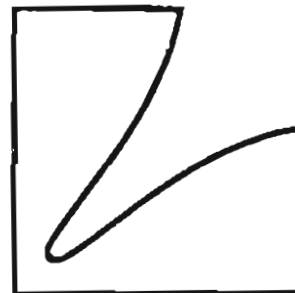


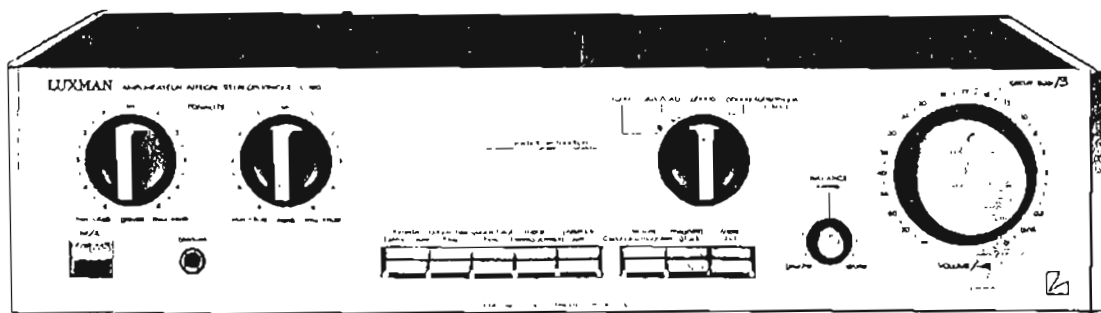
# LUXMAN

## SERVICE MANUAL

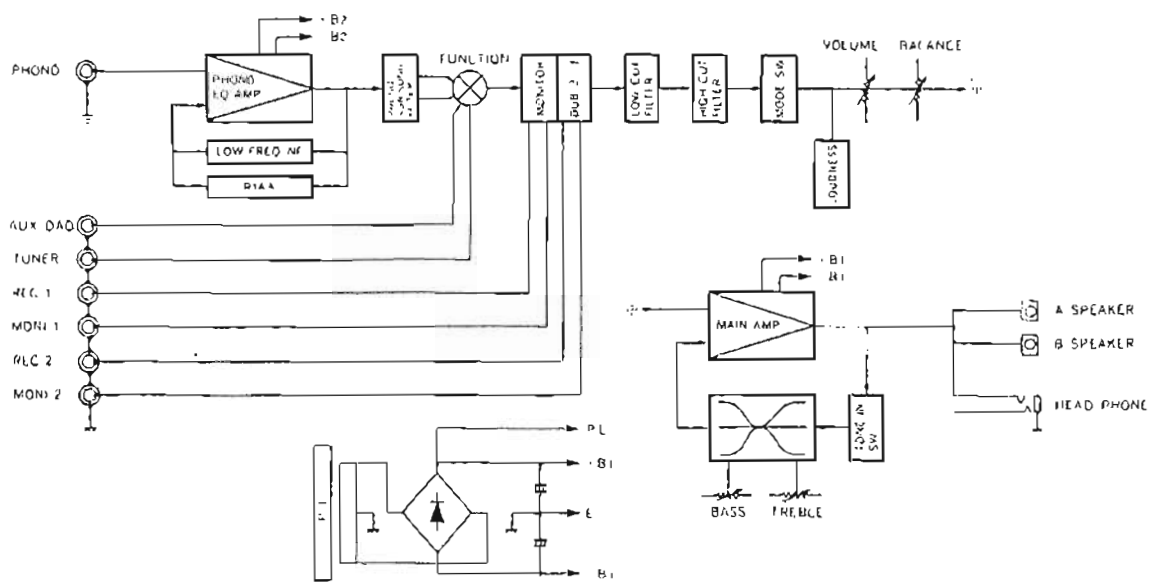


O-BETA CIRCUIT STEREO  
INTEGRATED AMPLIFIER

# L-190A



# Block Diagram

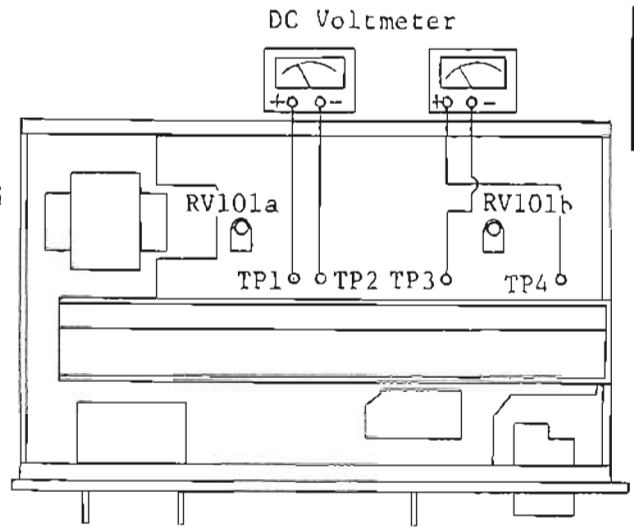


PHONO EQ AMP

