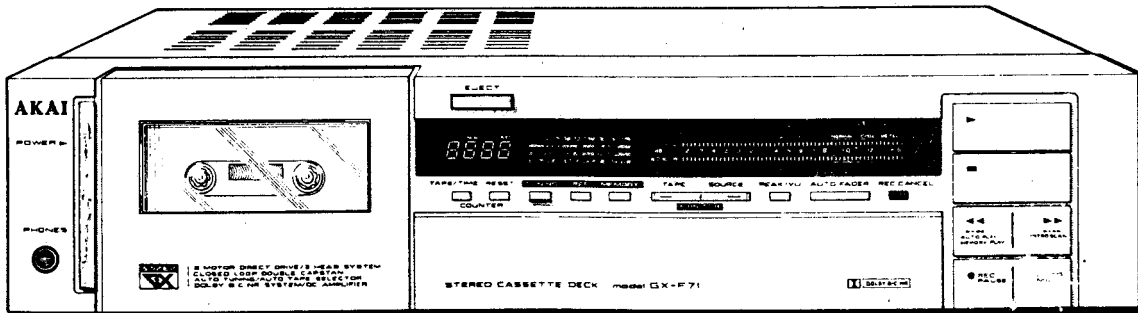
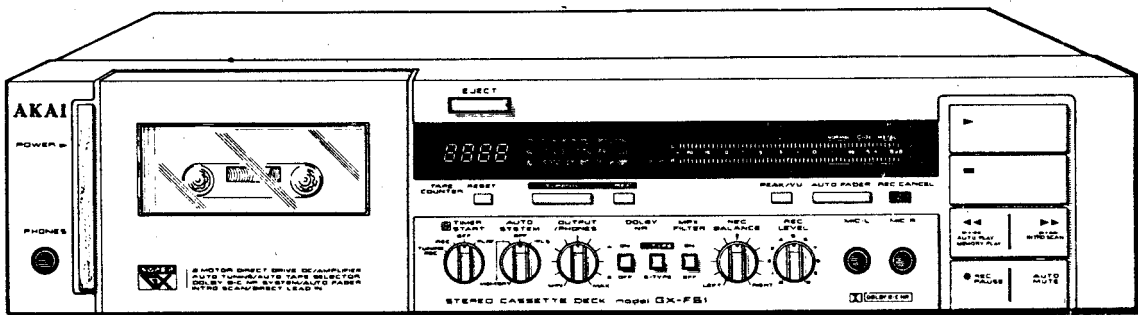
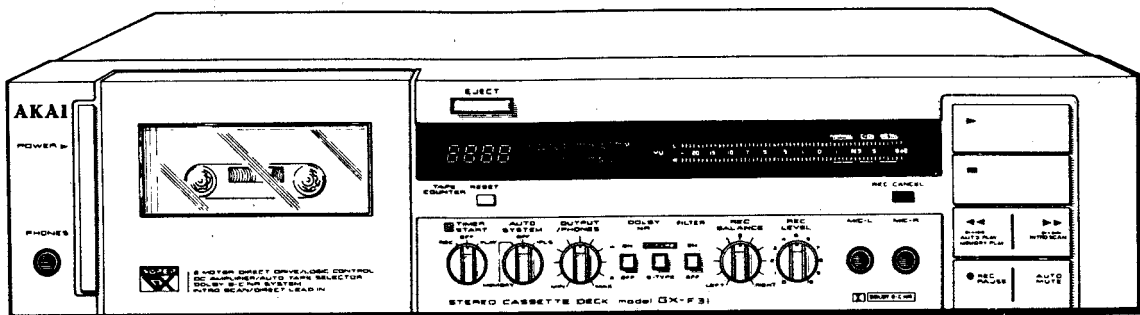


Spare Parts

13.582

GX-F31  
GX-F51

# AKAI SERVICE MANUAL



STEREO CASSETTE DECK

MODEL **GX-F31**

MODEL **GX-F51**

MODEL **GX-F71**

*RTV servis Horvat*

Kešinci, 31402 Semeljci

Tel : 031-856-637

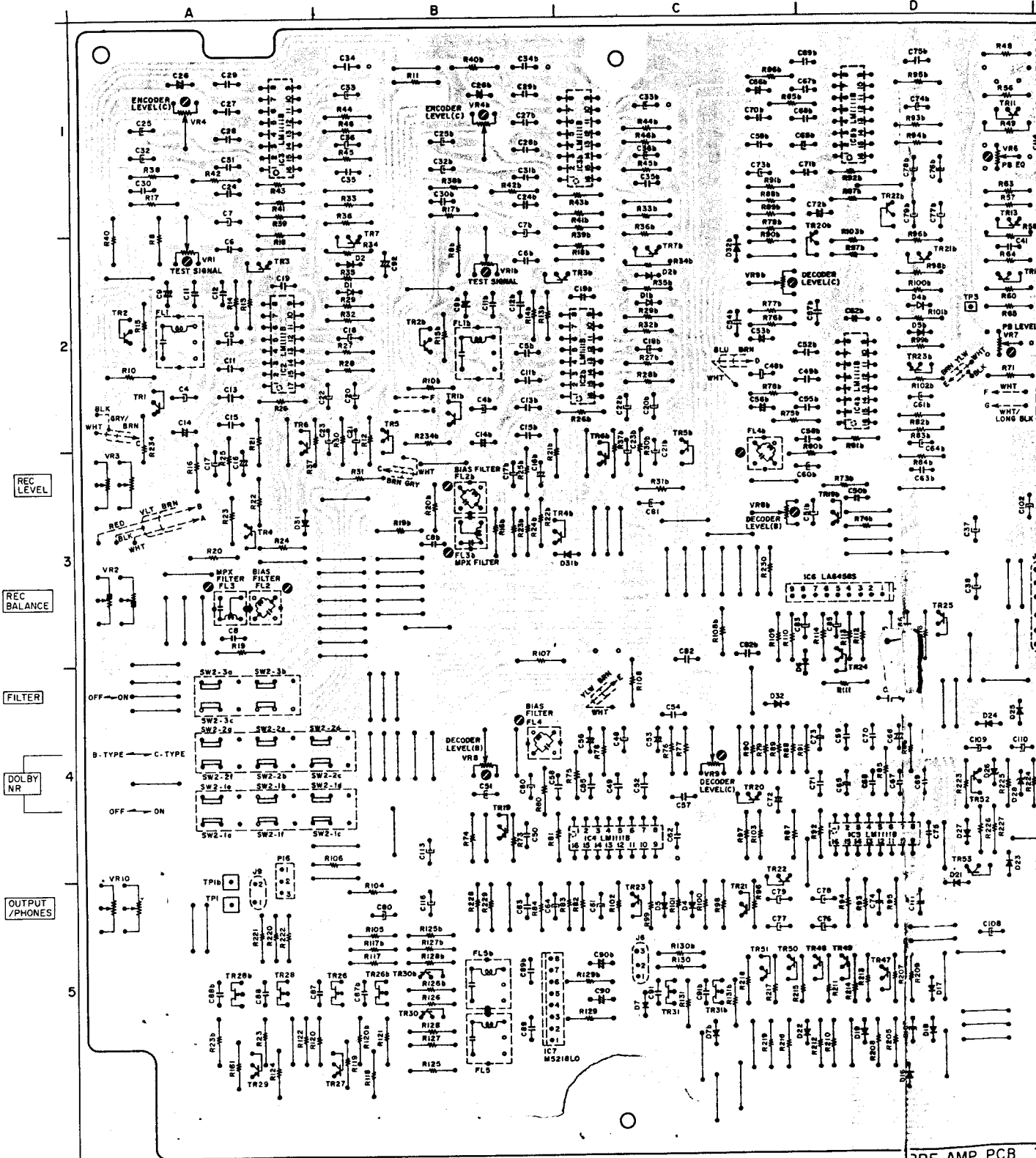
Tel / fax : 031-856-139

Mob : 098-788-319

[rtv-servis-horvat@os.tel.hr](mailto:rtv-servis-horvat@os.tel.hr)

