8/1/2013

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SERVICE MANUAL

STEREO INTEGRATED AMPLIFIER MODEL DA-U210

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MITSUBISHI ELECTRIC CORPORATION

SPECIFICATIONS-

1. PREAMPLIFIER SECTION

Input sensitivity/impedance (at continuous rated power output, 8 ohms 1 kHz) PHONO **TUNER, AUX, PLAY 1, 2** (PIN) PLAY 1, 2 (DIN) MIC Phono overload level (at 1 kHz, with 0.1% THD) PHONO **Output level/impedance RED 1, 2 (PIN) REC 1, 2 (DIN) Frequency response** PHONO

TUNER, AUX, PLAY 1, 2

Tone control

TREBLE

-30 dB position)

(Volume control set at

BASS

Loudness

2.5 mV/50 kohms

150 mV/35 kohms 150 mV/35 kohms 1 mV/10 kohms

200 mV

150 mV/600 ohms 50 mV/100 kohms

±0.5 dB from 20 Hz to 20 kHz (RIAA STD) ⁺⁰/₋₁ dB from 10 Hz to 60 kHz (in TONE DEFEAT switch ON position)

±8 dB at 100 Hz ±8 dB at 10 kHz

+7 dB at 100 Hz +5 dB at 10 kHz

Hum and noise (A networkclosed circuit)PHONO74 dBTUNER, AUX, PLAY 1, 2100 dBHum and noise (DIN,50 mW x 2)PHONO63 dBTUNER, AUX, PLAY 1, 265 dB

2. POWER AMPLIFIER SECTION

Power output

Total harmonic distortion

Intermodulation distortion

(70 Hz and 7 kHz, 4:1)

Power bandwidth (IHF)

25 W continuous power per channel, both channels driven into 8 ohms from 20 Hz to 20 kHz, with 0.1% THD 30 W continuous power per channel, both channels driven into 4 ohms from 20 Hz to 20 kHz, with 0.5% THD 0.06% at 12.5 W per channel, both channels driven into 8 ohms from 20 Hz to 20 kHz 0.06% at 1 W per channel, both channels driven into 8 ohms from 20 Hz to 20 kHz

0.2% at rated power per channel, 8 ohms 0.1% at 1 W power per channel, 8 ohms 10 Hz to 40 kHz at 0.1% THD, 8 ohms 25 from 20 Hz to 20 kHz, 8 ohms

140 W (IEC nominal) 110 W at rated power, 8 ohms 425 x 139 x 324 mm 8 kg

Damping factor

3. GENERAL Power consumption

Dimensions (W x H x D) Weight

Design and specifications are subject to change without notice for improvement.

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FRONT PANEL TERMINOLOGY AND FUNCTIONS -

I. SPEAKERS (Speaker Selection Switches)

These switches control speaker selection.

B

- Outputs are off and no sound will be produced . from the speakers.
- For listening to the speakers connected to the terminals A
- For listening to the speakers connected to the terminals B.
- For listening to the speakers connected to the terminals A and B.

POWER METER (R & L)

his meter shows the power output of this unit connected to peakers having an impedance of 8 ohms. They have a power cale of 0.01 W to 50 W.

3. LOUDNESS (Loudness Switch)

This switch introduces a special low and high frequency emphasis at low listening levels. This is done because the human ar is less sensitive to these frequencies at low listening levels. select the position according to your personal preference.

I. TAPE MONITOR (Tape Monitor and Duplicate Switches) This switch is used for monitoring either the program source being recorded or the playback from the tape deck, and dupliating from tape to tape.

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- In this position, you can reproduce the program sources set by the SELECTOR switch and record them with tape deck connected to REC 1 and **REC 2 outputs.**
- For playing or record monitoring of the tape deck connected to PLAY 1 inputs, and duplicating from the tape deck connected to PLAY 1 inputs to the tape deck connected to REC 2 outputs.
 - For playing or record monitoring of the tape deck connected to PLAY 2 inputs.

5. VOLUME (Volume Control)

This control adjusts the sound volume from the speakers. The volume is increased by rotating clockwise, and decreased by rotating counterclockwise.

6. MIC (Microphone Input)

For mixing the sounds with microphone, plug the microphone into this input.

7. MICROPHONE VOLUME CONTROL

This control adjusts the sound of the microphone. The volume is increased by rotating clockwise, and decreased

by rotating counterclockwise.

