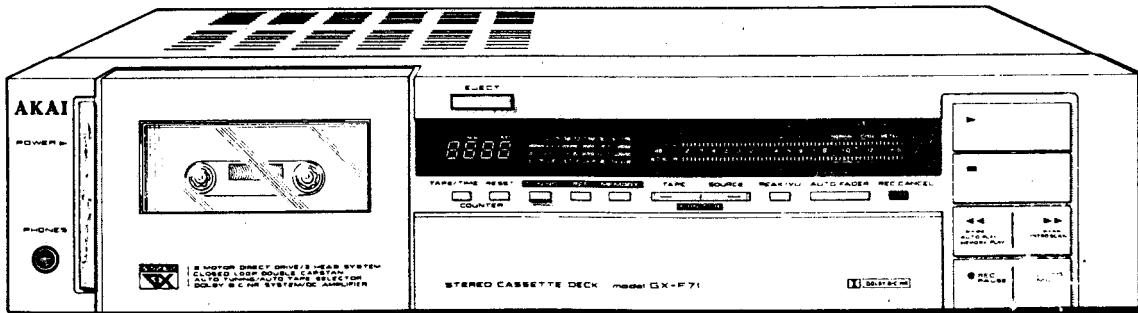
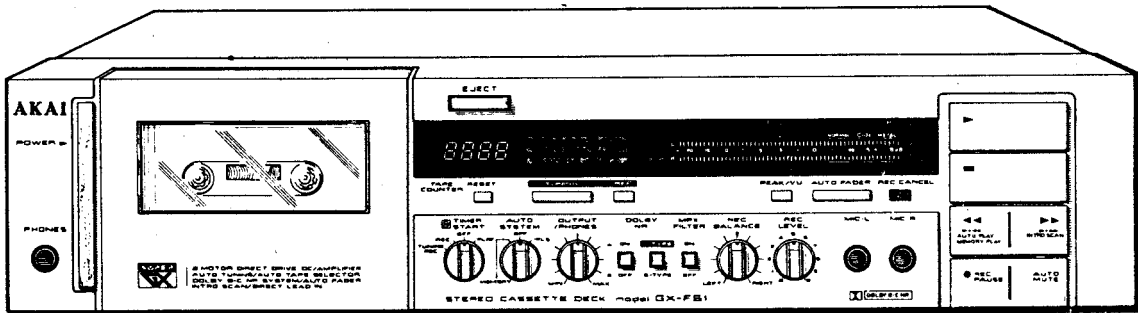
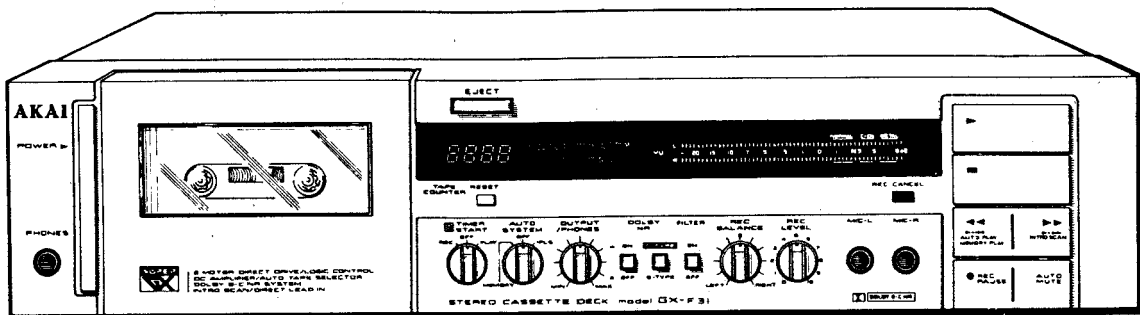


Spare Parts

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

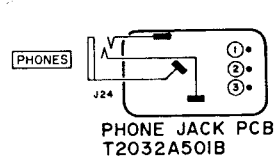
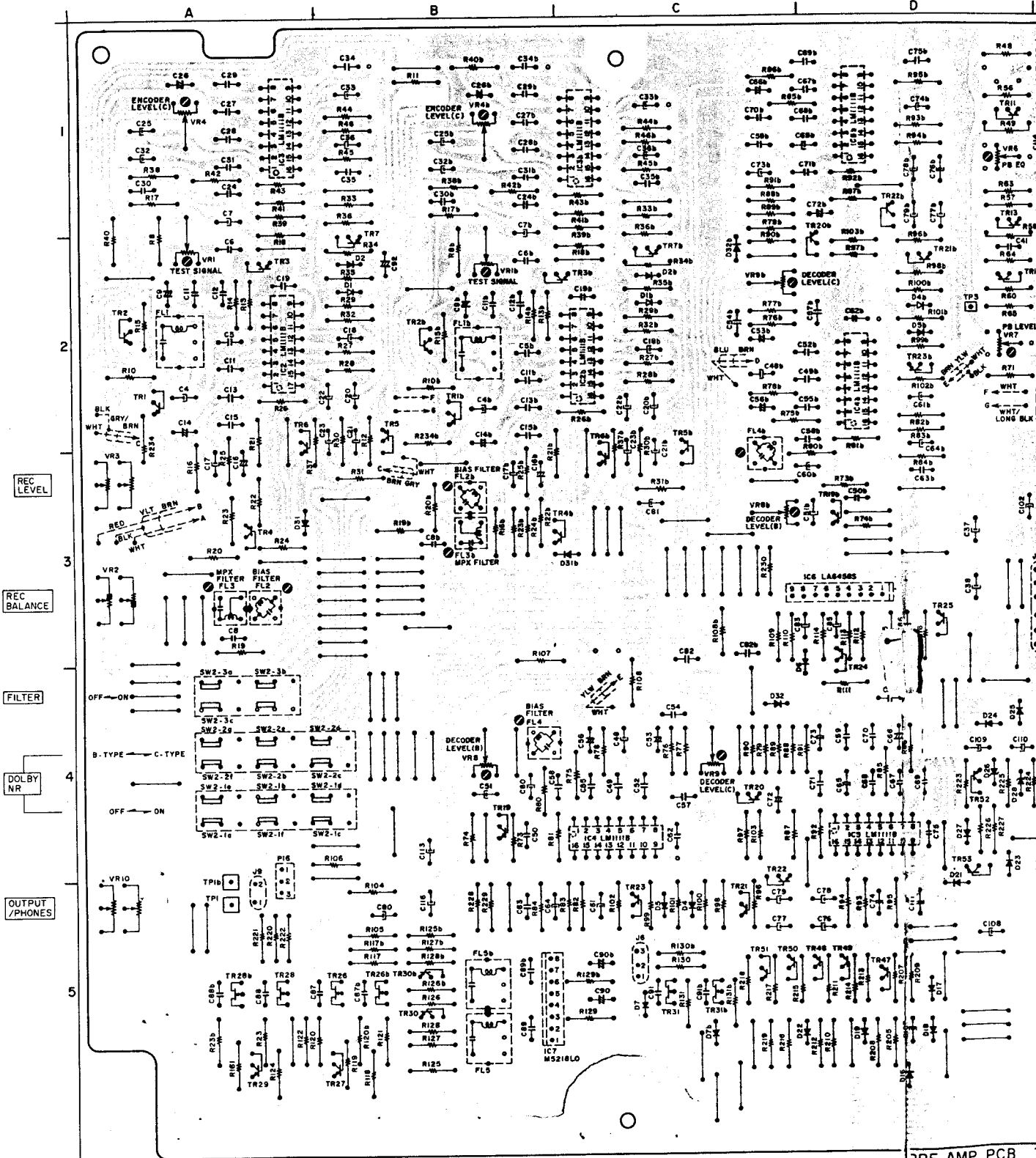
Tel / fax : 031-856-139

