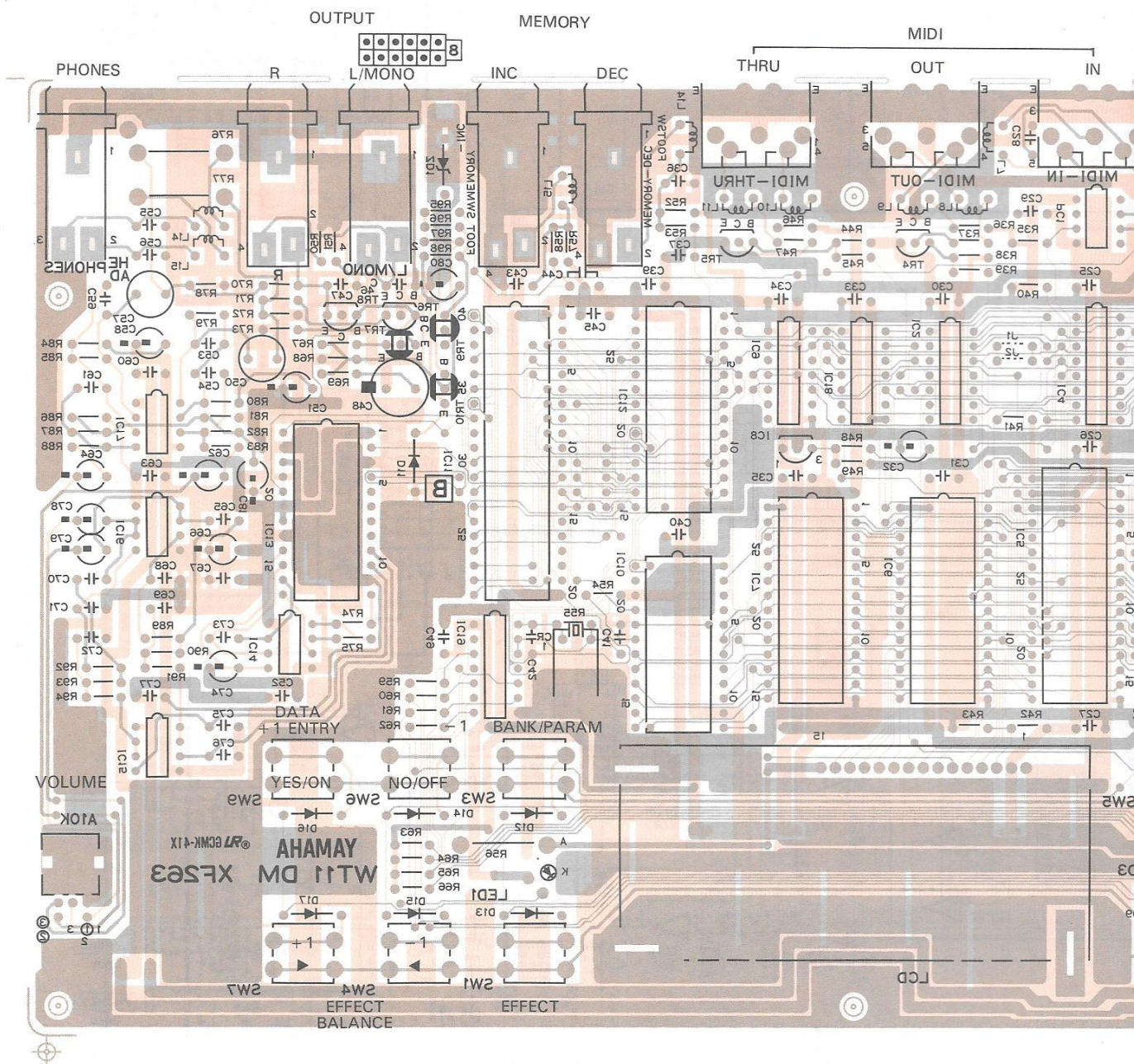
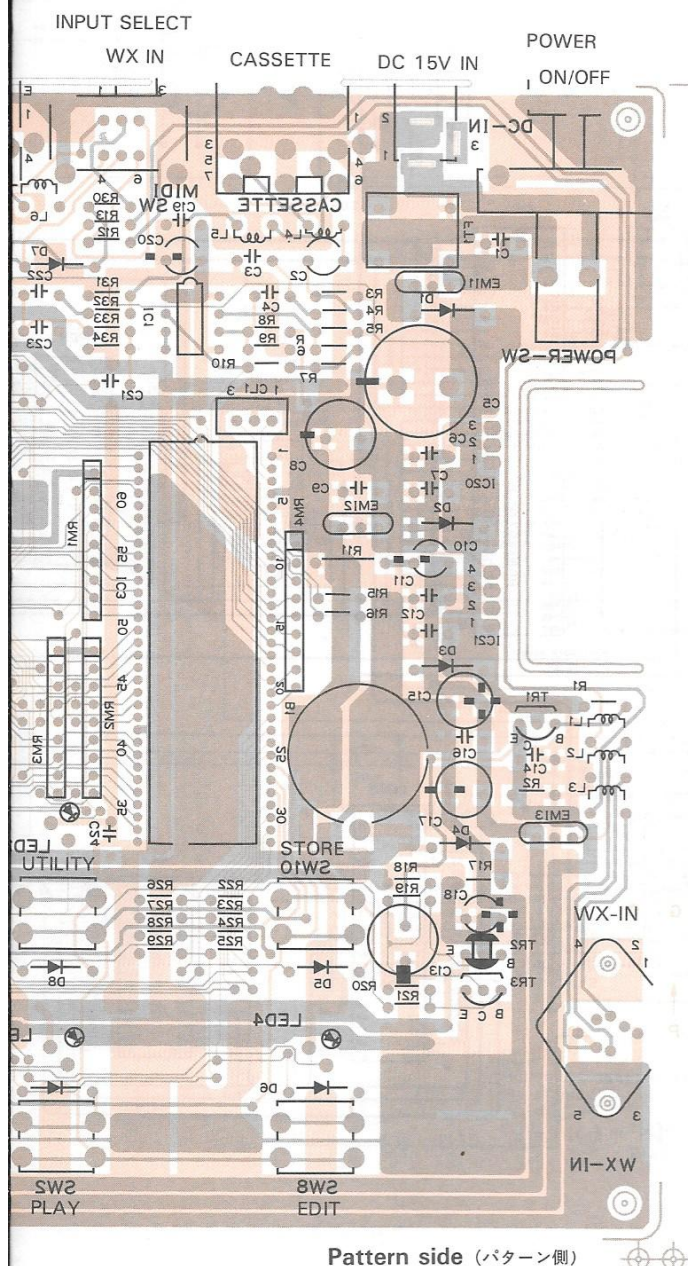


