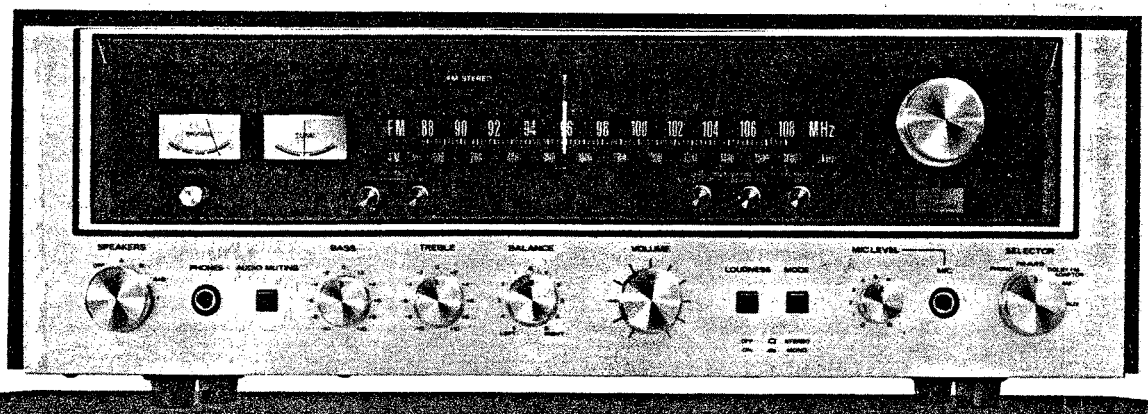
SERVICE MANUAL

AM/FM STEREO RECEIVER

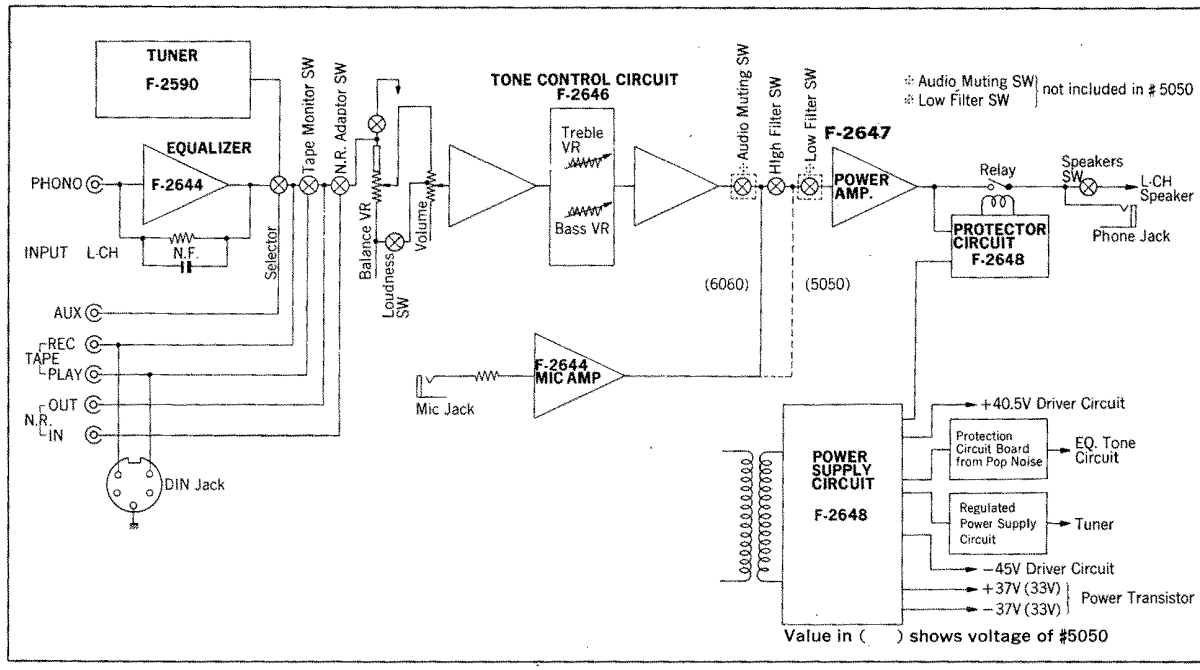
SANSUI 6060/5050



Sansui

SANSUI ELECTRIC CO., LTD.