Mob : 098-788-319

rtv-servis-horvat@os.tel.hr

COMPOSITION OF VARIOUS P.C BOARDS

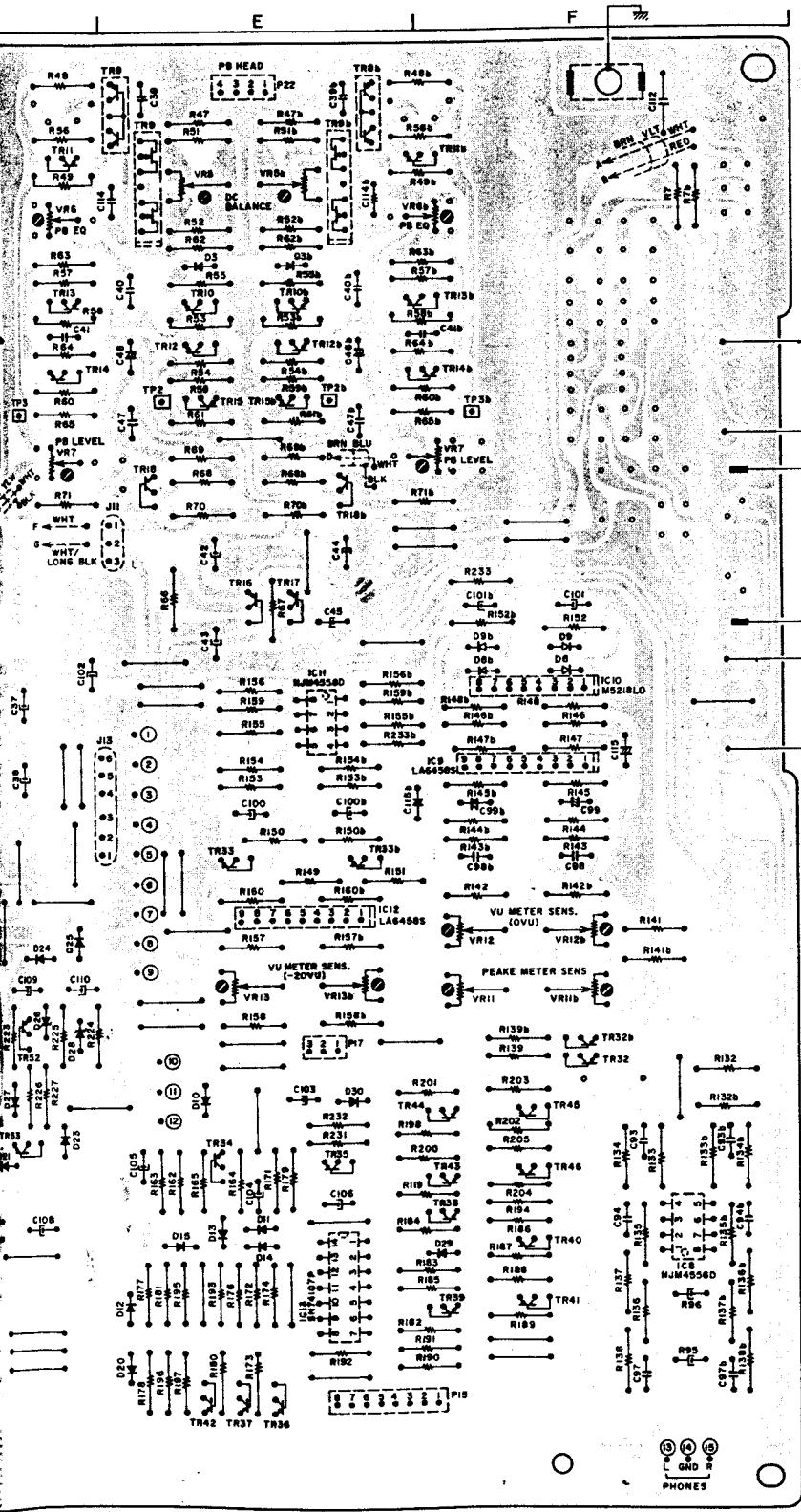
1) PRE AMP P.C BOARD T2032A501(2ED) and PHONE JACK P.C BOARD T2032A501B



- 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 ----- 25A990(E,F)
- TR15 ----- 25C2320(E,F)
- TR16 ----- 25A999(E,F)
- TR17 ----- 25D1012-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
- 01 61 51 Sub 52 G2 D1
- 25A990
- 25A1115
- 25A999
- 25B808
- 25C1843
- 25C2603
- 25C2320
- 25D1012

PRE AMP PCB



LOCATION OF COMPONENTS

IC

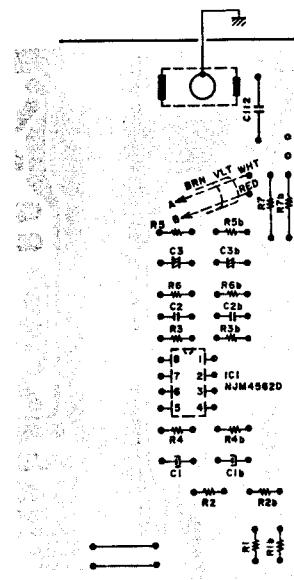
- IC2 ----- A2
- IC2b ----- C2
- IC3 ----- A1
- IC3b ----- C1
- IC4 ----- C4
- IC4b ----- D2
- IC5 ----- D4
- IC5b ----- D1
- IC6 ----- D3
- IC7 ----- B5
- IC8 ----- F5
- IC9, 10 ----- F3
- IC11 ----- E3
- IC12 ----- E4
- IC13 ----- E5

TR

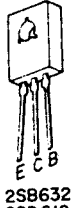
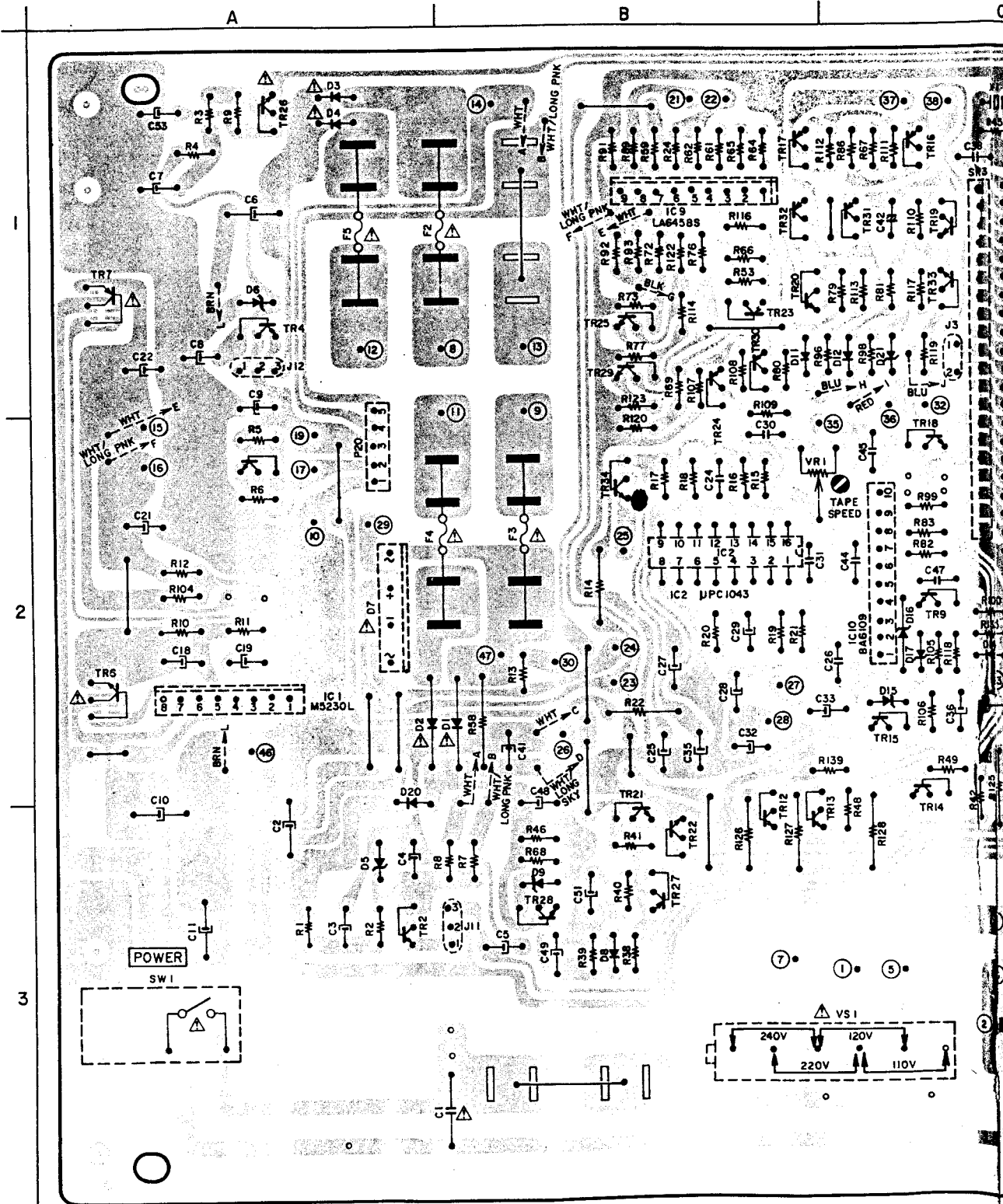
- TR1 to 3 ----- A2
- TR1b to 3b ----- B2
- TR4 ----- A3
- TR4b ----- B3
- TR5 ----- B2
- TR6 ----- A2
- TR7 ----- B1
- TR8b to 7b ----- C2
- TR8 to 10, Bb to 10b ----- E1
- TR11 ----- D1
- TR11b ----- E1
- TR12, 12b ----- E2
- TR13 ----- D1
- TR13b ----- E1
- TR14 ----- D2
- TR14b ----- E2
- TR15, 15b ----- 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 (12) ----- E4
- (13) to (15) ----- F5
- P15 ----- E5
- P16 ----- A4
- P17 ----- E4
- J6 ----- C5
- J9 ----- A4
- J11 ----- D1
- J13 ----- D3

