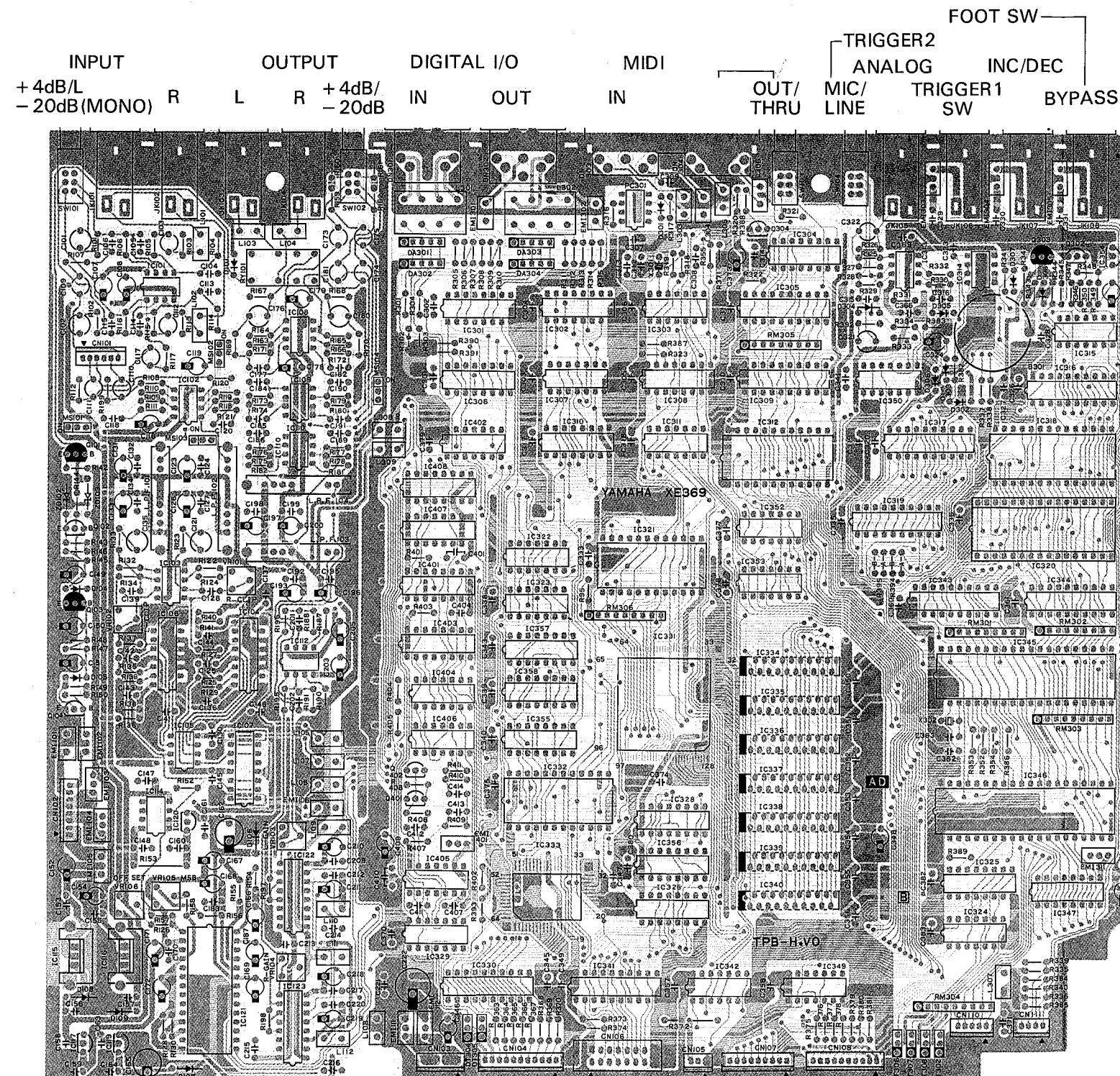


CIRCUIT BOARDS (シート基板図)

AD Circuit Board



Components side (部品側)

