

Service Manual

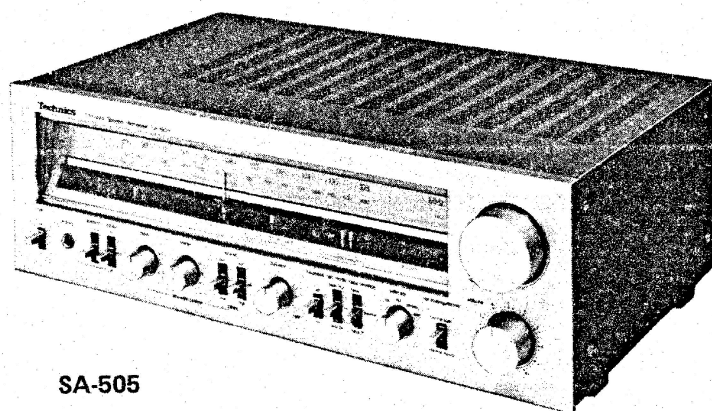
FM/AM Stereo Receiver

SA-505

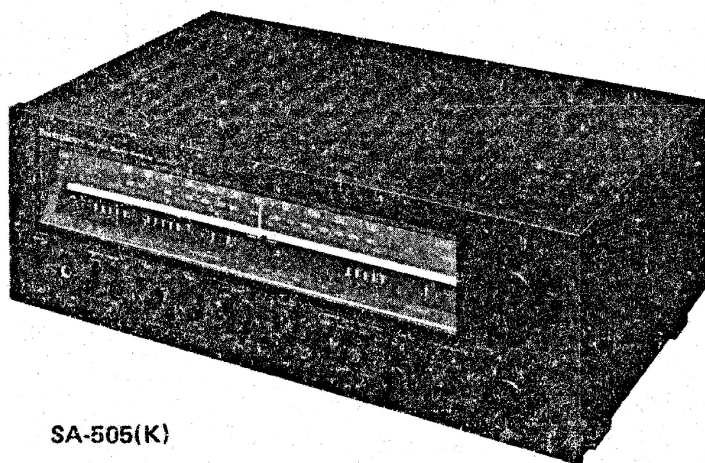
[E], [EG], [XGF], [XGH],
[EB], [XE], [XA], [XAL]

SA-505(K)

[E], [XGH]



SA-505



SA-505(K)

* The colors of this model include silver and black.
The black type model is provided with (K) in the Service Manual.

Areas

- * [E] and [EG] are available in Scandinavia and European.
- * [XGF] is available in France.
- * [XGH] is available in Holland.
- * [EB] is available in Belgium.
- * [XE] is available in United Kingdom.
- * [XA] is available in Asia, Latin America, Middle East and Africa.
- * [XAL] is available in Australia.

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TECHNICAL SPECIFICATIONS

Specifications are subject to change without notice for further improvement.

[DIN 45 500]

AMPLIFIER SECTION

20 Hz ~ 20 kHz continuous power output both channels driven	2 x 63W (4Ω), 2 x 63W (8Ω)
40 Hz ~ 16 kHz continuous power output both channels driven	2 x 63W (4Ω), 2 x 63W (8Ω)
1 kHz continuous power output both channels driven	2 x 80W (4Ω), 2 x 70W (8Ω)
Total harmonic distortion	
rated power at 20 Hz ~ 20 kHz	0.08% (4Ω), 0.04% (8Ω)
rated power at 40 Hz ~ 16 kHz	0.08% (4Ω), 0.04% (8Ω)
rated power at 1 kHz	0.04% (4Ω), 0.04% (8Ω)
half power at 20 Hz ~ 20 kHz	0.02% (8Ω)
half power at 1 kHz	0.009% (8Ω)
-26 dB power at 1 kHz	0.1% (4Ω)
50 mW power at 1 kHz	0.15% (4Ω)
Intermodulation distortion	
rated power at 250 Hz: 8 kHz= 4:1, 4Ω	0.08%
rated power at 60 Hz: 7 kHz=4:1, SMPTE, 8Ω	0.04%

