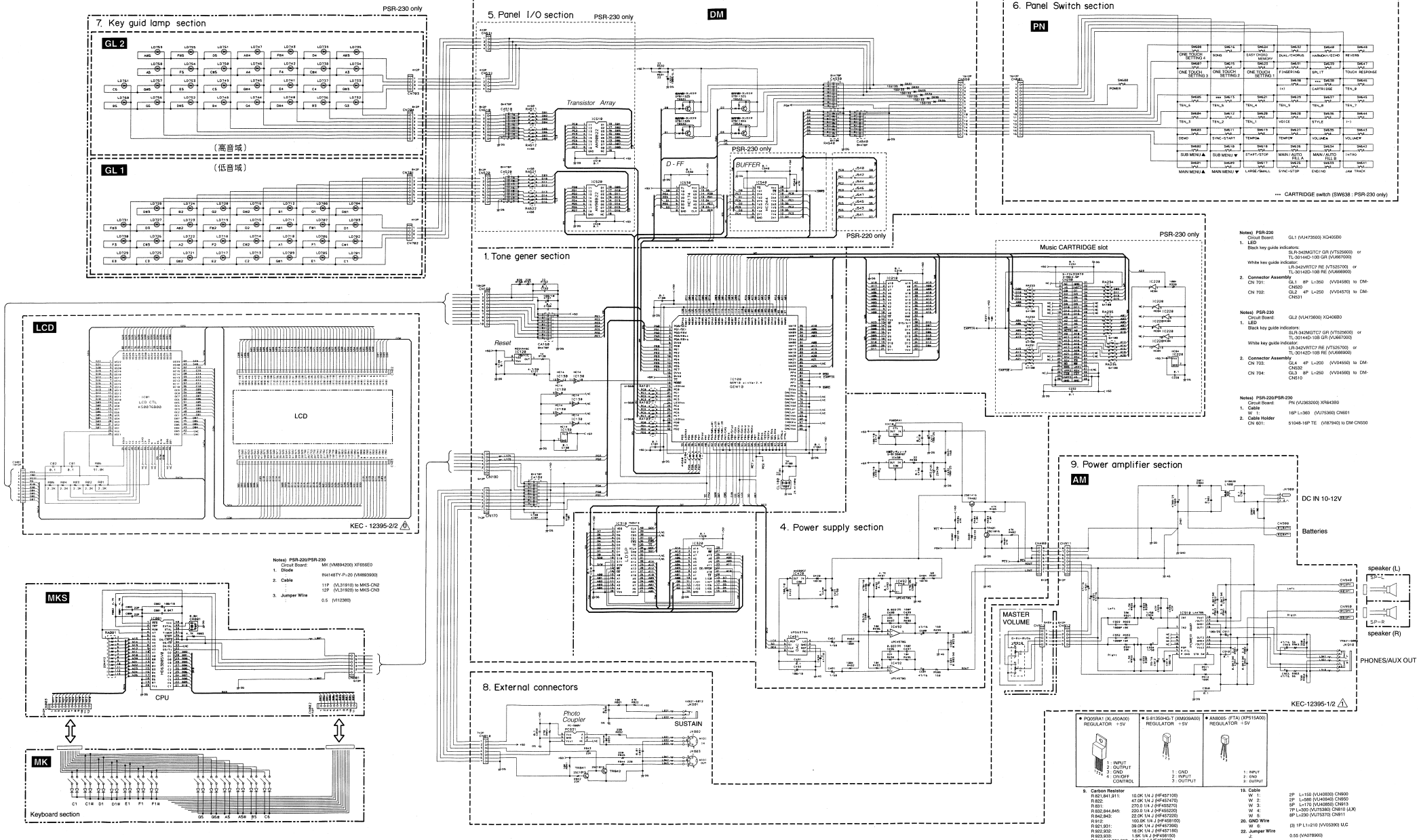
■ PSR-220/PSR-230 OVERALL CIRCUIT DIAGRAM



Notes) PSR-220/PSR-230
Circuit Board: GL1 (VU473500) XG405B0
1. LED
Black key guide indicators:
SLR-342MGTC7 GR (VT525600) or
TL-301440-108 GR (VU667000)
White key guide indicator:
LR-342VRTC7 RE (VT525700) or
TL-301420-108 RE (VU668900)
2. Connector Assembly
CN 701: GL1 8P L=350 (VV04580) to DM-CN820
CN 702: GL2 4P L=250 (VV04570) to DM-CN831