# COMPOSITION OF VARIOUS P.C BOARDS

## 1) PRE AMP P.C BOARD T2032A501(2ED) and PHONE JACK P.C BOARD T2032A501B



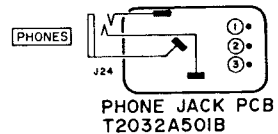
REC LEVEL

REC BALANCE

FILTER

DOLBY NR

OUTPUT /PHONES

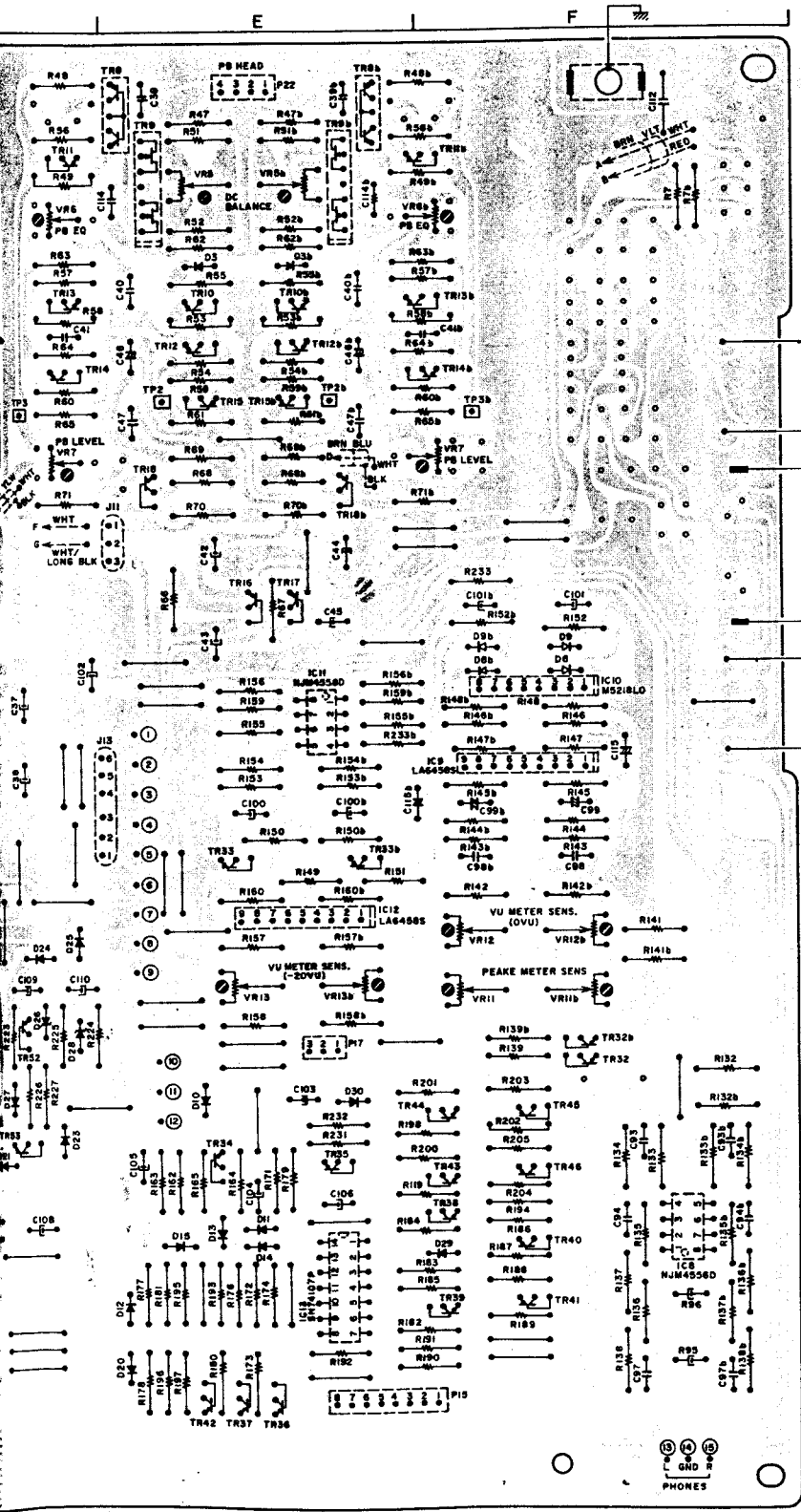


PHONE JACK PCB  
T2032A501B

- TR1 to 7, 19 to 25, 27, 29, 30, 32  
34 to 39, 42 to 44, 47 to 50, 52
- TR8 ----- 25C260(E,F)
- TR9 ----- 25A995(E,F)
- TR10,12 ----- 25K170(GR,BL)
- TR11 ----- 25C1843(E,F)
- TR13,14,16 ----- 25C2320(E,F)
- TR15 ----- 25A999(E,F)
- TR16 ----- 25D1012-V(F,G)
- TR17 ----- 25B808-V(F,G)
- TR26, 28 ----- 25K170(BL,V)
- TR31 ----- 25K117(GR,BL)
- TR33, 40, 41, 45  
46, 51, 53 ----- 25A1115(E,F)

- E C B
- E C B
- D O S
- E C B C E
- 0- 61 51 Sub 52 62 04
- 25A990
- 25A999
- 25C1843
- 25C2320
- 25A1115
- 25B808
- 25C1843
- 25C2603
- 25D1012

PRE AMP PCB



LOCATION OF COMPONENTS

IC

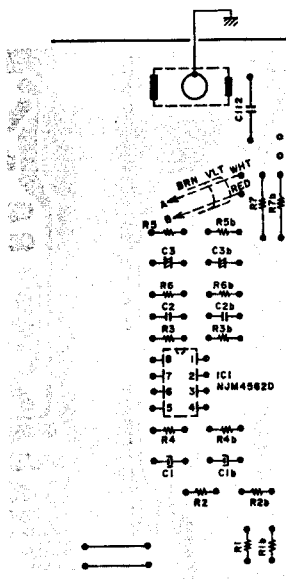
- IC2 ----- A2
- IC2b ----- C2
- IC3 ----- A1
- IC3b ----- C1
- IC4 ----- C4
- IC4b ----- D2
- IC5 ----- D4
- IC5b ----- D1
- IC6 ----- D3
- IC7 ----- B5
- IC8 ----- F5
- IC9, 10 ----- F3
- IC11 ----- E3
- IC12 ----- E4
- IC13 ----- E5

TR

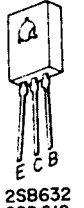
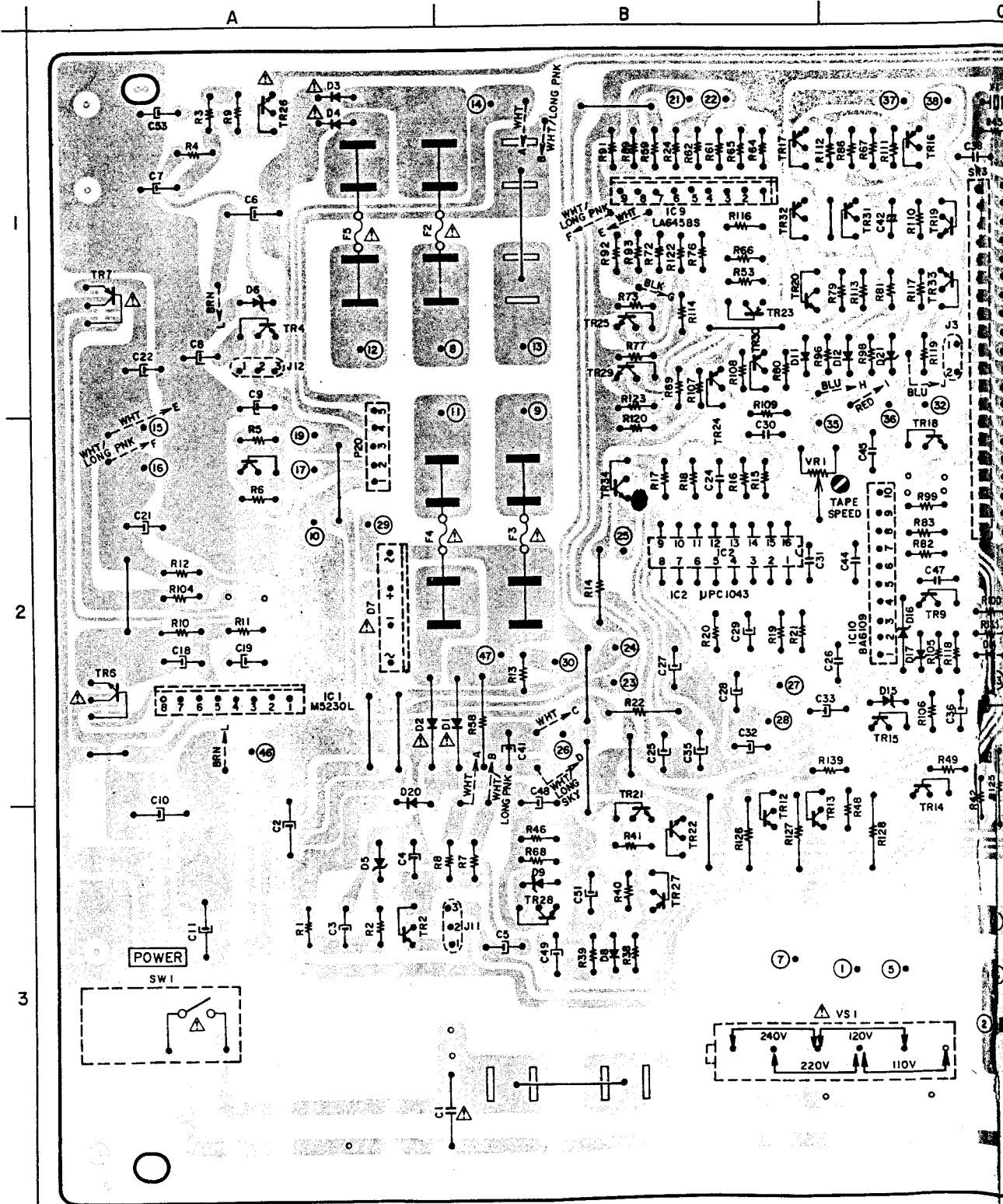
- TR1 to 3 ----- A2
- TR1b to 3b ----- B2
- TR4 ----- A3
- TR4b ----- B3
- TR5 ----- B2
- TR6 ----- A2
- TR7 ----- B1
- TR8b to 7b ----- C2
- TR8 to 10, Bb to 10b ----- E1
- TR11 ----- D1
- TR11b ----- E1
- TR12, 12b ----- E2
- TR13 ----- D1
- TR13b ----- E1
- TR14 ----- D2
- TR14b ----- E2
- TR15, 15b ----- E2
- TR16, 17 ----- E3
- TR18, 18b ----- E2
- TR19 ----- B4
- TR19b ----- D3
- TR20 ----- C4
- TR21 ----- C5
- TR20b, 21b ----- D2
- TR22 ----- C4
- TR22b ----- D1
- TR23 ----- C5
- TR23b ----- D2
- TR24, 25 ----- D3
- TR26, 26b, 27 ----- B5
- TR28, 28b, 29 ----- A4
- TR30, 30b ----- B5
- TR31, 31b ----- C5
- TR32, 32b ----- F4
- TR33, 33b ----- E3
- TR34 to 37 ----- E5
- TR38, 39 ----- F5
- TR40, 41 ----- F5
- TR42 ----- E5
- TR43 ----- F5
- TR44, 45 ----- F4
- TR45 ----- F5
- TR47 to 49 ----- D5
- TR50, 51 ----- C5
- TR52, 53 ----- D4

