STR-D460Z/DE515/V505

SERVICE MANUAL



US Model STR-D460Z/DE515

Canadian Model E Model Australian Model PX Model STR-DE515

> Chinese Model STR-V505

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SPECIFICATIONS

Audio power specifications (US only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 20 -20,000 Hz, rated 100 watts per channel minimum RMS power, with no more than 0.09 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Stereo mode

Malaysia, Singapore MODEL:

(4 ohms at 20Hz 20kHz less than 0.09% total harmonic distortion) 110W + 110W

Chinese MODEL:

(6 ohms at 20Hz 20kHz less than 0.09 % total harmonic distortion) 110W + 110W

EXCEPT MODEL:

(8 ohms at 20 Hz 20 kHz less than 0.09% total harmonic distortion) 100W + 100W

Malaysia, Sigapore MODEL: (4 ohms at 1kHz, THD 0.8 %) 90W/ch

Front: 90W/ch (8 ohms at 1kHz, THD 0.8 %) Rear: 30 W/ch

Chinese MODEL:

(6 ohms at 1kHz, THD 0.8 %) Center: 90W/ch (8 ohms at 1kHz, THD 0.8 %) Rear: 30W/ch

EXCEPT MODEL:

(8 ohms at 1 kHz, THD 0.8 %) 100 W/ch Center: (Pro Logic Mode) 100 W 50 W/ch

5.1/DVD* mode Malaysia, Sigapore MODEL:

(4 ohms at 1kHz, THD 0.8 %) 90W/ch Front: 90W/ch (8 ohms at 1kHz, THD 0.8 %) 30 W/ch Rear:

Chinese MODEL:

(6 ohms at 1kHz, THD 0.8 %) Front: 90W/ch 90W/ch Center: (8 ohms at 1kHz, THD 0.8 %) Rear: 30W/ch

EXCEPT MODEL:

(8 ohm at 1 KHz, THD 0.8%) 100W/ch Front: Center: 100W /ch

150 W + 150 W

(For US only)

Frequency

response

4 ohms: 200 W + 200 W PHONO**: RIAA equalization curve ±0.5 dB

TV/DBS, CD, TAPE/ MD, VIDEO, 5.1/

10 Hz - 50 kHz ±1 dB

Outputs

Sensitivity Impedance (weighting input level) PHONO** (MM) 74 dB 72 dB* kilohms

CD, 5.1/DVD*

82 dB 82 dB* TAPE/MD. 150 mV kilohms TV/ DBS, VIDEO (A, 150 mV)

TAPE/MD REC OUT: Voltage 150 mV, Impedance 10 kilohms VIDEO AUDIO OUT:

(A, 2.5 mV)

Voltage 150 mV, Impedance 10 kilohms WOOFER/MIX AUDIO

Voltage: 2 V Impedance: 10 kilohms PHONES: Accepts low and high impedance headphones

Full mute Muting

±8 dB at 100 Hz and 10 kHz TONE

+10 dB at 70 Hz

FM tuner section

BASS BOOST

87.5 - 108.0 MHz Tuning range

Antenna 75 ohms, unbalanced 300 ohms, balanced (US, Canadian model) terminals

75 ohms, unbalanced (EXCEPT model)

