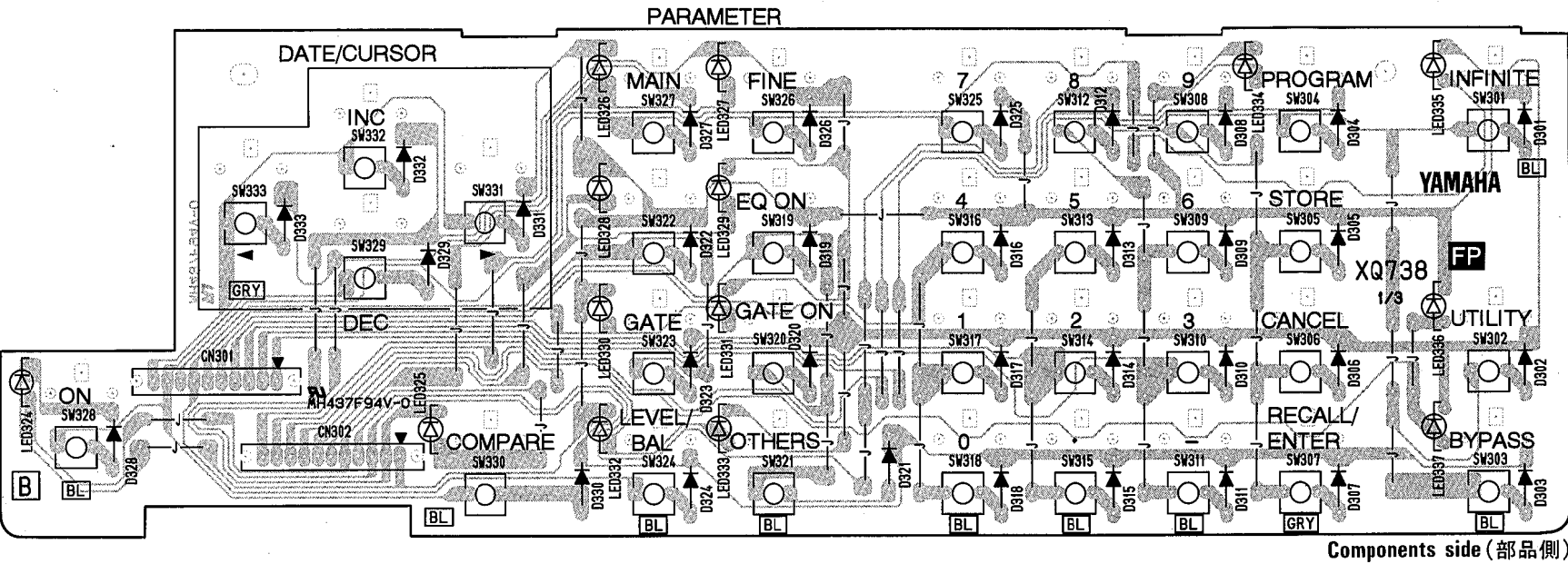
Destination	F401	Fuse label	J401	C421,C422	C423,C424
Japanese model	1A, 250V	×	×	×	×
U.S. & Canadian models	1A, 250V	×	○	×	○
European model	T1AL, 250V	○	×	○	○

(○ : installed, × : not installed)

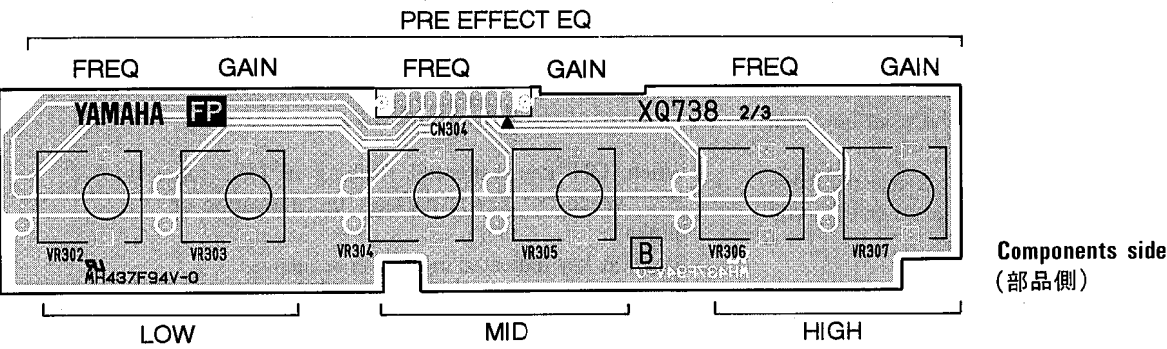
Notes)

- 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)

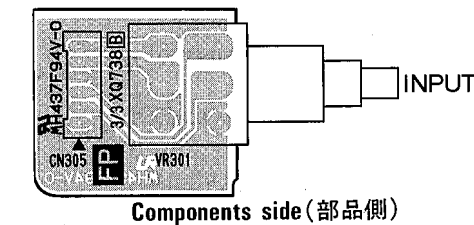
●FP 1/3 Circuit Board



●FP 2/3 Circuit Board



●FP 3/3 Circuit Board



- 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