2. BLOCK DIAGRAM



3. ADJUSTMENTS

3-1. Adjustment of Bias Current (See Fig. 3-1 & 3-2)

STEP	SUBJECT	EQUIPMENT	MEASURE OUTPUT	ADJUST	ADJUST FOR
1	Bias Current L-CH	DC Volt Meter	R05, R07 F-2648	VR01 F-2647	15mV ±1mV
2	Bias Current R-CH	DC Volt Meter	R06, R08 F-2648	VR02 F-2647	15mV ±1mV

Fig. 3-1

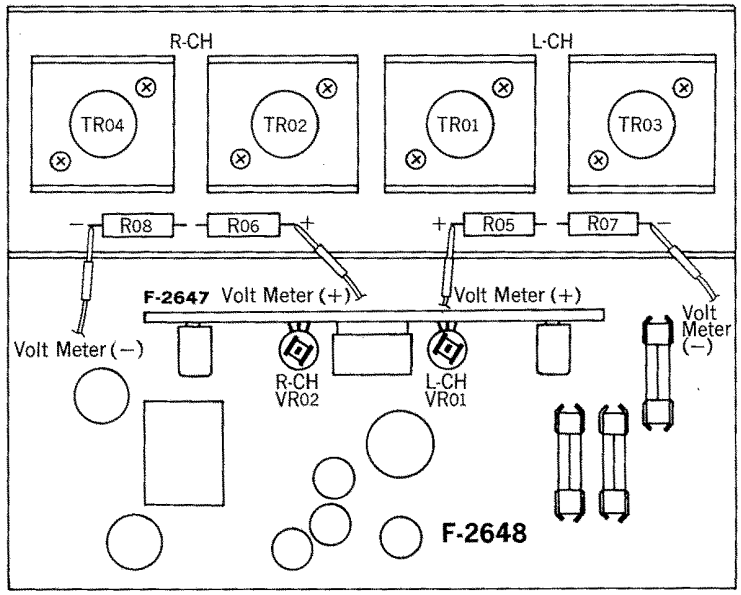
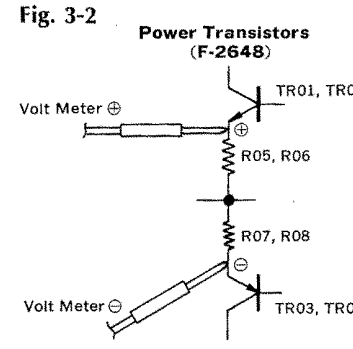
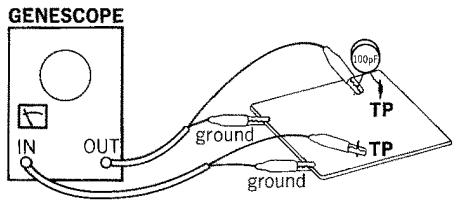


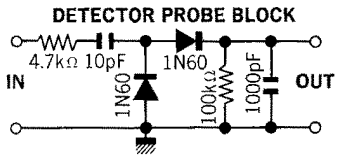
Fig. 3-2

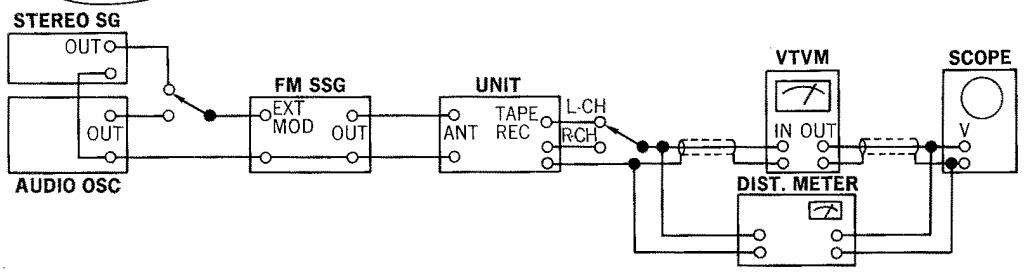


3-2. FM & MPX Adjustment & Alignment (See Fig. 3-3 on page 5)

Note: 1. Selector.....FM AUTO
2. FM Muting Switch .....OFF
3. Connection.....Connect the output of genescope to TP through 100pF ceramic capacitor.







