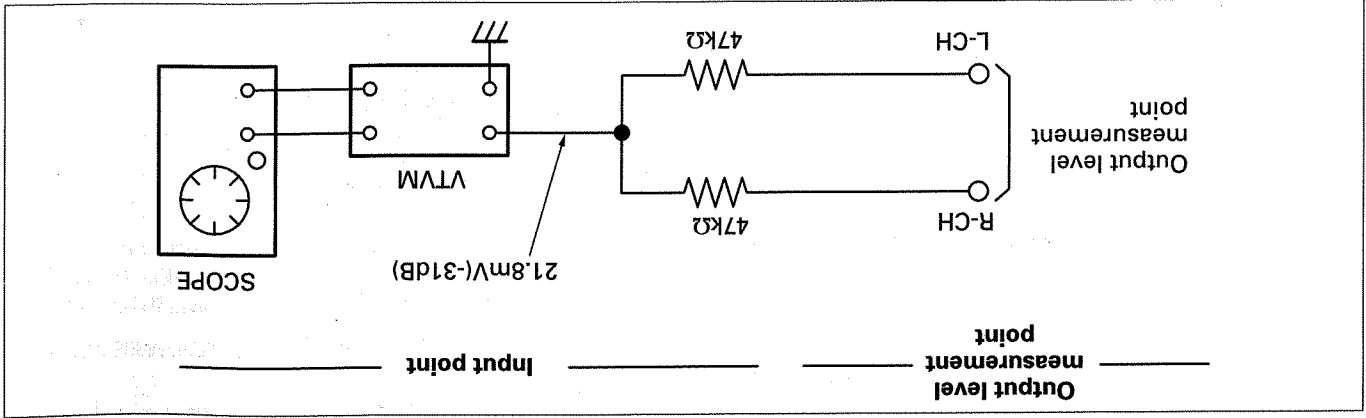


TAPE SECTION



TEST TAPE BE USED

TAPE	CONTENTS	USE
MTT-111N	3KHz	TAPE SPEED ADJUSTMENT
MTT-114N	10KHz	HEAD AZIMUTH ADJUSTMENT
MTT-5611	BLANK	RECORDED FREQUENCY PROPERTY
MTT-257E		PLAYBACK FREQUENCY PROPERTY

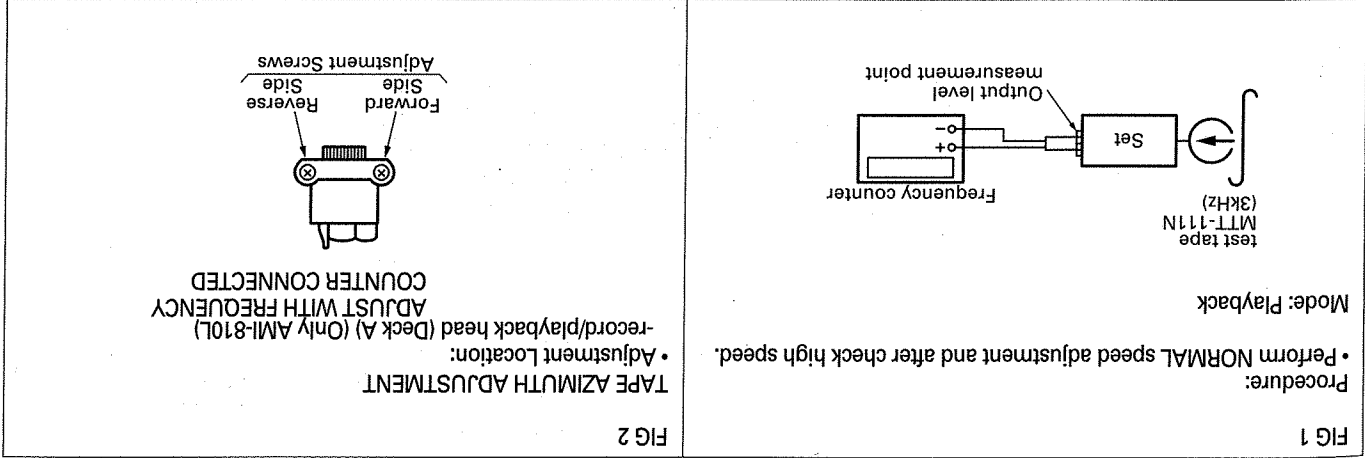
1. Head adjustment (azimuth)
 - 1-1. 10 kHz test tape (example: MTT-114N) must be used for this adjustment.
 - 1-2. Connect to VTVM or oscilloscope to the headphone jack or speaker terminal.
 - 1-3. Press the play button.
 - 1-4. Adjust the azimuth by using a screw driver to maintain the maximum L & R output voltage.
 - 1-5. Please secure the azimuth position by using locking paint.