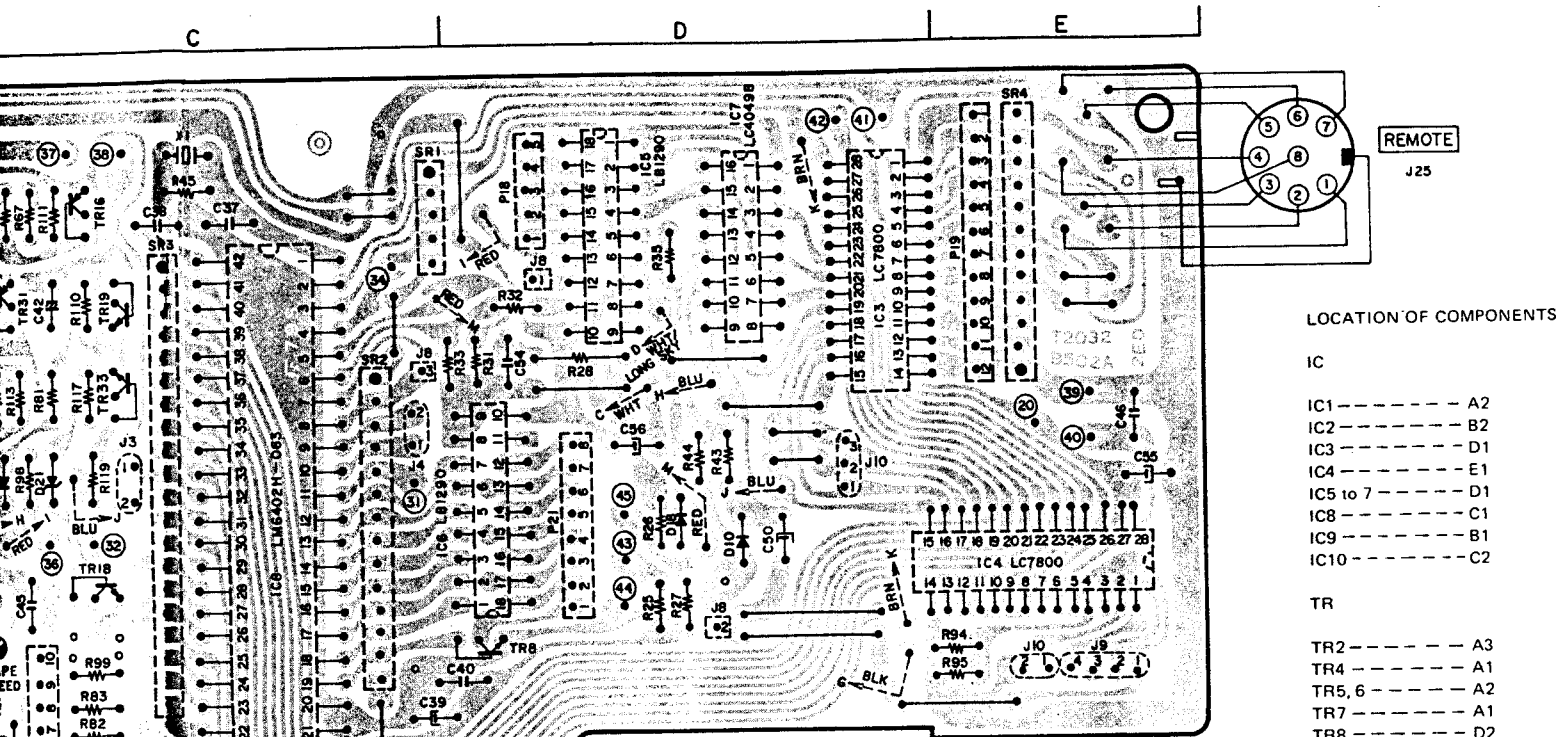


2) SYSCON P.C BOARD T2032B502A (2ED), SWITCH P.C BOARD T2032B502B, TR P.C BOARD (A) T2032B502C



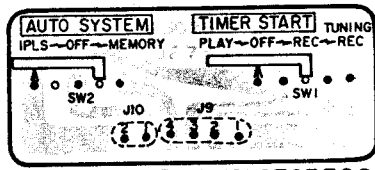
WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS
REPLACE SAFETY CRITICAL COMPONENTS
RECOMMENDED PARTS
AVERTISSEMENT: Δ IL INDIQUÉ LES COMPOSANTS CRITIQUES
MAINTENIR LE DEGRÉ DE SECURITE DE
LES COMPOSANTS DONT LE FONCTIONNEMENT
QUE PAR DES PIÉCES RECOMMANDÉES

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, USE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

IL INDIQUE LES COMPOSANTS CRITIQUES DE SÛRETÉ. POUR OBTENIR LE DEGRÉ DE SECURITE DE L'APPAREIL NE REMPLACER LES COMPOSANTS DONT LE FONCTIONNEMENT EST CRITIQUE POUR LA SECURITE PAR DES PIECES RECOMMANDEES 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

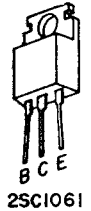
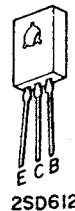
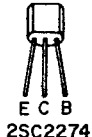
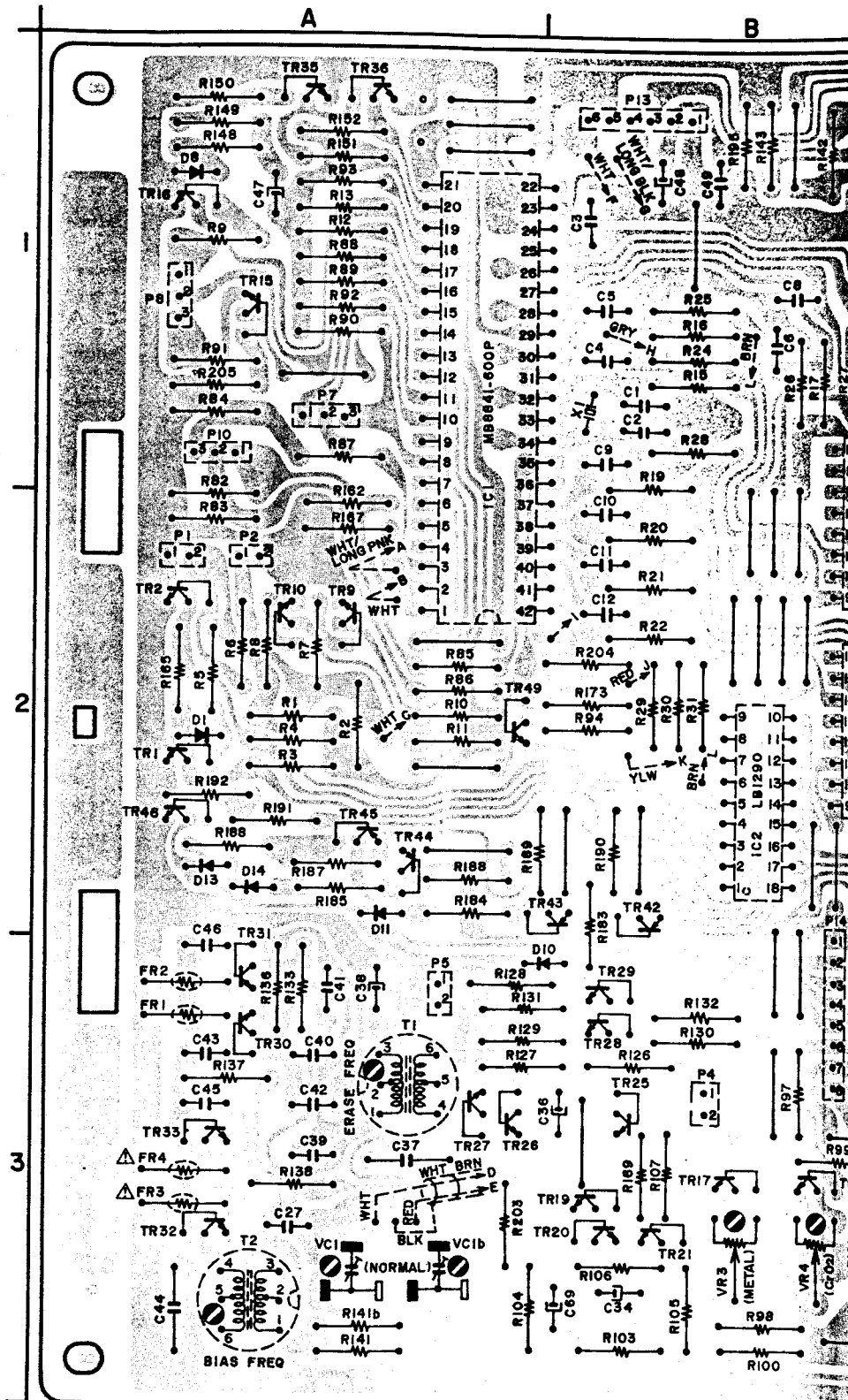
TR