Sensitivity Mono: 18.3 dBf. 4.5 uV

Usable sensitivity $11.2 \text{ dBf}, 2 \mu V \text{ (IHF)}$

S/N Mono: 76 dB Stereo: 70 dB

Mono: 0.3 % Harmonic distortion at

1 KHz Seperation 45 dB at 1 kHz Frequency 30 Hz - 15 kHz₋₂^{+0.5} dB

response

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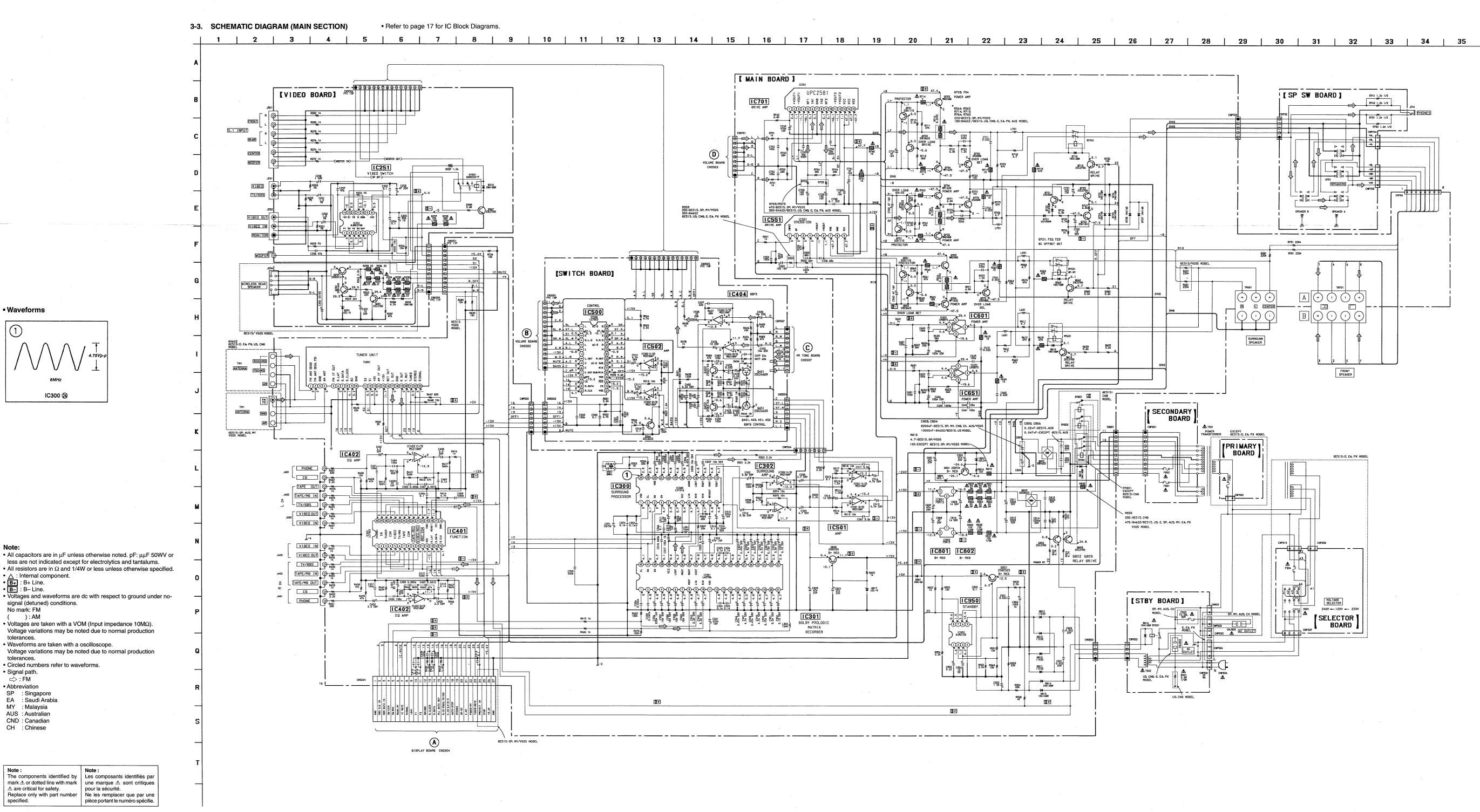
60 dB at 400 kHz

FM STEREO/FM-AM RECEIVER

Selectivity







— 15 —

— 13 —

Waveforms

IC300 @

\(\) : Internal component.
\(\) B+ : B+ Line.
\(\) B- : B- Line.

tolerances.

tolerances.

 Signal path. ⇒ : FM Abbreviation SP : Singapore EA : Saudi Arabia

MY : Malaysia

AUS : Australian CND: Canadian CH : Chinese

 \triangle are critical for safety.

specified.

signal (detuned) conditions.

• Waveforms are taken with a oscilloscope.

Circled numbers refer to waveforms.