Notes) PSR-230
Circuit Board: GL2 (VU473600) XG406B0
1. LED
Black key guide indicators:
SLR-342MGTC7 GR (VT525600) or
TL-301440-108 GR (VU667000)
White key guide indicator:
LR-342VRTC7 RE (VT525700) or
TL-301420-108 RE (VU668900)
2. Connector Assembly
CN 703: GL4 4P L=200 (VV04550) to DM-CN832
CN 704: GL3 8P L=250 (VV04560) to DM-CN810

Notes) PSR-220/PSR-230
Circuit Board: PN (VU363200) XR643B0
1. Cable
W 1: 16P L=360 (VU753560) CN601
2. Cable Holder
CN 601: 51048-16P TE (VI87940) to DM-CN550

Notes) PSR-220/PSR-230
Circuit Board: MK (VM894200) XF656E0
1. Diode
IN4148TV-Pv20 (VM893900)
2. Cable
11P (VL31910) to MKS-CN2
12P (VL31920) to MKS-CN3
3. Jumper Wire
0.5 (VI12380)

● PQ05RA1 (XL450A00) REGULATOR +5V
1 : INPUT
2 : OUTPUT
3 : GND
4 : ON/OFF CONTROL

● S-81350HG-T (XM939A00) REGULATOR +5V
1 : GND
2 : INPUT
3 : OUTPUT

● AN8005 (FTA) (XP515A00) REGULATOR +5V
1 : INPUT
2 : GND
3 : OUTPUT

Notes) PSR-220/PSR-230
Circuit Board: DM (VU363400) XR906A0 (PSR-220)
Circuit Board: DM (VU363300) XR906A0 (PSR-230)
1. IC
IC 1: HD63B05V0D73P (XJ450A00) CPU
2. Ceramic Capacitor
21P: SL 22P 50V J (VD840500)
0.047: F 47000P 16V Z (VK392400)
3. Electrolytic Cap.
100.00 10.0V (UJ828100)
4. Carbon Resistor
4.7K 1/4 J (HF756470)
47.0K 1/4 J (HF757470)
5. Resistor Array
RA 1: RGLE12X223J (VL674500)
6. Coil
FB : BL03RN2-R62T4 0.45 (VL489500)
7. Ceramic Resonator
CR 1: CST8.00MTW140 (VN002100) or 8.00M EFOE3609413 (VG305500)
8. Connector
CN 1: 52147-6P TE (VF728300) to DM-CN170
9. Wire Trap
CN 2: 52147-11P TE (VK025500) to MK
CN 3: 52147-12P TE (VK025600) to MK
10. Jumper Wire
0.55 (VA078900)

Notes) PSR-220/PSR-230
Circuit Board: DM (VU363400) XR906A0 (PSR-220)
Circuit Board: DM (VU363300) XR906A0 (PSR-230)
1. IC
IC 100: YMW703-F (XR648A00) GEW10
IC 120: RE5VL46CA-TZ (XR647A00) RESET
IC 130: TC74HC14AP (RR001400) S-INVERTER
IC 210: 16M (XR801200) MASKED ROM 16M or ROM circuit board (PSR-220)
IC 210: 16M (XR640200) MASKED ROM 16M or ROM circuit board (PSR-230)
IC 220: TC74HC04AP (RR000400) INVERTER
IC 310: YM3413 (XE446A00) LDSP
IC 320: TC81B52AFL-85 (XL977A00) PSRAM 256K
IC 410: PQ05RA1 (XL450A00) REGULATOR +5V
IC 420: AN8005 (FTA) +5V (XP515A00) REGULATOR +5V
IC 430: S-81350HG-T (XM939A00) REGULATOR +5V
IC 491: UPD6376A (XR896A00) DAC or BU8480F (XR999A00) DAC
IC 492: UPC4570G2 (XF281A00) OP AMP
IC 530: TC74HC174AP (RR017400) D-FF
IC 540: TC74HC244AP (RR204A00) BUS-BUFFER
2. Transistor
TR 401: 2SC1815 Y,GR (IC1815M0)
TR 402: 2SB1416(T4) Q,R (VH481100)
3. Transistor Array
IC 510,520: AN90E02 (VH480900)
4. Digital Transistor
TR 531-534: DTB113ZS TP (VT817300)