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

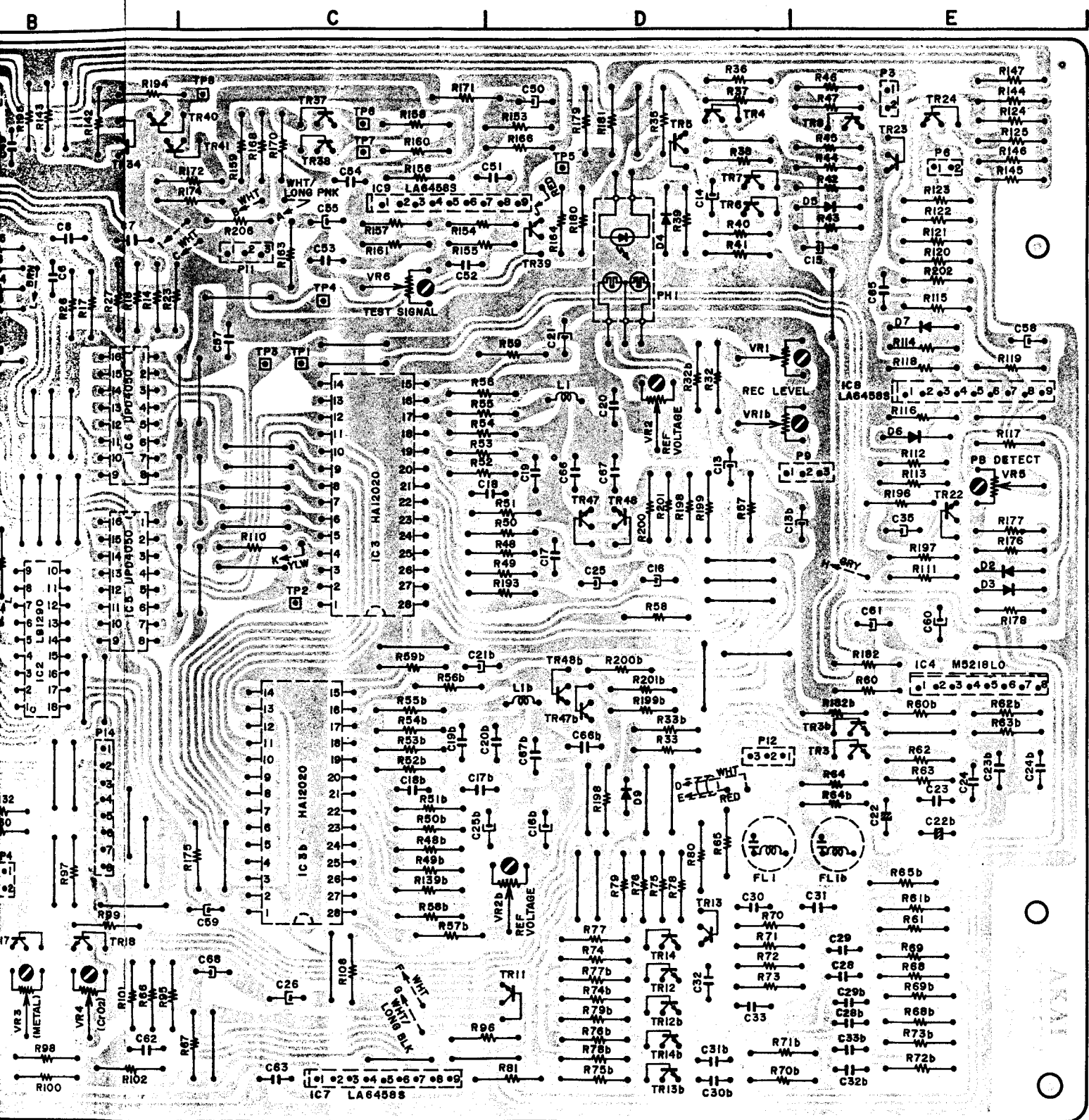
TERMINAL

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)