## ■DM CIRCUIT BOARD (DMシート基板図)







Pattern side (パターン側)

\* J1, J2

	J1	J2
1M EPROM	○	×
1M Mask ROM (32 pin)	○	×
1M Mask ROM (28 pin)	×	○
512K EPROM	○	×

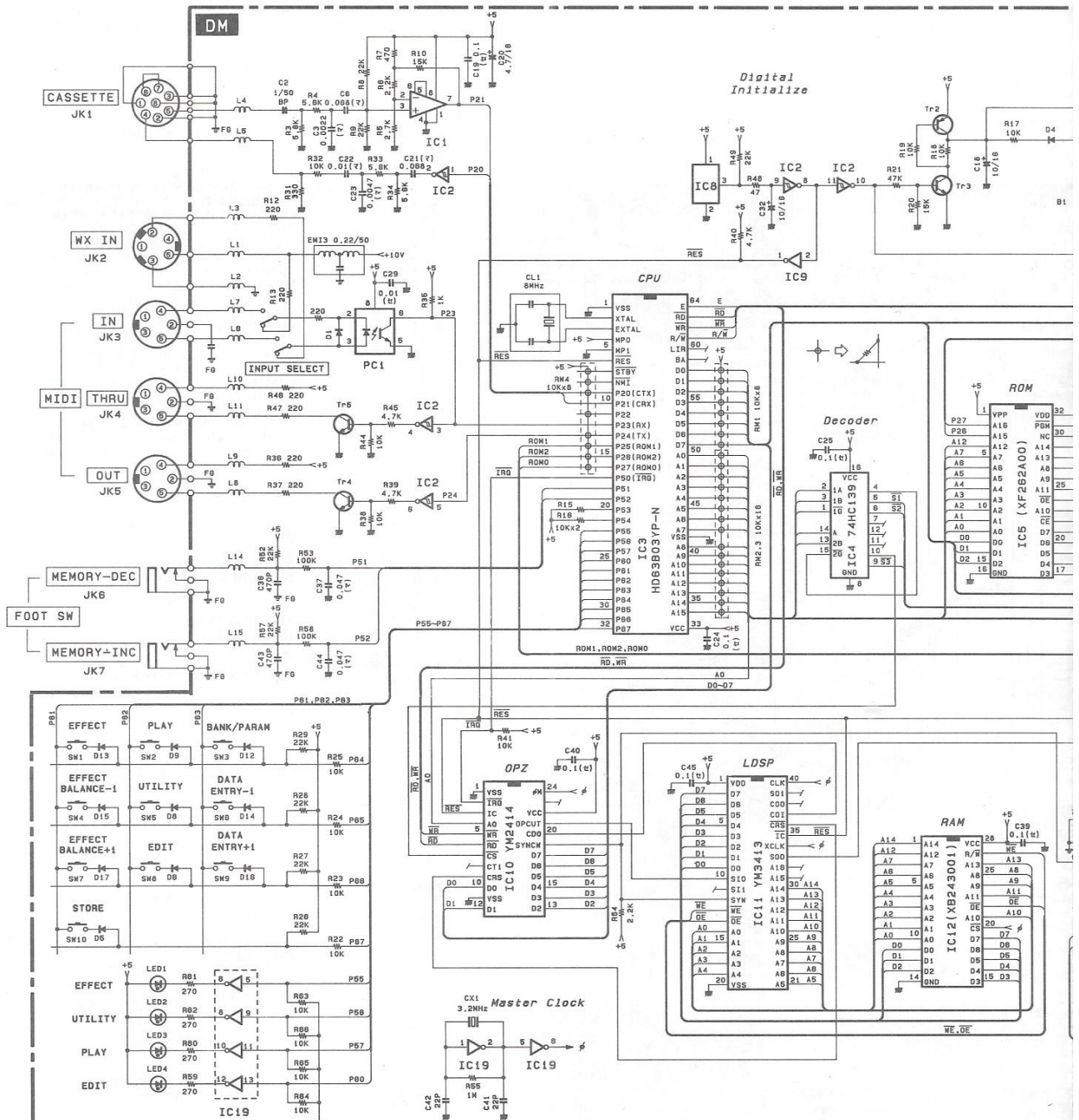
## Notes)