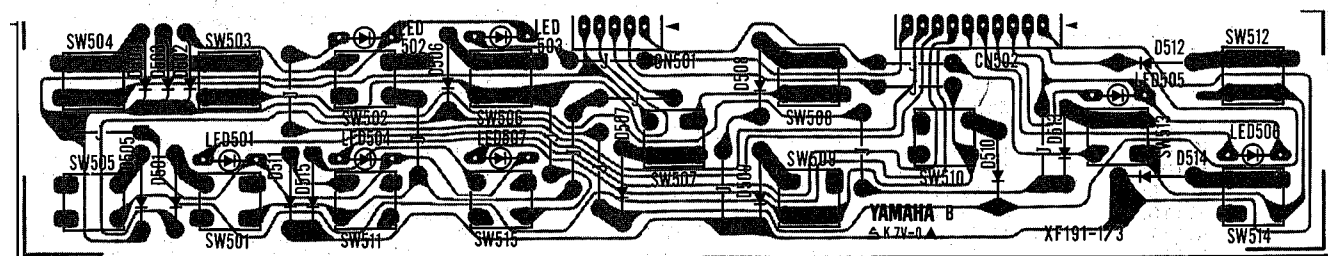
Notes

* Circuit Board AD (VF071200) XE369B0

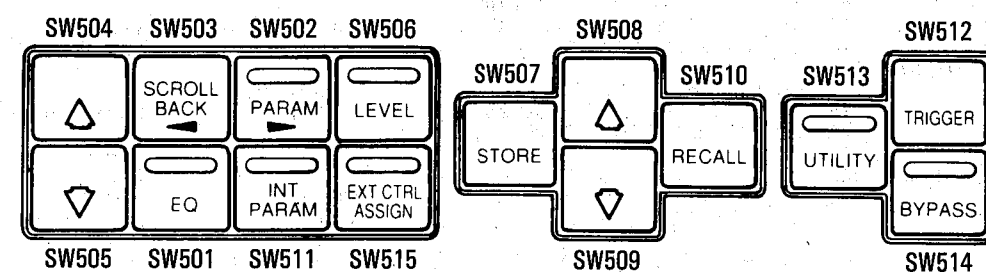
- IC
 - IC101,102,109,110,313: NJM4558DV (IG001390) OP AMP
 - IC103,105,112,114,314: M5238P (XA013001) OP AMP
 - IC104,106: TC4053BP (IG055100) MPX
 - IC107: NJU211D (XC555001) ANALOG SW
 - IC108: NJM4556DE (XA772001) OP AMP
 - IC115: NJM7915A (IG147500) -15V 1A
 - IC116: NJM7815A (IG147400) 15V 1A
 - IC117: NJM79L12A (XE393A00) -12V 0.1A
 - IC119: NJM79L05 (IG130500) -5V 0.1A
 - IC120: NJM78L05A (IG065510) 5V Regulator
 - IC121: PCM78AP (XE394A00) A/D Converter
 - IC122,123: PCM56P (XB637001) D/A Converter
 - IC301: AM26LS31PC (XC570001) LINE DRIVER
 - IC302: TC74HC157P (IR015700) DATA-SEL
 - IC303: TC74HC04 (IG142200) INV
 - IC304,308,407,408: TC74HC163P (IR016300) CNT
 - IC305: TBP28L22N (XF173A00) BPROM 256K
 - IC306: AM26LS32PC (XC571001) LINE RECEIVER
 - IC307,324,329,402: TC74HC04P (IR000400) INV
 - IC309: TC74HC273P (IR027300) D. FF
 - IC310: YM3422 (XE862001) ES1
 - IC311: TC74HC393P (IR039300) CNT
 - IC312: HD63B50P (IG147300) ACIA
 - IC315: TC74HC14P (IR001400) INV
 - IC316: ADC0844CCN (XC521001) A/D Converter
 - IC317: EPL16P8BP 29A (XF029A00) PAL
 - IC318: μ PD43256CL-15 (XC444001) SRAM
 - IC319: EPL16P8BP 30A (XF030A00) PAL
 - IC320: (XF174A00) EPROM 1Mbit
 - IC321: YM3807 (IT380700) MOD
 - IC322: TC74HC08P (IR000800) AND
 - IC323,342,349: TC74HC74P (IR007400) D. FF
 - IC325: TC74HC139P (IR013900) DEC
 - IC326,403: TC74HC174P (IR017400) D. FF
 - IC328,355: TC74HC153P (IR015300) MPX
 - IC331: YM6007 (XF164A00) DSP2
 - IC332: YM6104 (XE788A00) DEQ2
 - IC333: YM3934 (XE798A00) PMM2
 - IC334~340: MB81C4256-10PSZ (XE071A00) RAM 1Mbit
 - IC341: TC74HC374P (IR037400) D. FF
 - IC343,344: TC74HC373P (IR037300) D-LATCH
 - IC345: HD63B03P (IG105200) CPU 8bit
 - IC346: HD63B21P (XB258001) CPU PIA
 - IC350: TC4066BP (IG001270) ANALOG SW
 - IC352,353,404: TC74HC00P (IR000000) NAND
 - IC354: PST518B-2 (IG116200) SYSTEM RESET
 - IC356: TC74HC175P (IR017500) D. FF
 - IC357,358: TC74HC166P (IR016600) SREG
 - IC401: TC74HC123P (IR012300) MONO-FF
 - IC405: SN74LS624N (IG136400) VCO
 - IC406: MC4044 (IG057900) F. DETECT
 - LPF101~104: LP20C9B6 (XC561001) ACTIVE LPF
- Photo Coupler
 - PC301: TLP552 (IK000470)
- Digital Transistor
 - DT302,306~308: DTD143EF (VG387100)
 - DT304,305: DTB143EF (VF072800)
- Transistor
 - Q101,103,303: 2SA 1015 Y (IA101520)
 - Q102,104,302,304,401,402: 2SC 1815 Y (IC181520)
- Transistor Array
 - IC330: BA6212 (VF074800)
 - IC347: TD62506P (IG138700)