2. Recording bias oscillator frequency adjustment
 - 2-1. Connect the frequency counter to TP601, GND.
 - 2-2. Press rec button.
 - 2-3. Adjust L603 obtain 80 KHz±100Hz.

TAPE ALIGNMENT CHART

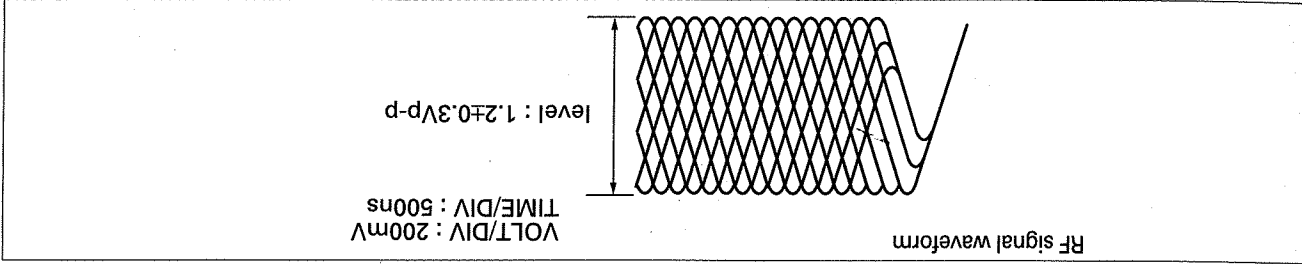
ITEM	REFERENCE VALUE	TAPE	ADJUSTMENT POINT	TEST POINT	NOTE	FIG.
1 TAPE SPEED ADJUST	NORMAL	MTT-111	N RV601		CONFIRM WOW & FLUTTER IS WITHIN 0.35%	
		MTT-111	N		CONFIRM TAPE SPEED OF END POSITION AFTER ADJUSTMENT AT TAPE START POSITION	
	HIGH	MTT-111	N		CONFIRM HIGH SPEED AFTER NORMAL SPEED ADJUSTMENT	
		MTT-114	N		PHASE: WITHIN 90°	FIG2, 3, 4
2 AZIMUTH ADJUSTMENT	MAXIMUM LEVEL	MTT-114	HEAD SCREW			
3 BIAS OSCILLATOR FREQUENCY ADJUSTMENT	80KHz±0.5	AC-212	L603	TP601	ADJUST WITH FREQUENCY COUNTER CONNECTED	FIG5

