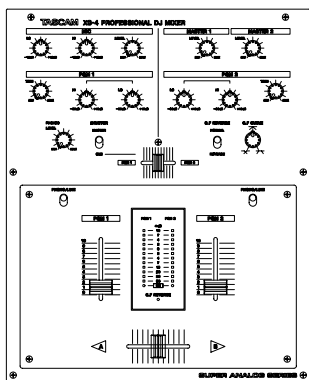




TASCAM

TEAC Professional Division

SERVICE MANUAL

XS-4

Professional DJ Mixer

* All printed circuit boards and its assemblies are not available as service parts.

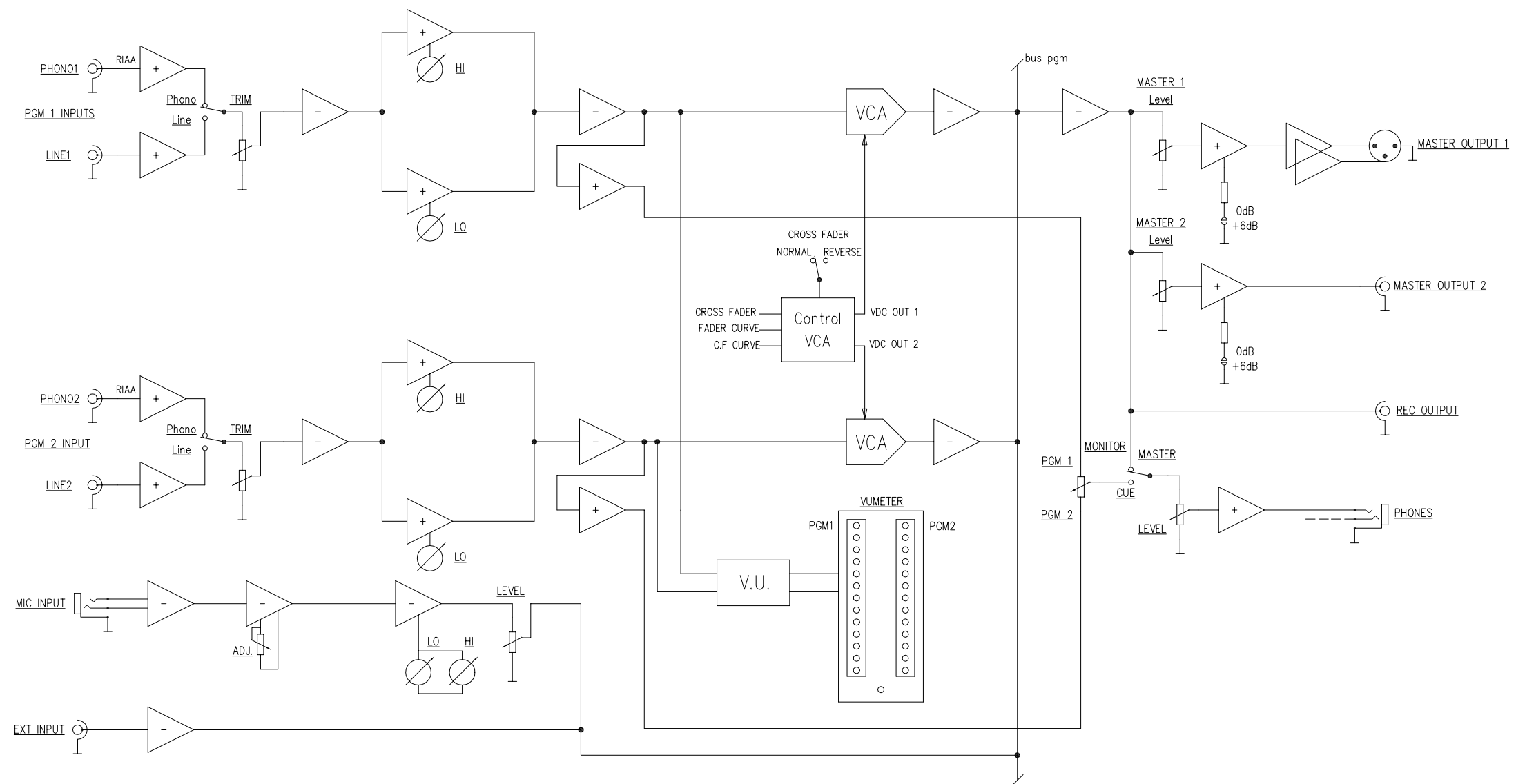
INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