- Diode
 - D101,104,105,301~308: 1SS133 (IF003450)
 - D106~109: 11ES4 (VB481900)
- Zener Diode
 - ZD102,103: RD5. 6EB2 5.6V (IF002140)
- Diode Array
 - DA301,303: DAP4 (IF004060)
 - DA302,304: DAN401 25M A4 (IF007640)
- Metal Oxide Film Resistor
 - R153: 150 Ω 1W J (HL315150)
 - R372: 6.8 Ω 1W J (HL313680)
- Resistor Array
 - RM301~306: RMLS8-103J (HZ004730)
- Carbon Composition Resistor
 - R342: 10.0M (HI209990)
- Trimmer Potentiometer
 - VR101, 102: B 20.0K EVN (VA024900) R-CLIP, L-CLIP
 - VR103, 104: B 3.0K 3P EVN (VB135200) R-GAIN, L-GAIN
 - VR105: B 200.0K 3P EVN (VE463700) MSB
 - VR106: B 30.0K 3P EVN (VB135500) OFFSET
- Semiconductive Cera. Cap
 - 0.1 μ F 16 Z (FZ004110)
- Ceramic Resonator
 - X301: 11.2896M (VD119200)
 - X302: 8.00M CSA8.00MT (QU008500)
- EMI Filter
 - EMI101~106,111,112,301~305,311,401: LS MT Y223NB (FZ005920)
- Noise Filter DIP
 - L301,302: D-08C2 (VA928400)
- Coil
 - L101~112,303~307: FL5R200QNT 20 μ (VB835000)
- Push Switch
 - SW101~104: SUJ (VA025500)
- Relay
 - RY101: DC RY12W (KC001900) 12V
- Phone Jack
 - JK101~108: HLJ0520 (LB202600)
- DIN Jack
 - DN301,302: 8P TCS4680 (LB605820) DIGITAL I/O
 - D303,304: 5P SK0266 2 (VF342200) MIDI
- Lithium Battery
 - B301: CR 2032-P5-2 (VB436900)

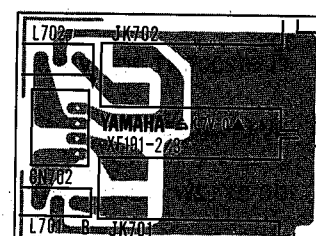
• FP 1/3 Circuit Board



Components side (部品側)



• FP 2/3 Circuit Board



Components side (部品側)

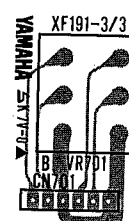
2
EXT CTRL/
FOOT VOL

1

Notes)

- * Circuit Board FP 2/3 (VG068100) XF191B0
- 1. Coil L701,702: FL5R200QN 20U (VB971100)
- 2. Phone Jack JK701,702: HLJ0520 (LB202300) EXT CTRL/FOOT VOL

• FP 3/3 Circuit Board



Components side (部品側)

INPUT L — R

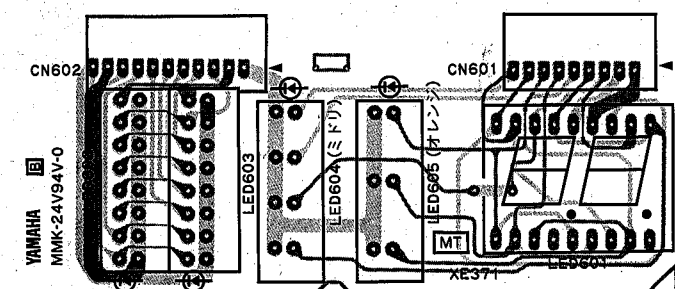
Notes)

- * Circuit Board FP 3/3 (VG068100) XF191B0
- 1. Variable Resistor VR701: A10.0K x 2 RK161222 (VD979800) INPUT