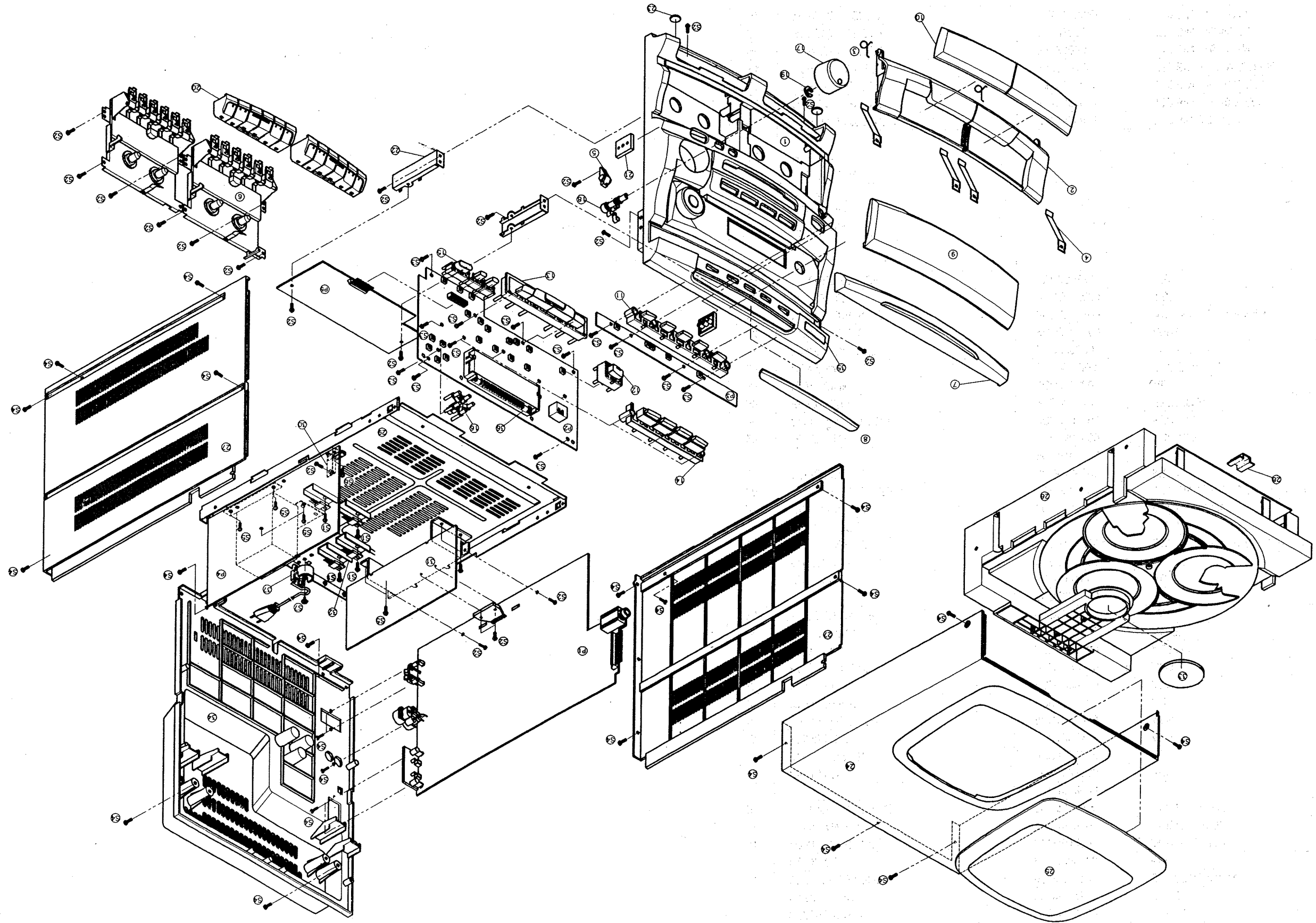
FIG 1 TAPE SPEED ADJUSTMENT



CD SECTION

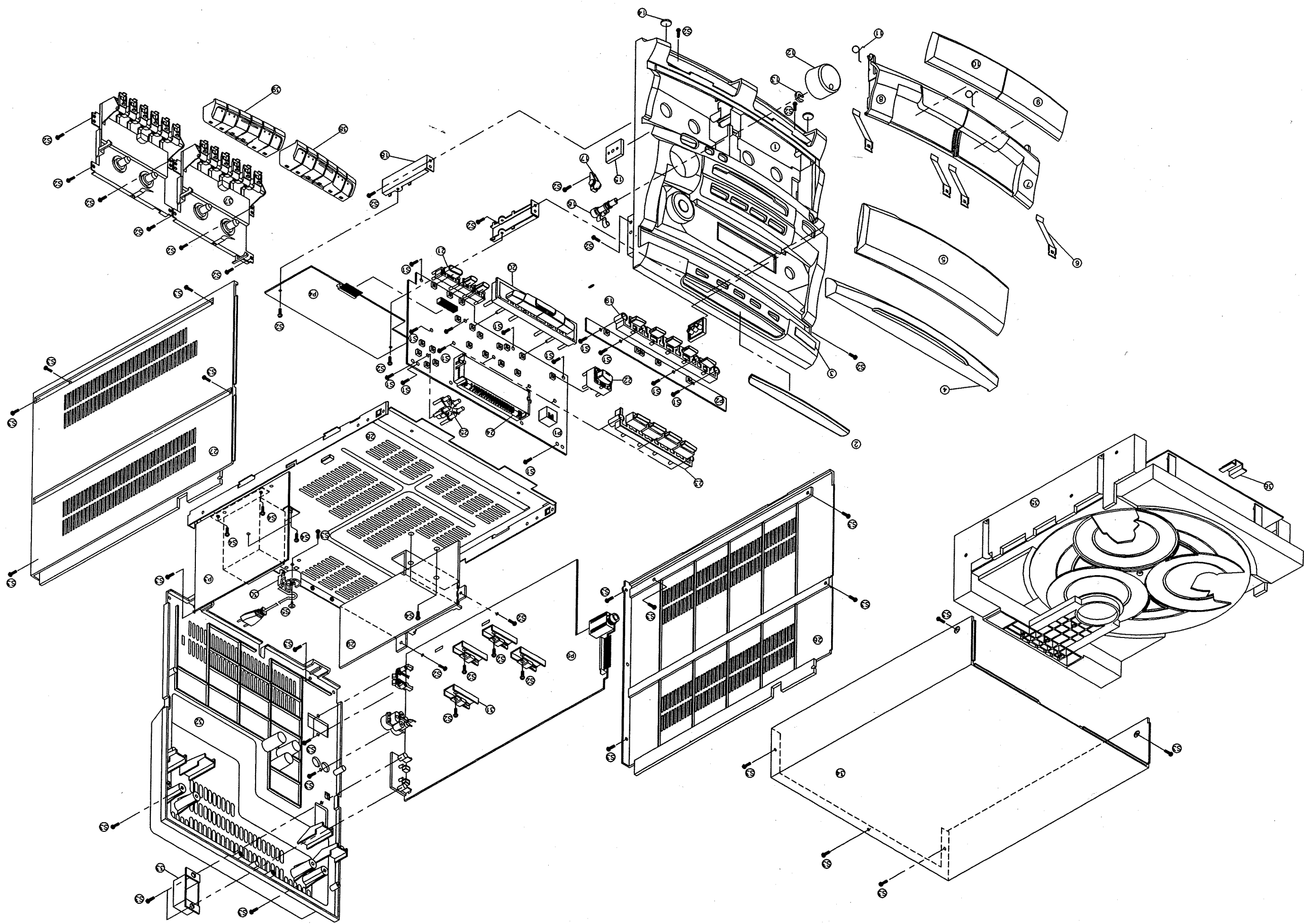
- NOTE:
1. Use the oscilloscope with more than 10M ohm impedance.
 2. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
- RF LEVEL CHECK
1. Connect oscilloscope to test point TP502 and IC502, PIN66 on PC board.
 2. Turn power switch on.
 3. Put Test CD (TCD-781) in and press the play Button then pause button.
 4. Confirm that oscilloscope waveform is clear.
 5. Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.
 6. Adjust RV501 to get a clear waveform and maximum amplitude.