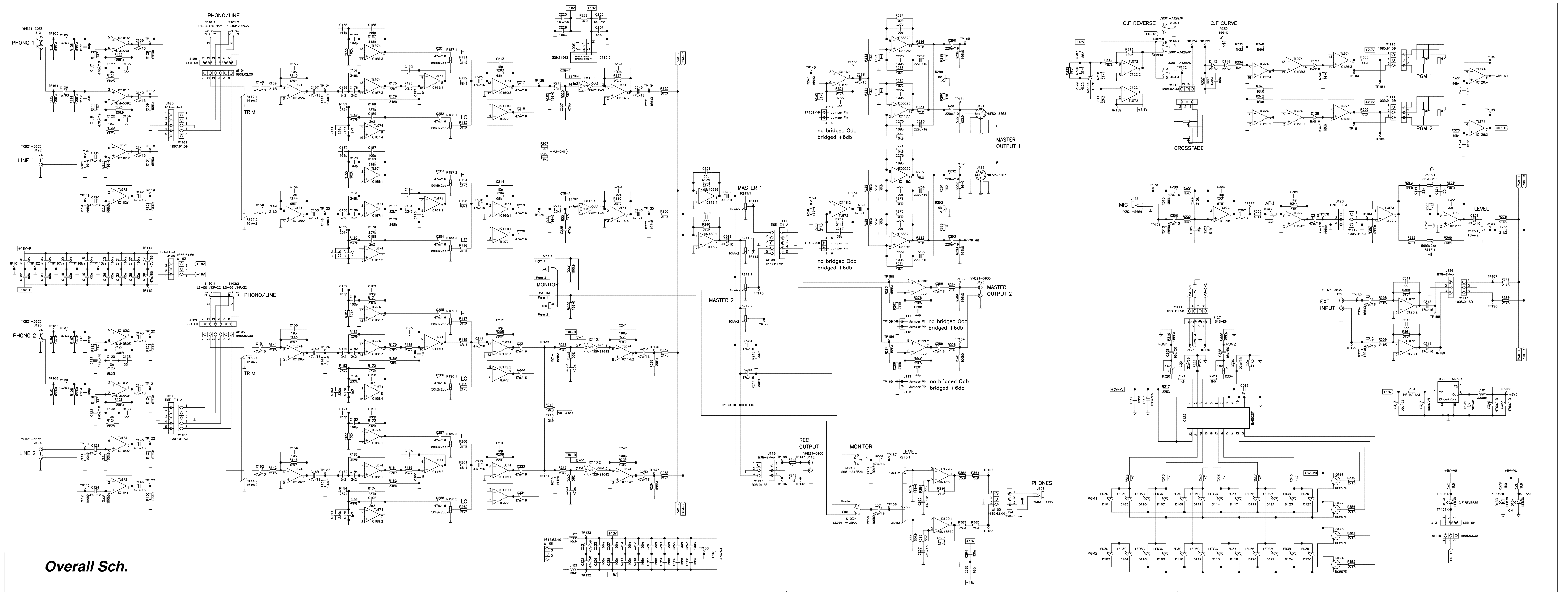
SERVICE MANUAL XS-4

INDEX

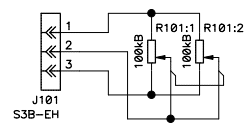
- BLOCK DIAGRAM
- SCHEMATICS
 - Main schema
 - Potentiometer schema
- COMPONENTS LOCATION SCHEMA
AND PARTS LIST
 - Main circuit
 - Potentiometer circuit
- TECHNICAL CHARACTERISTICS
- WIRING DIAGRAM
- MECHANICAL DIAGRAM
- PACKING DIAGRAM



