

Service Manual

Receiver

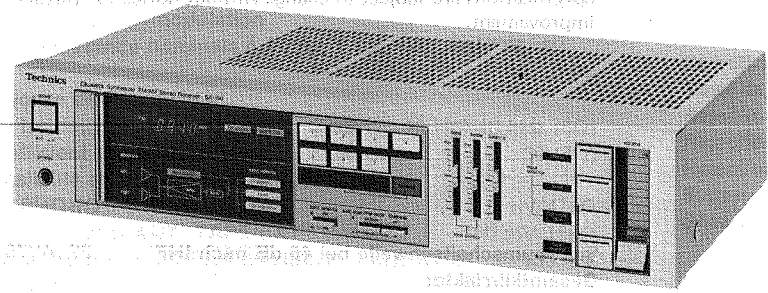
SA-150

QUARTZ Synthesizer
 FM/AM Stereo Receiver

Tentative

ARE
 86952

Color
 (S) ... Silver Type
 (K) ... Black Type



Color	Area
(S) (K)	[EX] ... Scandinavia and Switzerland
(S) (K)	[EH] ... Holland
(S)	[XA] ... Southeast Asia, Oceania, Africa, Middle Near East and Central South America
(S) (K)	[XL] ... Australia
(S)	[XM] ... Latin America
(S)	[Ei] ... Italy

Please use this manual together with the service manual for Model No. SA-150[M], Order No. HAD84022715C1.

English

SPECIFICATIONS (DIN 45 500)

■ AMPLIFIER SECTION

1 kHz continuous power output
 both channels driven 2 × 27W (8Ω)

Total harmonic distortion
 half power at 1 kHz 0.07% (8Ω)

Intermodulation distortion
 rated power at 60 Hz: 7 kHz=4:1, SMPTE, 8Ω 0.5%

Power bandwidth
 both channels driven, -3 dB 10 Hz~40 kHz (8Ω)

Damping factor 30 (8Ω)

Input sensitivity and impedance

PHONO 2.5 mV/47kΩ

CD/VIDEO/AUX, TAPE/EXT 150 mV/18kΩ

PHONO maximum input voltage (1 kHz, RMS) 150 mV

S/N

rated power (8Ω)

PHONO 70 dB (IHF, A: 71 dB)

CD/VIDEO/AUX, TAPE/EXT 88 dB (IHF, A: 95 dB)

Frequency response

PHONO RIAA standard curve
 ±0.8 dB (30 Hz~15 kHz)

CD/VIDEO/AUX, TAPE/EXT 5 Hz~70 kHz (-3 dB)

Tone controls

BASS 50 Hz, +10 dB~ -10 dB

TREBLE 20 kHz, +10 dB~ -10 dB

Loudness control (volume at -30 dB) 50 Hz, +9 dB

Output voltage

TAPE/EXT (REC OUT) 150 mV

Channel balance, CD/VIDEO/AUX 250 Hz~6,300 Hz ±1 dB

Channel separation, CD/VIDEO/AUX 1 kHz 55 dB

Headphones output level and impedance 380 mV/330Ω

Load impedance 8Ω~16Ω

■ FM TUNER SECTION

Frequency range 87.50~108.00 MHz

Sensitivity

S/N 30 dB 1.9 μV (300Ω), 1.3 μV (75Ω)

S/N 26 dB 1.7 μV (300Ω), 1.2 μV (75Ω)

S/N 20 dB 1.5 μV (300Ω), 0.9 μV (75Ω)

IHF usable sensitivity 1.9 μV (IHF '58)

IHF 46 dB stereo quieting sensitivity 22 μV/75Ω

Total harmonic distortion

MONO 0.15%

STEREO 0.3%

S/N

MONO 60 dB (77 dB, IHF)

STEREO 58 dB (71 dB, IHF)

Frequency response 20 Hz~15 kHz, +1 dB~-2 dB

Alternate channel selectivity ±400 kHz, 65 dB

Capture ratio 1 dB

Image rejection at 98 MHz 50 dB

IF rejection at 98 MHz 75 dB

Spurious response rejection at 98 MHz 82 dB

AM suppression 50 dB

Stereo separation

1 kHz 40 dB

10 kHz 30 dB

Carrier leak

19 kHz -33 dB (-35 dB, IHF)

38 kHz -50 dB (-50 dB, IHF)