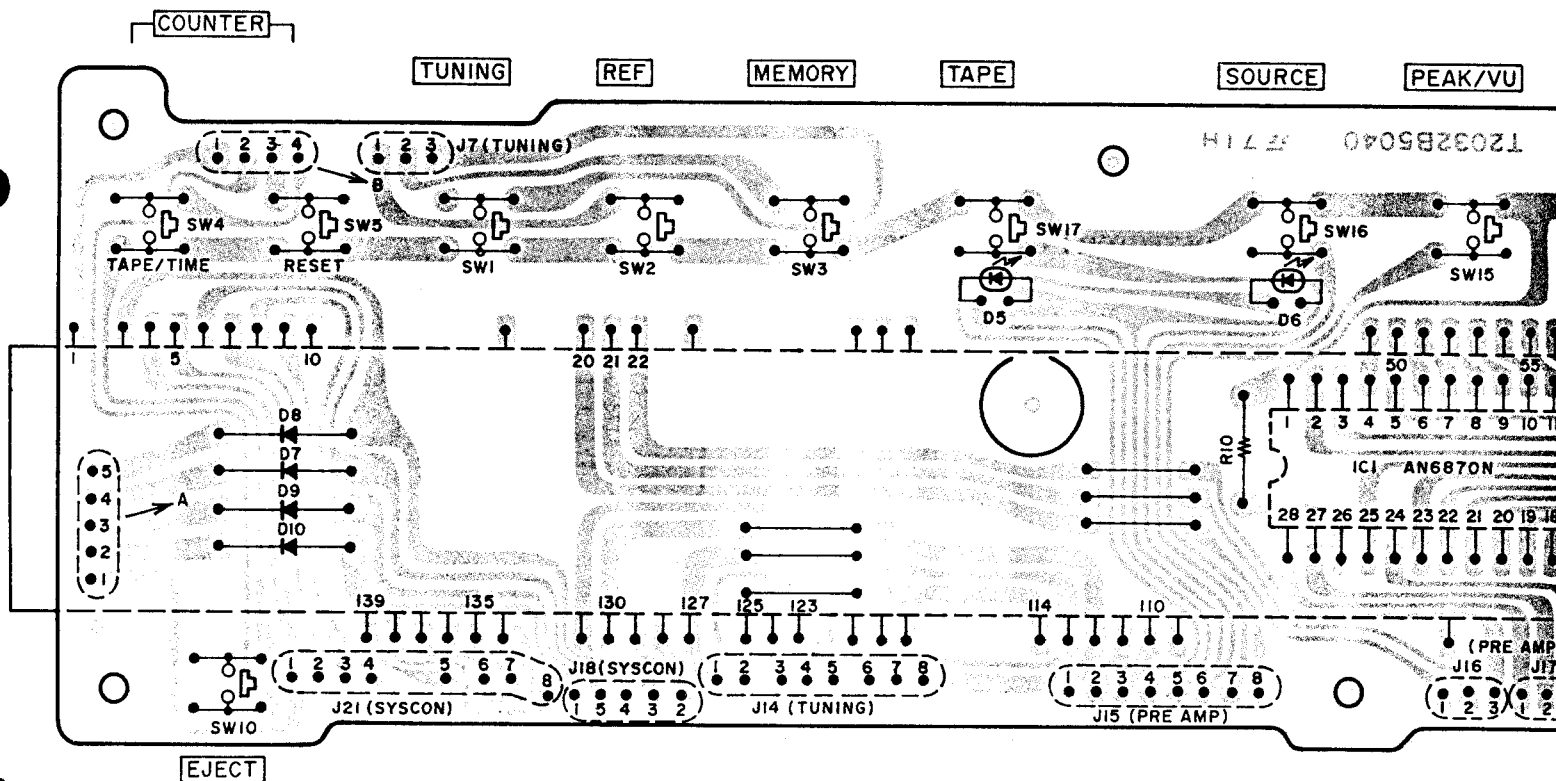
WARNING: Δ IN
REP
REC
AVERTISSEMENT
MAN
CON
QUE



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

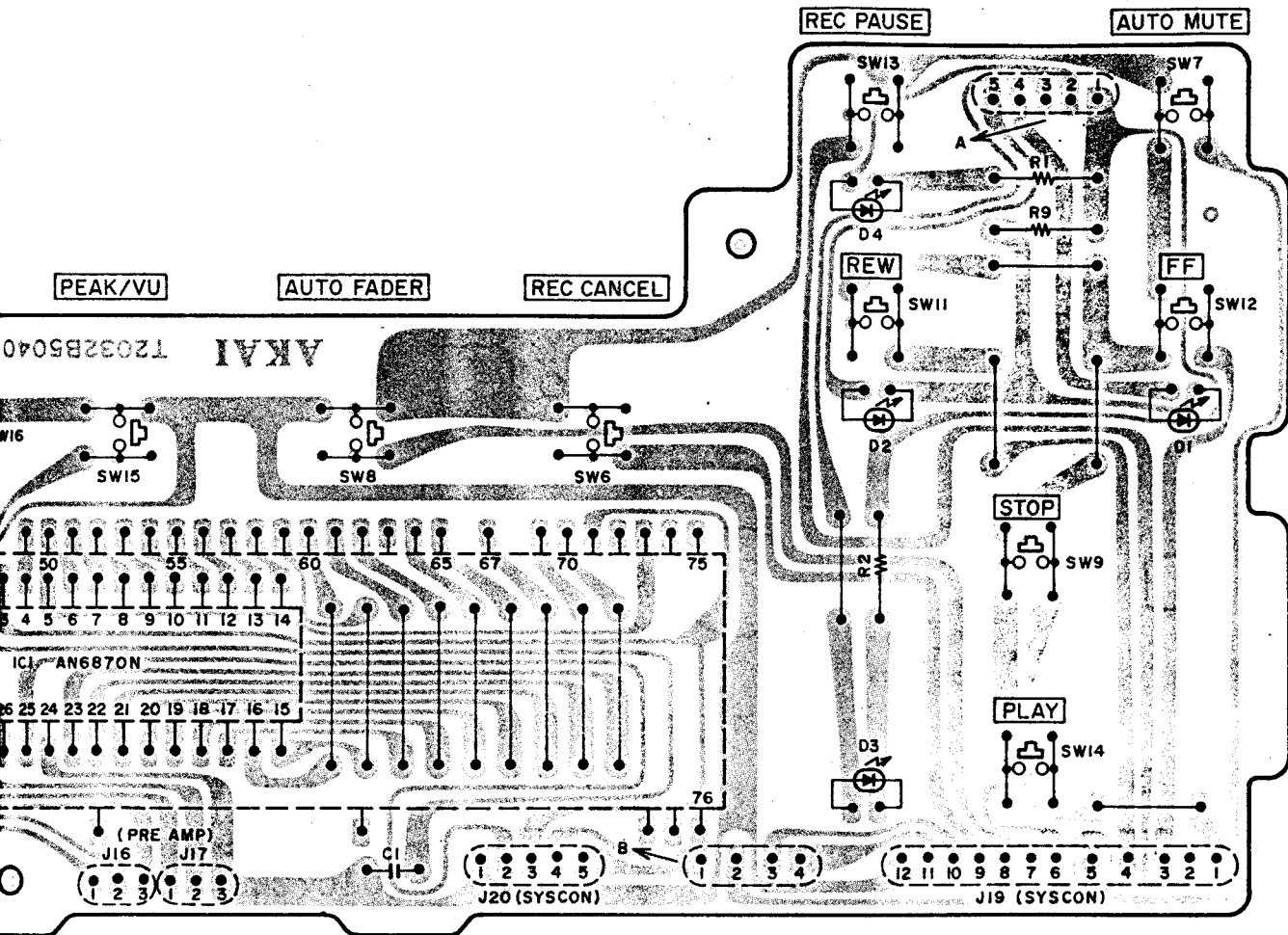
Kešinci, 31402 Semeljci

Tel : 031-856-637

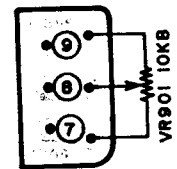
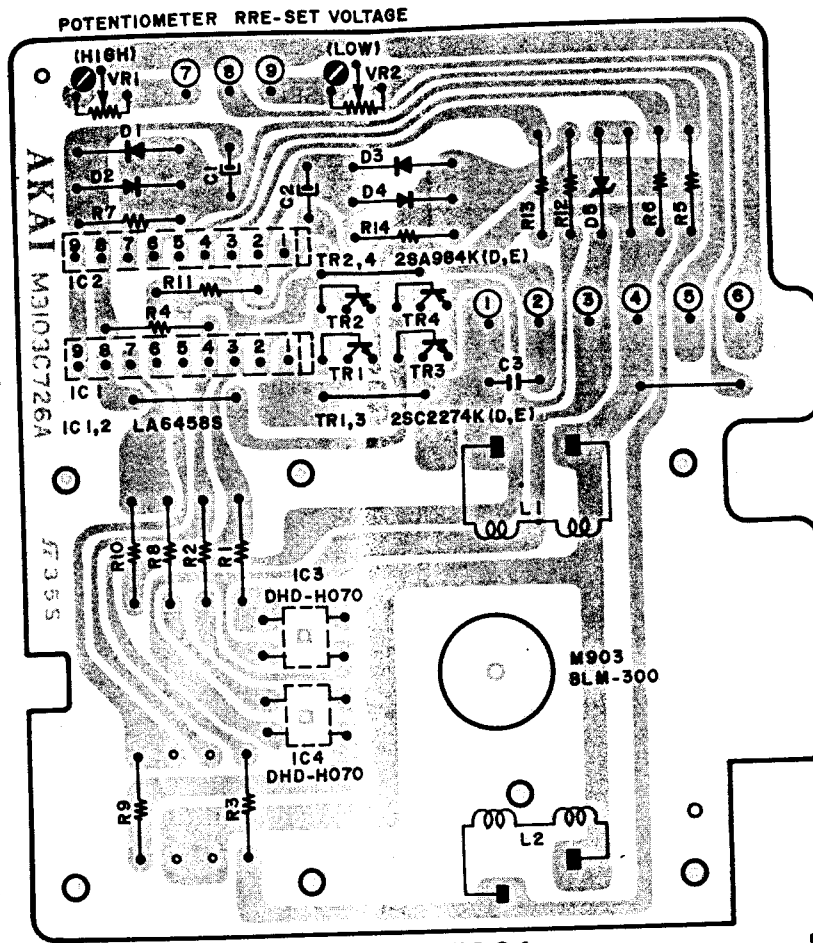
Tel / fax : 031-856-139