BLOCK DIAGRAM

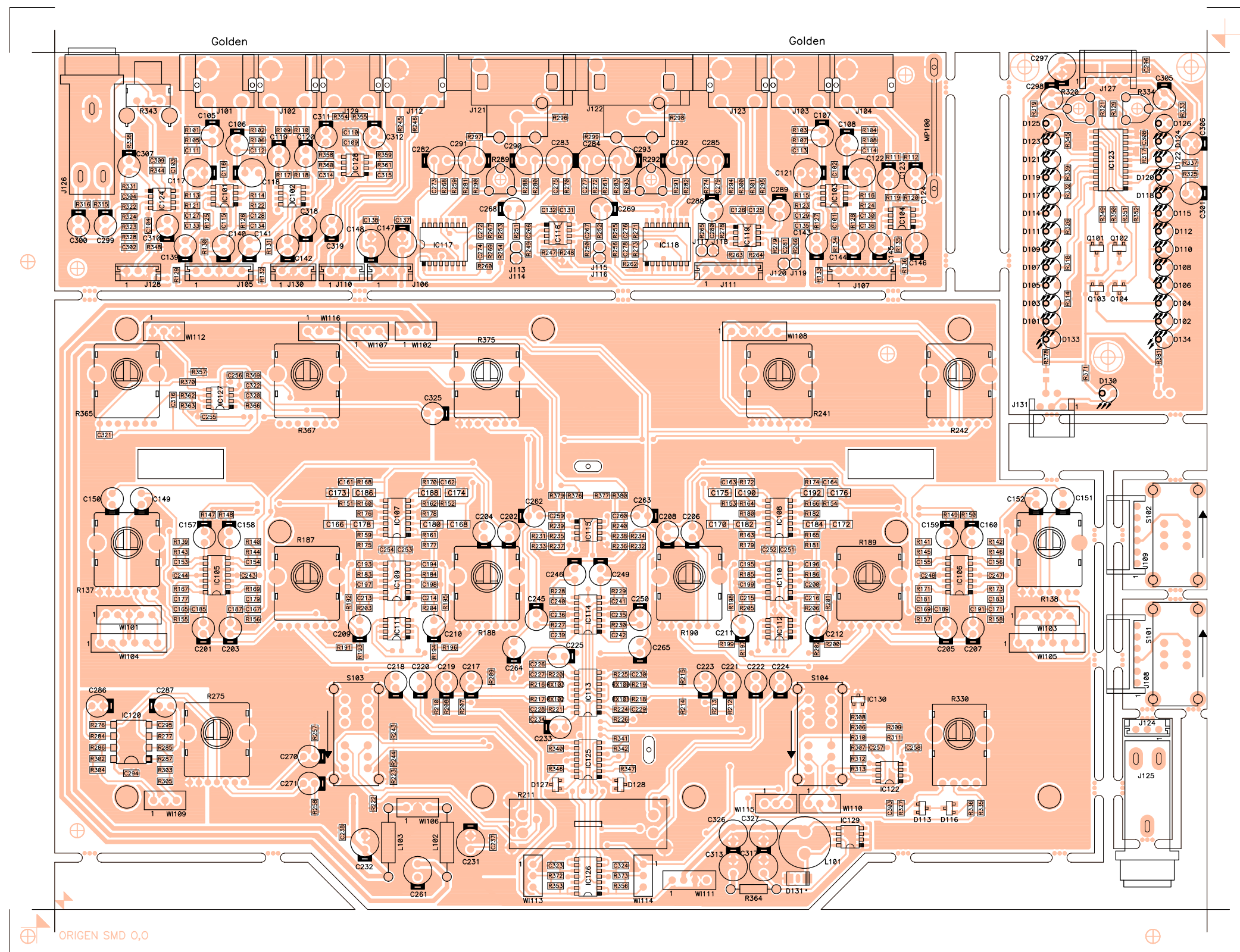


Overall Sch.



Printed Board 11.0903

Potentiometers Sch.



Mains Cts.



PARTS LIST: PRINTED CIRCUIT

MAIN CT

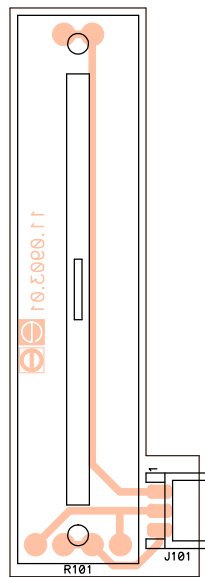
REF. NO.	PARTS NO.	DESCRIPTION
		MAIN CT
D113, 116	9A09404300	SMD ZENER DIODE 7.5V
D127, 128	9A09412800	SMD DIODE BAS16
D131	9A09412900	SMD DIODE SCHOTTKY 1A
IC105-110	9A09409300	INTEGRATED CT.TL074 SMD
IC111, 112	9A09410800	INTEGRATED CT.TL072 SMD T
IC113	9A09410900	INTEGRATED CT.SSM2164S
IC114	9A09409300	INTEGRATED CT.TL074 SMD
IC115	9A09411200	INTEGRATED CT.4580E SMD
IC120	9A09406700	INTEGRATED CT.NJM4556D
IC122, 127	9A09410800	INTEGRATED CT.TL072 SMD T
IC125, 126	9A09409300	INTEGRATED CT.TL074 SMD
IC129	9A09411000	INTEGRATED CT.LM2594M-5.0
IC130	9A09411100	INTEGRATED CT.LM431ACM3X
L101	9A09406600	RADIAL INDUCTANCE 220UH
L102, 103	9A09407400	CHOKE 10UH 10%
R137, 138	9A09405300	ROT.POT.10KA*2 SPIDER PLA
R187-190	9A09405400	ROT.POT.50KB*2CC SP.PLAST
R211	9A09405900	SLIDE POT.20MM 2*5KBCC
R241, 242	9A09405300	ROT.POT.10KA*2 SPIDER PLA
R275	9A09405300	ROT.POT.10KA*2 SPIDER PLA
R330	9A09404900	ROT.POT.10A500KD SP.PLAST
R365	9A09405400	ROT.POT.50KB*2CC SP.PLAST
R367	9A09405400	ROT.POT.50KB*2CC SP.PLAST
R375	9A09405300	ROT.POT.10KA*2 SPIDER PLA
S103, 104	9A09406400	LEVER SWITCH.2P DJ TYPE
SP101-109	9A09406000	PCB SPACER 3*13 PL.2693