TERMINAL

- ① to ⑤ ----- E3
- ⑥ to ⑩ ----- E4
- ⑪ to ⑮ ----- E5
- P15 ----- E5
- P16 ----- A4
- P17 ----- E4
- J6 ----- C5
- J9 ----- A4
- J11 ----- D1
- J13 ----- D3

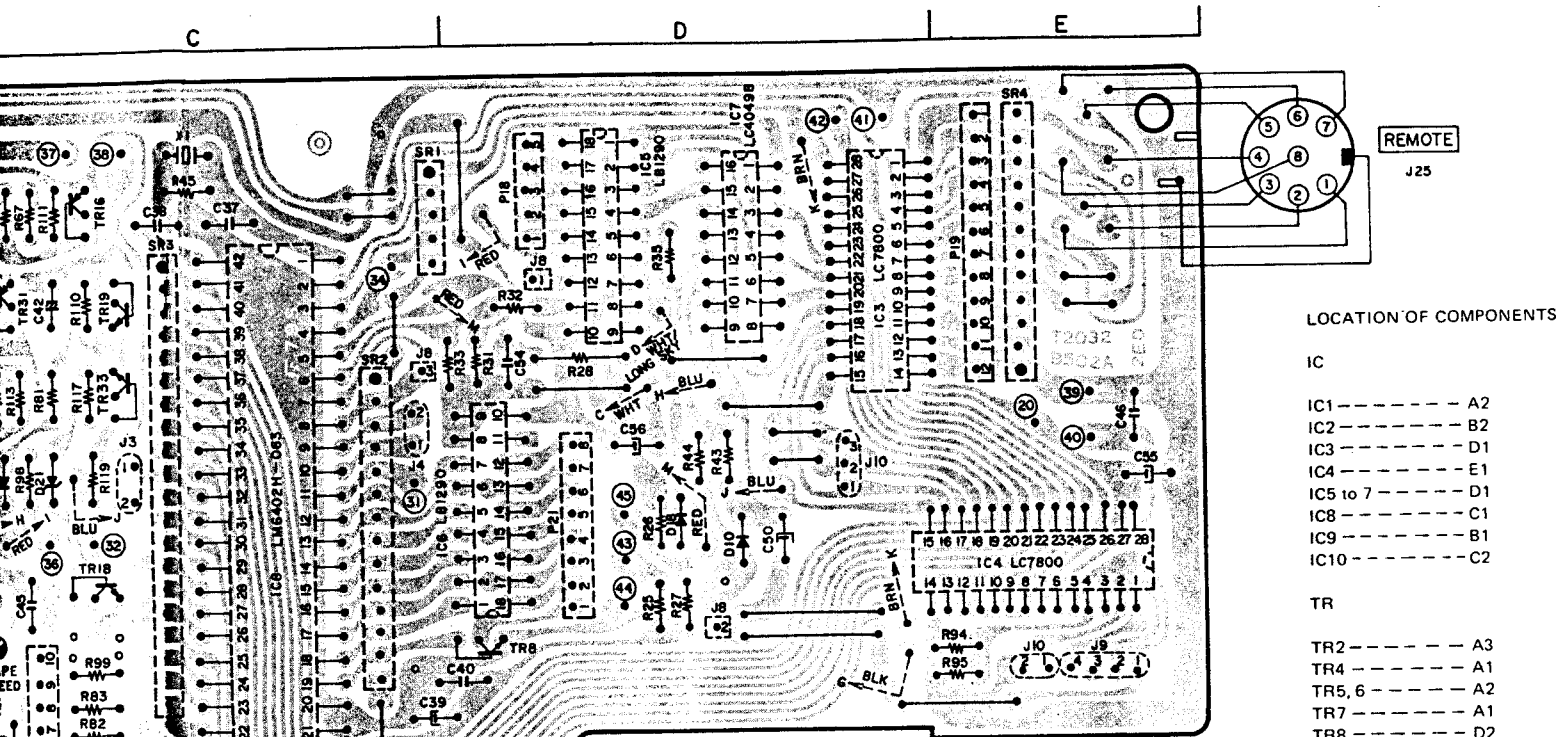


2) SYSCON P.C BOARD T2032B502A (2ED), SWITCH P.C BOARD T2032B502B, TR P.C BOARD (A) T2032B502C



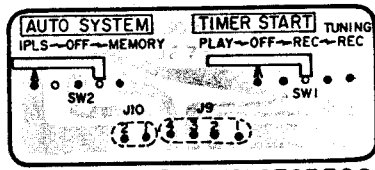
WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS  
REPLACE SAFETY CRITICAL COMPONENTS WITH RECOMMENDED PARTS  
AVERTISSEMENT: Δ IL INDIQUE LE DEGRÉ DE SECURITE DE CERTAINS COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE  
REPLACEZ LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE PAR DES PIÈCES RECOMMANDÉES

D (A) T2032B502C and TR P.C BOARD (B) T2032B502D



SYSCON PCB T2032B502A

- TR1,6 -----2SD612K (E, F)
- TR2,4,26,28,34 -----2SC945L (P, Q)
- TR3,7 -----2SB632K (E, F)
- TR5,18 -----2SD863 (E, F)
- TR8,9,15,20 to 25,29,33 -----2SC2603 (E, F)
- TR10 to 14,19,20 -----2SD1012 V (G, H)
- TR16,17,31,32 -----2SB808 -VIG, H)
- TR27,30 -----2SA733 (P, Q)



SWITCH PCB T2032B502B

LOCATION OF COMPONENTS

- IC
- IC1 ----- A2
  - IC2 ----- B2
  - IC3 ----- D1
  - IC4 ----- E1
  - IC5 to 7 ----- D1
  - IC8 ----- C1
  - IC9 ----- B1
  - IC10 ----- C2

- TR
- TR2 ----- A3
  - TR4 ----- A1
  - TR5,6 ----- A2
  - TR7 ----- A1
  - TR8 ----- D2
  - TR9 to 11 ----- C2
  - TR12,13 ----- B2
  - TR14,15 ----- C2
  - TR16 ----- C1
  - TR17 ----- B1
  - TR18 ----- C2
  - TR19 ----- C1
  - TR20 ----- B1
  - TR21 ----- B2
  - TR22 ----- B3
  - TR23 to 25 ----- B1
  - TR26 ----- A1
  - TR27,28 ----- B3
  - TR29,30 ----- B1
  - TR31 ----- C1
  - TR32 ----- B1
  - TR33 ----- C1
  - TR34 ----- B2

TR PCB(A) T2032B502C

TR PCB(B) T2032B502D

TERMINAL

- ① to ⑥ ----- C3
- ⑦ ----- B3
- ⑧, ⑨ ----- B1
- ⑩ ----- A2
- ⑪ ----- B1
- ⑫ ----- A1
- ⑬, ⑭ ----- B1
- ⑮ ----- A1
- ⑯ ----- A2
- ⑰ ----- A1
- ⑱ ----- E1
- ⑳ ----- B1
- ㉑ to ㉒ ----- B2
- ㉓ ----- A2
- ㉔ ----- B2
- ㉕, ㉖ ----- C1
- ㉗ ----- C2
- ㉘ to ㉙ ----- C1
- 39, 40 ----- E1
- 41 to 43 ----- D1
- 44 ----- D2
- 45 ----- D1
- 46 ----- A2
- 47 ----- B2
- P18 ----- D1
- P19 ----- E1
- P20 ----- A2
- P21 ----- D1
- J3, 4 ----- C1
- J8-1 ----- D1
- J8-2 ----- D2
- J8-3 ----- C1
- J9, 10 ----- E2
- J10 ----- D1
- J11 ----- B3
- J12 ----- A1

SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR OBTENIR LE DEGRÉ DE SÛRETÉ DE L'APPAREIL, NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SÛRETÉ QUE PAR DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