Mob : 098-788-319

rtv-servis-horvat@os.tel.hr



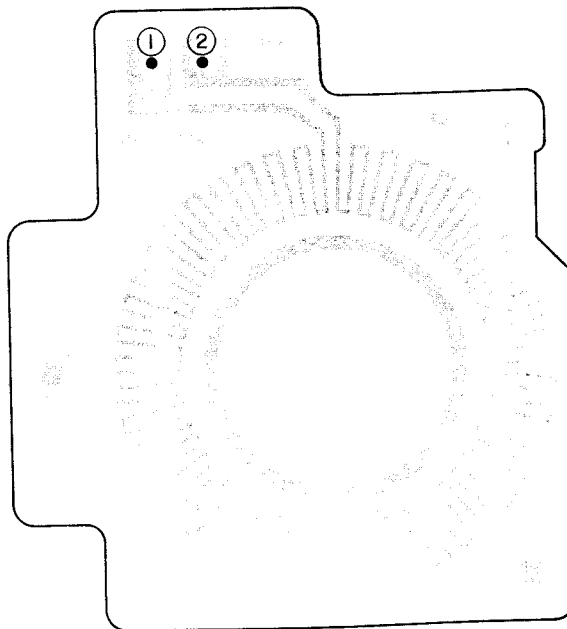
5) MOTOR P.C BOARD M3103C726A and POTENTION P.C BOARD M3103C726B



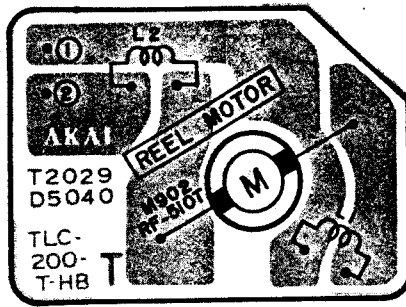
MOTOR PCB M3103C726A

POTENTION PCB M3103C726B

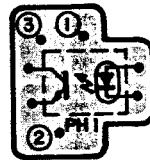
6) FG P.C BOARD M3103C7130



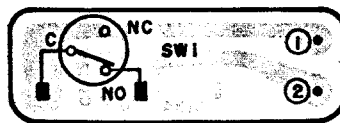
7) FILTER P.C BOARD T2029D5040



8) DETECTOR P.C BOARD T2029D5030

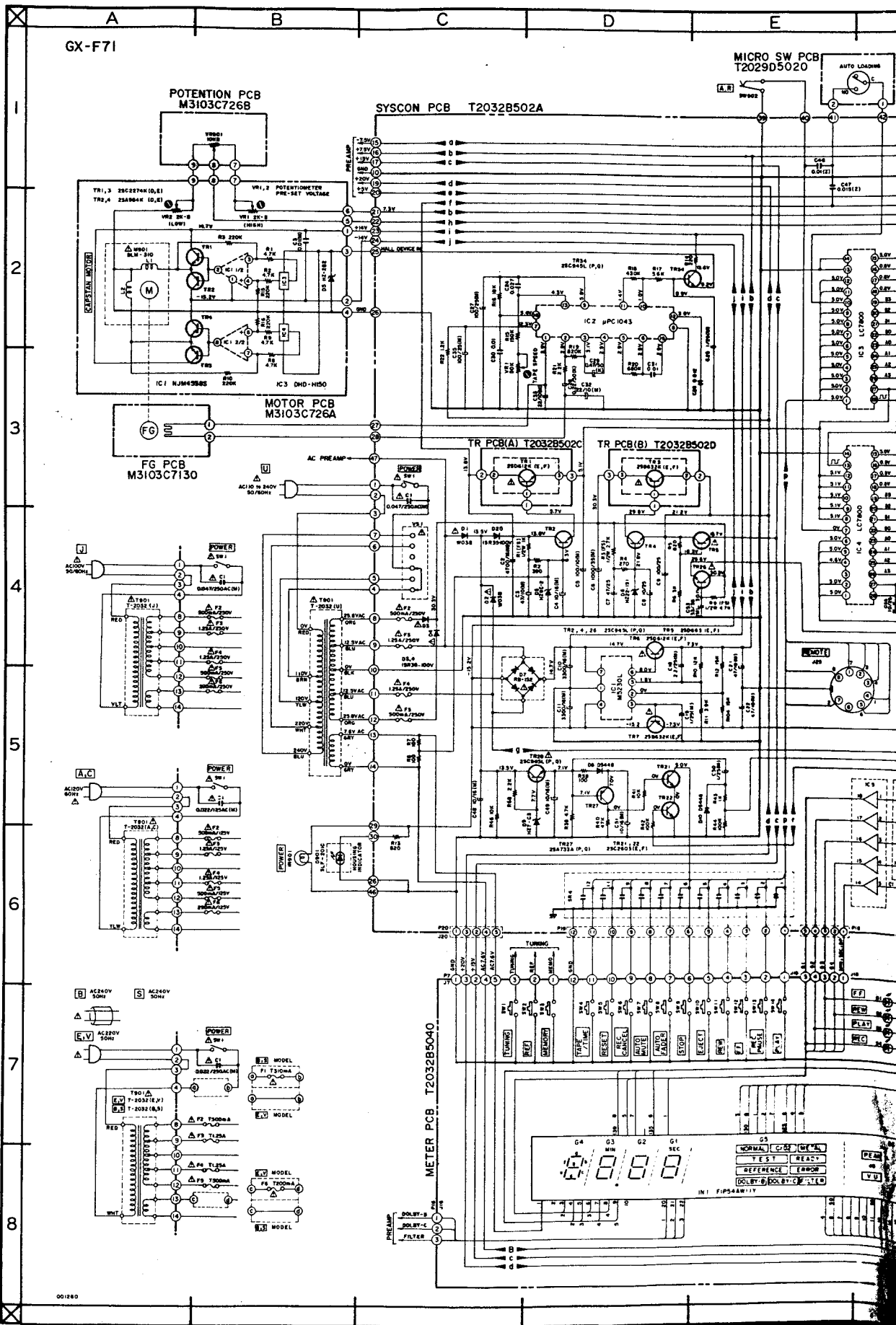


9) MICRO SW P.C BOARD T2029D5020



VR901 TOKB

PCB
3



GX-F71

MICRO SW PCB
T2029D5020

POTENTION PCB
M3103C726B

SYSCON PCB T2032B502A

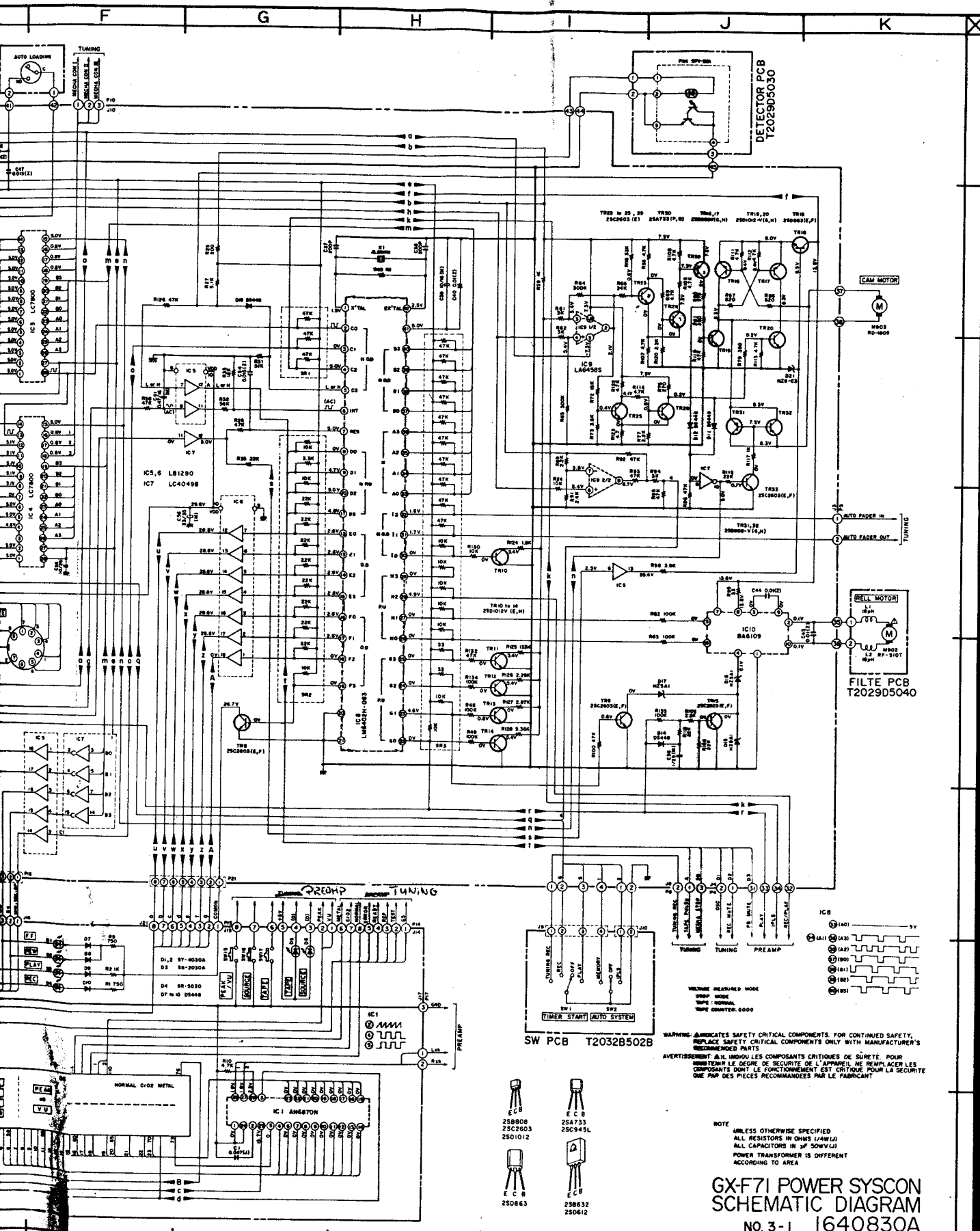
MOTOR PCB
M3103C726A

FG PCB
M3103C7130

TR PCB(A) T2032B502C

TR PCB(B) T2032B502D

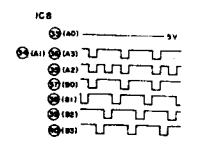
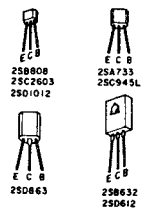
METER PCB T2032B5040



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 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 μ F (50WV/L)
 POWER TRANSFORMER IS DIFFERENT
 ACCORDING TO AREA

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



VOLTAGE REQUIRED MODE
 STOP MODE
 TUNE NORMAL
 TUNE COUNTER: 0000

GX-F71

LEFT

SYSTEM
CND

LINE IN
LINE OUT

LINE IN
LINE OUT

TEST MUT
TEST SW

SYSTEM
PLA

RIGHT

RIGHT

R ch PB EQ AMP. (SAME AS Lch)