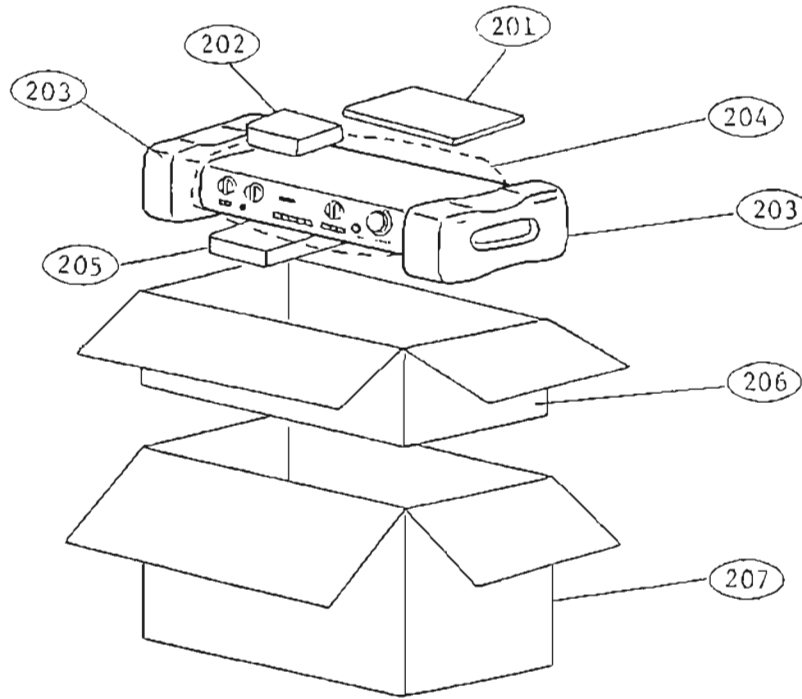
# Adjustment Procedure

## Bias (Idle) Current Adjustment

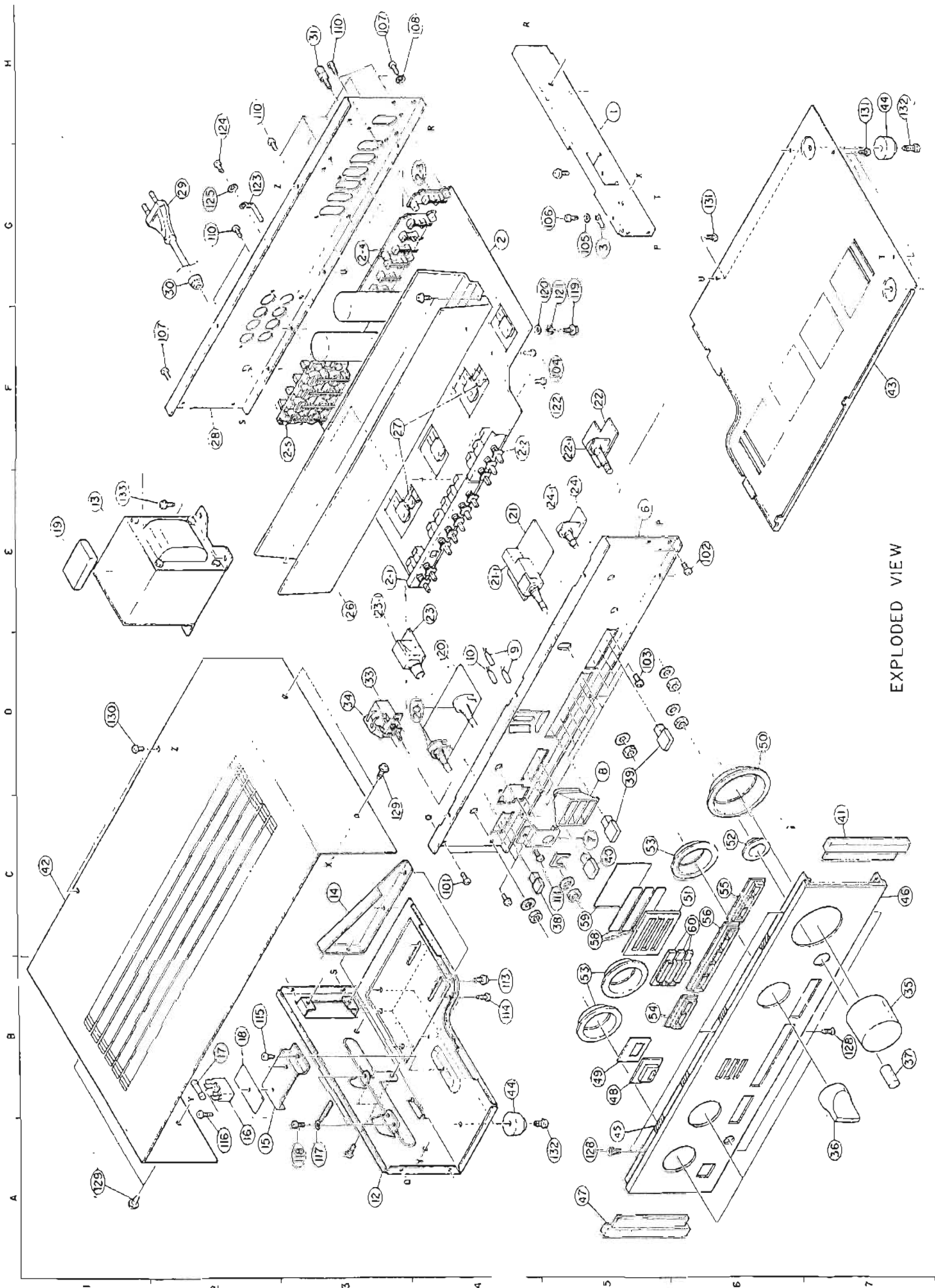
1. Connect a DC Voltmeter in between TP1 and TP2 on L-ch and or TP4 and TP3 on R-ch, Making TP1 and TP4 positive respectively.
2. Adjust the RV101a and RV101b to obtain 15mV±5mA reading on the meter.



## Packing Material Parts List



Symbol No.	Stock No.	Description
201	ME0253	Owner's Manual
202	56A58581F01	Pad, Spacer
203	56C56637F01	Packing, Tray
204	56B40230G23	Sack, Poly
205	56A57423F04	Pad, Packing
206	56C53420F49	Carton, Packing
207	56C53420F26	Carton, Bulk Packing

