

# STR-D565/D665

## SERVICE MANUAL

AEP Model  
UK Model  
Australian Model  
STR-D565/D665  
E Model  
STR-D665

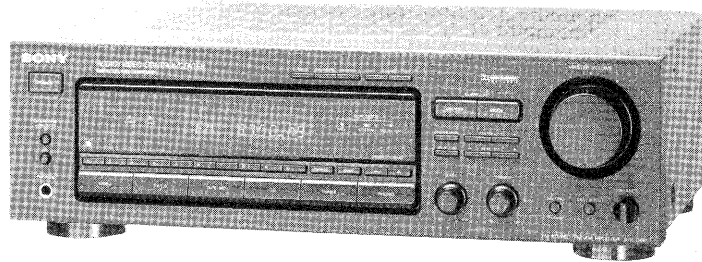


Photo : STR-D665 : E model

### SPECIFICATIONS

#### Amplifier section

##### Power Output

**Stereo mode** (DIN 1 kHz)  
STR-D665:  
Except E model :  
90 + 90 W/4 ohms  
E model :  
80 + 80 W/8 ohms  
STR-D565:  
70 + 70 W/4 ohms (Except AUS)  
65 + 65 W/8 ohms (AUS)

##### Surround mode (1 kHz, THD 0.9 %)

**Front:**  
STR-D665:  
Except E model :  
60 + 60 W/4 ohms  
E model :  
50 W/ch/8 ohms  
STR-D565 :  
AEP, UK, IT, G model :  
40 + 40W/4 ohms  
AUS model :  
40W/ch/8 ohms

##### Center:

STR-D665:  
Except E model :  
60 W/4 ohms  
E model :  
50 W/8 ohms  
STR-D565 :  
AEP, UK, IT, G model :  
40W/4 ohms  
AUS model :  
40W/8 ohms

(only in the DOLBY  
SUR mode)

##### Rear:

STR-D665: 30 W/4 ohms  
STR-D565: 20 W/4 ohms

**Frequency response** PHONO: RIAA  
equalization curve  
±0.5 dB  
CD, TAPE/MD, VIDEO:  
10 Hz - 50 kHz ±1 dB

##### Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO (MM)	2.5 mV	50 kilohms	74 dB 72 dB* (A, 2.5 mV)
CD	STR-D665: 300 mV STR-D565: 350 mV	50 kilohms	82 dB 82 dB* (A, 250 mV)
TAPE/ MD, TV/ LD, VIDEO	STR-D665: 200 mV STR-D565: 250 mV		

##### Outputs

REC OUT VIDEO  
(AUDIO) OUT:  
Voltage 250 mV,  
Impedance 10 kilohms  
MIX AUDIO OUT (STR-  
D665 only)  
Voltage: 2 V  
Impedance: 10 kilohms