1) FM IF Adjustment & Tracking

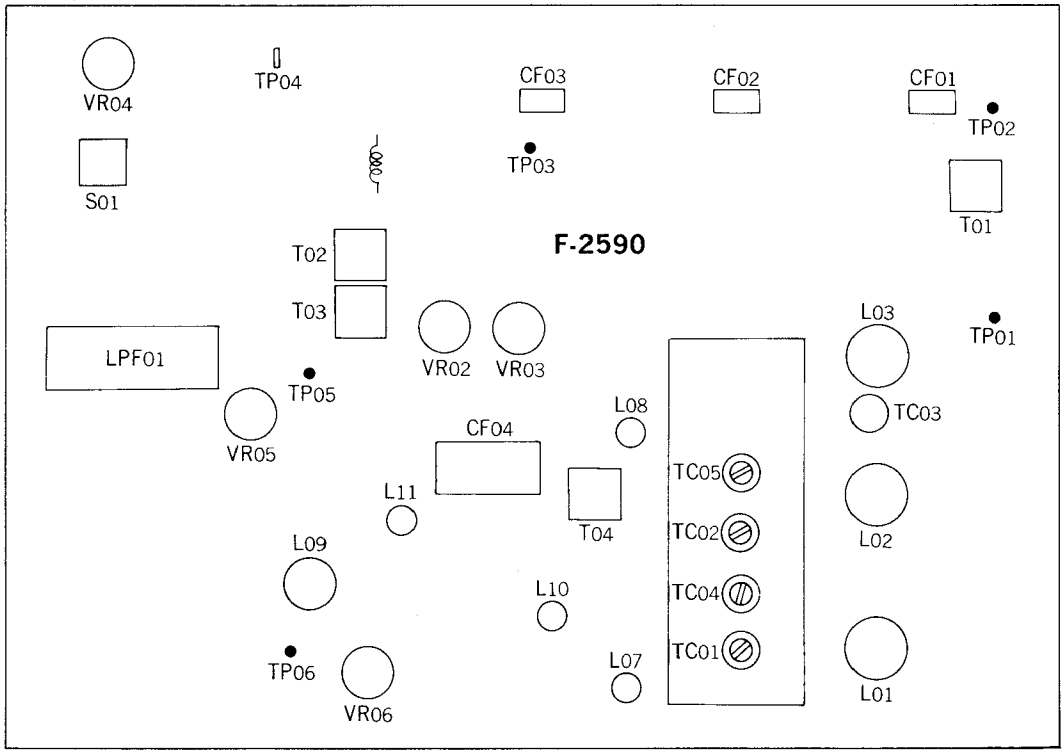
STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1.	IF Coil	Output 60dB Genescope	TP01 F-2590	TP03 F-2590 Use Detector Probe	T01 F-2590	Max. IF waveform	
2.	Discriminator Coil	Output 50dB Genescope	Same as above	TP04 F-2590	T02	Center indication on tune meter	
						Max. linearity of S curve	
					T03	Steep linearity of S curve	
					F-2590	Set output wave to dip point (It's minimum distortion)	
3.	90MHz Dial Calibration	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	ANT terminal 300Ω	REC OUT L or R-CH VTVM & Scope	L03 F-2590	Max. Output	
	106MHz Dial Calibration	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC03 F-2590	Same as above	
4.	90MHz RF Adj.	90MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	L01, L02 F-2590	Same as above	
	106MHz RF Adj.	106MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Same as above	TC01 TC02 F-2590	Same as above	
5.	Signal Meter Volume	98MHz ANT Input 60dB 400Hz (100% MOD) FM SSG	Same as above	Signal Meter	VR02 F-2590	4.3 on Meter	