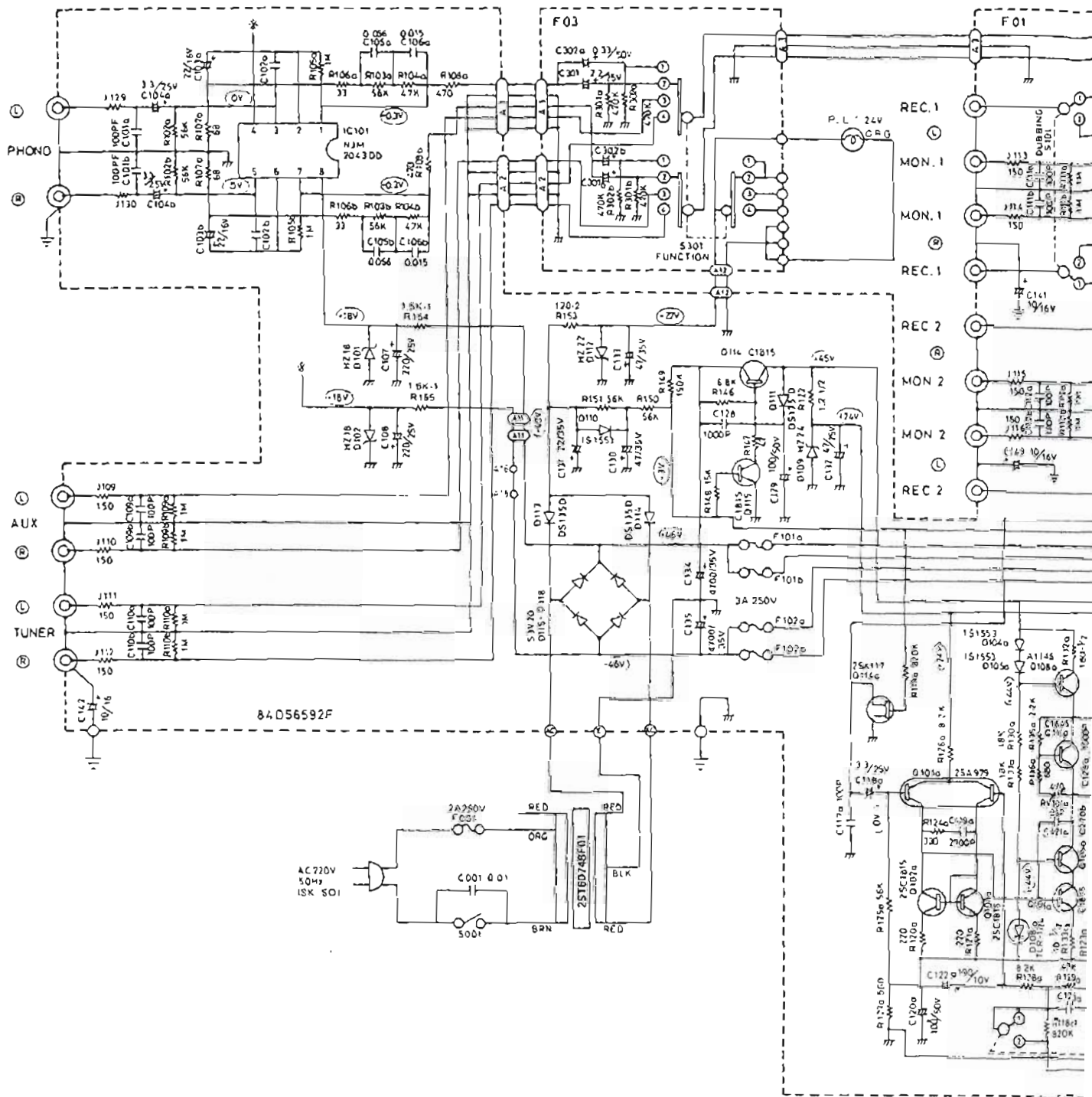


EXPLODED VIEW

# Exploded Parts List

Index	Symbol No.	Stock No.	Description
H-5	1	07B56633F01	Bkt, R
G-4	2	01V59300F91	Ass'y, Pre/Main PCB
E-3	2-1	40T56652F01	SW, Push SUN53 (SW104-108)
F-3	2-2	40T56653F01	SW, Push SUN33 (SW101-103)
G-4	2-3	09T57203F01	Plate, Phone 2P (E101)
G-3	2-4	09T57203F02	Plate, Phone 6P (E102,103)
F-3	2-5	09T51101F01	Terminal, SP (E104)
G-5	3	29A41814G01	Lug
E-5	6	27C56631F01	Chassis, Front
C-5	7	07A57048F01	Bkt, Phones
D-5	8	43A56651F01	Bushing, Rubber
		91A57951F01	Filter, 1035
D-4	9	65T56669F01	Lamp, Pilot (aux,tuner)
D-4	10	Non Use	
A-3	12	07C56632F01	Bkt, Trans
E-1	13	25T60748F01	Trans, Power
C-3	14	07B57267F01	Bkt, Trans
A-2	15	07A56634F01	Bkt, Fuse
A-2	16	09T51074F01	Holder, Fuse
B-2	17	65T57086F07	Fuse, 51NM 2.0-250
B-2	18	Non Use	
E-1	19	43A51798F02	Spacer, 1154-2
D-4	20	01V58100F06	Ass'y, Tone Cont. PCB
D-4	<u>20-1</u> <i>T-S</i>	18T56663F01	VR, Rotary 50KCx2 (RV201,202)