PHONES: Accepts low  
and high impedance  
headphones

**Muting** - 20 dB

**BASS BOOST** +10 dB at 70 Hz

**TONE** ±8 dB at 100 Hz and  
10 kHz

#### FM tuner section

**Tuning range** 87.5 - 108.0 MHz

**Antenna terminals** Except E model :  
75 ohms, unbalanced  
E model :  
300 ohms, balanced

**Sensitivity** Mono: 18.3 dBf, 2.2 μV/  
75 ohms  
Stereo: 38.3 dBf, 22.5 μV/  
75 ohms

**Usable sensitivity** 11.2 dBf, 1 μV/75 ohms  
(IHF)

**S/N** Mono: 76 dB  
Stereo: 70 dB

**Harmonic distortion at  
1 kHz** Mono: 0.3 %  
Stereo: 0.5 %

— Continued on next page —

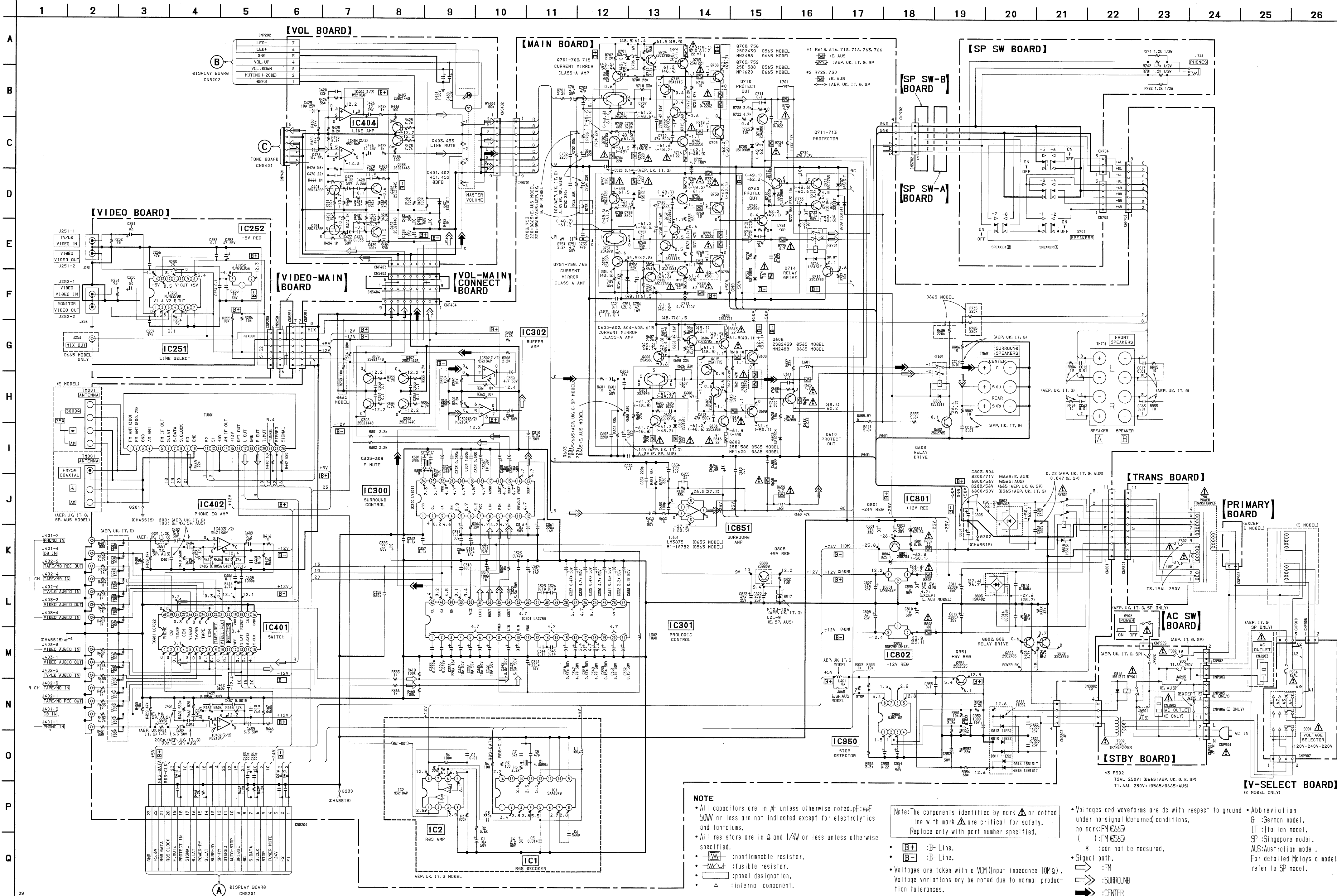
#### • Abbreviation

G : German model.  
IT : Italian model.  
SP : Singapore model.  
AUS : Australian model.