### 3) TUNING P.C BOARD T2032B5030 (2ED)

#### LOCATION OF COMPONENTS

##### IC

IC1	-----	A1
IC2	-----	B2
IC3	-----	C2
IC3b	-----	C3
IC4	-----	E2
IC5, 6	-----	B2

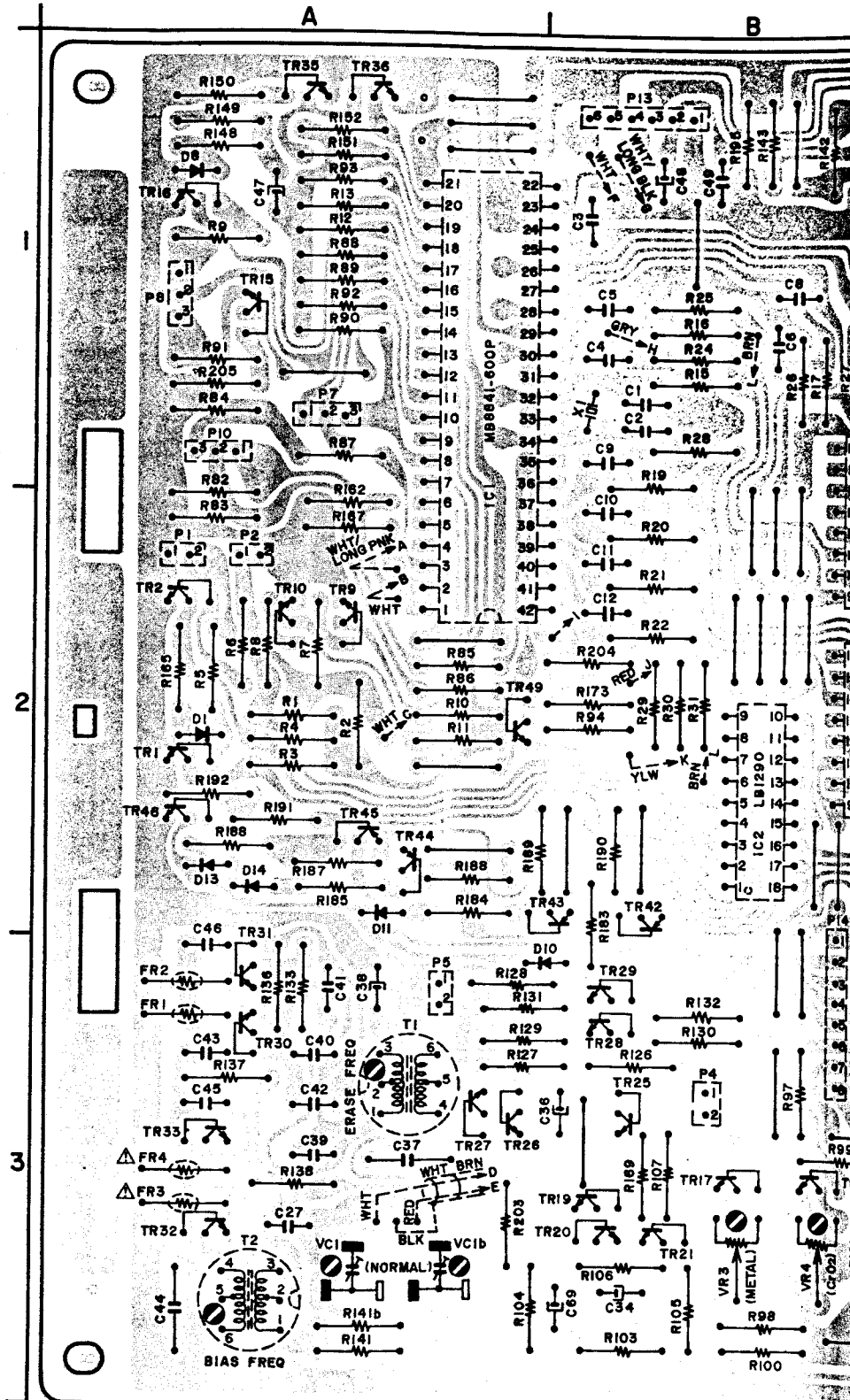
##### TR

TR1, 2	-----	A2
TR3	-----	E3
TR3b	-----	E2
TR4 to 7	-----	D1
TR8	-----	E1
TR9, 10	-----	A2
TR11 to 14,		
12b to 14b	-----	D3
TR15, 16	-----	A1
TR17 to 21	-----	B3
TR22	-----	E2
TR23, 24	-----	E1
TR25	-----	B3
TR26, 27	-----	A3
TR28, 29	-----	B3
TR30 to 33	-----	A3
TR34	-----	B1
TR35, 36	-----	A1
TR37, 38	-----	C1
TR39	-----	D1
TR40	-----	B1
TR41	-----	C1
TR42, 43	-----	B2
TR44 to 46	-----	A2
TR47, 47b, 48,		
48b	-----	D2
TR49	-----	A2

##### TERMINAL

P1, 2	-----	A2
P3	-----	E1
P4	-----	B3
P5	-----	A3
P6	-----	E1
P7, 8	-----	A1
P9	-----	E2
P10	-----	A1
P11	-----	C1
P12	-----	D3
P13	-----	B1
P14	-----	B3

TR1, 2, 4 to 10, 12 to 18, 20 to 26, 28, 29	
34 to 41, 46 to 49	--2SC2603(F, G)
TR 3	----2SD1012(V,F, G)
TR11	----2SC1061(B, C)
TR19, 27	----2SD612K(E, F)
TR30 to 33	----2SC2274K(F)
TR42 to 45	----2SA1115(E, F)