\* Circuit Board

DM (VF965500) XF263B0

- IC
  - IC 1: IR9311 (IG134900) COMPARATER
  - IC 2: MC74HC14N (IR001470) INVERTER
  - IC 3: HD63B03YP-N (XD245001) CPU
  - IC 4: MC74HC139N (IR013970) DECODER
  - IC 5: 053V100 (XF262B00) EP ROM
  - IC 6, 7: TC5564APL-15 (XC890001) SRAM 64K or LC3564PL-15 (XE786A00) SRAM 64K
  - IC 8: PST518B-2 (IG116200) SYSTEM RESET
  - IC 9: MC74HC04N (IR000470) INVERTER
  - IC10: YM2414 (XB768001) OPZ
  - IC11: YM3413 (XE449001) LDSP
  - IC12: HM65256BLP-12 (XB243001) PSRAM
  - IC13: YM3017 (XA800001) DAL
  - IC14: NJM4560S (IG121800) OP AMP.
  - IC15: NJM072D (IG107000) OP AMP.
  - IC16: NJM4558D-V (IG001390) OP AMP.
  - IC17: NJM4556D-V (IG042500) OP AMP.
  - IC18: MC74HC32N (IR003270) OR
  - IC19: TC40H004P (IG051000) INVERTER
  - IC20: AN7805F (XD338001) +5V REGULATOR
  - IC21: PQ09R05 (XD453001) 9V REGULATOR
- Photo Coupler
  - PC 1: 6N137 (VD473200)
- Transistor
  - Q 1, 3: 2SC1815 Y (IC181520)
  - Q 2, 7, 9, 10: 2SA1115 E, F (IA111510)
  - Q 4, 5: 2SC2603 E, F (IC260310)
  - Q 6, 8: 2SC2878 A, B (IC287820)
- Diode
  - D 1-3: 11ES4 (VB481900)
  - D 4-9, 11-17: 1SS133 (IF003450)
- Zener Diode
  - ZD 1: RD9.1EB3 9.1V (IF005050)
- LED
  - LED 1-4: TLR124 RE (IF001190) UTILITY, EDIT, PLAY, EFFECT ON/OFF
- LCD
  - LCD 1: DMC2037-LY (VG343000)
- Resistor Array
  - RM 1-4: RMLS6-103J (HZ004650)
- Variable Resistor
  - VR 1: A10K x 2 (VF636100) VOLUME
- Metal Film Resistor
  - R11: 3kΩ 1/4W (HU576300)
- Metal Oxide Film Resistor
  - R56: 33Ω 1 W (HL314330)
  - R76, 77: 47Ω 1 W (HL314470)
- Quartz Crystal Unit
  - CR 1: 3.2 MHz KD0855F (VD032300)
- Ceramic Resonator
  - CL 1: 8 MHz CST8.00MT (VB657100)
- Filter
  - FT 1: LS MT Y223NB (FZ006970)
  - EMI 4: PLT2003C (VG238200)
- Coil
  - L 1-15: 20μ FL5R200QNT (VB835000)
- Push Switch
  - SW 1-10: SKEVAD001A (KA907010)
  - SW12: SDDWA1 J. (VA272200) POWER
- Slide Switch
  - SW11: SSP32204 (KA401280) INPUT SELECT
- Phone Jack
  - JK 6-9: HLJ0520 MONO (LB202600)
  - JK10: HLJ0520 STEREO (LB202300) PHONES
- Connector, DC IN
  - JK11: 2MM HEC0009 (LB202710) DC SOCKET
- DIN Jack
  - JK 1: 8P TCS4680-(LB605820) CASSETTE
  - JK 2, 3-5: 5P TCS4650-(LB500590) MIDI
- Lithium Battery
  - B 1: CR2032-P5-2 (VB436900)