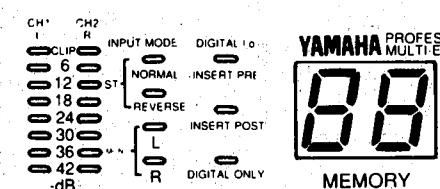
Notes)

- * Circuit Board FP 1/3 (VG068100) XF191B0
- 1. Diode D501 ~ 515: 1SS133 (IF003450)
- 2. LED LED501 ~ 507: GL1HD212 (VG149600) RED
- 3. Push Switch SW501 ~ 515: KHH10908 (KA907030)

• MT Circuit Board



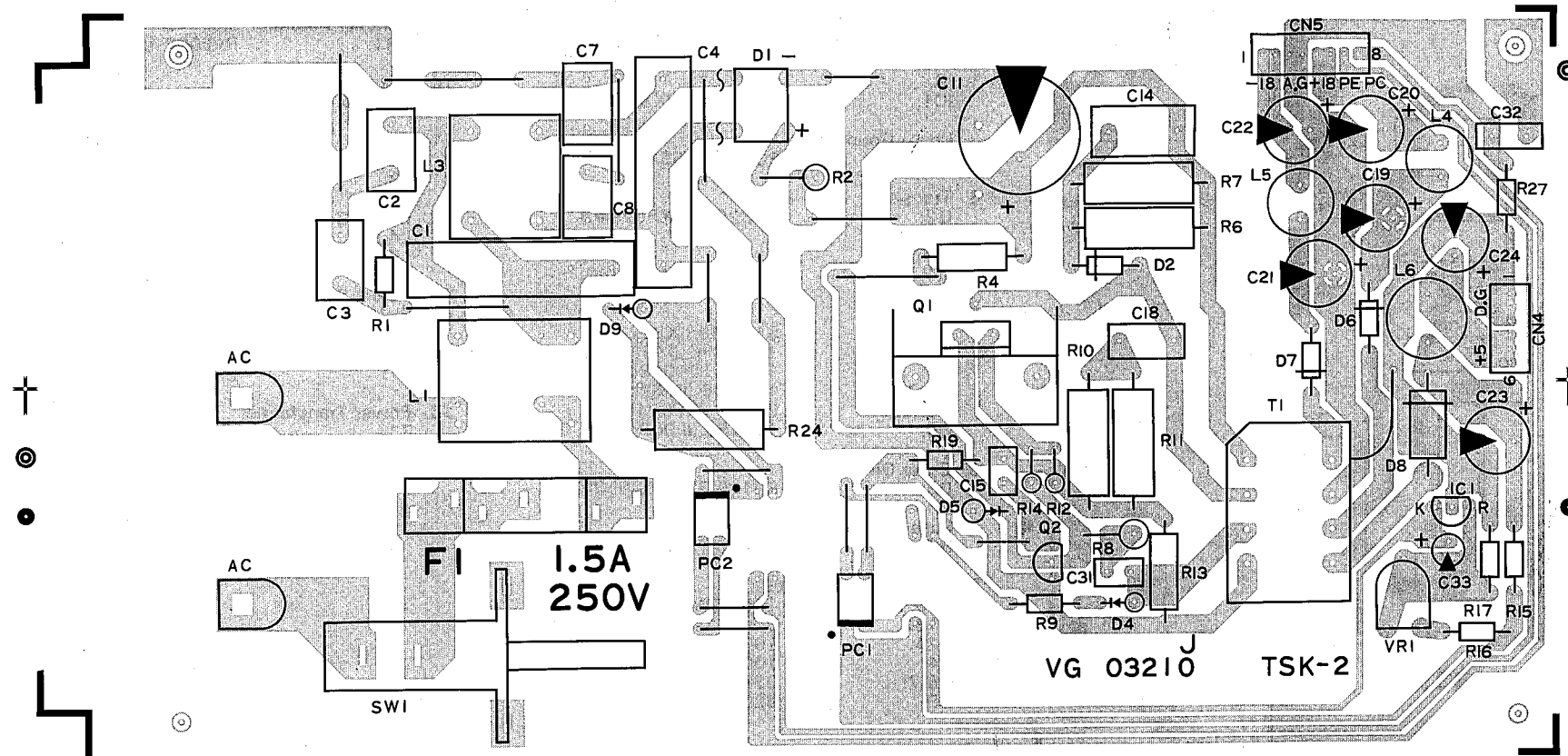
Components side (部品側)



Notes)

- * Circuit Board MT (VF071500) XE371B0
- 1. LED Display LED601: SX-25J (VA039100) MEMORY
- LED602,603: LN526RK (VD118900) Meter
- LED604: SX-25T Green (VG150100) INPUT MODE
- LED605: SX-25U Orange (VG150000) DIGITAL I/O