E-4	21	01V58100F07	Ass'y, Function SW PCB
E-4	21-1	40T56664F01	SW, Rotary SRZ (S301)
F-5	22	01V58100F08	Ass'y, VR Cont. PCB
F-5	<u>22-1</u> <i>Vol.</i>	18T56666F01	VR, Rotary 250KW (RV601)
E-4	23	01V58600F19	Ass'y, Head Phone PCB
E-3	23-1	09T55174F01	Jack, Head Phone (E105)
E-5	24	01V58100F10	Ass'y, Balance Cont. PCB
E-5	<u>24-1</u> <i>Do.</i>	18T56665F01	VR, Rotary 100KBx2 (RV401)
E-3	26	07C60750F01	Heat Sink
F-3	27	07R51146F01	Support, Tr.
F-2	28	15C56636F10	Cover, Rear
G-2	29	28T43812P02	Plug, AC Cord
G-2	30	43B41625J02	Support, Cord
H-3	31	09T51075F01	Terminal, GND
D-3	33	40T56950F01	SW, Power SDL1P (ASF)
D-3	34	08T57437F09	Cap, MP 0.01
B-7	35	36B56627F01	Knob, Rotary VR C
A-7	36	36B56626F01	Knob, Rotary VR B
B-7	37	36A56625F01	Knob, Rotary VR A
C-5	38	36A56639F02	Knob, Push 1171
D-5	39	36A56640F01	Knob, Push 1189
C-5	40	Non Use	
C-7	41	07B56624F02	Frame, Panel-R
C-1	42	15C56629F01	Cover, Top