5. Diode
D 401-404,531-536: 1SS133,176,HSS10 (VD631600)
6. Zener Diode
ZD 430: MTZ J 12.0C 12. (VG440300)
7. Mylar Capacitor
C 496,498,502,503: 0.0220 50V J (UA654220)
8. Ceramic Cap.-B
C 497,499: B 180P 50V K (FG612180)
C 180: B 470P 50V K (FG612470)
9. Ceramic Capacitor Array
CA 160,180,510, 520,530,540: 470P 50V Z SI (VJ006700)
10. Electrolytic Cap.
C 121: 4.70 50.0V (UJ566470)
C 161,412,422,432, 463: 100.00 10.0V (UJ828100)
C 411,431: 100.00 25.0V (UJ848100)
C 421,461,481: 1.00 50.0V (UJ868100)
C 494,500,501: 47.00 16.0V (UJ837470)
C 495: 470.00 10.0V (UJ862470)
C 504: 22.00 16.0V (UJ837220)
C 505: 470.00 25.0V (UJ848470)
C 531: 1000 6.3V (UJ819100)
11. Semiconductive Cera. Cap.
C 100:100,102,120,130, 160,162,210,220, 231,232,310,320, 410,420,430,491, 492,510,520,530, 540: 0.1000 25V M (VD930900)

12. Carbon Resistor
R 100: 1.0M 1/4 J (HF459100)
R 101,162,430,531, 532: 22.0 1/4 J (HF454220)
R 120: 1.0K 1/4 J (HF461100)
R 160: 820.0 1/4 J (HF458820)
R 161: 220.0 1/4 J (HF455220)
R 180,231,493,495, 496,498: 10.0K 1/4 J (HF457100)
R 220,462,482: 100.0K 1/4 J (HF458100)
R 401,402,405,406, 540: 47.0K 1/4 J (HF457470)
R 403,404: 1.8K 1/4 J (HF451182)
R 431,499,500: 150.0 1/4 J (HF455150)
R 491,492: 4.7K 1/4 J (HF458470)
R 494,497: 22.0K 1/4 J (HF457220)
R 501: 68.0 1/4 J (HF454680)
13. Resistor Array
RA 101-104: EXBF8V561J (VU528900)
RA 231,234: RGLD51B30J (VU460600)
RA 232,233,235, 236: RGLD61B20 J (VU460100)
RA 511,512,521, 522: RGLD41Y680J (VU460800)
RA 540: RGLD5X103J (VE445200)
14. Coil
L 171,172: FLSR2000ONT 20u (VB835000) or SBT-0290TT 60u (VF968600)
15. Ceramic Resonator
CL 100: CSTS9.41MXW111S (VU063500)

16. Wire Trap
CN 160: 52151-10P SE (VK026900) to LCD
CN 170: 52151- 6P SE (VK026500) to MKS-CN1
CN 180: 52151- 7P SE (VK026600) to AM-CN810
CN 230: PSB40-40P-TE (VJ536703) Music CARTRIDGE
CN 400: 52151- 8P SE (VK026700) to AM-CN811
CN 510: 52151-8P SE (VK026700) to GL2-CN704
CN 520: 52151-4P SE (VK026300) to GL1-CN701
CN 531: 52151-4P SE (VK026300) to GL1-CN702
CN 532: 52151-4P SE (VK026300) to GL2-CN703
CN 550: 52151-16P SE (VU42160) to PN-CN601
17. Jumper Wire
J 540-547: 0.55 (VA078900) PSR-220
※ Listed below are the parts located only on a PSR-220.
(以下の部品は、PSR-220 のみに装備されています。)
J 548-549
※ Listed below are the parts located only on a PSR-230.
(以下の部品は、PSR-230 のみに装備されています。)
C 220,232,510,520,540
CA 510,520
CN 230,510,520,531,532
IC 220,510,520,540
RA 104,231-236,511,512,521,522

Notes) PSR-220/PSR-230
Circuit Board: ROM - XS071A0
The ROM circuit board is located as IC210 on the DM circuit board.
(ROM シートは、IC210 として DM シートに装着されています。)
1. IC
IC 1: TMS27C240-10JL (XS066A00) EPROM 4M (PSR-230)
IC 2: TMS27C240-10JL (XS067A00) EPROM 4M (PSR-220)
IC 3: 16M (XR649100) MASKED ROM 16M (PSR-230)
IC 4: 16M (XR831100) MASKED ROM 16M (PSR-220)
IC 5: TC74AC139P (XL123A00) DECODER or MC74AC139N (XR280A00) DECODER
2. Semiconductive Cera. Cap.
C 1:2: 0.1000 25V M (VD930900)
3. Carbon Resistor
R 1: 47.0K 1/4 J (HF457470)
4. Pin Header
CN 3: 9205- 21P TE (VU831600)
5. IC Socket
CN 1: DICF-40CS-E (VK405920)
CN 2: IC30-2100-S4 (VU831100)