INPUTS-OUTPUTS CT

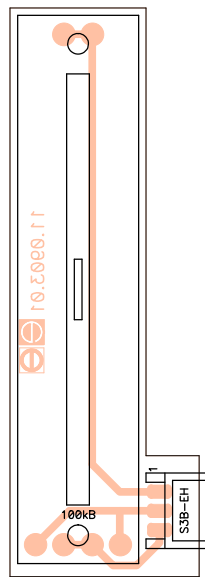
REF. NO.	PARTS NO.	DESCRIPTION
		INPUTS-OUTPUTS CT
IC101, 103	9A09411200	INTEGRATED CT.4580E SMD
IC102	9A09410800	INTEGRATED CT.TL072 SMD T
IC104, 116	9A09410800	INTEGRATED CT.TL072 SMD T
IC117, 118	9A09411300	INTEGRATED CT.NE5532D SMD
IC119	9A09410800	INTEGRATED CT.TL072 SMD T
IC124, 128	9A09410800	INTEGRATED CT.TL072 SMD T
J101, 103	9A09408400	RCA SOCKET GOLDEN
J102, 104	9A09408300	RCA SOCKET NICKEL
J105, 107	9A09407100	CONEC. JST. 2.54 5-R B5BEHA
J106, 110	9A09407200	CONEC. JST. 2.54 3-R B3BEHA
J111	9A09407100	CONEC. JST. 2.54 5-R B5BEHA
J112	9A09408300	RCA SOCKET NICKEL
J113-120	9A09404400	JUMPER PIN
J121, 122	9A09408200	XLR SOCKET MALE
J123	9A09408300	RCA SOCKET NICKEL
J126	9A09408500	JACK SOCKET 6/35
J128	9A09407200	CONEC. JST. 2.54 3-R B3BEHA
J129	9A09408300	RCA SOCKET NICKEL
J130	9A09407200	CONEC. JST. 2.54 3-R B3BEHA
MP100	9A09404800	RCA SHILDING PLATE
R289, 292	9A09417800	VARIABLE RESISTOR 10K LIN
R343	9A09405600	ROT.POT.50KB RK09

V.U.METER CT

REF. NO.	PARTS NO.	DESCRIPTION
		V. U. METER CT
D101-112	9A09406100	LED GREEN 3MM TLHG4400 TF
D114, 115	9A09406100	LED GREEN 3MM TLHG4400 TF
D117, 118	9A09406300	LED YELLOW 3MM TLH4400
D119-126	9A09406200	LED RED 3MM TLHR4400 TFKE
D130	9A09406200	LED RED 3MM TLHR4400 TFKE
D133, 134	9A09406100	LED GREEN 3MM TLHG4400 TF
IC123	9A09411400	INTEGRATED CT.BA6820F SMD
J127	9A09406900	CONEC. JST. 2.54 4-A S4B-EH
J131	9A09407000	CONEC. JST. 2.54 3-A S3B-EH
Q101-104	9A09415700	SMD TRANS.BC857B SOT-23
R320	9A09417800	VARIABLE RESISTOR 10K LIN
R334	9A09417800	VARIABLE RESISTOR 10K LIN



Potentiometer Ct.

