

HCD-GZR5D

SERVICE MANUAL

Ver. 1.1 2008.07

UK Model
E Model
Russian Model



- HCD-GZR5D is the Amplifier, DVD player, tape deck, and tuner section in MHC-GZR5D.

DVD Section	Model Name Using Similar Mechanism	HCD-GNZ333D/GNZ444D
	DVD Mechanism Type	CDM74HF-DVBU101
	Optical Pick-up Name	KHM-313CAB/C2RP
TAPE Section	Model Name Using Similar Machanism	HCD-GT444
	Tape Transport Mechanism Type	TCM-J1 or CS-21SC-900TP

SPECIFICATIONS

Amplifier Section

The following are measured at AC 230 V, 50/60 Hz (European and Russian models)

The following measured at AC 127, 240 V, 50/60 Hz (Saudi Arabian model)

The following measured at AC 120, 220, 240 V, 50/60 Hz (Other models)

Power output (rated): 72 W + 72 W
(6 Ω , 1 kHz, 1% THD)

RMS output power (reference)
120 W + 120 W
(per channel at 6 Ω , 1 kHz, 10% THD)

Inputs

AUDIO IN (stereo mini jack):

Voltage 700 mV, impedance 47 kilohms

MIC (phone jack): Sensitivity 2 mV, impedance 10 kilohms

Outputs

VIDEO OUT (phone jack):

Max. output level 1 Vp-p, unbalanced, Sync. negative, load impedance 75 ohms

DVD DIGITAL OUT (Square optical connector jack, rear panel):
Wavelength 650 nm

PHONES (stereo mini jack):
accepts headphones of 8 ohms or more

USB section

Supported bit rate MP3 (MPEG 1 Audio Layer-3): 32 – 320 kbps
WMA: 48 – 192 kbps
AAC: 48 – 320 kbps

Sampling frequencies

MP3 (MPEG 1 Audio Layer-3): 32/44.1/48 kHz
WMA: 44.1 kHz
AAC: 44.1 kHz

⚡ (USB) port: Maximum current: 500 mA

Disc player section

System : Compact disc and digital audio and video system

Laser Diode Properties

Emission duration: Continuous Laser Output*:
Less than 44.6 μ W

*This output is the value measurement at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.

Frequency response DVD (PCM 48 kHz): 2 Hz – 22 kHz ($\pm$ 1 dB)
CD: 2 Hz – 20 kHz ($\pm$ 0.5 dB)