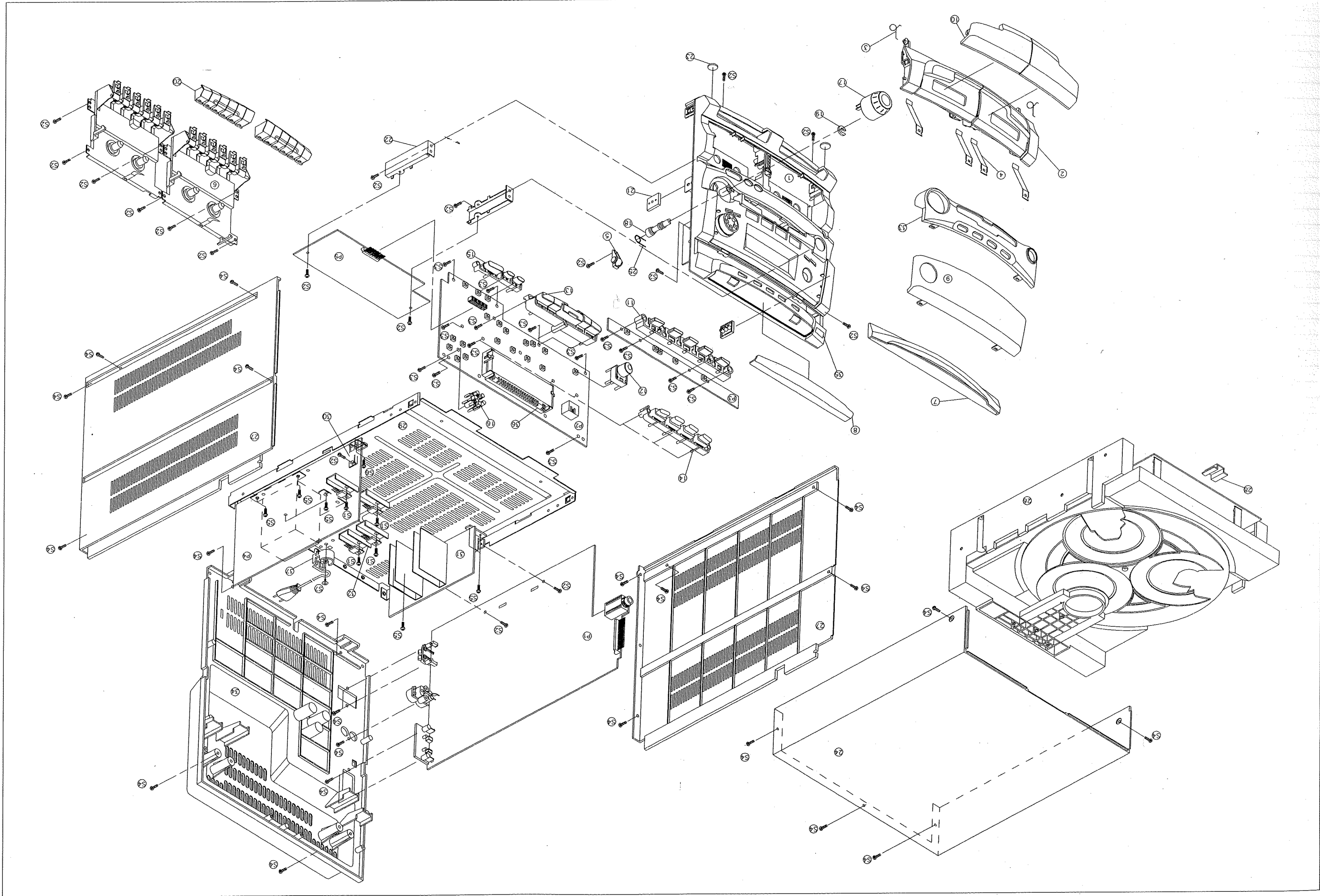




MAIN UNIT [AMI-508M/708M]

