

Service Manual

AV Control Stereo Receiver



Receiver

SA-HT220

Simplified



Color
[30 Black Type]

Area		
Model for Design Ref.	Area	Color
1 For 3	JAPAN and Canada	30

Please file and use this Service Manual together with the Service Manual for Model No. SA-FX300 (P, PC) Order No. MXT0000201.

Note: This Simplified Service Manual is provided to enhance the safety of service personnel. For details, Model No. SA-HT220 (P, PC) and the reference Model No. SA-FX300.

Specifications

■ FM Tuner Section

Frequency range	76.1 MHz ~ 107.9 MHz
Sensitivity	1.0 μV (20 dB, 100 Hz)
100 dB quieting sensitivity	1.0 μV (20 dB, 100 Hz)
MONO	1.0 μV (20 dB, 100 Hz)
STEREO	1.0 μV (20 dB, 100 Hz)
Total harmonic distortion	
MONO	0.1 %
STEREO	0.1 %
S/N	
MONO	70 dB
STEREO	67 dB
Frequency response	20 Hz ~ 15 kHz (0 dB, 100 Hz)
Automatic channel selectivity	60 dB
Capture ratio	1.5 dB
Signal rejection at 50 MHz	60 dB
Spectrum response rejection at 50 MHz	70 dB

Ant. suppression	40 dB
Service suppression	1 kHz
10 kHz	10 dB
Antenna terminals	75 Ω (balanced)

■ AM Tuner Section

Frequency range	530 kHz ~ 1700 kHz
Sensitivity	75 μV (20 dB, 100 Hz)
Selectivity	50 dB
IF rejection at 450 kHz	50 dB

■ Video Section

Output voltage at 1 V input (unbalanced)	1.4 V (1 kHz)
Maximum input voltage	1.5 V (1 kHz)
Input/output impedance	50 Ω

WARNING

If a service technician is designed, for example, to replace a component, it is very important to use the correct parts. If the correct parts are not used, it may cause a fire or a short circuit. Therefore, it is very important to use the correct parts. If a service technician is designed, for example, to replace a component, it is very important to use the correct parts. If the correct parts are not used, it may cause a fire or a short circuit. Therefore, it is very important to use the correct parts.

Panasonic

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Ht220 Service Manual

Clemens Wendtner

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web the shoe polish was formulated in accordance to the procedure earlier on used in the production of shoe polish from carbon black gumel 2006 15g paraffin wax was melted at 970c to give a fine solution the temperature was lowered to 600 c 2g polyethylene pigment was added and stirred for 5 minutes

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web apr 1 1996 a water resistant shoe polish including in addition to a tradition base mixture of wax and turpentine oil petroleum benzin high vacuum silicone grease glycerin glycerol stearate and stearic

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web it is usually made from ingredients including some or all of naphtha lanolin turpentine wax often called carnauba wax gum arabic ethylene glycol and if required a colourant such as carbon black or an azo dye such as aniline yellow wax comes from a substance between resins and fats

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web in this formulation this traditional black paste shoe polish is based on a combination of synthetic and paraffin waxes which bind well with the solvent base of white spirit the combination of syncrowax erlc an ester wax and syncrowax hgic a hard wax ester allows leather articles to be buffed to a gloss

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web the embodiment of the invention provides a method for producing shoe polish by using wastewater generated in the production of gallic acid which comprises the following steps adding calcium hydroxide suspension into wastewater from gallic acid production mixing standing and filtering to obtain filtrate

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