# OVERALL CIRCUIT DIAGRAM (総回路図)



Notes)  
Circuit Board

DM (VF965500) XF26380

1. IC  
IC 1: IR9311 (IG134900) COMPARATER  
IC 2: MC74HC14N (IR001470) INVERTER  
IC 3: HD6303YP-N (XD245001) CPU  
IC 4: MC74HC139N (IR013970) DECODER  
IC 5: 053V100 (XF262800) EP ROM  
IC 6, 7: TC5564APL-15 (XC890001) SRAM 64K or LC3564APL-15 (XE786A00) SRAM 64K  
IC 8: PS1518B-2 (IG116200) SYSTEM RESET  
IC 9: MC74HC04N (IR000470) INVERTER  
IC 10: YM2414 (XB768001) OPZ  
IC 11: YM3413 (XE449001) LDSP  
IC 12: HM65256BLP-12 (XB243001) PSRAM  
IC 13: YM3017 (XA800001) DAL  
IC 14: NJM4560S (IG121800) OP AMP.  
IC 15: NJM072D (IG107000) OP AMP.  
IC 16: NJM4558D-V (IG001390) OP AMP.  
IC 17: NJM4558D-V (IG042500) OP AMP.  
IC 18: MC74HC32N (IR003270) OR  
IC 19: TC40H04P (IG051000) INVERTER  
IC 20: AN7805F (XD338001) +5V REGULATOR  
IC 21: PQ09R05 (XD453001) 9V REGULATOR

2. Photo Coupler  
PC 1: 6N137 (VD473200)
3. Transistor  
Q 1, 3: 2SC1815 Y (IC181520)  
Q 2, 7, 9, 10: 2SA1115 E, F (IA111510)  
Q 4, 5: 2SC2603 E, F (IC260310)  
Q 6, 8: 2SC2878 A, B (IC287820)

4. Diode  
D 1-3: 11ES4 (VB481900)  
D 4-9, 11-17: 1SS133 (IF003450)
5. Zener Diode  
ZD 1: RD9.1EB3 9.1V (IF005050)
6. LED  
LED 1-4: TLR124 RE (IF001190) UTILITY, EDIT, PLAY, EFFECT ON/OFF
7. LCD  
LCD 1: DMC2037-LY (VG343000)
8. Resistor Array  
RM 1-4: RMLS6-103J (HZ004650)
9. Variable Resistor  
VR 1: A10K x 2 (VF636100) VOLUME
10. Metal Film Resistor  
R11: 3kΩ 1/4W (HU576300)
11. Metal Oxide Film Resistor  
R56: 330 1 W (HL314330)  
R76, 77: 47Ω 1 W (HL314470)
12. Quartz Crystal Unit  
CR 1: 3.2 MHz KD0855F (VD032300)
13. Ceramic Resonator  
CL 1: 8 MHz CST8.00MT (VB657100)

14. Filter  
FT 1: LS.MT.Y22  
EMI 4: PLT2003C
15. Coil  
L 1-15: 20μF L5R2C
16. Push Switch  
SW 1-10: SKEVAD00  
PLAY, EFFECT ON/OFF: SDDWA1 J
17. Slide Switch  
SW11: SSP32204
18. Phone Jack  
JK 6-9: HLJ0520 M  
OUTPUT, N: HLJ0520 S
19. Connector, DC IN  
JK11: 2MM HECO
20. DIN Jack  
JK 1: 8P TCS468  
JK 2, 3-5: 5P TCS465
21. Lithium Battery  
B 1: CR2032-P5



## ● ADDRESS MAP

CPU	CPU								
A14	A15								
	0							<div> <div>1000~17FF</div> <div>1800~1FFF</div> <div>OPZ</div> <div>LCD</div> </div>	<div> <div>0000</div> <div>2000</div> <div>4000</div> <div>6000</div> <div>8000</div> </div>
0		ROM 7	ROM 6	ROM 5	ROM 4	ROM 3	ROM 2	ROM1	
1	1							ROM0	
CPU P25		0	1	0	1	0	1	0	
CPU P26		1	0	0	1	1	0	0	
CPU P27		1	1	1	0	0	0	0	