2SA1115  
2SC2603  
2SD1012



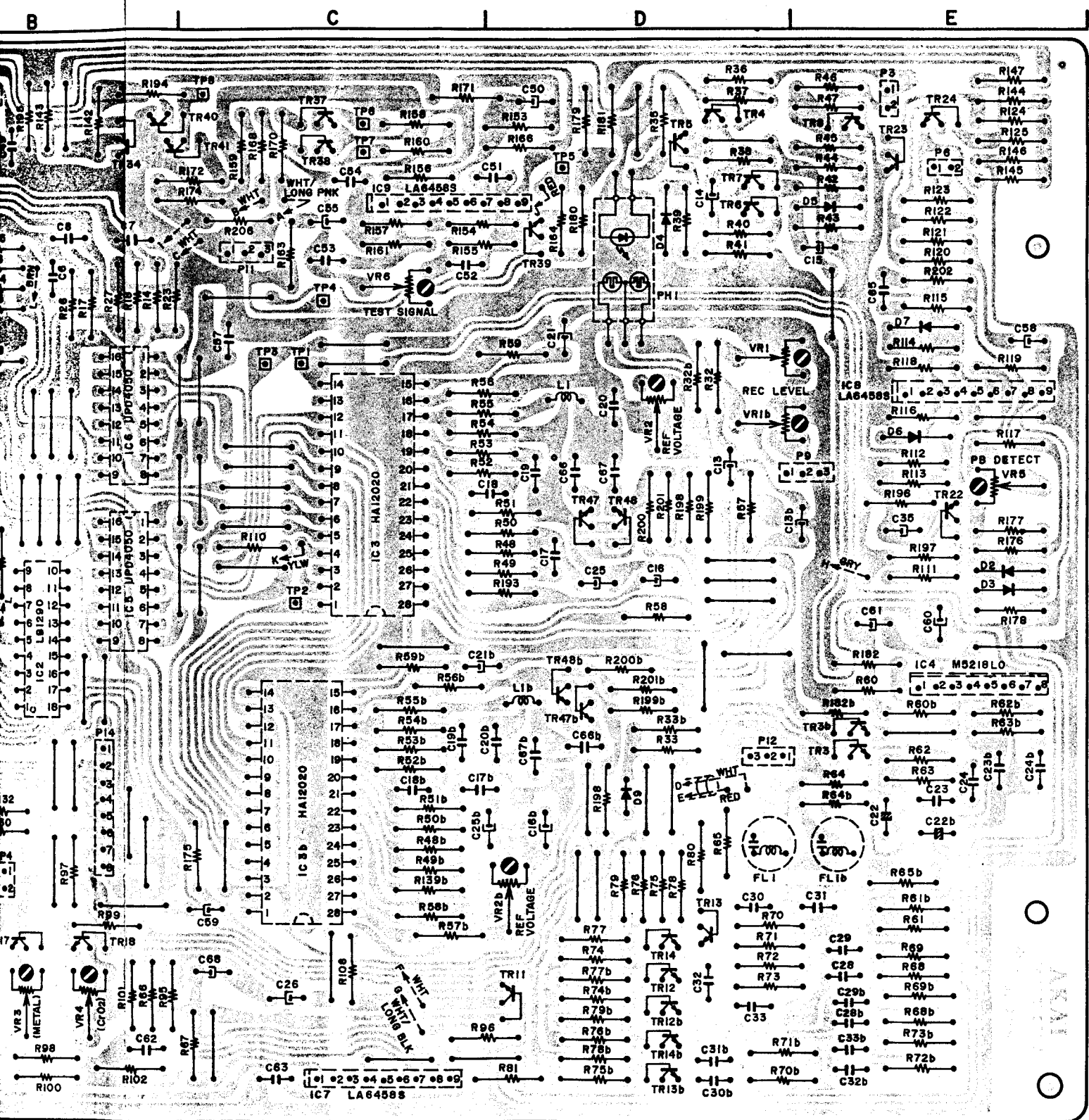
2SC2274



2SD612



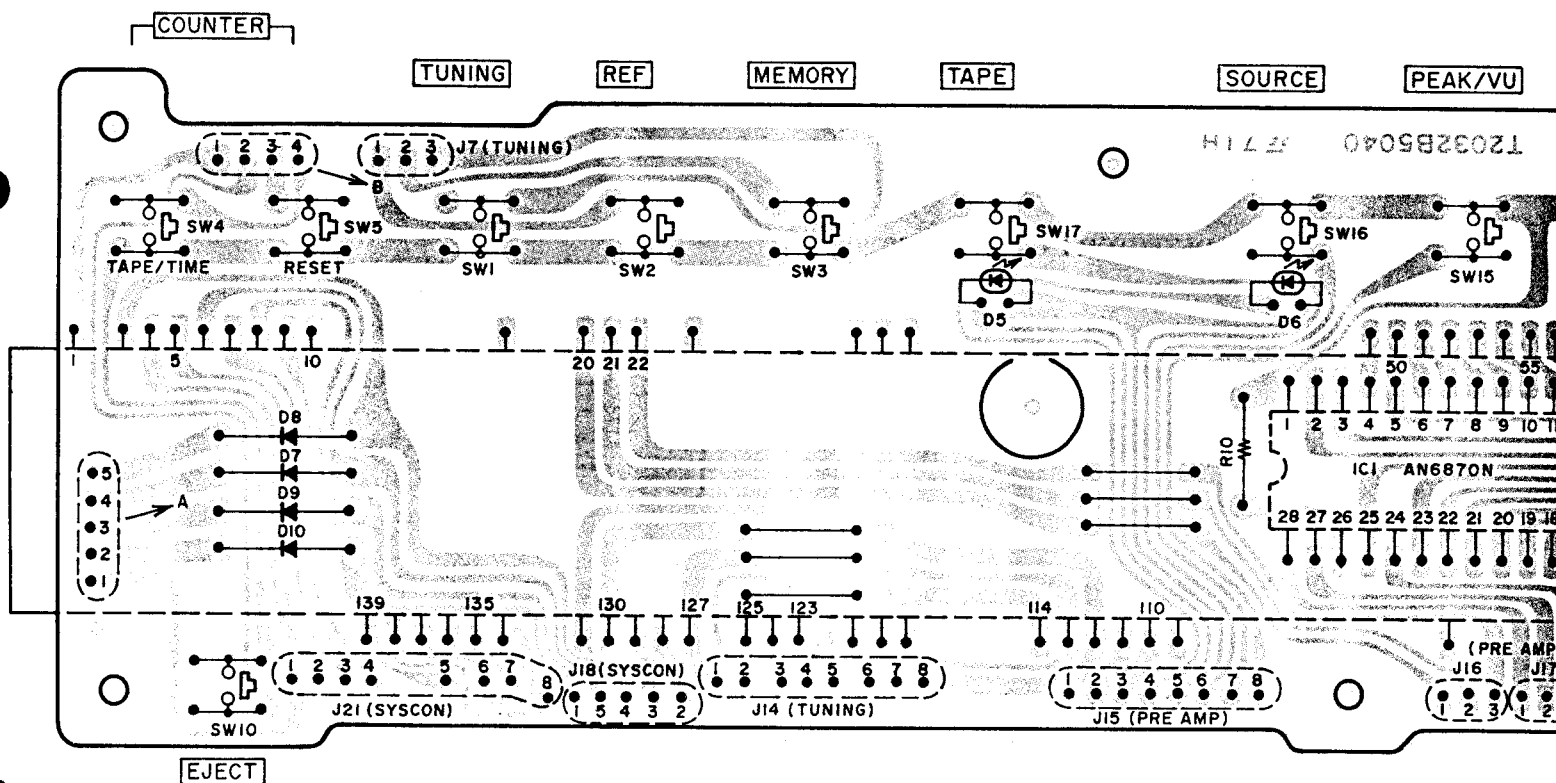
2SC1061



WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRÉ DE SÛRETÉ DE L'APPAREIL, NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SÛRETÉ QUE PAR DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

4) METER P.C BOARD T2032B5040



**RTV servis Horvat**

Kešinci, 31402 Semeljci

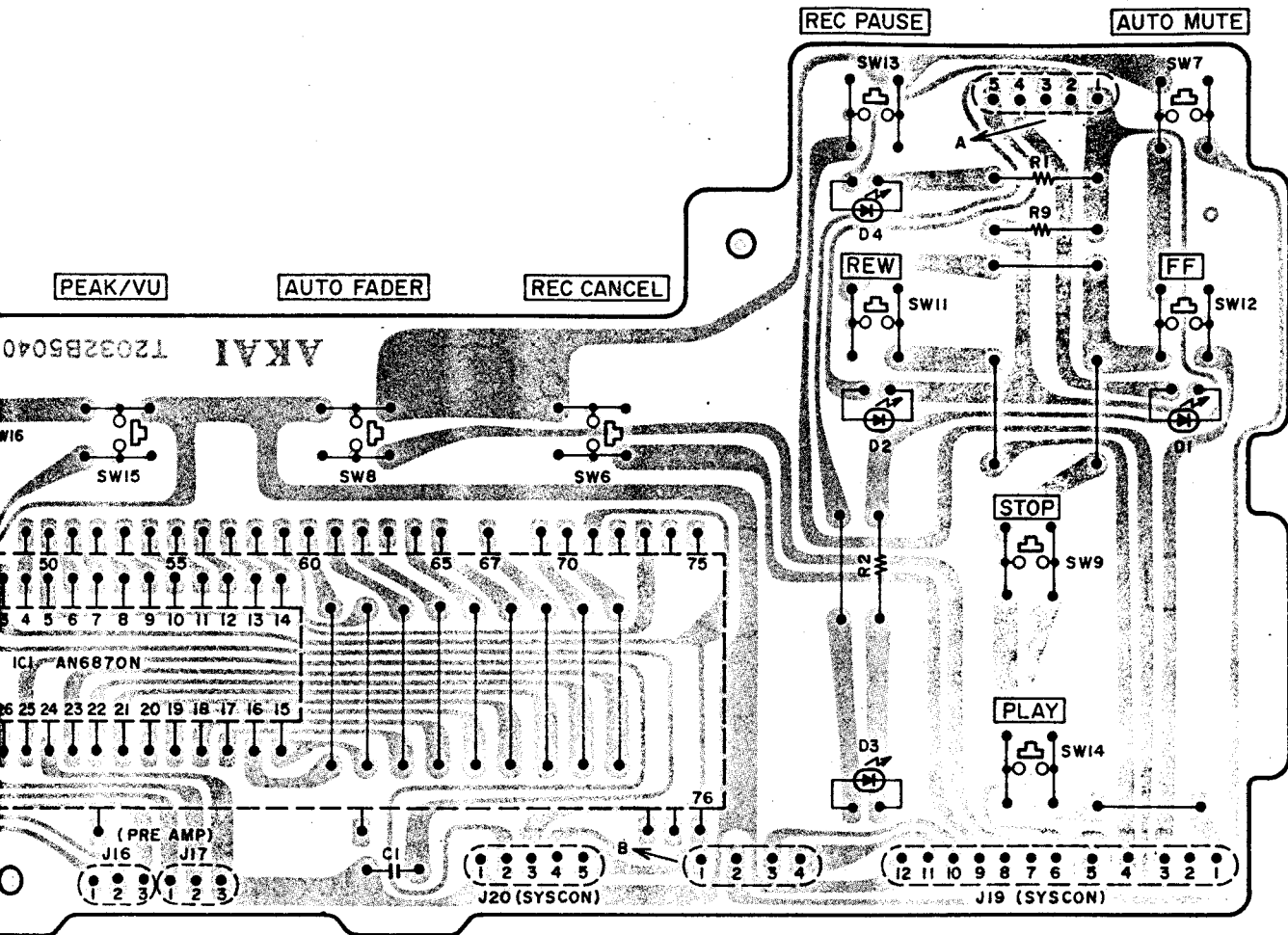
Tel : 031-856-637

Tel / fax : 031-856-139

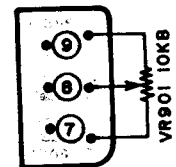
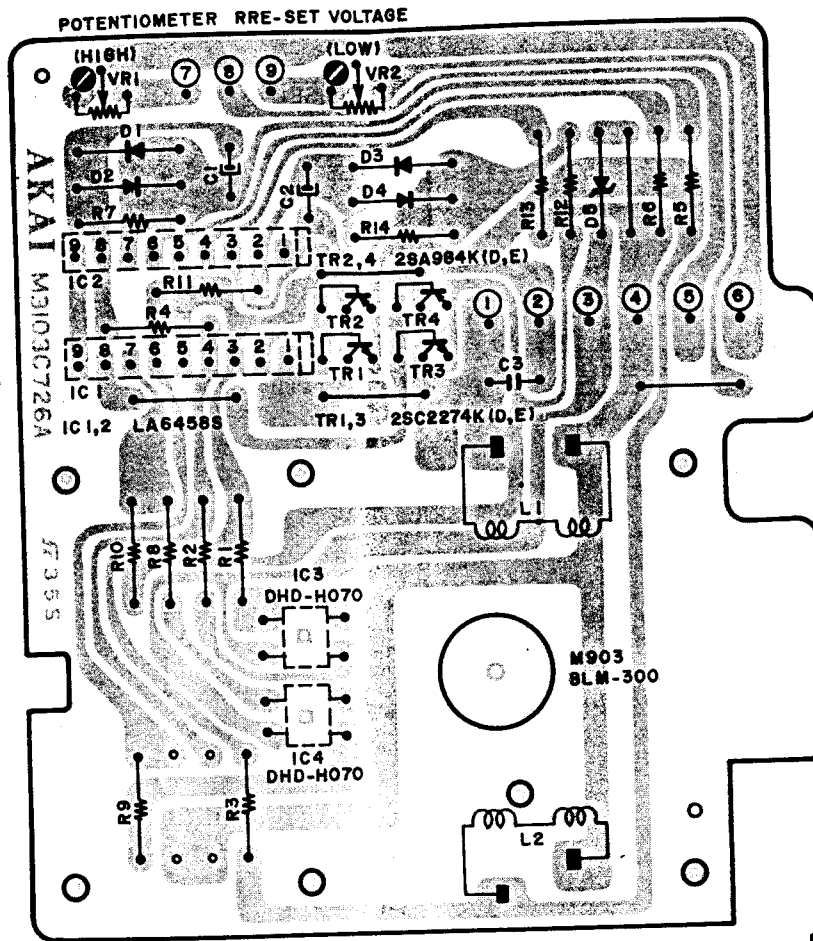
Mob : 098-788-319