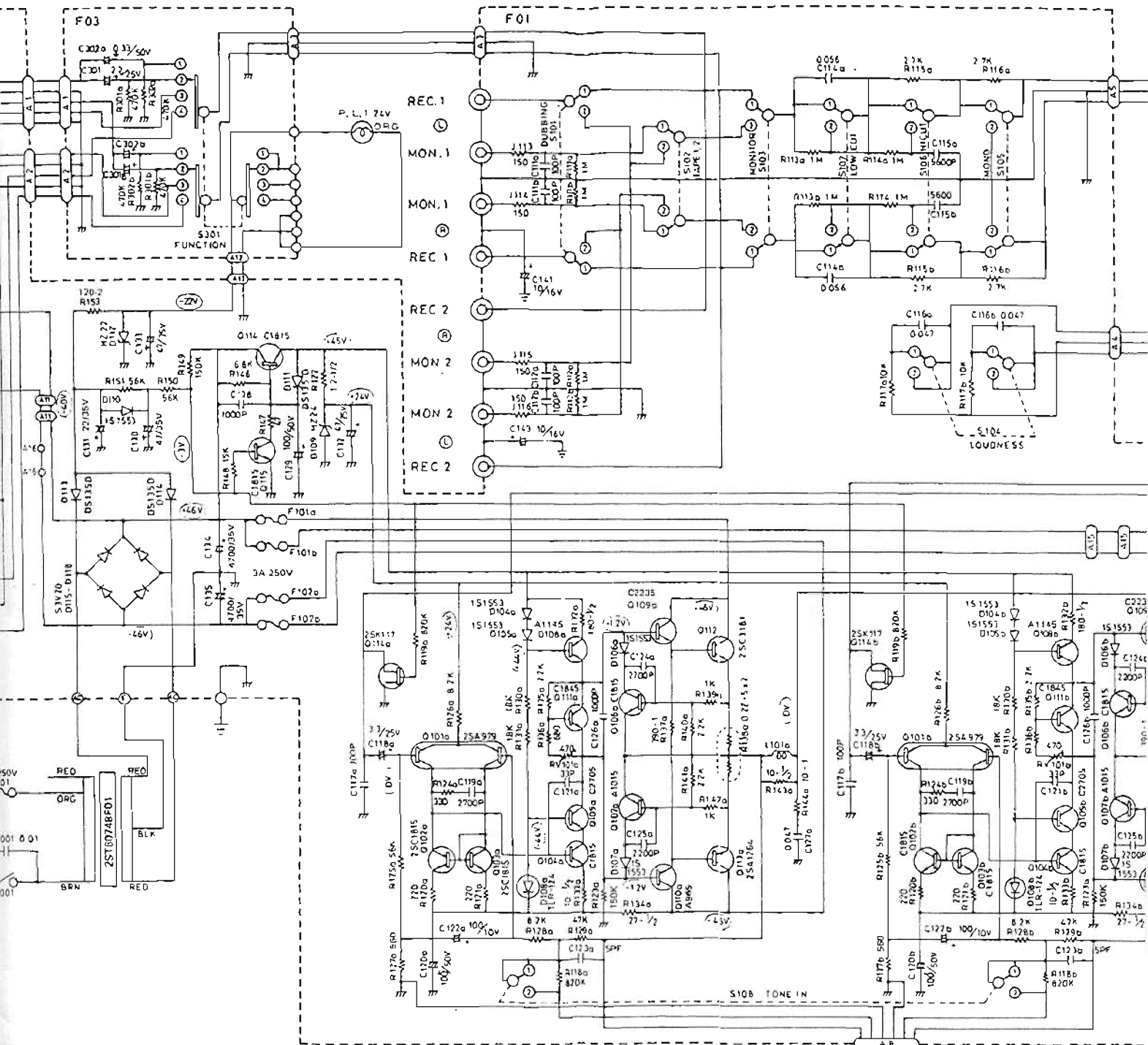
Index	Symbol No.	Stock No.	Description
F-7	43	15C56630F01	Cover, Bottom
B-4/F-7	44	75A52969F01	Pad, Trannleg
A-5	45	14S53018F42	Insulator, 50x5
C-7	46	64C56623F06	Panel, Front
A-5	47	07B56624F01	Frame, Panel Side-L
B-5	48	61A56641F01	Crystal, Indicator
B-5	49	43A56628F01	Spacer, Power
D-6	50	07B56643F01	Frame, Knob 1140
C-6	51	43A56644F01	Spacer, Frame Knob
C-6	52	07A56645F01	Frame, Knob 1156
B-5/C-5	53	07A56648F01	Frame, Knob
B-5	54	Non Use	
C-6	55	07B56646F01	Frame, Knob 1154
C-6	56	01V56647F01	Frame, Knob 1155
C-5	58	61A56649F01	Filter, Lamp
C-5	59	43A56650F01	Spacer, Lamp
C-6	60	61A56642F01	Crystal, Indicator
C-4	101	03S44205G01	Scr, T-Tite M3x6
E-6	102	03S44205G01	Scr, T-Tite M3x6.
D-5	103	03C40014G04	Scr, Mch M3x6
F-5	104	03S40036U02	Scr, T-Tite M3x8
G-5	105	04S40072G16	Wsr, T.L. M3
G-5	106	03C42723U01	Scr, Cup M3x6
F-2/H-3	107	03S44205G02	Scr, T-Tite M3x6
H-4	108	04S40072G16	Wsr, T.L. M3
G-2/H-3	110	03S40012G41	Scr, Tpg. M3x8
C-5	111	03S44205G01	Scr, T-Tite M3x6
E-5	112	03C40014G04	Scr, Mch. M3x6
B-4	113	03S40036U01	Scr, T-Tite M4x8
B-4	114	03S44205G01	Scr, T-Tite M3x6
B-2	115	03S44205G01	Scr, T-Tite M3x6
A-2	116	03S44205G03	Scr, T-Tite M3x8
A-3	117	29C41045P03	Lug, W. Around
A-3	118	03S44205G01	Scr, T-Tite M3x6
G-5	119	03S40011G32	Scr, Mch M3x12
G-5	120	04S40070G05	Wsr, 3.3x8x0.5
G-5	121	04S40071G05	Wsr, 3.1x5.9x0.7
F-5	122	03S40012G28	Scr, Tpg. M3x8
G-2	123	29A737272-A	Lug, W. Around
H-2	124	03S44205G02	Scr, T-Tite M3x6
G-2	125	04S40072G16	Wsr, T.L. M3
A-5/B-7	128	03S44205G16	Scr, T-Tite M3x6
A-1/C-3	129	03S40036U01	Scr, T-Tite M4x8
D-1	130	03S44205G38	Scr, T-Tite M3x6
G-6/H-7	131	03S44205G02	Scr, T-Tite M3x6
A-5/H-7	132	03S44205G25	Scr, T-Tite M4x10
E-1	133	03S40036U01	Scr, T-Tite M4x8