2) MPX Adjustment

STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1.	PLL VCO Adj.	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	ANT terminal 300Ω	Stereo indicator	VR05 F-2590	Light indicator	Adjust the VR within center of lighting level.
	PLL VCO Adj. In case of using Freq. counter.		Make short between TP04 & chassis	TP05 F-2590 Use Freq. counter	VR05 F-2590	76kHz ±200Hz	For this adjustment, run the unit over 30 seconds.
2.	Separation	98MHz ANT Input 60dB FM SSG Pilot 19kHz (10% MOD) L-CH (0% MOD) R-CH 1kHz (45% MOD) STEREO SG	ANT terminal 300Ω	REC OUT L-CH VTVM& Scope	VR04 F-2590	Min. Output −35dB	Confirm separation L-CH→R-CH −35dB
3.	Muting level & indicator level	98MHz ANT Input 23dB FM SSG Pilot 19kHz (10% MOD) L-CH 1kHz (45% MOD) R-CH (0% MOD) STEREO SG	Same as above	Stereo indicator	VR03 F-2590	Muting level 23dB Indicator lighting level 23dB	

◇Adjusting or Connecting Points on AM, FM & FM MPX circuit board, F-2590

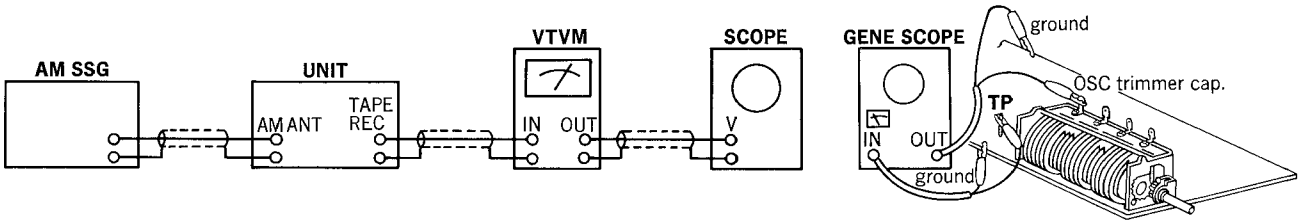
Fig. 3-3

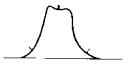
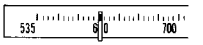
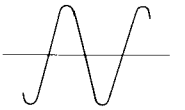
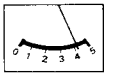


3-3. AM IF Adjustment & Tracking (See Fig. 3-3 page 5)

Note: Selector.....AM

2. Confirm start point of dial pointer before alignment.



STEP	SUBJECT	FEED SIGNAL FROM	FEED SIGNAL TO	MEASURE OUTPUT	ADJUST	ADJUST FOR	CONDITION
1.	IF Coil	Genescope Output 65dB	TC04 F-2590	TP06 F-2590	CF04 F-2590	Max. IF waveform	
2.	600kHz Dial Calibration	600kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	AM ANT terminal	REC OUT L or R-CH VTVM & Scope	T-04 F-2590	Max. Output	
	1400kHz Dial Calibration	1400kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	TC05 F-2590	Same as above	
3.	600kHz RF Adj.	600kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	L702 Bar Antenna	Same as above	
	1400kHz RF Adj.	1400kHz ANT Input 60dB 400Hz (MOD 30%) AM SSG	Same as above	Same as above	TC04 F-2590	Same as above	
4.	Signal Meter volume	1000kHz ANT Input 54dB 400Hz (MOD 30%) AM SSG	Same as adove	Signal Meter	VR06 F-2590	4 on meter	

Abbreviations

Epuipment

AM FM Generator Oscilloscope.....Genescope
AM Standard Signal Generator .....AM SSG
FM Standard Signal Generator .....FM SSG
FM Stereo Generator.....Stereo SG
Oscilloscope .....Scope
Audio Oscillator .....Audio Osc.
Distortion Meter .....Dist. Meter