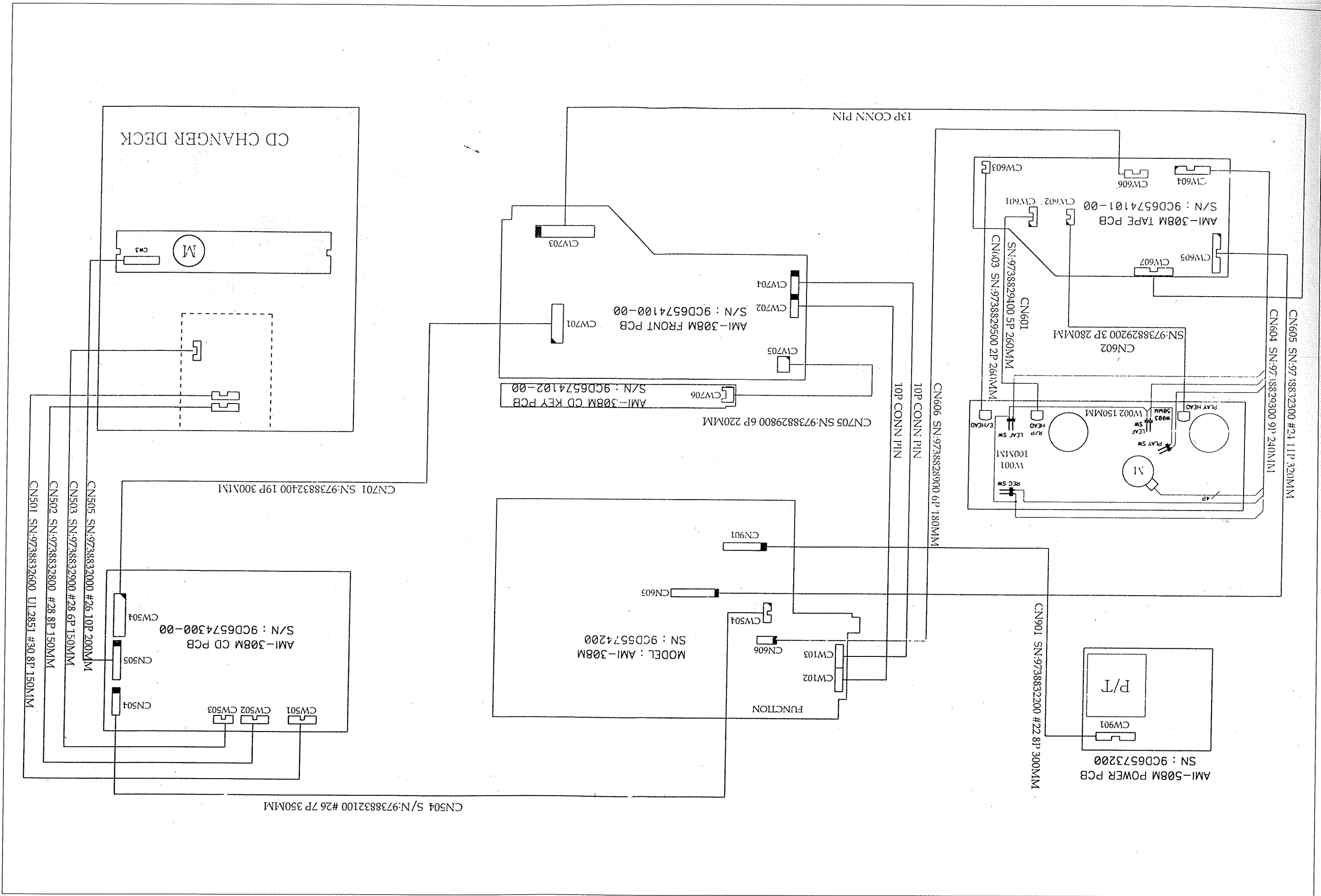
5. EXPLODED VIEW AND PARTS LIST





■ [AMI-508M/708M/511M/711M]