• PS Circuit Board (Japanese Model)



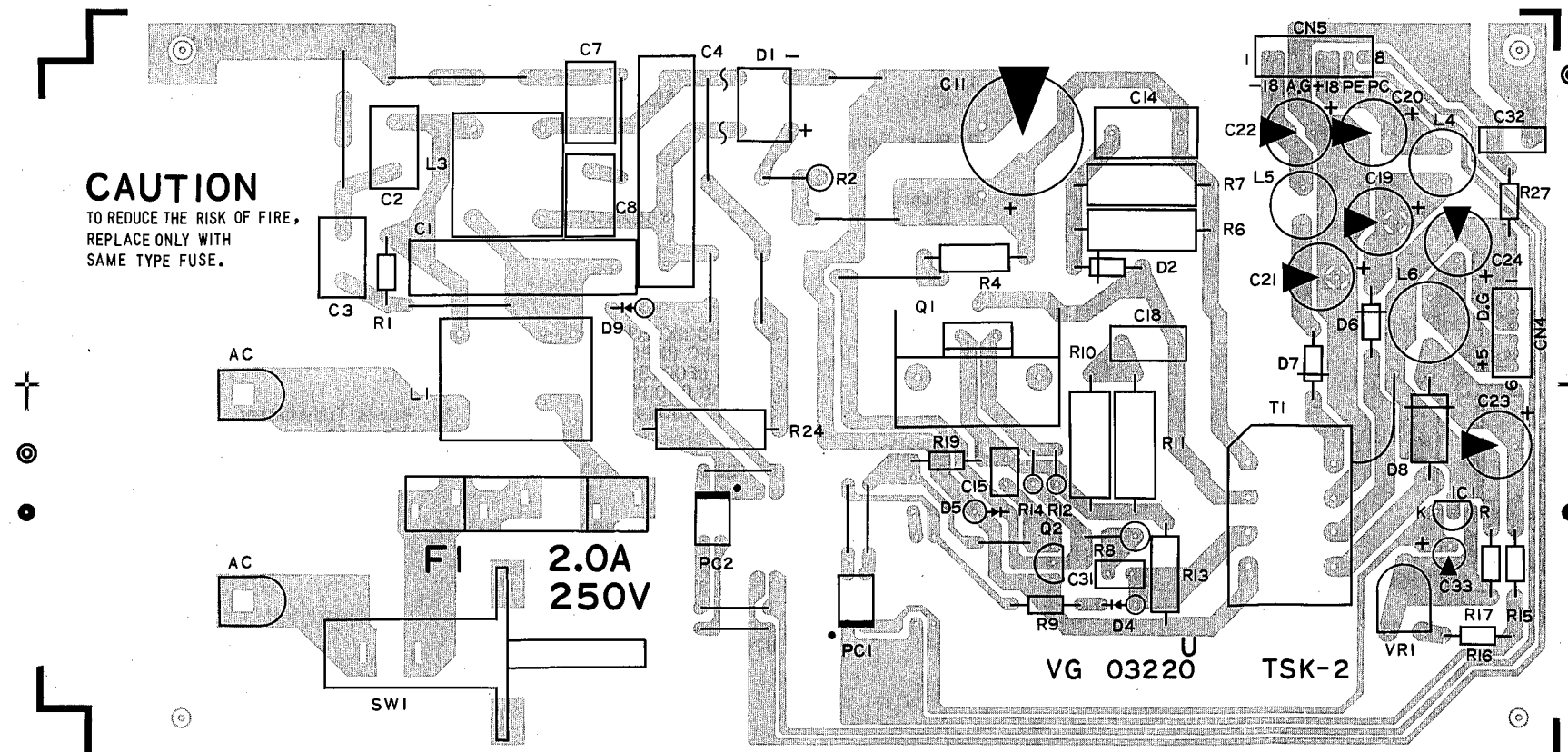
Notes

- * Circuit Board PS (VG032100)
- IC
IC1: μ PC1093J (IX801910) Regulator
 - Photo Coupler
PC1,2: PC817 (IX551630)
 - Transistor
Q2: 2SC2655 (IX552940)
 - FET
Q1: 2SK1153 (IX803780)
 - Diode
D1: S1WB40 (IX802160)
D2: 10DF6-FC (IX803800)
D4: 1SS84 (IF001380)
D6,7: 11DQ06 (IH001530)
D8: 31DF1 (IX802480)
D9: 1S1555 (IF000460)
 - Zener Diode
D5: RD12E B3 (IF006500)
 - Metal Oxide film Resistor
R10,11: 150 Ω 2W (HL325150)
R13: 0.82 Ω 1W (HX804120)
R2: 6.8 Ω 3W (HX804110)
R24: 100K Ω 2W (HL328100)
R4: 100K Ω 1W (HL318100)
R6,7: 33K Ω 2W (HL327330)
R8: 82 Ω 0.5W (HX804130)