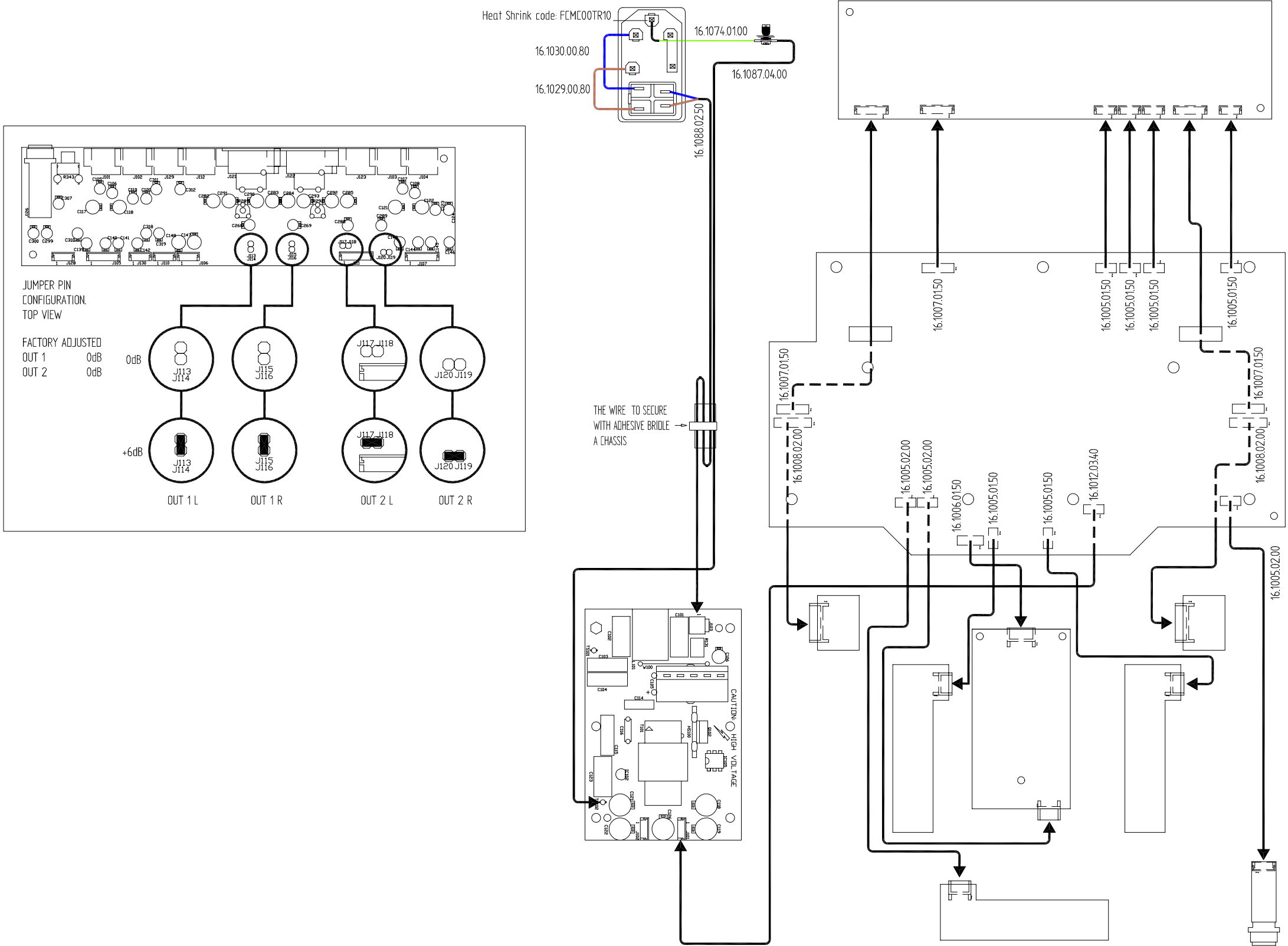


Potentiometer Ct.