rtv-servis-horvat@os.tel.hr





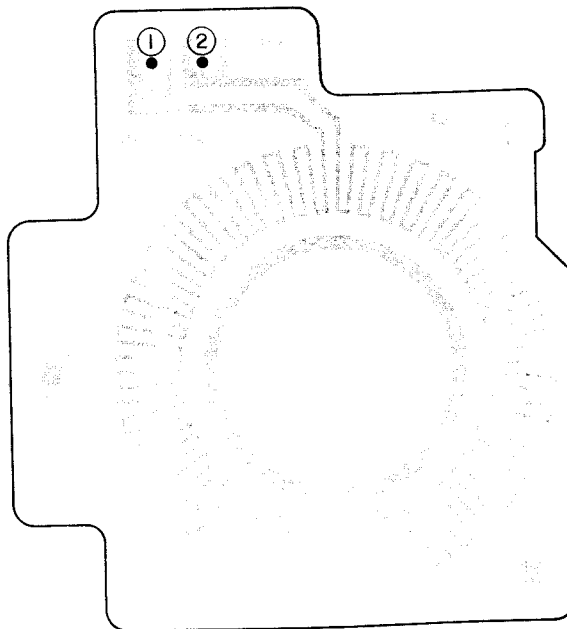
5) MOTOR P.C BOARD M3103C726A and POTENTION P.C BOARD M3103C726B



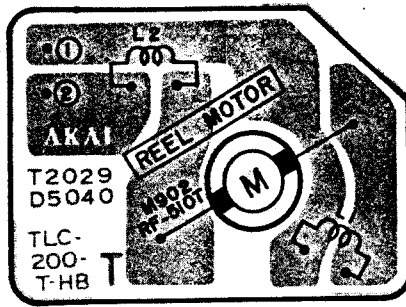
MOTOR PCB M3103C726A

POTENTION PCB M3103C726B

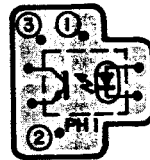
6) FG P.C BOARD M3103C7130



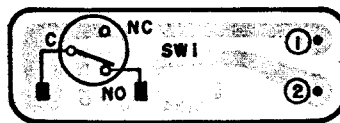
7) FILTER P.C BOARD T2029D5040



8) DETECTOR P.C BOARD T2029D5030

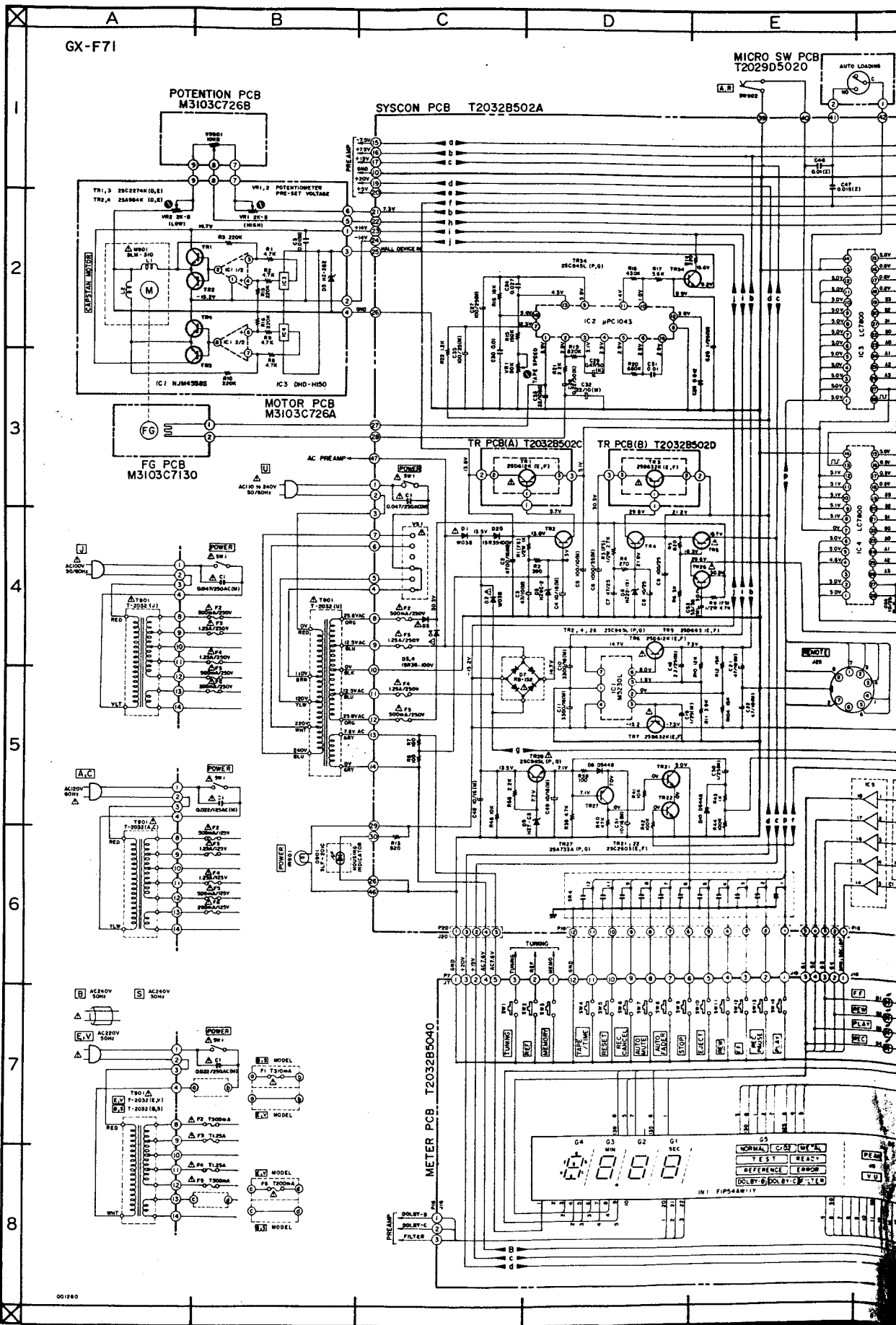


9) MICRO SW P.C BOARD T2029D5020



VR901 TOKB

PCB  
3



GX-F71

MICRO SW PCB  
T2029D5020

POTENTION PCB  
M3103C726B

SYSICON PCB T2032B502A

MOTOR PCB  
M3103C726A

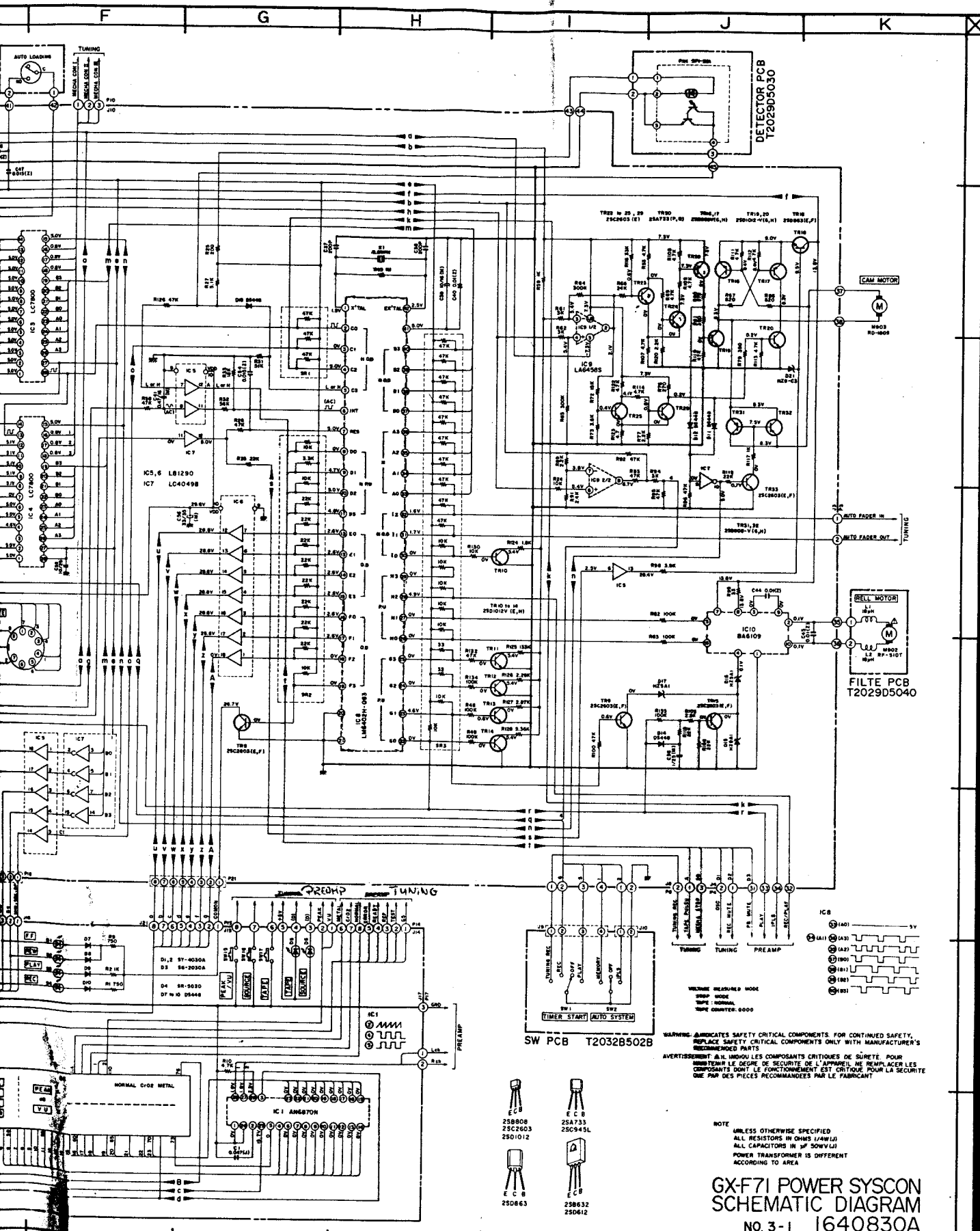
FG PCB  
M3103C7130

TR PCB(A) T2032B502C

TR PCB(B) T2032B502D

AC PREAMP