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8. SELECTOR (Input Selection Switch)

This switch selects the desired program source.

- TUNER For listening to programs on the tuner connected to the TUNER inputs.
- PHONO This position is used for playing a disc on the turntable connected to the PHONO inputs.
- AUX For playing a second tuner, turntable output ceramic cartridge, tape deck for playback use, television audio, or any suitable high output sources connected to the AUX inputs.

9. BALANCE (Balance Control)

This control adjusts the balance between the two channels. The sound image is normally balanced at the center, shifted to the right side when this control is turned to the right, and to the left side when turned to the left. Adjust the control to match the position of the speaker systems and your listening position.

10. TREBLE (Treble Control)

This control varies the sound level of the high frequency range on the right and left channels. Moving clockwise from "0" increases treble, while moving counterclockwise from "0" attenuates treble. Select the best position to suit the characteristics of your speakers and listening room, or personal preference.

REAR PANEL -

11. TONE (Tone Defeat Switch)

This switch is used for cancelling the TREBLE and BASS controls on right and left channels.

- ON Both TREBLE and BASS controls can be adjusted.
- DEFEAT In this position, TREBLE and BASS controls are removed from the signal path and a flat frequency response is obtained.

12. BASS (Bass Control)

This control varies the sound level of the low frequency range on the right and left channels. Moving clockwise from "0" increases bass, while moving counterclockwise from "0" attenuates bass. Select the best position to suit the characteristics of your speakers and listening room, or personal preference.

13. PHONES (Headphones Output)

For stereo listening with headphones, plug the headphones into this output.

14. POWER (Power Switch)

This switch is for turning this unit on and off. When in the ON position, the power meters are illuminated.



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ADJUSTMENTS-

1. Idling current adjustment

- (1) Rotate VR405 and VR505 in the opposite direction to that given by the arrows as far as they will go.
- (2) Switch the power ON.
- (3) Now rotate VR405 and VR505 in the direction indicated by the arrows so that the voltage at both ends of R467 R468 and R567 R568 is brought to 27 ± 5 mV.



SERVICE PARTS LIST -

MODEL DA-U210

PART IDENTIFICATION	PART NC
Q101,452,552	M05104312
Q102	M07229304
Q51	M07229305
Q52	M07229303
Q451,551	M07133303
Q453,454,553,554	M07229306
Q455,555	M07229307
Q457,557	M07128303
Q458,558	M07133304
Q459,559	M07229308
Q460,560	M07229309
Q456,556	M07229303
D51,52	M07229320
D53,54	M07223320
D55,54 D55~ 58	M07113321 M07229323
D451,452,454,554	M07060320
D453	M07229321
D455,555	M07229322
D456,457,556,557	M04097320
IC401,501	M07229343
S1	M07229450
S2a~ S2c	M07229451
S3	M07229452
S21 (S22)	M07362450
S11	M05113430
J2	M07229475
J3	M07229476
VR101	M07229400
VR404	M07229401
VR401,501	M07229402
VR402,403,502,503	M07229403
T11	M07362549
	M05110472
F51,52	M07362490
F101,102	M07362491
F11	M07362492
M451,551	M07229261
	M07361210
	M07361211
	M07229210
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	WU7215195

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DESCRIPTION **TRANSISTOR 2SA823 TRANSISTOR 2SC945 TRANSISTOR 2SC2002 TRANSISTOR 2SA953 TRANSISTOR 2SA798 TRANSISTOR 2SC2003 TRANSISTOR 2SA954 TRANSISTOR 2SC1735 TRANSISTOR 2SA850 TRANSISTOR 2SD586 TRANSISTOR 2SB616 TRANSISTOR 2SA953** DIODE RD-20EB DIODE IS2471 DIODE GP20B DIODE IS2473 DIODE RD16EB DIODE **IN34A** DIODE IN60 IC HA1457 SW-ROTARY SW-PUSH SW-PUSH SW-PUSH SW-PUSH JACK (MIC) JACK (HEADPHONE) VR-STD A20K20 (MIC LEVEL) VR-STD-W250K20 VR-W-B250K25 **VR-W-C5K20 TRANS POWER** FUSE 1A SEMCO FUSE 4A SEMKO FUSE 3.15 A SEMKO FUSE 1.6 A SEMKO METER KNOB KNOB KNOB KNOB KNOB LEG

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SCHEMATIC DIAGRAM



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PRINTED CIRCUIT BOARD-



WIRING -



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