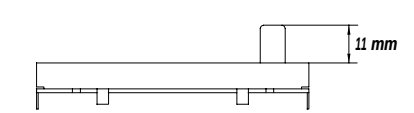
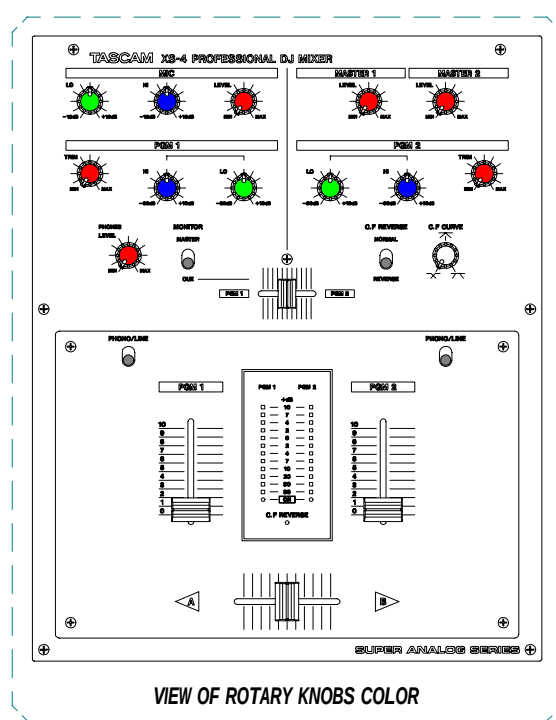
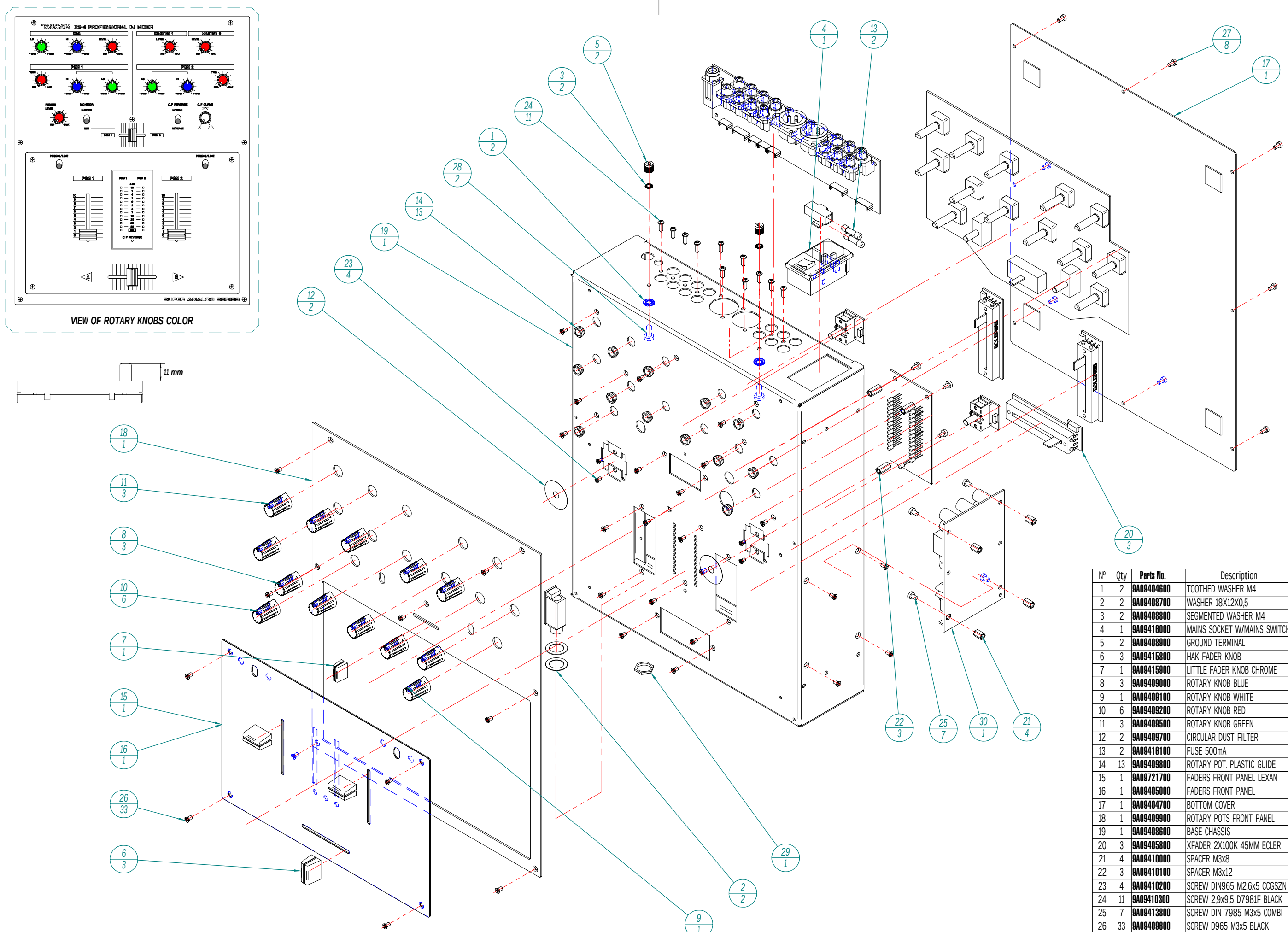
TECHNICAL CHARACTERISTICS

Inputs Sensitivity nom/Impedance	PHONO LINE/CD MICRO (BAL) EXT INPUT	-45 dBV/50k Ω -10 dBV/50k Ω -50 ÷ -30dBV/1.5k Ω 0 dBV/20k Ω
Outputs Level/Minimum Load	OUT 1 (BAL) OUT 2 REC HEADPHONES	0(+ 6)*dBV 600 Ω 1 (2)V 0(+ 6)*dBV 1k Ω 1 (2)V 0dBV/10k Ω 230mW/400 Ω
Input level adjust	PHONO LINE/CD	-15 ÷ -45dBV + 20 ÷ -10dBV
Input tone adjust	MICRO	$\pm$ 10dB @ 100Hz $\pm$ 10dB @ 10kHz
Frequency Response	PHONO LINE/CD MICRO	RIAA $\pm$ 0.5dB 10Hz ÷ 30kHz -1dB 10Hz ÷ 30kHz -1dB
THD + N	PHONO LINE/CD MICRO	< 0.09% < 0.08% < 0.15%
CMRR	MICRO	> 70dB 1kHz
Signal Noise Ratio	PHONO LINE/CD MICRO	> 90dBV > 95dBV > 75dBV
Tone control	BASS TREBLE	-30/ + 10dB -30/ + 10dB
Kill Filters (cut frequency at -6dB) Slope 12dB/oct in all the cases	HIGH LOW	6.5kHz 200Hz
Mains	VOLTAGE FREQUENCY	100-240 VAC 50-60 Hz
Power consumption		22 VA
Dimensions	Panel Depth	265x325mm 80mm
Weight		3.6kg.