**Remarks**

1. Unless otherwise specified, all resistors are  $\pm 10\%$  and all capacitors are micro farad.
2. Transistors and diodes may be replaced with a having comparable ratings.
3. Due to continued improvements LUX reserve the specifications.

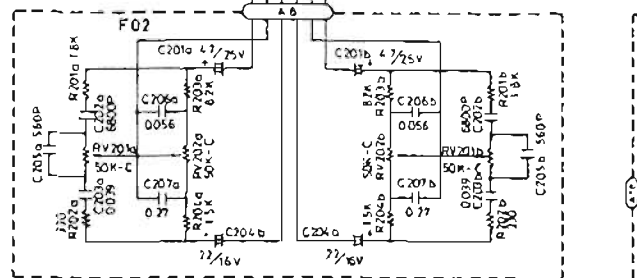




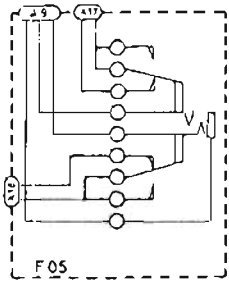
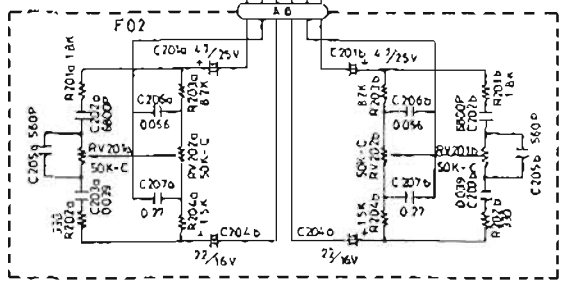
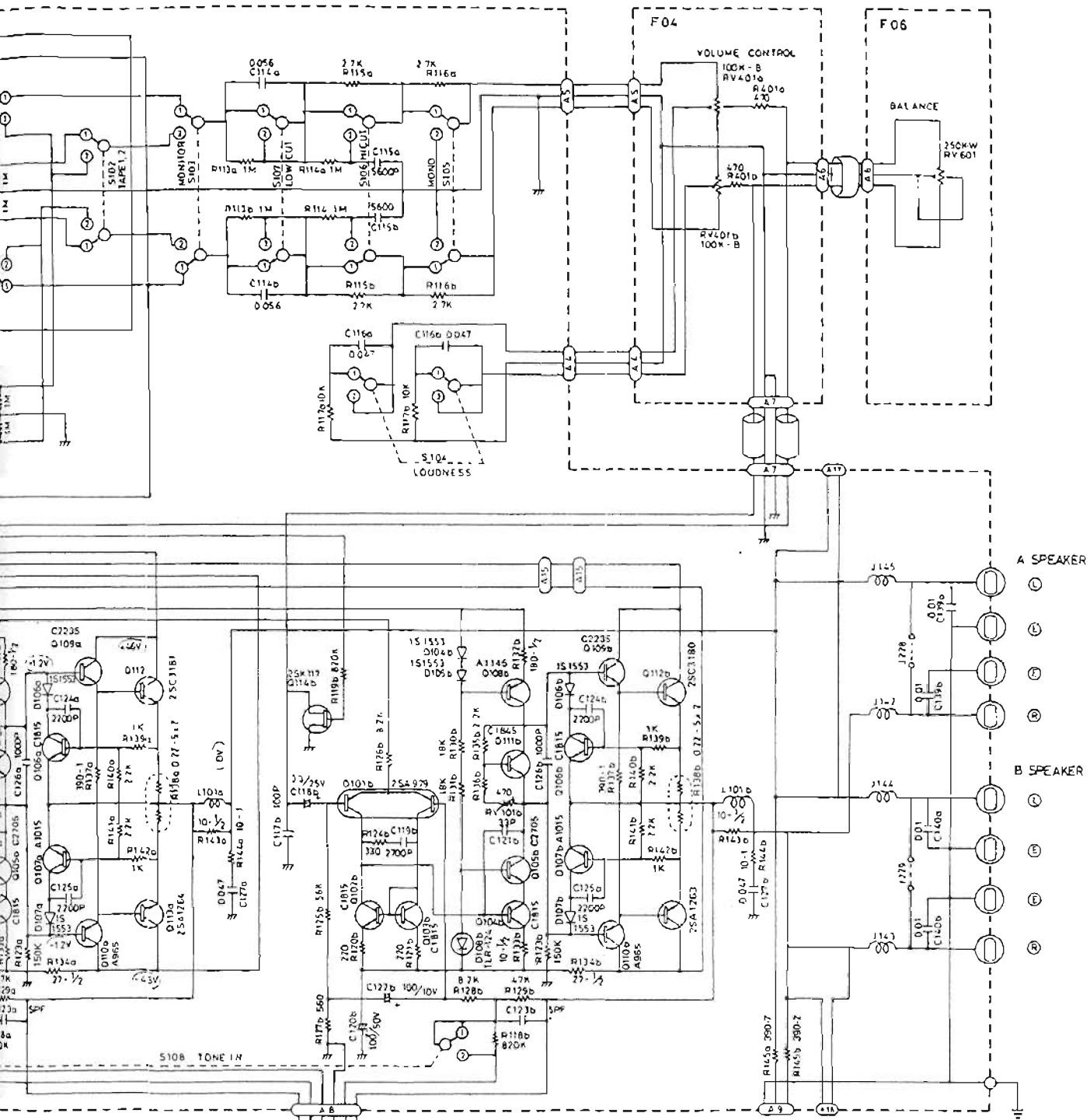
**Remarks**