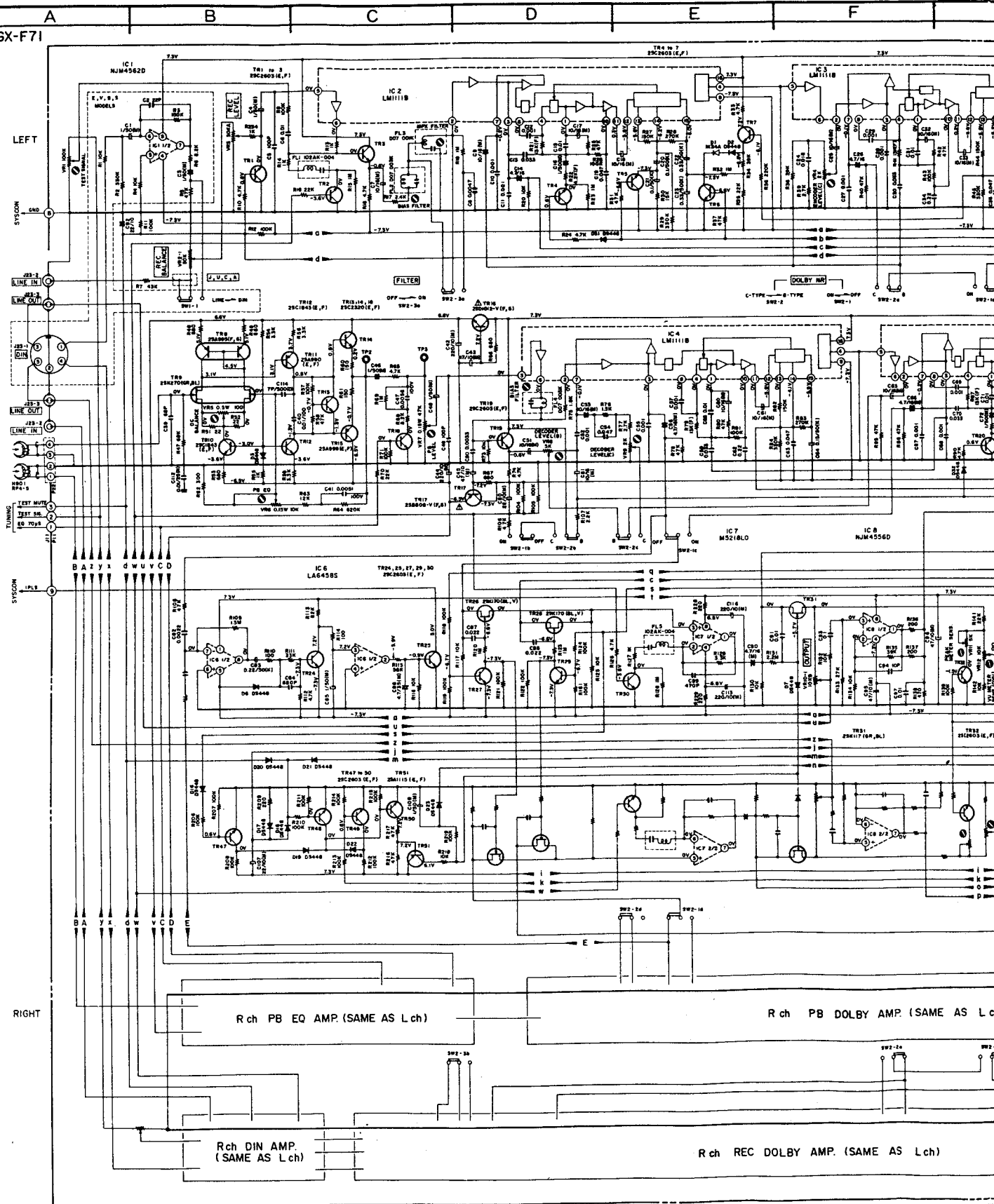
Rch DIN AMP.
(SAME AS Lch)

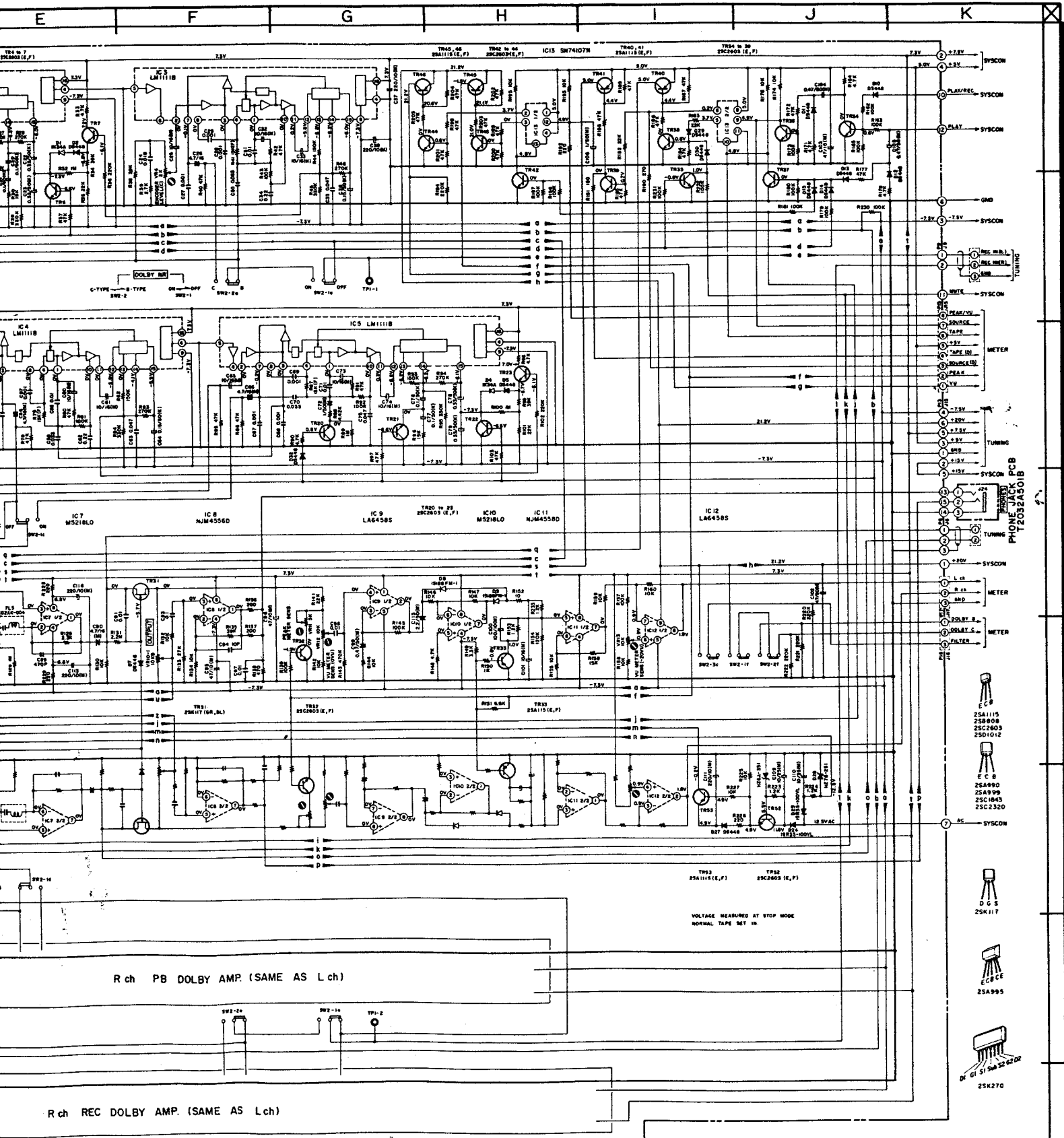
R ch PB DOLBY AMP. (SAME AS Lch)

R ch REC DOLBY AMP. (SAME AS Lch)

PRE AMP PCB T2032A501A

001480





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

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

VOLTAGE MEASURED AT STOP MODE
NORMAL TAPE SET IN.

- ECB
- 25A1115
- 25B808
- 25C2903
- 25D1012
- E C B
- 25A990
- 25A999
- 25C1843
- 25C2320
- D O S
- 25K117
- 25A995
- 25K270

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.

