

TA-F545R/F645R

SERVICE MANUAL

AEP Model



Photo : TA-F645R

SPECIFICATIONS

Amplifier

Continuous RMS power output (both channels driven simultaneously)

Model for Scandinavian countries, Switzerland, Spain and Portugal

		TA-F645R	TA-F545R
DIN, 1 kHz	8 ohms	100 W + 100 W	75 W + 75 W
20 Hz - 20 kHz	8 ohms	70 W + 70 W	55 W + 55 W

Model for other countries

		TA-F645R	TA-F545R
DIN, 1 kHz	4 ohms	125 W + 125 W	95 W + 95 W
	8 ohms	100 W + 100 W	75 W + 75 W
20 Hz - 20 kHz	8 ohms	70 W + 70 W	55 W + 55 W

Input

Input jack	Jack type	Sensitivity	Impedance
PHONO (MM)	Phono	2.5 mV	50 kilohms
PHONO (MC)*	Phono	0.25 mV	100 ohms
TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD	Phono	150 mV	50 kilohms

S/N

	TA-F645R	TA-F545R
PHONO (MM) A, 5 mV	94 dB	87 dB
PHONO (MC)* A, 0.5 mV	76 dB	—
TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD	100 dB	100 dB

*PHONO (MC): only for TA-F645R

Output

Output jack	Jack type	Voltage/impedance
REC OUT	Phono jack	Voltage 150 mV Impedance 1 kohm
SPEAKERS	—	Model for Scandinavian countries, Switzerland, Spain and Portugal: 8 - 16 ohms Model for other countries: 4 - 16 ohms
HEADPHONES	Stereo phone jack	Accepts low and high impedance headphones

Tone controls

	Response	Turnover frequency
BASS	±10 dB (100 Hz)	300 Hz
TREBLE	±10 dB (10 kHz)	5 kHz

Harmonic distortion Less than 0.008 % at 10 W output
Intermodulation (IM) distortion (60 Hz : 7 kHz = 4:1)

Frequency response Less than 0.008 % at 10 W output
PHONO: RIAA equalization curve ±0.5 dB

TUNER, CD, AUX, TAPE 1/DAT, TAPE 2/MD: 7 Hz - 100 kHz ±3 dB
Residual noise Less than 170 µV (network A)
Damping factor 60 (8 ohms, 1 kHz)

— Continued on next page —

INTEGRATED STEREO AMPLIFIER
SONY®

3-7. SCHEMATIC DIAGRAM — PANEL/MAIN SECTION —
 • See page 7 for IC Pin Functions. (IC701)
 • See page 8 for Printed Wiring Boards of Panel section.