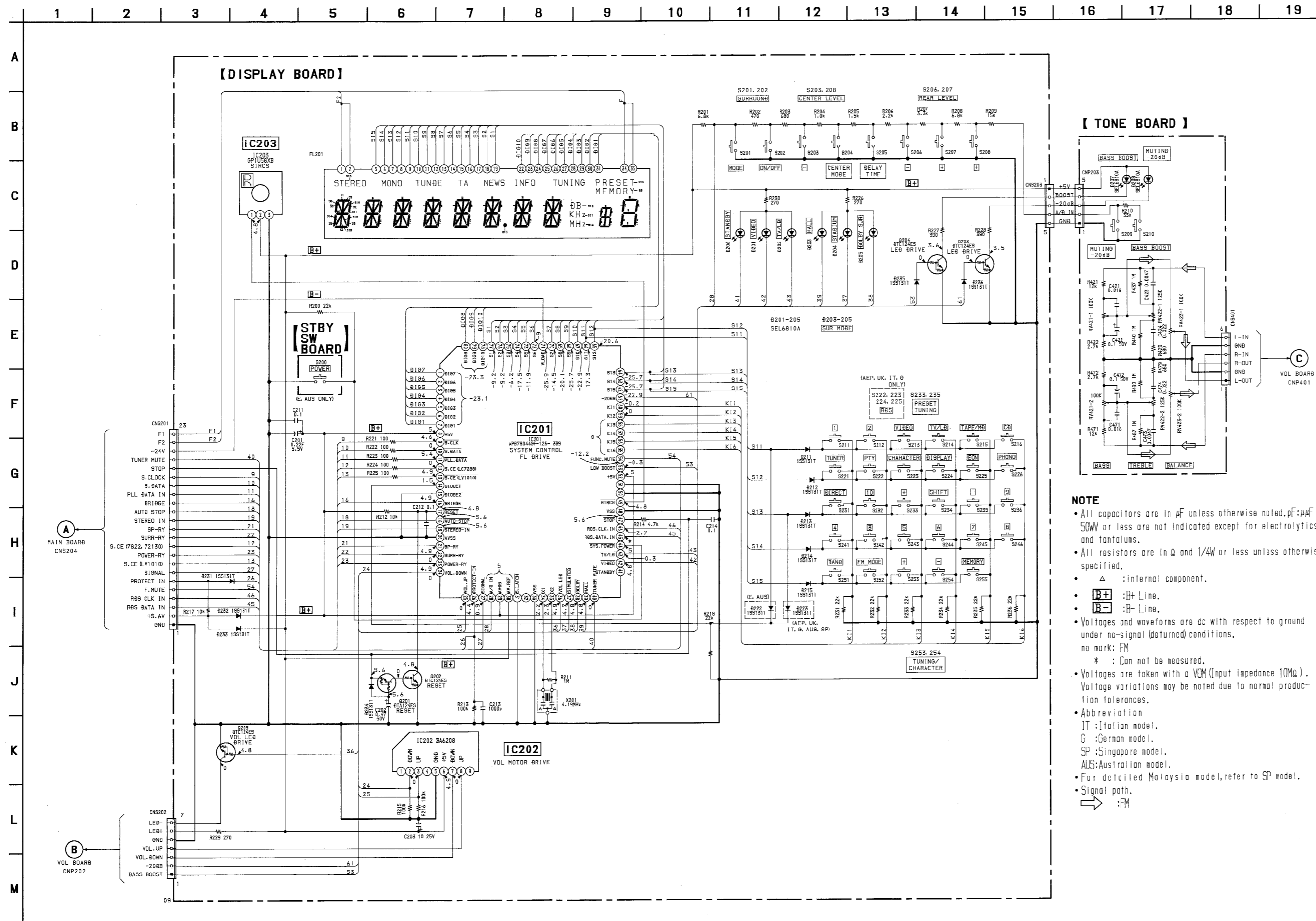
• For detailed Malaysia model,  
refer to SP model.

FM STEREO FM-AM RECEIVER  
**SONY**®





3-5. SCHEMATIC DIAGRAM — DISPLAY SECTION —  
 • See page 24 for IC Block Diagrams.  
 • See page 26 for IC Pin Function. (IC201)



- NOTE**
- All capacitors are in  $\mu\text{F}$  unless otherwise noted, pF:  $\mu\text{F}$  50W or less are not indicated except for electrolytics and tantalums.
  - All resistors are in  $\Omega$  and  $1/4\text{W}$  or less unless otherwise specified.
  - $\Delta$  : internal component.
  - $\text{B}+$  : B+ Line.
  - $\text{B}-$  : B- Line.
  - Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  - no mark: FM
  - \* : Can not be measured.
  - Voltages are taken with a VOM (input impedance  $10\text{M}\Omega$ ). Voltage variations may be noted due to normal production tolerances.
  - Abbreviation  
 IT : Italian model.  
 G : German model.  
 SP : Singapore model.  
 AUS : Australian model.
  - For detailed Malaysia model, refer to SP model.
  - Signal path  
 $\Rightarrow$  : FM