- Trimmer Potentiometer
VR1: RVF08P 1K Ω B (HX804140)
- Electrolytic Cap
C23,24: 1000 μ F 10V (FX550550)
- Coil
L1:
L3: NFR5E203A (GX801470)
NFR6UA103 (GX801490)
- Choke Coil
L4,5:
L6: FL9H470-40 (GX801500)
FL11Z180K-60 (GX801510)
- Power Switch
SW1: ESB8213V (KX801240)
- Fuse
F1: 1.5A 250V (LX800830)
- Power Transformer
T1: TMA019 (GX801520)

Components side (部品側)

• PS Circuit Board (U.S. Model)

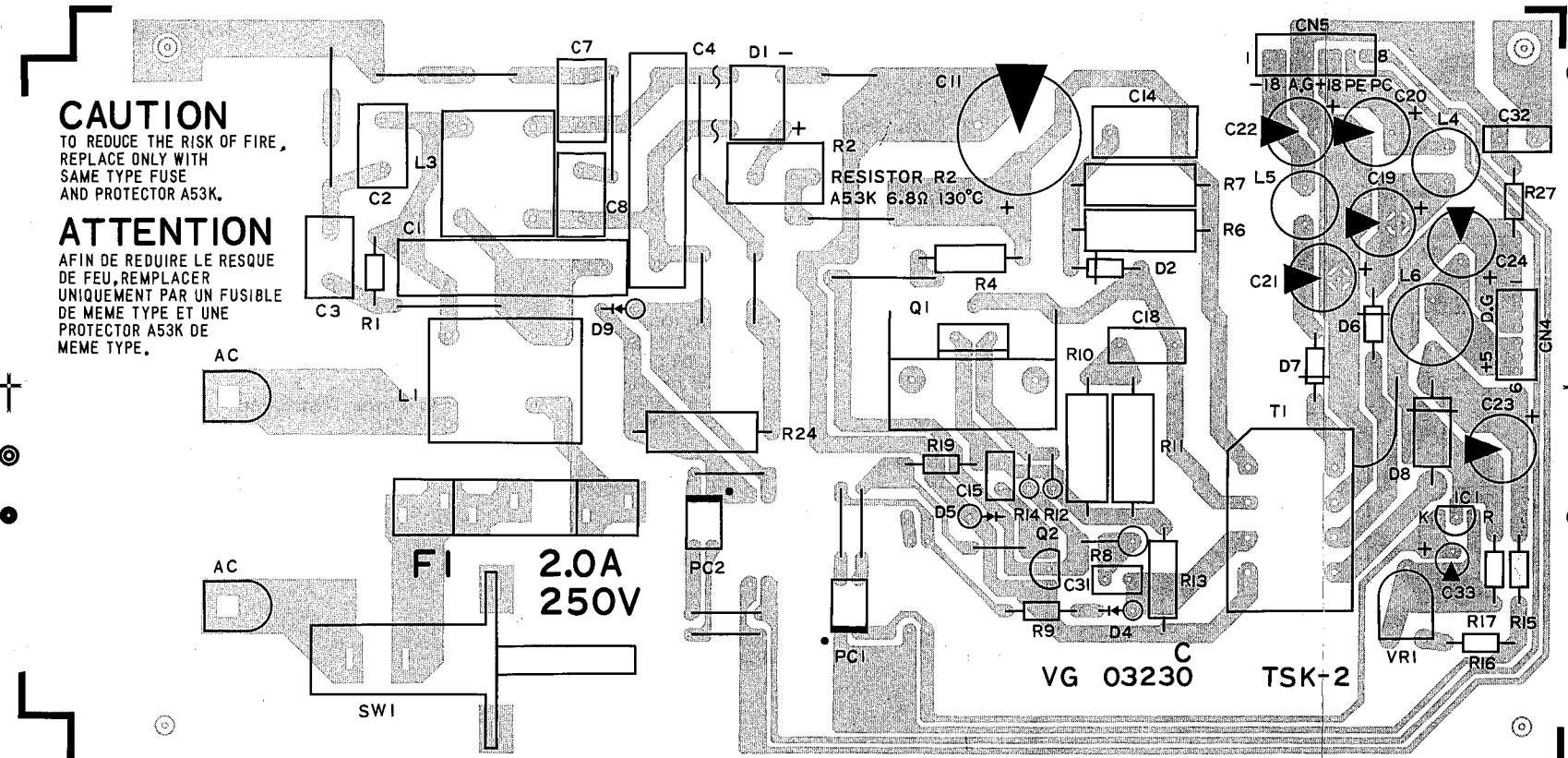


Notes

- * Circuit Board PS (VG032200)
- IC
IC1: μ PC1093J (IX801910) Regulator
 - Photo Coupler
PC1,2: PC817 (IX551630)
 - Transistor
Q2: 2SC2655 (IX552940)
 - FET
Q1: 2SK1153 (IX803790)
 - Diode
D1: S1WB40 (IX802160)
D2: 10DF6-FC (IX803800)
D4: 1SS84 (IF001380)
D6,7: 11DQ06 (IH001530)