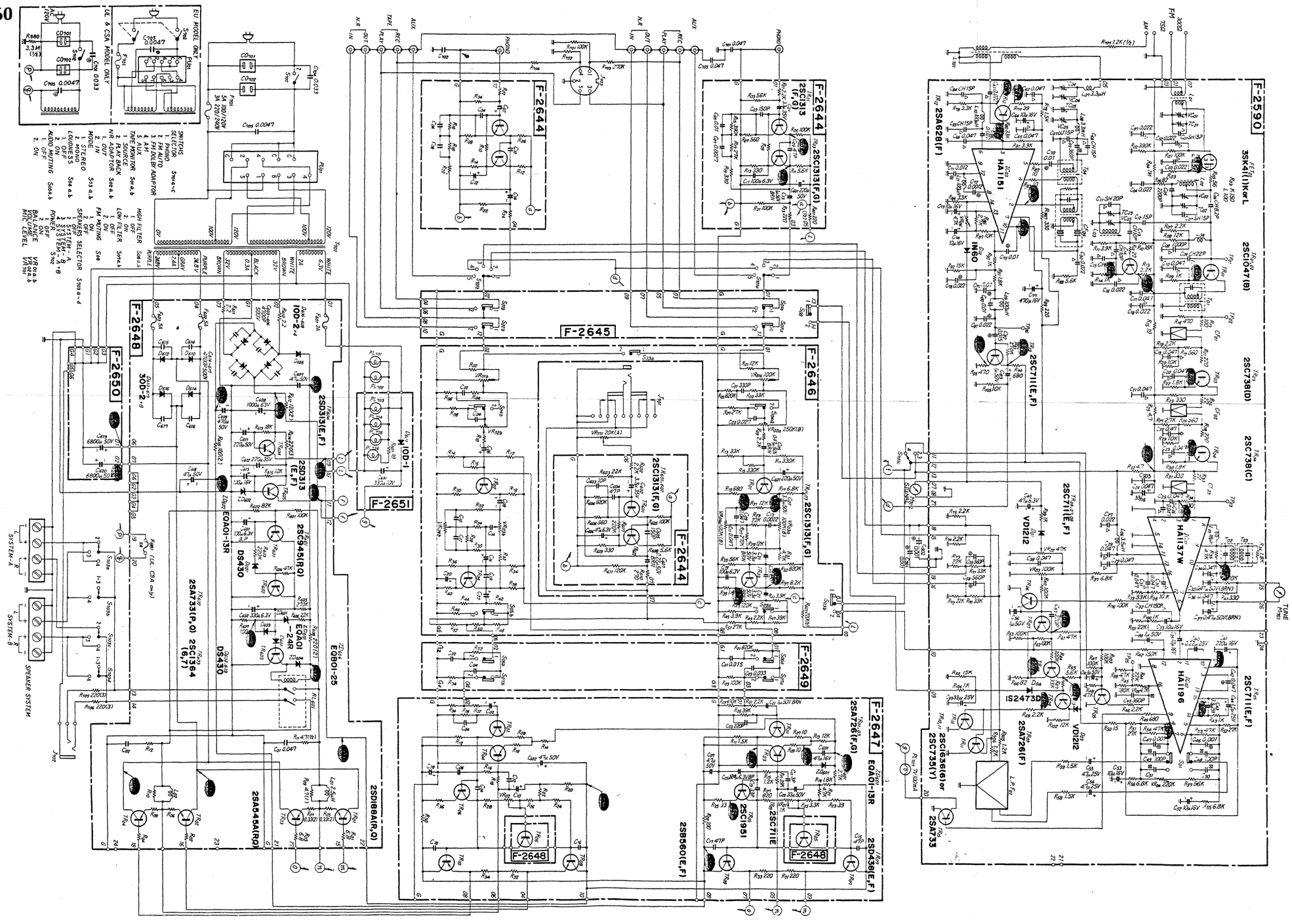
Others

Clockwise .....CW.
Counterclockwise .....CCW.
Antenna .....ANT.
Modulation .....MOD.

7. SCHEMATIC DIAGRAM

7-1. MODEL 6060

* La présentation et les specifications sont susceptibles d'être modifiées sans préavis par suite d'améliorations éventuelles.
* Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
* Design and specification subject to change without notice for improvements.



7-2. MODEL 5050

* La présentation et les spécifications sont susceptibles d'éter modifiées sans préavis par suite d'améliorations éventuelles.
* Anderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.
* Design and specification subject to change without notice for improvements.