1. Unless otherwise specified, all resistors are in OHM  $\frac{1}{2}$  watt, all capacitors in micro farad.
2. Transistors and diodes may be replaced with any type having comparable ratings.
3. Due to continued improvements LUX reserve the circuit or specifications.

**L-190A**







0.5Watt.  
any type  
circuit or

## Specifications

Power Output:	
8 ohms, 1KHz	30Wx2
Distortion:	0.02%
Input Sensitivity:	
Phono (MM)	1.8mV
Tuner	160mV
Aux/DAD	160mV
Monitor	160mV
Input Impedance:	
Phono (MM)	50K ohms
Tuner	40K ohms
Aux/DAD	40K ohms
Monitor	40K ohms
S/N Ratio:	
Phono (MM)	90dB
(IHF-A weighted, 5mV)	
Tuner	107dB
(IHF-A weighted)	
Aux/DAD	107dB
(IHF-A weighted)	
Residual Noise:	0.5mV
Filter:	
High cut	7KHz (-6dB/oct.)
Low cut	70Hz (-6dB/oct.)
Phono-Subsonic	15Hz (-6dB/oct.)
Phono (MM) Overload:	130mV
Frequency Response:	
Phono (MM)	20Hz-20KHz (within $\pm 0.5$ dB)
Tuner	10Hz-100KHz (within +0, -1.5dB)
Aux/DAD	10Hz-100KHz (within +0, -1.5dB)
Monitor	10Hz-100KHz (within +0, -1.5dB)
Tone Control:	
Treble	+8dB at 10KHz
Bass	+8db at 100Hz
Loudness:	
Volume-30dB	+8db at 100Hz
Dimensions:	453(W) x 317(D) x 111(H) mm (17.8" x 12.5" x 4.4")
Weight:	
Net	6.7kgs
Gross	8.0kgs
Power Consumption:	120V 2A (CSA rated)

Specifications and appearance design subject to change without notice.