D8: 31DF1 (IX802480)
D9: 1S1555 (IF000460)
 - Zener Diode
D5: RD12E B3 (IF006500)
 - Metal Oxide film Resistor
R10,11: 150 Ω 2W (HL325150)
R13: 0.82 Ω 1W (HX804120)
R2: 6.8 Ω 3W (HX804110)
R24: 100K Ω 2W (HL328100)
R4: 100K Ω 1W (HL318100)
R6,7: 33K Ω 2W (HL327330)
R8: 82 Ω 0.5W (HX804130)

- Trimmer Potentiometer
VR1: RVF08P 1K Ω B (HX804140)
- Electrolytic Cap
C23,24: 1000 μ F 10V (FX550550)
- Coil
L1:
L3: NFR5E203A (GX801470)
NFR6UA103 (GX801490)
- Choke Coil
L4,5:
L6: FL9H470-40 (GX801500)
FL11Z180K-60 (GX801510)
- Power Switch
SW1: ESB8213V (KX801240)
- Fuse
F1: 2.0A 250V ST4 (LX800870)
- Power Transformer
T1: TMA019 (GX801520)

• PS Circuit Board (Canadian Model)



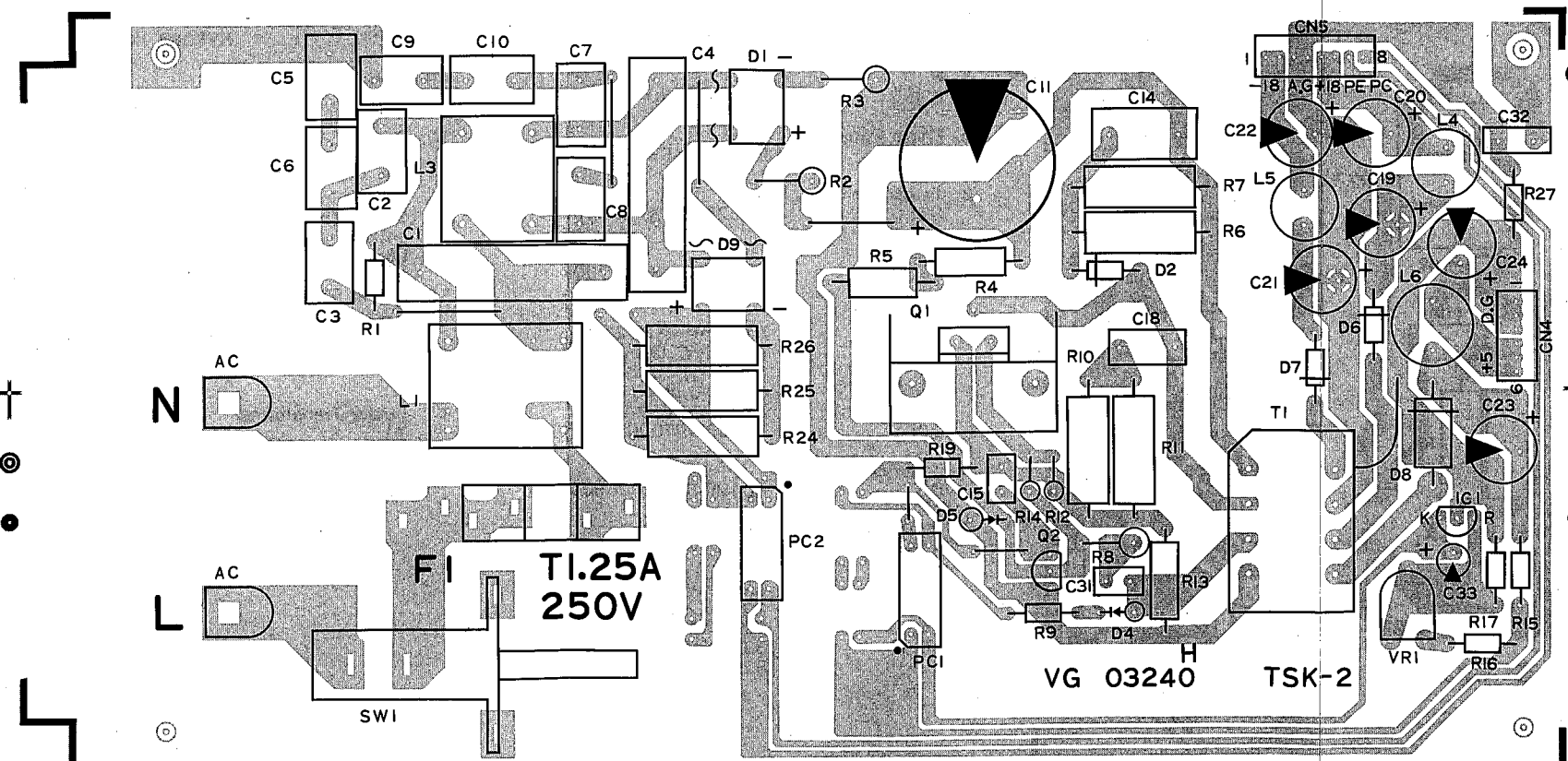
Notes)