Power bandwidth	10 Hz ~ 35 kHz (4Ω)
both channels driven, -3 dB	17(4Ω), 34(8Ω)
Damping factor	2.5 mV/47kΩ
Input sensitivity and impedance	150 mV/27kΩ
PHONO	150 mV/27kΩ
AUX	180 mV/27kΩ
TAPE 2	150 mV
TAPE 1 REC/PLAY	
PHONO maximum input voltage (1 kHz, RMS)	
S/N	
rated power (4Ω)	70 dB (80 dB, IHF, A, 8Ω)
-26 dB power (4Ω)	88 dB (95 dB, IHF, A, 8Ω)
50 mW power (4Ω)	64 dB
Frequency response	66 dB
AUX	60 dB
PHONO	60 dB
	60 dB
	RIAA standard curve
	±0.3 dB (30 Hz ~ 15 kHz)
	7 Hz ~ 50 kHz (-1 dB)
	±0.2 dB (20 Hz ~ 20 kHz)

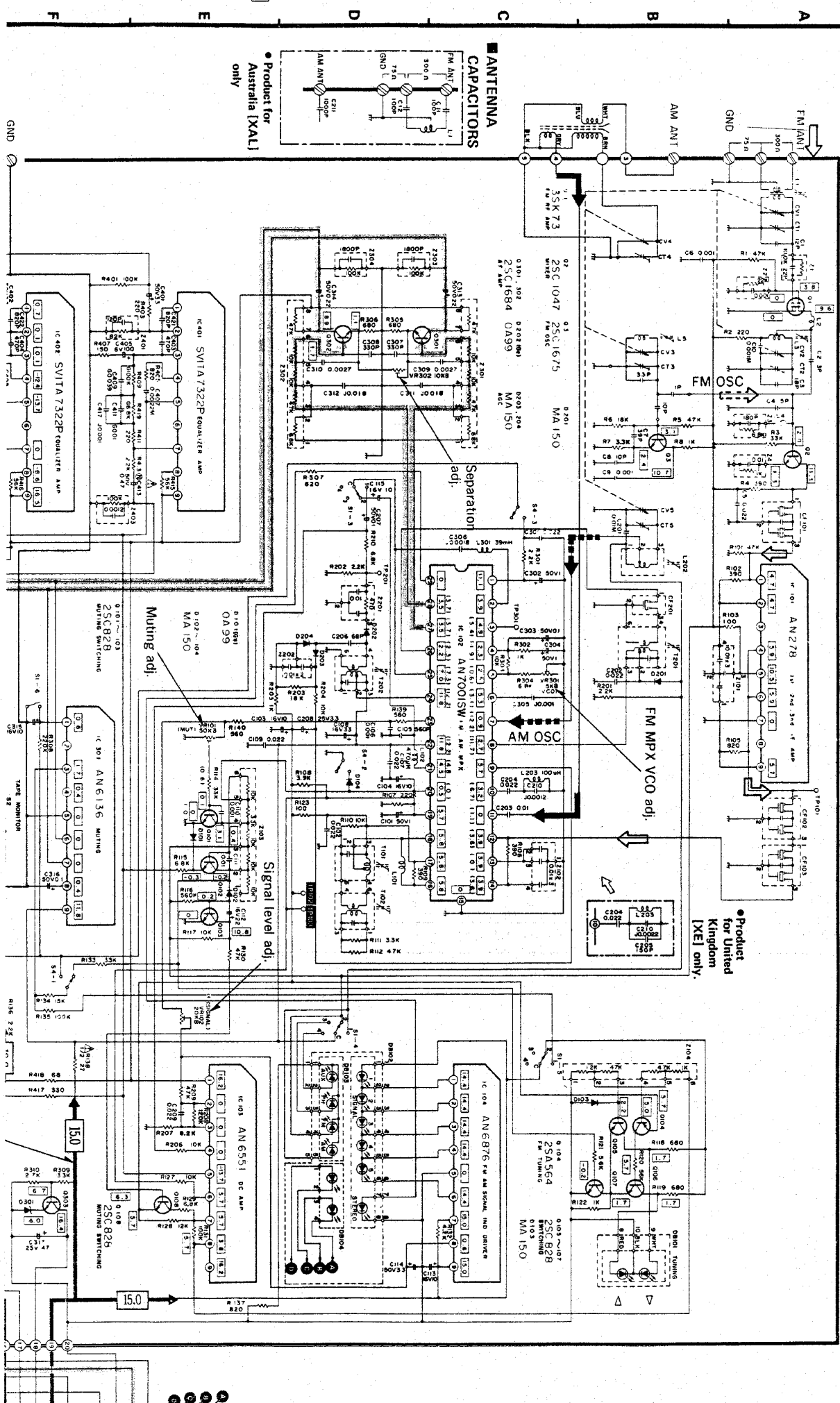
Technics

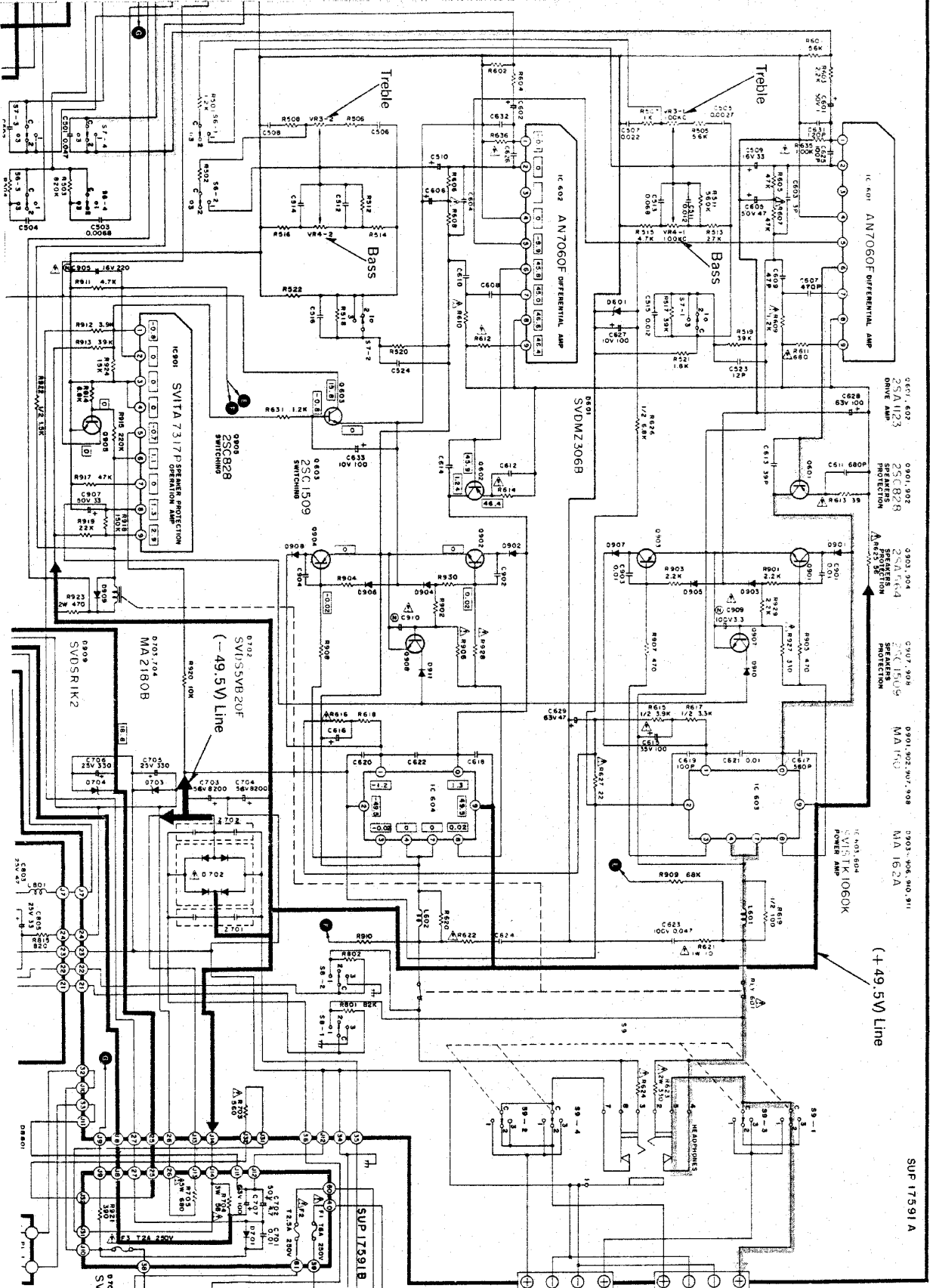
Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

SCHEMATIC DIAGRAM...MODEL

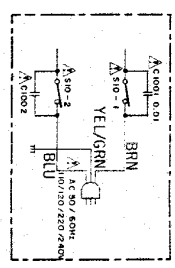
SA-505

(This schematic diagram may be modified at any time with the development of new technology.)

