

Service Manual

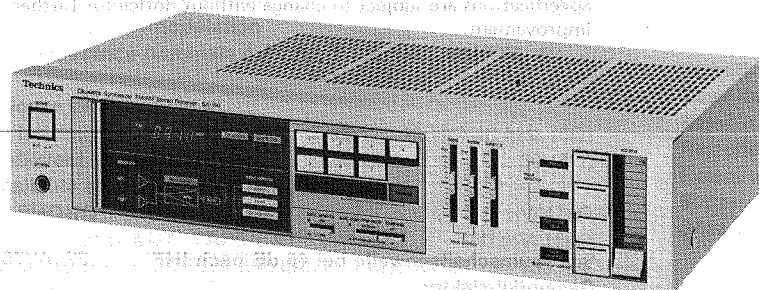
Tentative

QUARTZ Synthesizer
FM/AM Stereo Receiver

Receiver
SA-150

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

- The
ing
whi

1. :

2.

3. :

4.

2

0.1

1

100

The

Whe

1

NOT

The s

to use

must |

NOTE

AN72

this p

1



NOT
• **Us**
The c
to use
At rep
must l

NOTE
AN72
this ur
this po