- * Circuit Board PS (VG032300)
- 1. IC
IC1: μ PC1093J (IX801910) Regulator
- 2. Photo Coupler
PC1,2: PC817 (IX551630)
- 3. Transistor
Q2: 2SC2655 (IX552940)
- 4. FET
Q1: 2SK1153 (IX803780)
- 5. Diode
D1: S1WB40 (IX802160)
D2: 10DF6-FC (IX803800)
D4: 1SS84 (IF001380)
D6,7: 11DQ06 (IH001530)
D8: 31DF1 (IX802480)
D9: 1S1555 (IF000460)
- 6. Zener Diode
D5: RD12E B3 (IF006500)
- 7. Fuse Resistor
R2: 6.8 Ω 5W (HX804100)
- 8. Metal Oxide film Resistor
R10,11: 150 Ω 2W (HL325150)
R13: 0.82 Ω 1W (HX804120)
R24: 100K Ω 2W (HL328100)
R4: 100K Ω 1W (HL318100)
R6,7: 33K Ω 2W (HL327330)
R8: 82 Ω 0.5W (HX804130)

- 9. Trimmer Potentiometer
VR1: RVF08P 1K Ω B (HX804140)
- 10. Electrolytic Cap
C23,24: 1000 μ F 10V (FX550550)
- 11. Coil
L1: NFR5E203A (GX801470)
L3: NFR6UA103 (GX801490)
- 12. Choke Coil
L4,5: FL9H470-40 (GX801500)
L6: FL11Z180K-60 (GX801510)
- 13. Power Switch
SW1: ESB8213V (KX801240)
- 14. Fuse
F1: 2.0A 250V ST4 (LX800870)
- 15. Power Transformer
T1: TMA019 (GX801520)

Components side (部品側)

• PS Circuit Board (North European Model)



Notes)

- * Circuit Board PS (VG032400)
- 1. IC
IC1: μ PC1093J (IX801910) Regulator
- 2. Photo Coupler
PC1,2: PC511 (IX800710)
- 3. Transistor
Q2: 2SC2655 (IX552940)
- 4. FET
Q1: 2SK513 (IX803790)
- 5. Diode
D1,9: S1WB60 (IX553900)
D2: 10DF6-FC (IX803800)
D4: 1SS84 (IF001380)
D6,7: 11DQ06 (IH001530)
D8: 31DF1 (IX802480)
- 6. Zener Diode
D5: RD12E B3 (IF006500)
- 7. Metal Oxide Resistor
R10,11: 330 Ω 2W (HL325330)
R13: 2.2 Ω 1W (HL313220)
R2,3: 6.8 Ω 3W (HX804110)
R24~26: 100K Ω 2W (HL328100)
R4,5: 100K Ω 1W (HL318100)
R6,7: 68K Ω 2W (HL327680)
R8: 82 Ω 0.5W (HX804130)

- 8. Trimmer Potentiometer
VR1: RVF08P 1K Ω B (HX804140)
- 9. Electrolytic Cap
C23,24: 1000 μ F 10V (FX550550)
- 10. Coil
L1: LUMR3403 (GX801480)
L3: NFR6UA103 (GX801490)
- 11. Choke Coil
L4,5: FL9H470-40 (GX801500)
L6: FL11Z180K-60 (GX801510)
- 12. Power Switch
SW1: ESB8213V (KX801240)
- 13. Fuse
F1: 1.25A 250V (LX800880)
- 14. Power Transformer
T1: TMA018 (GX801530)

Components side (部品側)