*Internally selectable



WIRING & CONFIGURATION DIAGRAM



MECHANICAL DIAGRAM

NOTE:
TO VIEW GROUND CABLES POSITION IN
FONT30C, SEE WIRING DIAGRAM NUMBER
31.0148

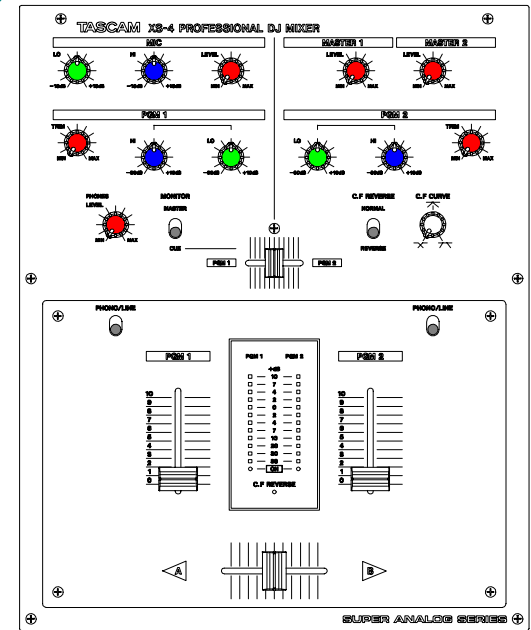
Nº	Qty	Parts No.	Description
1	2	9A09404600	TOOTHED WASHER M4
2	2	9A09408700	WASHER 18X12X0,5
3	2	9A09408800	SEGMENTED WASHER M4
4	1	9A09418000	MAINS SOCKET W/MAINS SWITCH
5	2	9A09408900	GROUND TERMINAL
6	3	9A09415800	HAK FADER KNOB
7	1	9A09415900	LITTLE FADER KNOB CHROME
8	3	9A09409000	ROTARY KNOB BLUE
9	1	9A09409100	ROTARY KNOB WHITE
10	6	9A09409200	ROTARY KNOB RED
11	3	9A09409500	ROTARY KNOB GREEN
12	2	9A09409700	CIRCULAR DUST FILTER
13	2	9A09416100	FUSE 500mA
14	13	9A09409800	ROTARY POT. PLASTIC GUIDE
15	1	9A09721700	FADERS FRONT PANEL LEXAN
16	1	9A09405000	FADERS FRONT PANEL
17	1	9A09404700	BOTTOM COVER
18	1	9A09409900	ROTARY POTS FRONT PANEL
19	1	9A09408600	BASE CHASSIS
20	3	9A09405800	XFADER 2X100K 45MM ECLER
21	4	9A09410000	SPACER M3x8
22	3	9A09410100	SPACER M3x12
23	4	9A09410200	SCREW DIN965 M2,6x5 CCGSZN
24	11	9A09410300	SCREW 2,9x9,5 D7981F BLACK
25	7	9A09413800	SCREW DIN 7985 M3x5 COMBI
26	33	9A09409600	SCREW D965 M3x5 BLACK
27	8	9A09410500	SCREW M3x5 REDUCED HEAD
28	2	9A09410600	SCREW M4x10 TRILOB. W
29	1	9A09409400	NUT M12
30	1	9A09721800	FONT30C POWER SUPPLY

EUR VERSION

N°	Qty	Parts No.	Description
1	2		BAG 60x80
2	1		PLASTIC BAG 120x180
3	1		STANDARD BAG 43x60
4	1		PACKING CARDBOARD BOX
5	2		INTERIOR REINFORCEMENT
6	1	9A09722400	MAINS CABLE 3x1
7	1		UNIT INFORMATION LABEL (EUR)
8	1		USER MANUAL BAG
9	1		WORLDWIDE DISTRIBUTORS LIST
10	1	0006859008	USER MANUAL
11	5	9A09722800	MINI JUMPER EDJ1ZO
12	4	9A09722900	RUBBER FOOT
13	1		WARRANTY CARD