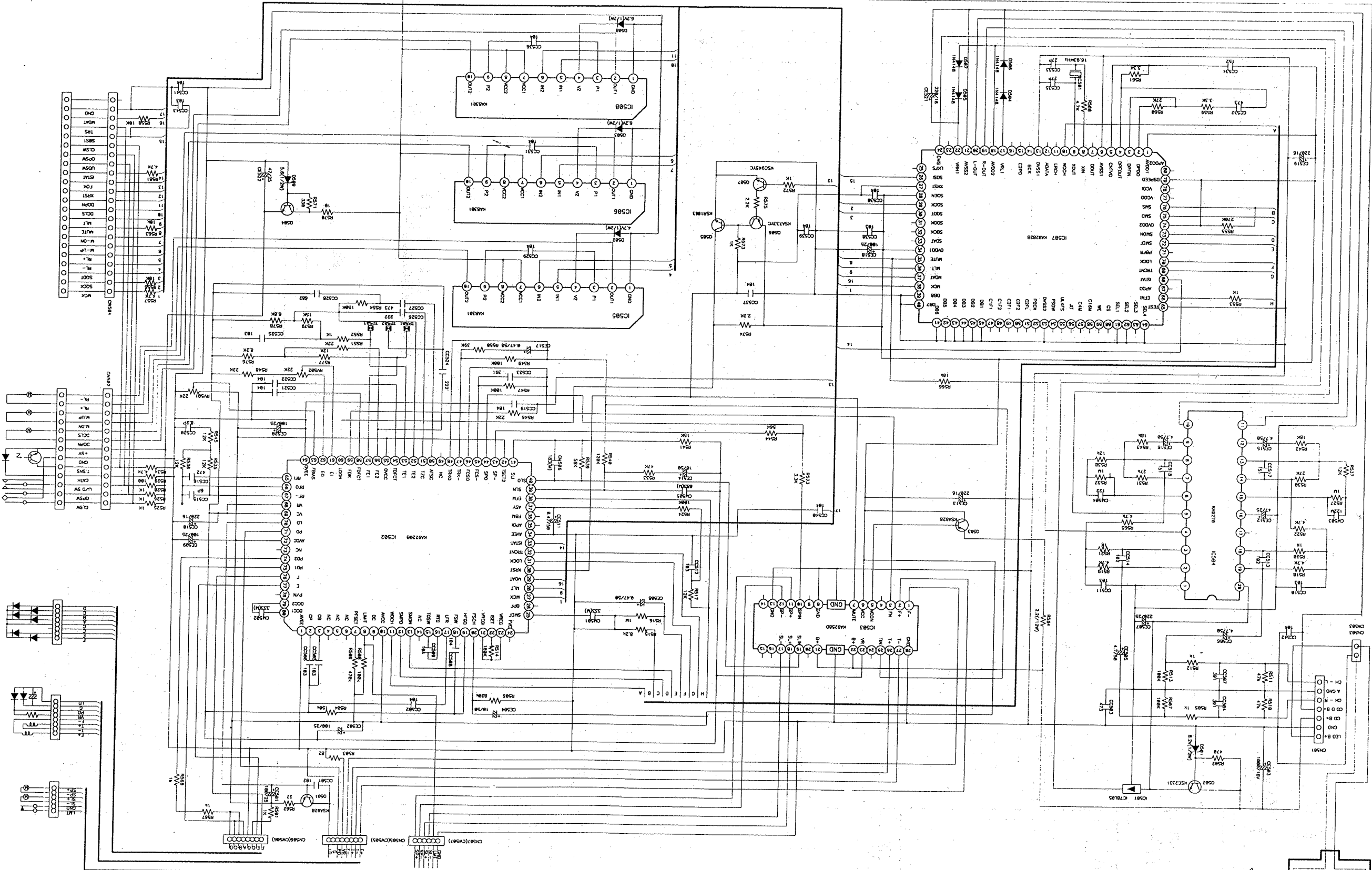


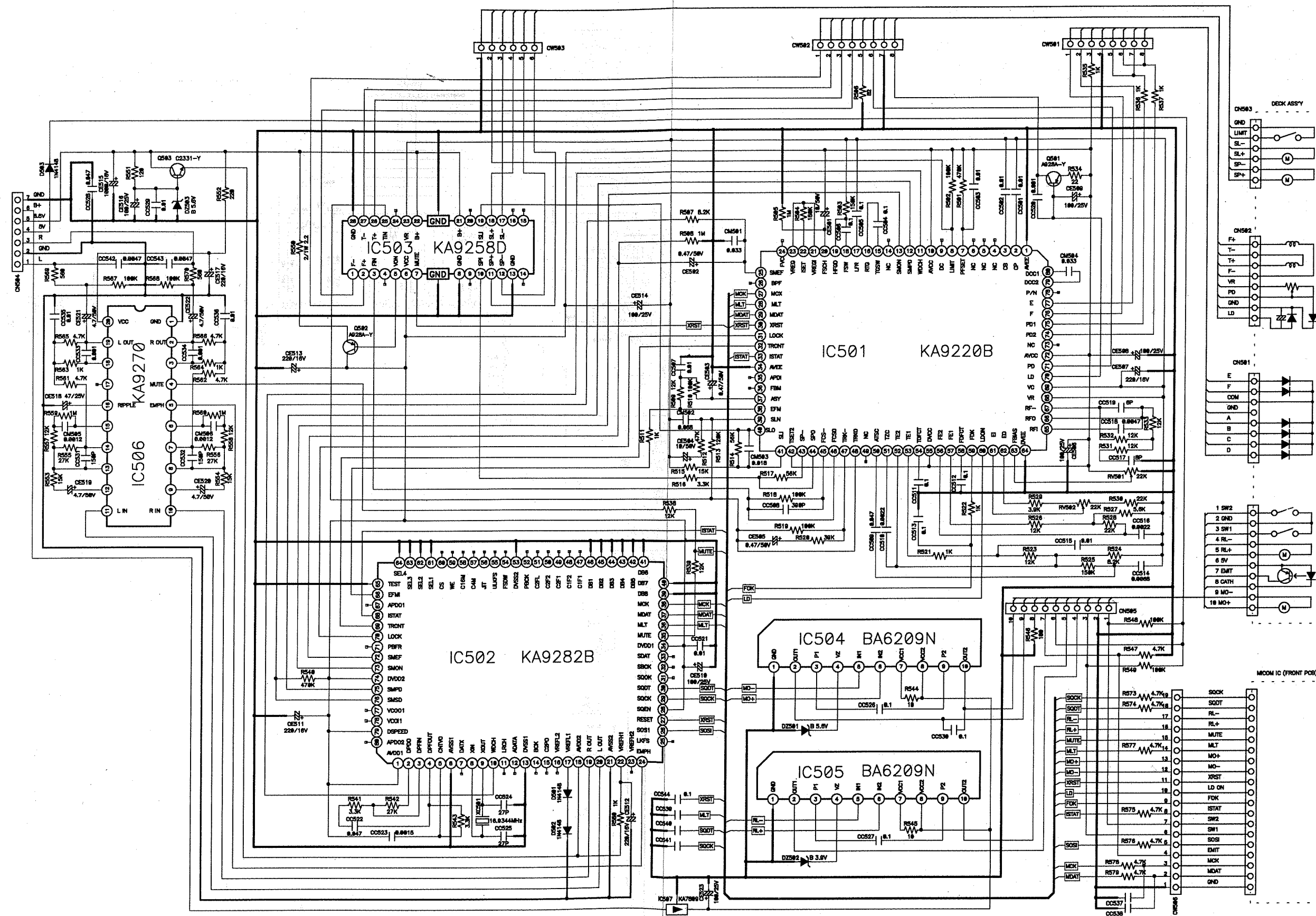