Video color system format

European and Russian models: PAL
Other models: NTSC and PAL

Tape deck section

Recording system: 4-track 2-channel stereo

– Continued on next page –

DVD DECK RECEIVER

9-889-161-02

2008G04-1

© 2008.07

Sony Corporation

Audio&Video Business Group

Published by Sony Techno Create Corporation

SONY®

SECTION 8 EXPLODED VIEWS

Note:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

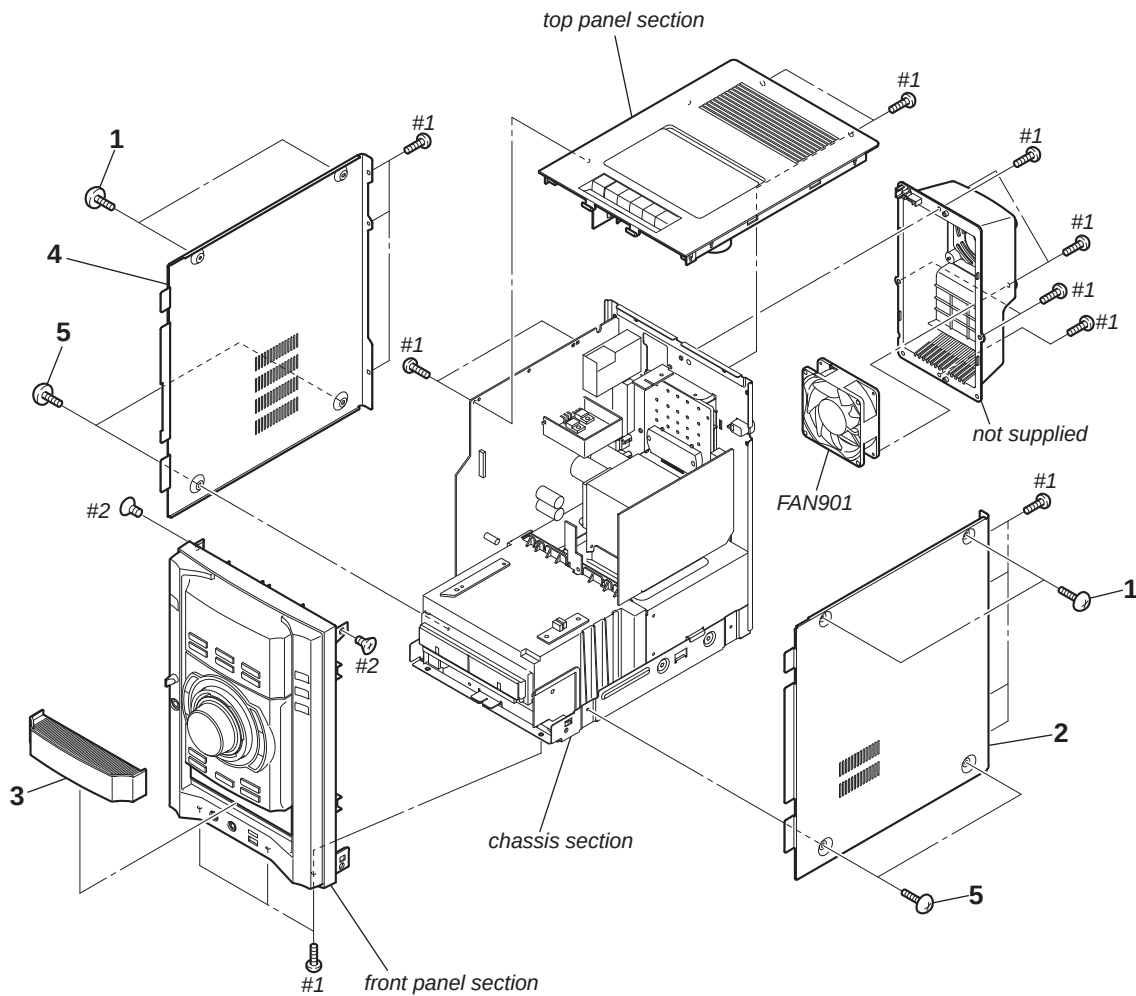
- Hardware (# mark) list and accessories are given in the last of this parts list.

Abbreviation

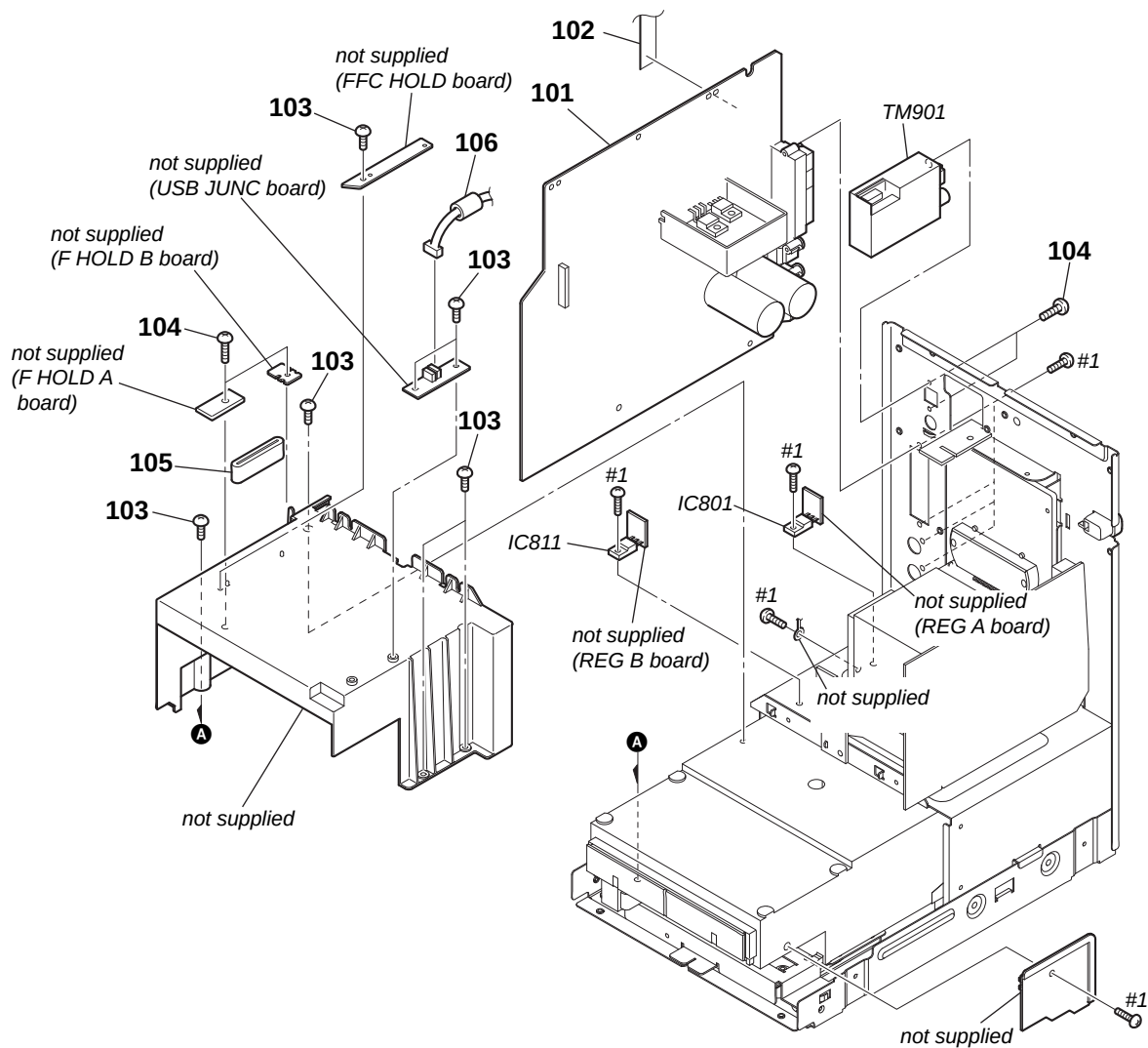
E3	: 240V AC area in E model
E12	: 220 – 240V AC area in E model
E15	: Iran model
EA	: Saudi Arabia model
PH	: Philippines model
RU	: Russian model
SP	: Singapore model
TH	: Thai model