EXT/C VERSION

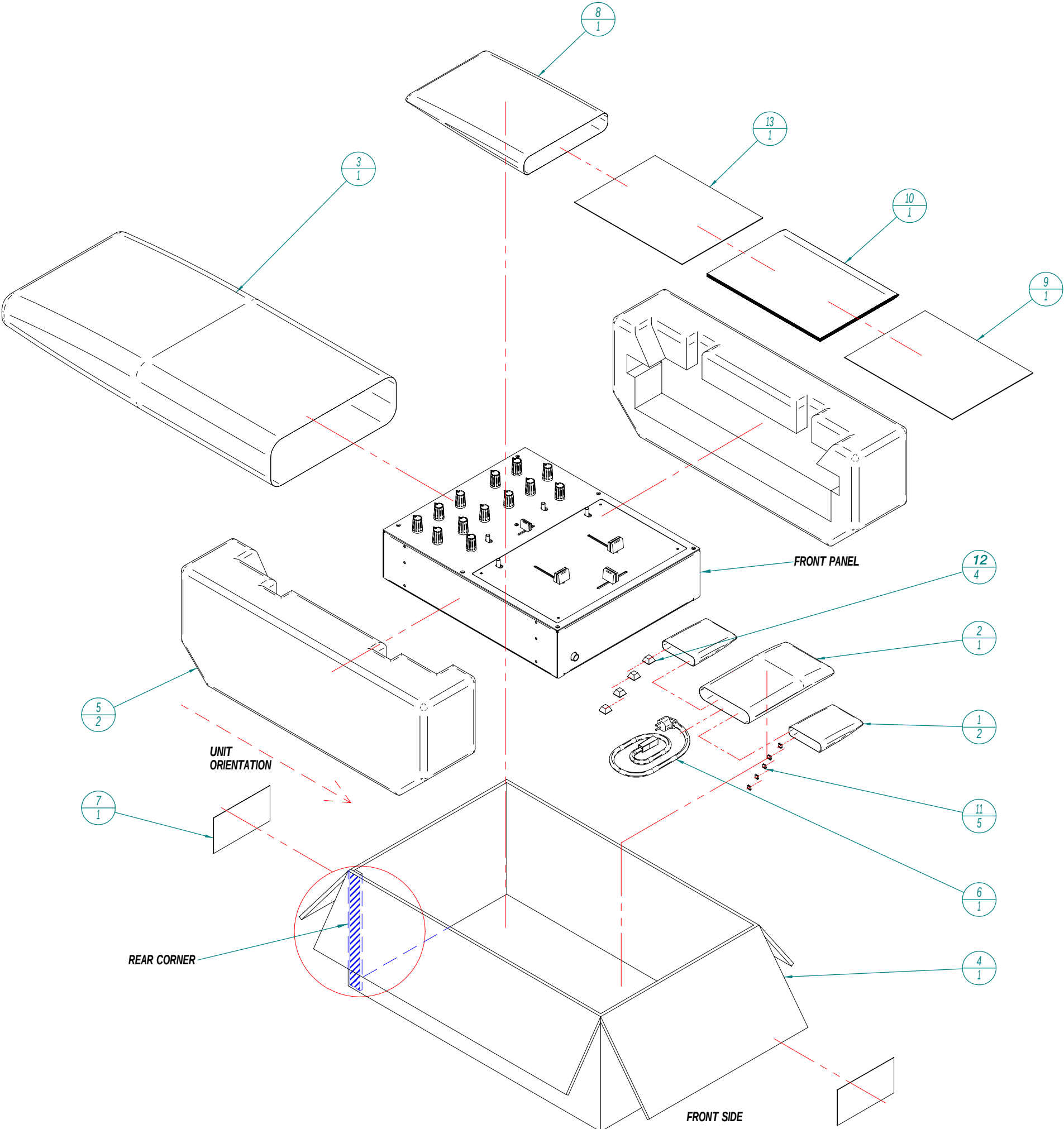
N°	Qty	Parts No.	Description
1	2		BAG 60x80
2	1		PLASTIC BAG 120x180
3	1		STANDARD BAG 43x60
4	1		PACKING CARDBOARD BOX
5	2		INTERIOR REINFORCEMENT
6	1	9A09723900	MAINS CABLE 3x1 US VERSION
7	1		UNIT INFORMATION LABEL US VERSION
8	1		USER MANUAL BAG
9	1		WORLDWIDE DISTRIBUTORS LIST
10	1	0006859008	USER MANUAL
11	5	9A09722800	MINI JUMPER EDJ1ZO
12	4	9A09722900	RUBBER FOOT
13	1		WARRANTY CARD US VERSION



VIEW OF ROTARY KNOBS, FADER/XFADER/BAL KNOBS & SWITCH LEVERS POSITION

- GAIN & CURVE ROTARY KNOBS, AT THE MINIMUM.
- TONE ROTARY KNOBS, AT THE MIDDLE.
- FADER KNOBS, AT THE MINIMUM.
- XFADER KNOB, AT THE MIDDLE.
- BALANCE KNOBS, AT THE MIDDLE.
- PGM1/PGM2 SELECTION KNOB, AT THE MIDDLE.
- SWITCH LEVERS, DOWN.
- MAINS SWITCH IN OFF POSITION.

PACKING DIAGRAM



-THE FRONT PANEL OF THE UNIT MUST BE ORIENTATED TO THE FRONT SIDE OF PACKING CARDBOARD BOX