Specifications

Amplifier Section
Rated minimum sine wave RMS power output
20 Hz-20 kHz both channels driven
0.05% total harmonic distortion 100 W per channel (6Ω)
1 kHz continuous power output both channels driven
0.05% total harmonic distortion 105 W per channel (6Ω)
Total harmonic distortion
Rated power at 20 Hz – 20 kHz 0.05% (6Ω)
Half power at 1 kHz 0.03% (6Ω)
Power output at the DVD 6CH operation
20 Hz-20 kHz (each channel driven)
0.09% total harmonic distortion
Front 2 X 100 W (6Ω)
Center 100 W (6Ω)
Surround 2 X 100 W (6Ω)
Subwoofer 20-200 Hz 100 W (6Ω)
Low frequency damping factor 30 (Ω)
Load impedance
Front A or B 4 - 8 Ω
A and B 8 Ω
B-WIRE 8 Ω
Center 6 - 8 Ω
Surround 6 - 8 Ω
Subwoofer 6 - 8 Ω
Dynamic headroom 2 dB (6Ω)
Frequency response
PHONO RIAA standard curve (30 Hz-15 kHz) ± 0.8 dB
CD, TAPE, DVD, VCR 1, TV/DSS/VCR 2, VCR 3 10 Hz - 70 kHz, ± 3 dB
Input sensitivity
PHONO 0.4 mV (3 mV, IHF '66)
CD, TAPE, DVD, VCR 1, TV/DSS/VCR 2, VCR 3 27 mV (200 mV, IHF '66)
S/N (IHF A)
PHONO 70 dB (80 dB, IHF '66)

CD, TAPE, DVD, VCR 1, TV/DSS/VCR 2, VCR 3 75 dB (85 dB, IHF '66)

Input impedance
PHONO 47 kΩ
CD, TAPE, DVD, VCR 1, TV/DSS/VCR 2, VCR 3 22 kΩ
Tone controls
BASS 50 Hz, +10 to -10 dB
TREBLE 20 kHz, +10 to -10 dB
Adaptive control (volume at -30 dB) 50 Hz, +9 dB
Subwoofer cut off frequency control 50 – 200 Hz

FM Tuner Section
Frequency range 87.9 – 107.9 MHz
Sensitivity 11.2 dBf (2 μV, IHF '58)
50 dB quieting sensitivity
MONO 18.3 dBf (4.5 μV, IHF '58)
STEREO 38.3 dBf (45 μV, IHF '58)
Total harmonic distortion
MONO 0.2% 0.3%
STEREO S/N
MONO 73 dB
STEREO 67 dB
Frequency response
20 Hz — 15 kHz (+1 dB, –2 dB)
Alternate channel selectivity 65 dB
Capture ratio 1.5 dB
Image rejection at 98 MHz 40 dB
Spurious response rejection at 98 MHz 75 dB
AM suppression 50 dB
Stereo separation
1 kHz 40 dB
10 kHz 30 dB
Antenna terminal 75 Ω (unbalanced)

WARNING
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Technics
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Connections

Make sure that the power supply for all components has been turned off before making any connections.

Refer to the operating instructions of the equipment to be connected.

Note
Do not place books, etc., on the top of this unit or block the heat radiation vents in any way.

Connecting audio equipment

Stereo connection cable (not included)
White (L) Red (R)

CD changer (or CD player) (not included)

Output

The cooling fan operates at high power output levels only.

Only for turntable with ground terminal.

Turntable (not included)

Tape deck (not included)

Connecting video equipment

Stereo connection cable (not included)
Video connection cable (not included)
White (L) Red (R)

VCR (for playback only) (not included)

TV (not included)

Connecting to the VCR 2 terminals on the front panel

Camcorder, etc. (not included)

To connect video equipment with a 21 pin terminal

TV (not included)

21 pin-cord cables (not included)
Connecting a DVD player

Stereo connection cable (not included)
White (L) <---
Red (R) <---
Monaural connection cable (not included)

Connecting a DVD player with 5 channel discrete output

Connecting a DVD player with 2 channel output

DVD player (not included)

You can enjoy 6 channel discrete sound by making the below connections.