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

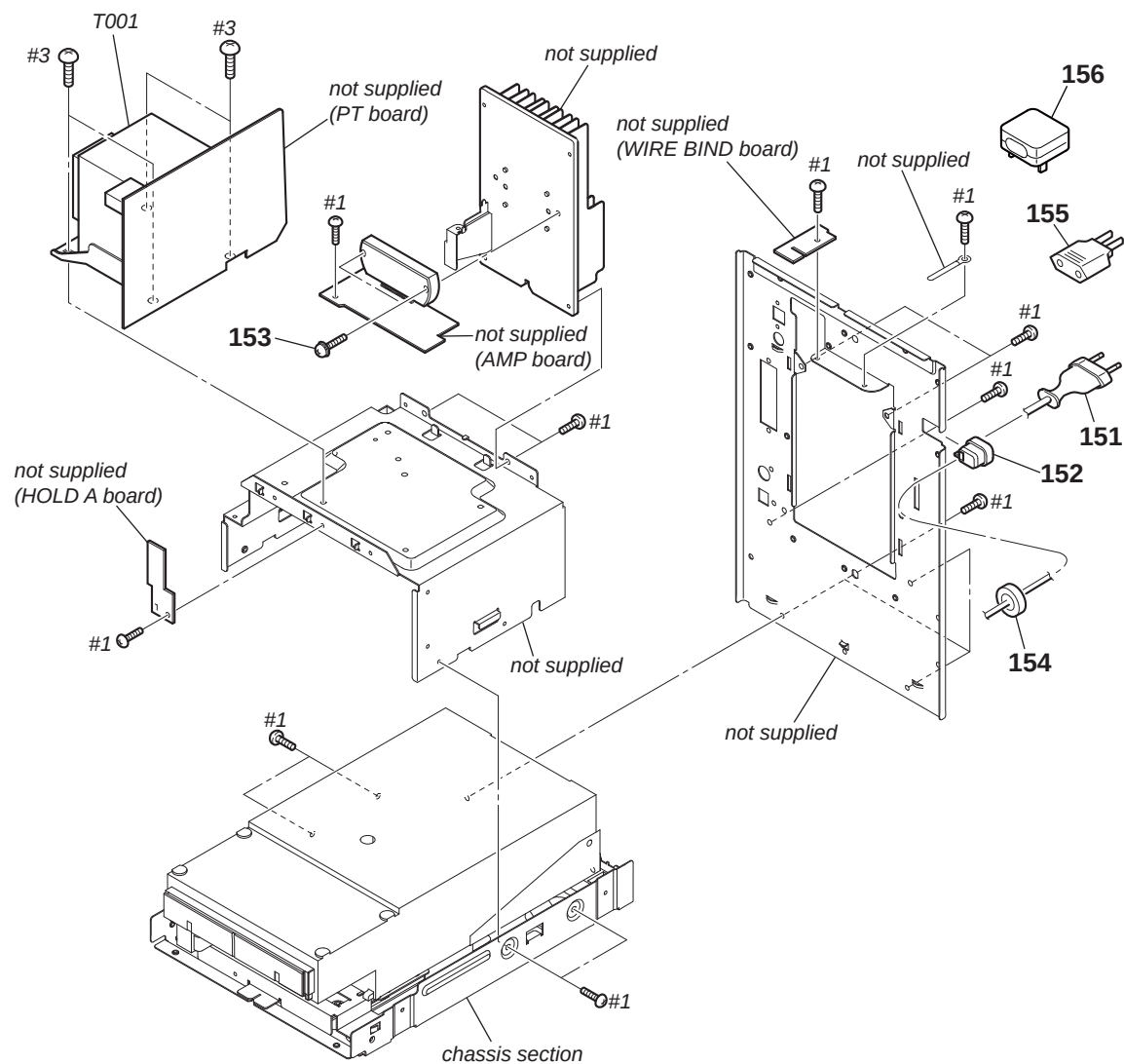
8-1. OVERALL SECTION



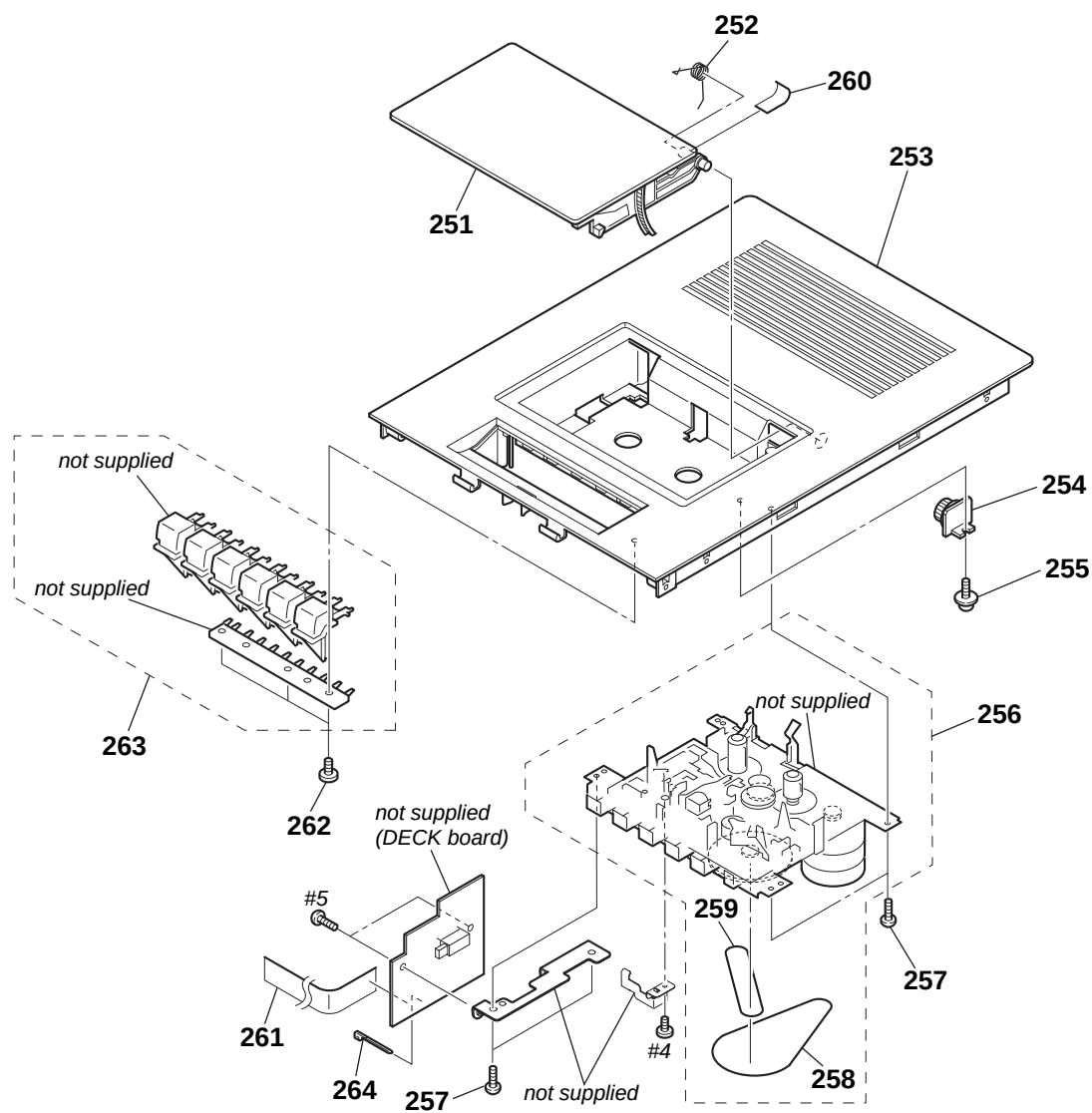
8-3. MAIN BOARD SECTION



8-4. REAR PANEL SECTION



8-6. TOP PANEL SECTION



8-7. DVD MECHANISM DECK SECTION