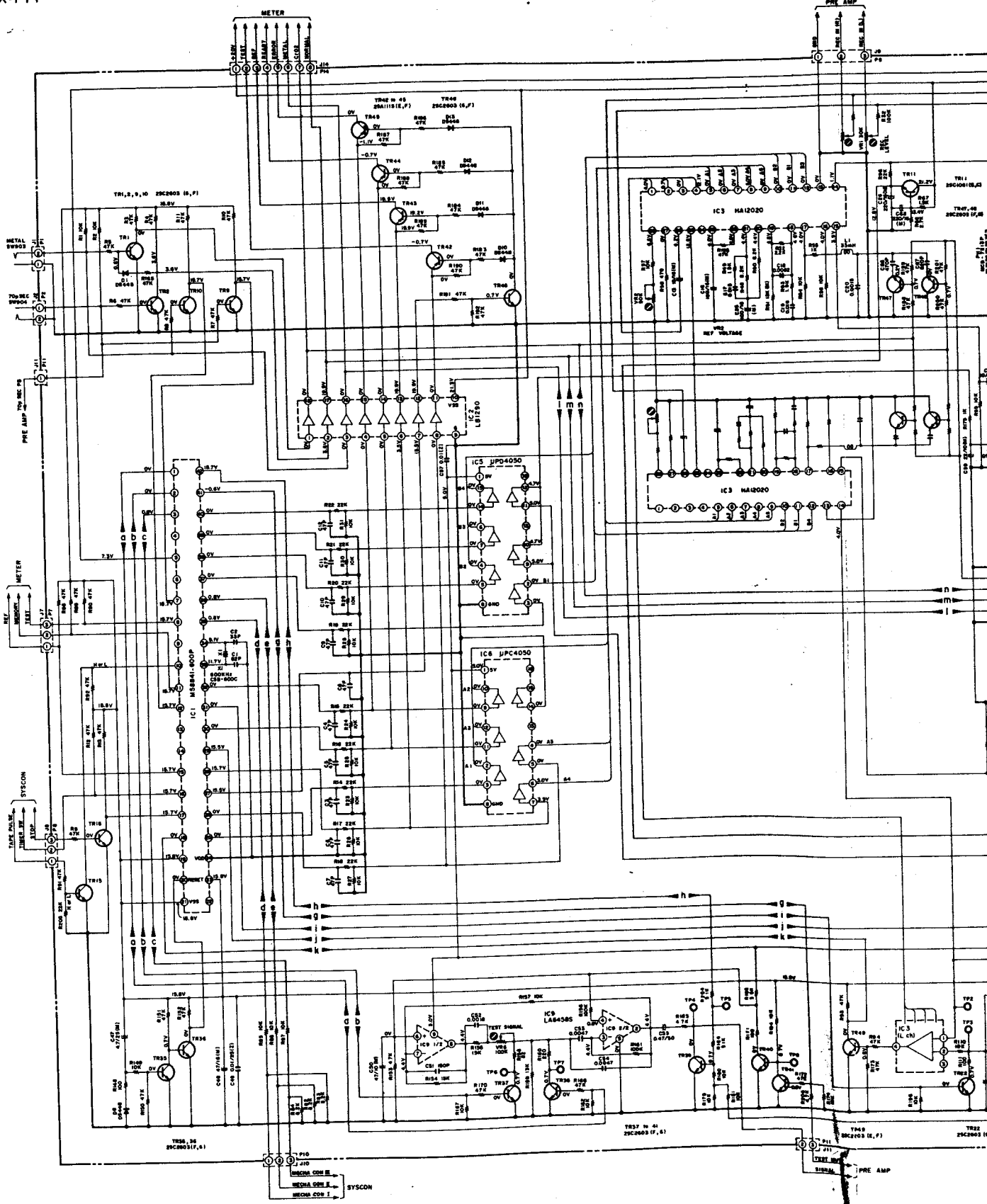
NOTE
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS (Ω/W/L)
ALL CAPACITORS IN μF 50 WV(L)

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

GX-F71

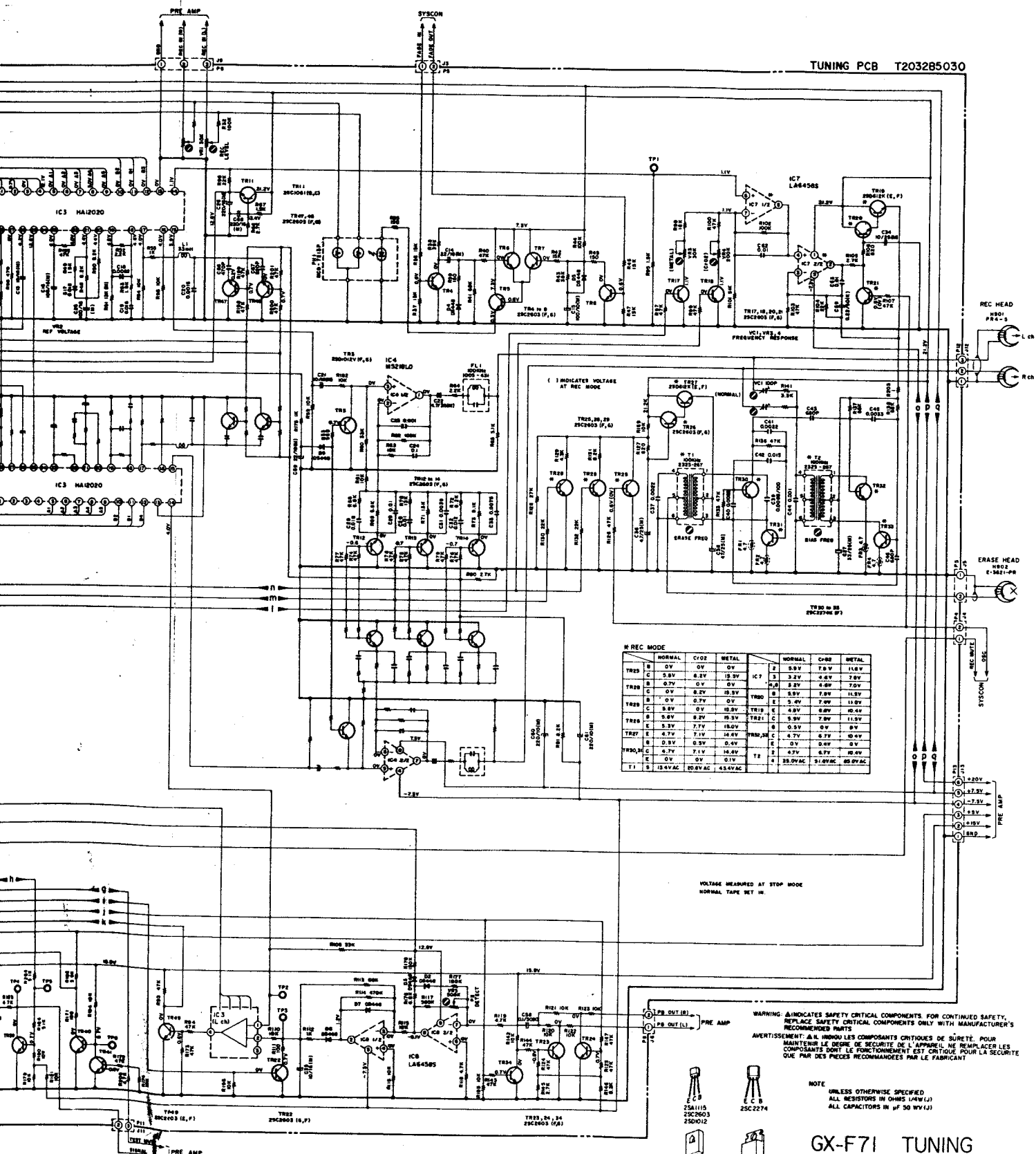
A B C D E F

1
2
3
4
5
6
7
8



00221

TUNING PCB T2032B5030



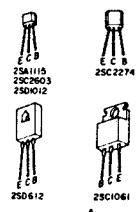
(INDICATES VOLTAGE AT REC MODE)

REC MODE			NORMAL			C-82		
TEST	POINT	VOLTS	TEST	POINT	VOLTS	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	A	6.8V
TR2	C	0V	TR1	B	8.8V	TR1	B	7.8V
TR2	B	0V	TR1	C	5.9V	TR1	C	7.9V
TR2	C	5.8V	TR1	E	5.9V	TR1	E	7.9V
TR2	B	0V	TR1	F	4.8V	TR1	F	6.8V
TR2	C	5.8V	TR1	G	9.8V	TR1	G	11.8V
TR2	B	5.3V	TR1	H	0.3V	TR1	H	0V
TR2	C	4.7V	TR1	I	6.7V	TR1	I	8.7V
TR2	B	0.2V	TR1	J	0V	TR1	J	14.4V
TR2	C	4.7V	TR1	K	4.7V	TR1	K	10.4V
TR2	B	0V	TR1	L	0V	TR1	L	0V
TR2	C	13.6VAC	TR1	M	18.6VAC	TR1	M	25.6VAC

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 PIECES 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