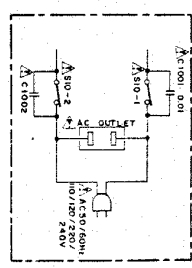




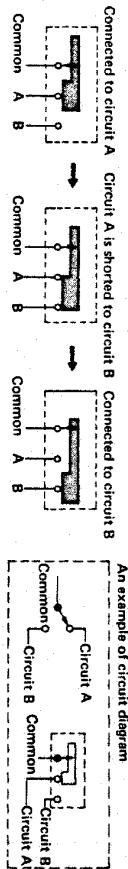
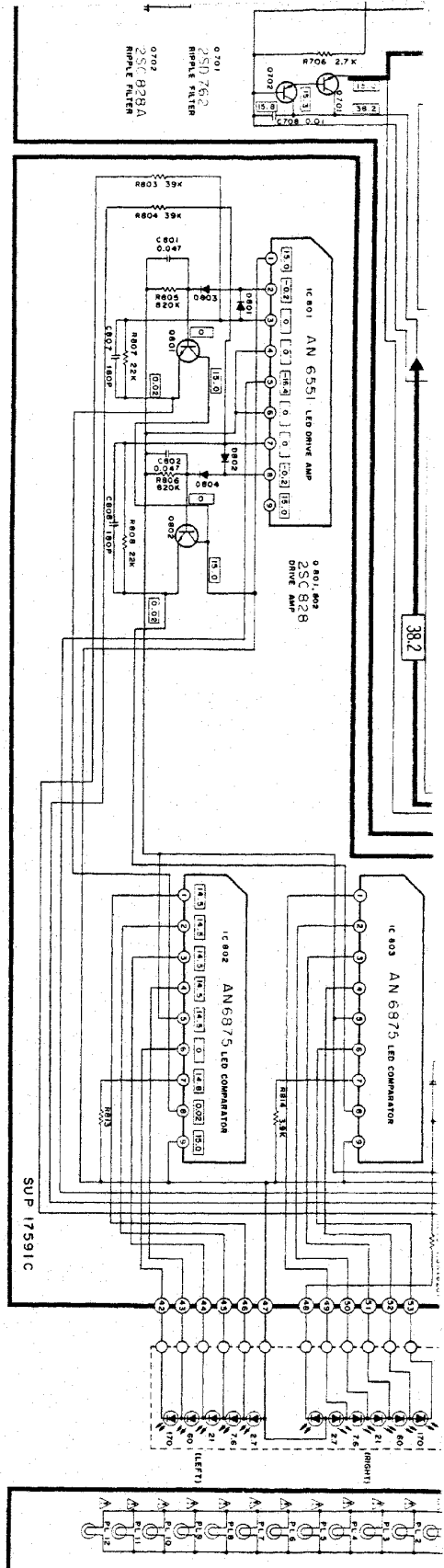
POWER SOURCE CIRCUIT OF OTHER PRODUCTS
 • Product for Australia [XAL] only



• Product for Asia, Latin America, Middle East and Africa [XAL]



- Notes:**
1. S1-1~S1-6: Selector switch in "FM" position.
 2. S2-1~S2-4: Tape monitor switch in "source".



3. S31~S34: Rec mode switch in "source" position. (1) tape 1 (2) source (3) tape2
4. S41~S43: FM muting/mode switch in "ON/FM" position.
5. S51, S52: Loadswitch in "OFF" position.
6. S61~S64: Boost/filter switch (high) in "OFF" position.
7. S71~S74: Boost/filter switch (low) in "OFF" position.
8. S8: Power display range selector switch in "X1" position.
9. S9: Speaker selector switch in "MAIN" position.
10. S10: (1) remote (2) main (3) main + remote
11. S11: Voltage adjuster switch in "240V" position.
12. A: Indicates that only parts specified by the manufacturer be used for safety.
13. Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
14. Not apply signal to set and muting switch to OFF condition.
15. AF signal lines: AF signal lines.
16. FM signal lines: FM signal lines.