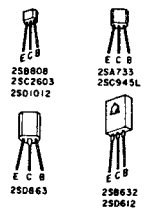
METER PCB T2032B5040



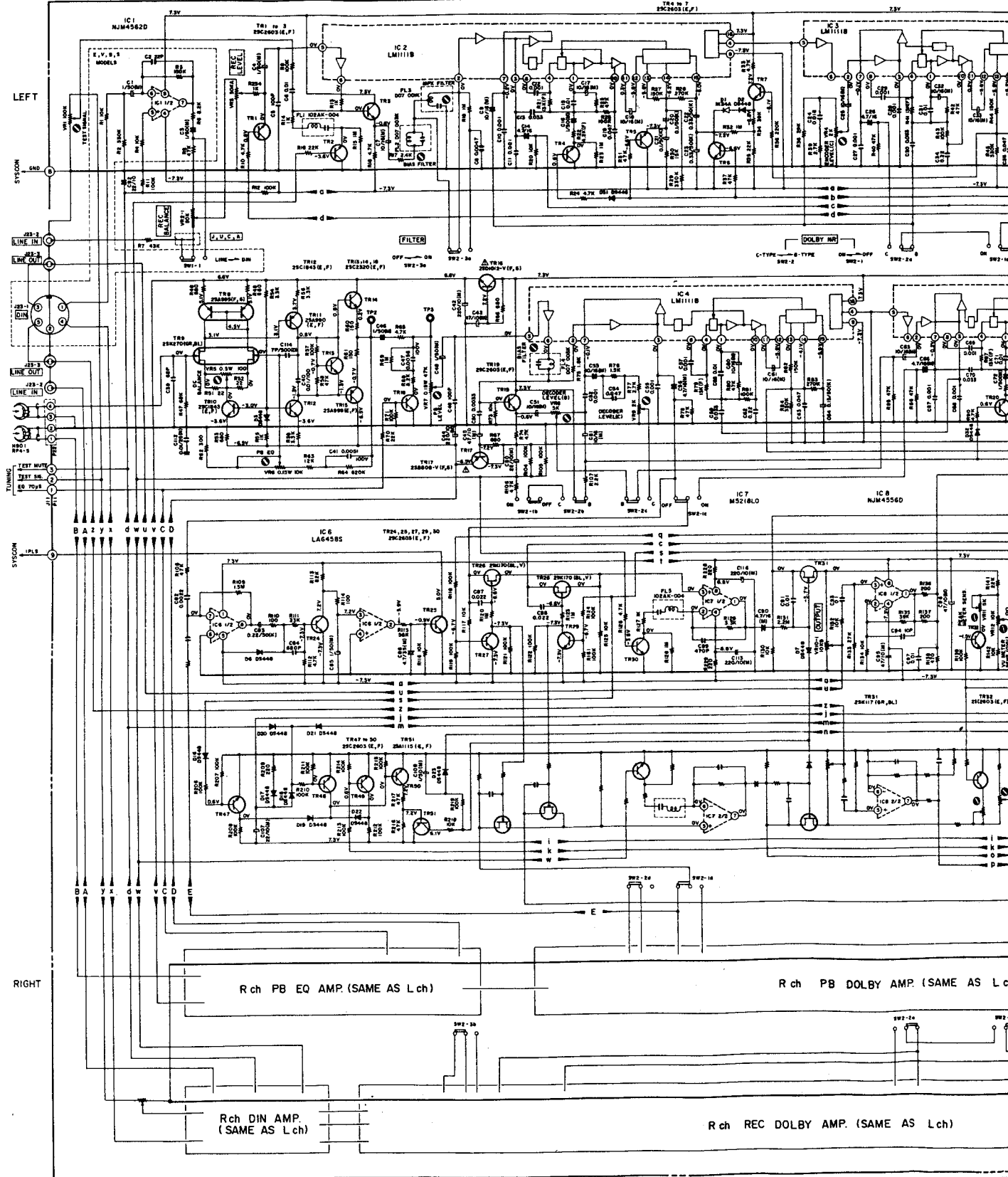
**GX-F71 POWER SYSCON  
SCHEMATIC DIAGRAM  
NO. 3-1 1640830A**

WARNING: INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.  
AVERTISSEMENT: AIL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ POUR S'ASSURER LE DEGRÉ DE SÛRETÉ DE L'APPAREIL. NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SÛRETÉ QUE PAR DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

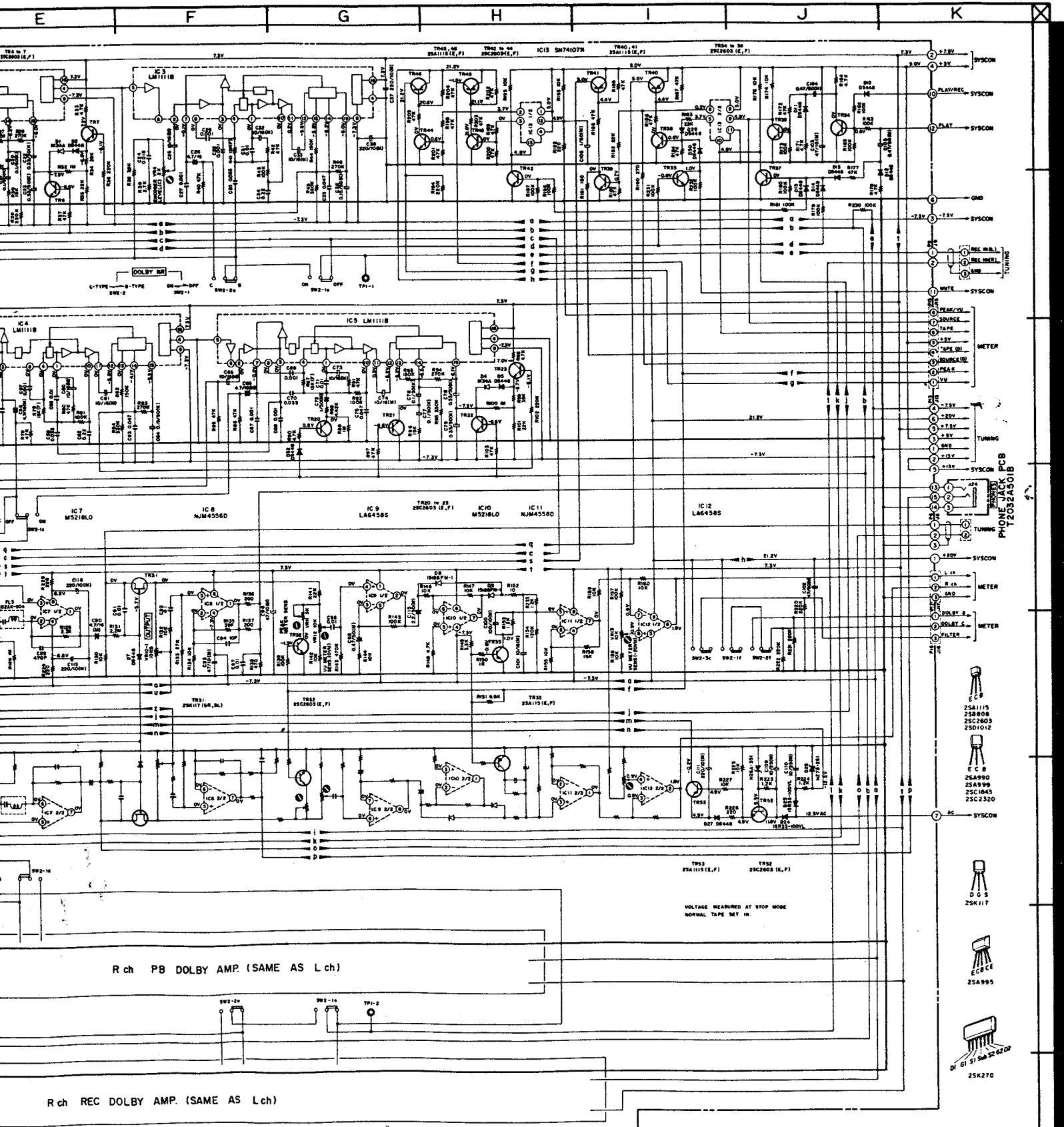
NOTE: UNLESS OTHERWISE SPECIFIED ALL RESISTORS IN OHMS (1/4W/L) ALL CAPACITORS IN µF (50WV/L) POWER TRANSFORMER IS DIFFERENT ACCORDING TO AREA



GX-F71



PRE AMP PCB T2032A501A



R ch PB DOLBY AMP. (SAME AS L ch)