Channel balance (250 Hz~6,300 Hz) ±1.5 dB

Limiting point 1.2 μV

Bandwidth

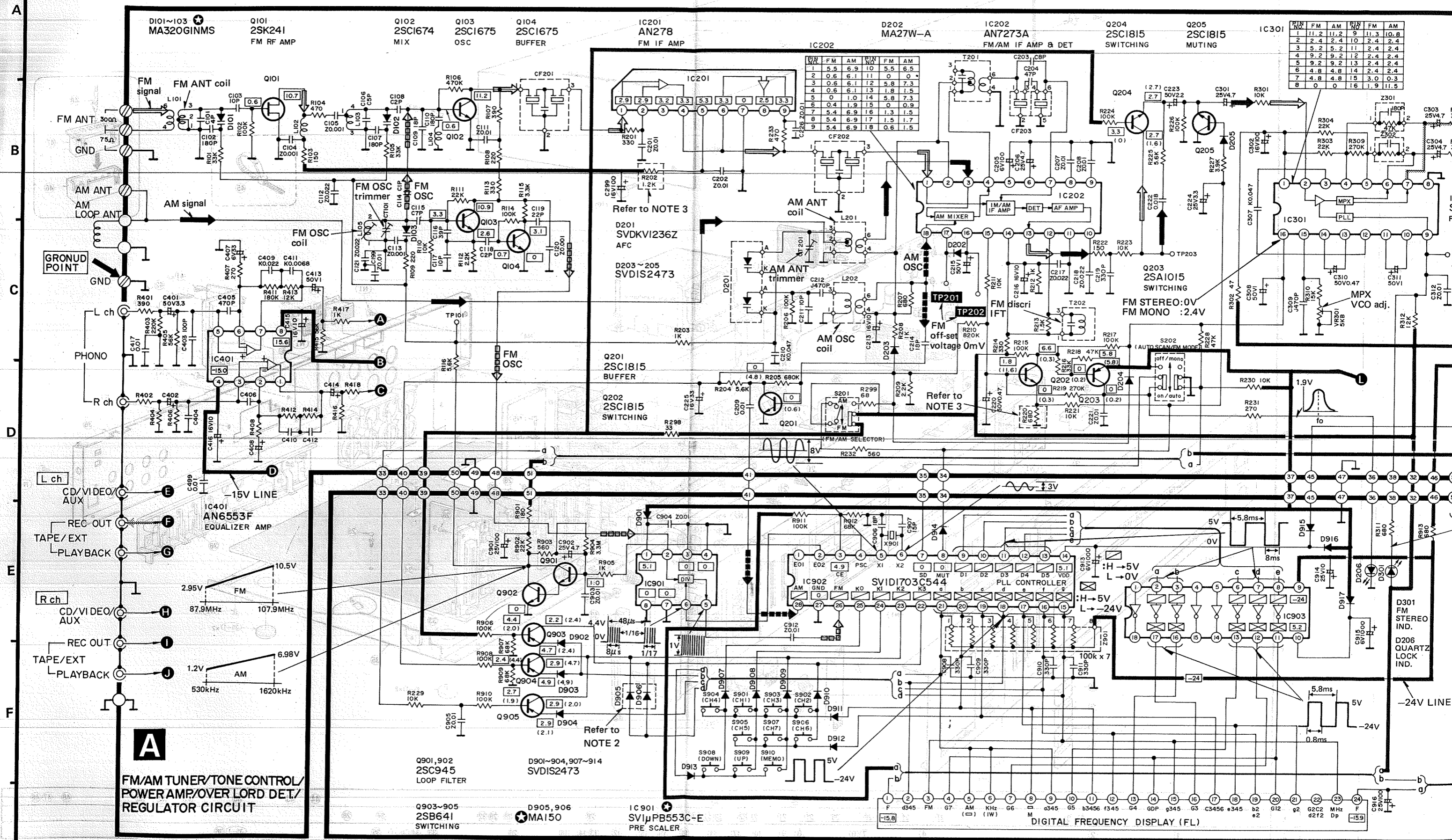
IF amplifier 180 kHz

FM demodulator 1000 kHz

Antenna terminals 300Ω (balanced)
 75Ω (unbalanced)

Technics

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



FM/AM TUNER/TONE CONTROL/ POWER AMP/OVER LOAD DET./ REGULATOR CIRCUIT

DIGITAL FREQUENCY DISPLAY (FL)