Notes) PSR-220/PSR-230
Circuit Board: AM (VU362900) XR642B0 (JLX)
Circuit Board: AM (VV094200) XR642B0 (BJC)
1. IC
IC 910: LA4705 15W BTL (XM939A00) POWER AMP
2. Transistor
TR 841,842: 2SC1815 Y,GR (IC1815M0)
3. Diode
D 831: 1SS133,176,HSS10 (VD631600)
D 901,902: 20E1-FC4 (VL723600)
4. Photo Coupler
PC 850: PC-900V (VG181900)
5. Mylar Capacitor
C 941,942,951,952: 0.0470 50V J (UA654470)
6. Ceramic Capacitor
C 831: F 0.0100 50V Z (FG644100)
C 922,932: B 1800P 50V K (FG613180)
C 923,933: B 820P 50V K (FG612820)
C 925,935: SL 47P 50V J (FG651470)
7. Electrolytic Cap.
C 903: 47.00 25.0V (UJ749470)
C 911: 100.00 25.0V (UJ848100)
C 912: 33.00 16.0V (UJ837330)
C 913: 100.00 10.0V (UJ828100)
C 921,931,943,953: 47.00 16.0V (UJ837470)
C 924,934: 1.00 50.0V (UJ868100)
8. Semiconductive Cera. Cap.
C 820,830,901, 902,910,960: 0.1000 25V M (VD930900)

9. Carbon Resistor
R 821,841,911: 10.0K 1/4 J (HF457100)
R 822: 47.0K 1/4 J (HF457470)
R 831: 270.0 1/4 J (HF452270)
R 832,844,845: 220.0 1/4 J (HF455220)
R 842,843: 22.0K 1/4 J (HF457220)
R 912: 100.0K 1/4 J (HF458100)
R 921,931: 39.0K 1/4 J (HF457390)
R 922,932: 18.0K 1/4 J (HF457180)
R 923,933: 1.5K 1/4 J (HF456150)
R 941,942,951,952: 2.2 1/4 J (HF453220)
R 943,953: 56.0 1/4 J (HF454560)
R 944,954: 330.0 1/4 J (HF455330)
10. Rotary Variable Resistor
VR 910: A10K4G2 EWCENOFH6 VOLUME (VG202000)
11. Line Filter
L 900: SU10VD-10020 (VH227500)
12. Coil
L 821-831,832,833, 841-843,910,941, 951: FLSR2000ONT 20u (VB835000) or
13. Phone Jack
JK 820: YKB21-5012 (BL) (VB312800) SUSTAIN
JK 910: YKB21-5006 (LB101870) PHONES/AUX OUT
14. DC IN Connector
JK 900: HEC2305 (VC664500) DC IN 10-12V
15. DIN Connector
JK 830: 5P-YKF51-5050 (VJ107200) MIDI IN
JK 840: 5P-YKF51-5050 (VJ107200) MIDI OUT
16. Base Post Connector
CN 900: XH-2P TE (LB918020) to batteries
17. Cable Holder
CN 810: 51048-7P TE (VI87850) to DM-CN180
CN 911: 51048-8P TE (VI87860) to DM-CN400
CN 912: 51048-9P TE (VI87870) AM1/2 to AM02-CN813
CN 913: 51048-6P TE (VI87830) AM2/2 to AM02-CN812
CN 940: 51048-3P TE (VI87800) to speaker (L)
CN 950: 51048-2P TE (VI87800) to speaker (R)
18. Connector Assembly
W 4: MIDI 7P L=400 (VV06450) CN810 (L,C)

19. Cable
W 1: 2P L=150 (VU40830) CN800
W 2: 2P L=580 (VU40840) CN850
W 3: 5P L=170 (VU40860) CN813
W 4: 7P L=300 (VU75380) CN810 (J,X)
W 5: 8P L=230 (VU75370) CN811
20. GND Wire
W 6: (3) 1P L1=210 (VV05390) U,C
22. Jumper Wire
J: 0.55 (VA078900)

Notes) PSR-220/PSR-230
Circuit Board: LCD (VU522400) XR672B0
1. IC
IC 1: KS0076B0-00 (XR793A00) LCD DRIVE
2. Monolithic Ceramic Cap.
C 1,2: F 0.100 25V Z (UB245100)
3. Semiconductive Cera. Cap.
C 1,2: 0.1000 25V M (VD930900)
4. Carbon Resistor
R 1,2,3,4,5: 2.2K 1/4 J (HF756220)
5. Carbon Resistor (chip)
R 1,2,3,4,5: 2.2K 0.1 J (RD256220)
R 6: 91.0K 1/10 D (VI199900)
6. Cable Holder
CN 1: 51048-10P TE (VI87880) to DM-CN160
7. Cable
W 1: 10P L=300 (VU524800) CN1