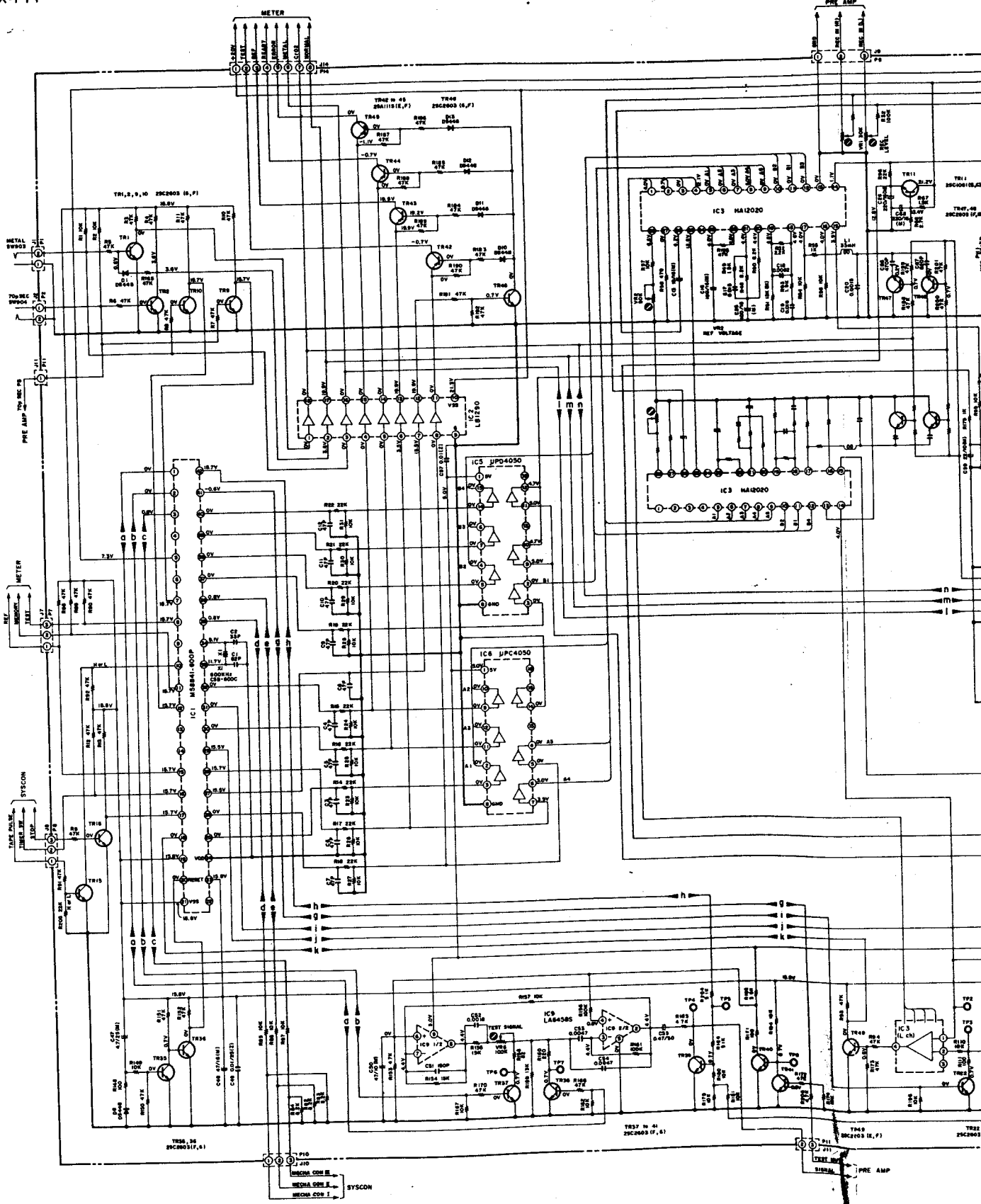
R ch REC DOLBY AMP. (SAME AS L ch)

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.  
 AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR MAINTENIR LE DEGRÉ DE SÛRETÉ DE L'APPAREIL, NE REMPLACEZ LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SÛRETÉ QUE PAR DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

NOTE: UNLESS OTHERWISE SPECIFIED ALL RESISTORS IN OHMS (Ω/W/L) ALL CAPACITORS IN μF 50 WV(L)

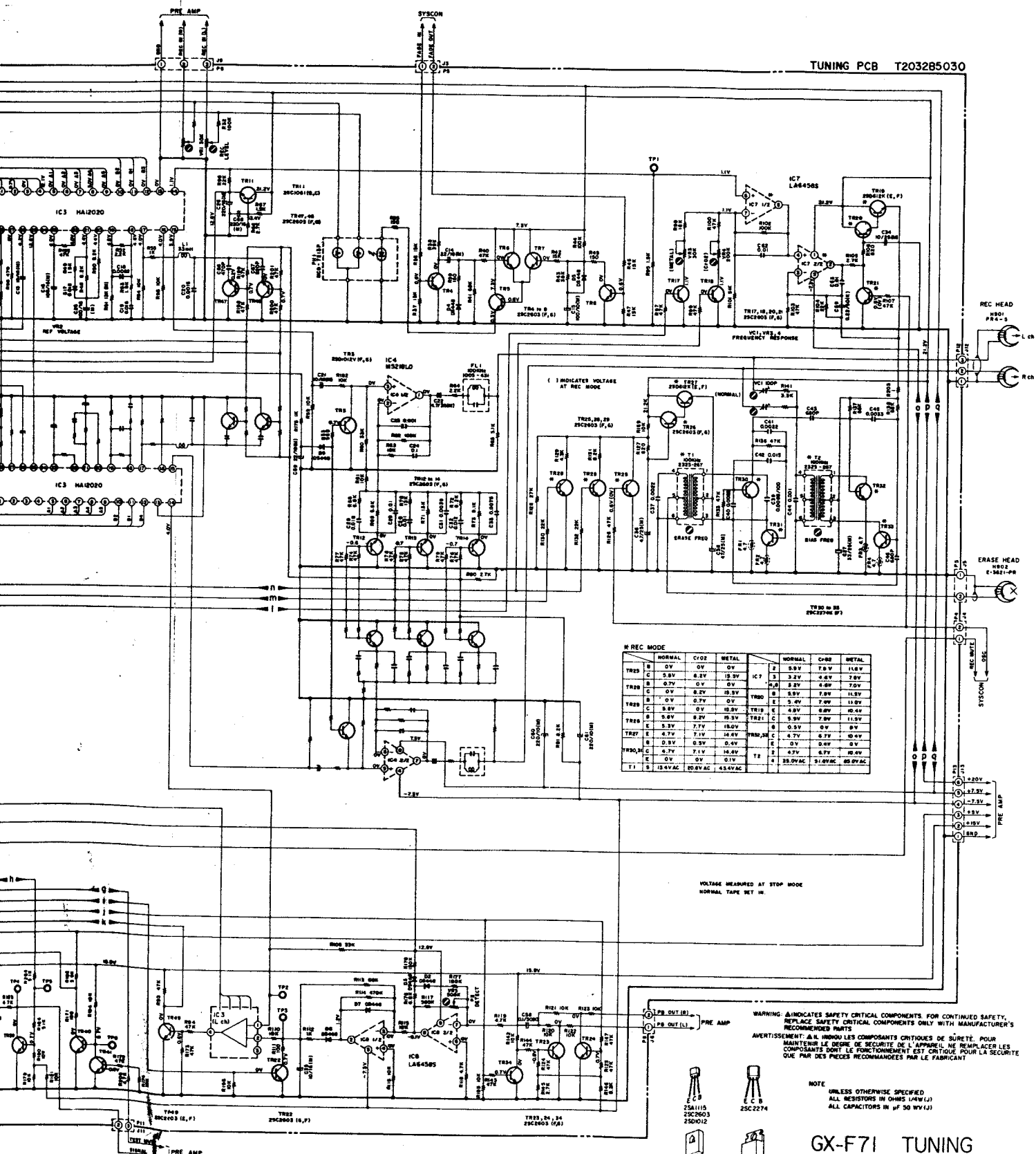
**GX-F71 AMPLIFIER SCHEMATIC DIAGRAM**  
 NO. 3-1 1640831A

GX-F71





TUNING PCB T2032B5030



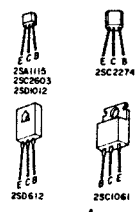
( INDICATES VOLTAGE AT REC MODE )

REC MODE			NORMAL			C-82		
TR	TEST POINT	VOLTS	TR	TEST POINT	VOLTS	TR	TEST POINT	VOLTS
TR2	B	0V	TR1	B	5.9V	TR1	B	7.8V
TR2	C	5.8V	TR1	C	3.3V	TR1	C	6.8V
TR2	B	0.7V	TR1	A	8.8V	TR1	B	5.8V
TR2	C	0V	TR1	B	0.2V	TR1	C	7.9V
TR2	B	0V	TR1	C	0.2V	TR1	E	5.9V
TR2	C	5.2V	TR1	E	4.8V	TR1	F	6.9V
TR2	B	5.8V	TR1	F	5.8V	TR1	G	6.9V
TR2	C	5.3V	TR1	G	5.9V	TR1	H	7.9V
TR2	E	5.3V	TR1	H	0.3V	TR1	I	0V
TR2	F	4.7V	TR1	I	7.1V	TR1	J	6.7V
TR2	G	5.2V	TR1	J	0.3V	TR1	K	0.4V
TR2	H	4.7V	TR1	K	7.1V	TR1	L	6.7V
TR2	I	0V	TR1	L	0V	TR1	M	6.7V
TR2	J	15.4VAC	TR1	M	15.4VAC	TR1	N	15.4VAC
TR2	K	15.4VAC	TR1	N	15.4VAC	TR1	O	15.4VAC

VOLTAGE MEASURED AT STOP MODE  
NORMAL TAPE SET IN.

WARNING: INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.  
AVERTISSEMENT: A L'INDICOU LES COMPOSANTS CRITIQUES DE SURETE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL, NE REMPLACER LES COMPOSANTS SONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE QUE PAR DES PRECES RECOMMANDEES PAR LE FABRICANT.

NOTE  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS (4W (1))  
ALL CAPACITORS IN μF 50 WV(1)



GX-F71 TUNING SCHEMATIC DIAGRAM  
No. 3-3 1640832A