Audio: 
1. DVD player
2. Digital surround processor
3. Audio output

Connecting to/from S-VIDEO terminals

S-VIDEO cable (not included)

VCR (not included) 

TV (not included)

S-VIDEO OUT

This receiver has an S-VIDEO terminal for a DVD player, VCR (VCR 1 only) and TV.

Caution when using a TV with an S-VIDEO terminal

On some television models, the video signal from components which do not use S-VIDEO input and are connected only to the VIDE0 terminals will not be shown on the television screen.

If this occurs, use one of the following methods to view the video signal.

Does the television have a "VIDEO/S-VIDEO" selector switch?

[Diagram showing selection options]

Yes

- Set the switch to "VIDEO".
- If the television has two or more video input terminals, connect the video terminals and the S-VIDEO terminal to different input terminals on the television, and select the input terminals according to the video source being played.
- If the television has only one video input terminal, disconnect the S-VIDEO cable connected to the television's S-VIDEO terminal and connect only the video terminal.

No

[Notes on video signal input and output]

AC mains lead

Connect this mains lead after all other cables and cords are connected.

BE SURE TO READ THE CAUTION FOR THE AC MAINS LEAD ON PAGE 3 BEFORE THE FOLLOWING CONNECTION.

Intention of Connector

Even when the connector is perfectly inserted, the front part of the connector may not fit. However, there is no problem using this unit.

Ac mains lead (included)

Household AC outlet

Approx. 6 mm

Appliance inlet
Speaker connections

To connect to the "A" terminals

Front speaker (Right) (not included)
Front speaker (Left) (not included)

Speaker cables (not included)

To connect to the "B" terminals
For connection to a second pair of speakers.

Front speaker (Right) (not included)
Front speaker (Left) (not included)

Speaker cables (not included)

Speaker impedance:
- A or B: 4-16 Ω
- A and B: 8-16 Ω
- B-WIRE: 6-16 Ω

Connecting the speaker cable

1 2 3

Note
To prevent damage to circuitry, never short-circuit positive (+) and negative (−) speaker wires.

{Diagram of speaker connections}

Center speaker

Center speaker (not included)

Speaker cable (not included)

Speaker impedance: 6-16 Ω

Surround speakers

Note
1. Both surround speakers must be connected before sound can be heard from them.
2. Do not connect the surround speakers to the front speaker terminals, as they may be damaged.

{Diagram of surround speakers}

Surround speaker (Right) (not included)
Surround speaker (Left) (not included)

Speaker impedance: 6-16 Ω

Speaker cables (not included)
**Basic Operations**

Before operation, set VOLUME to the "MIN" position.

1. **Press POWER.**
2. **Press A and/or B, or B-WIRE** to select the speaker system(s) to be used.
3. **Turn INPUT SELECTOR to select and start the desired source.**
   (Refer to the appropriate operating instructions for details.)
   The indicator which corresponds to the selected input source will illuminate.
   The selected source and "INPUT" will be shown on the display.

   - VCR 1: To watch video tapes (VCR 1)
   - VCR 2: To watch video tapes (VCR 2)
   - TV/MP: To watch TV or video tapes (VCR 1)
   - TV/MP 2: To watch TV or video tapes (VCR 2)
   - DVD: To watch DVD
   - TAPE: To listen to cassette tapes
   - CD: To listen to compact discs
   - TUNER: To listen to radio broadcasts
   - PHONO: To listen to phono discs

4. **Adjust the volume level.**
   If using a subwoofer, adjust its volume with SUBWOOFER LEVEL.
   If the subwoofer isn't being used, be sure to set SUBWOOFER LEVEL to MIN.

After listening is finished,
Be sure to reduce the volume level, and switch the power to the standby condition by pressing POWER.
### Terminal Guide of ICs, Transistors and Diodes

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G TRANSFORMER P.C.B. (REP2676A-M)

F POWER P.C.B. (REP2678A-P)
Cabinet Parts Location