8. SCHEMATIC DIAGRAM

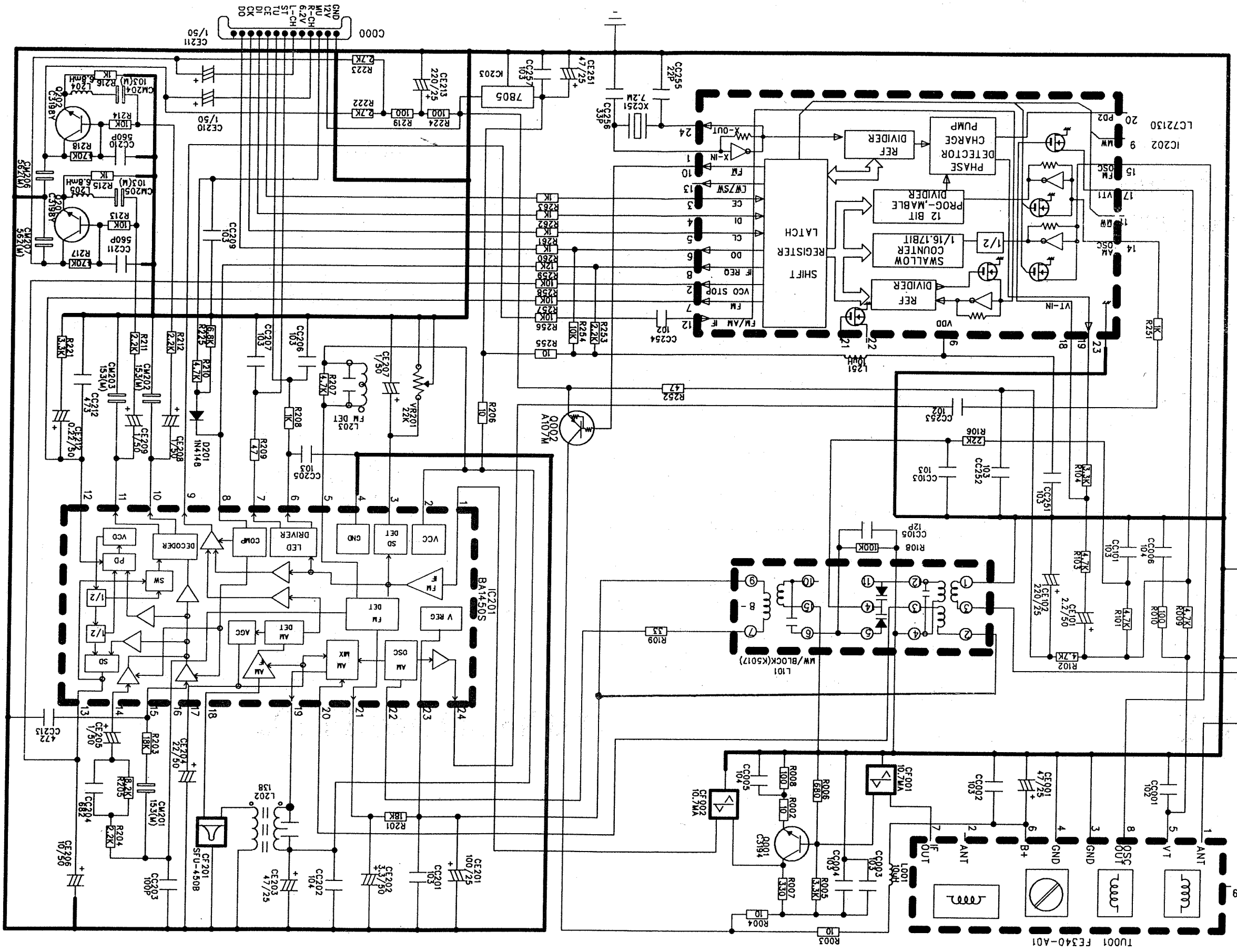
■ CD [AMI-508M/708M/511M/711M]

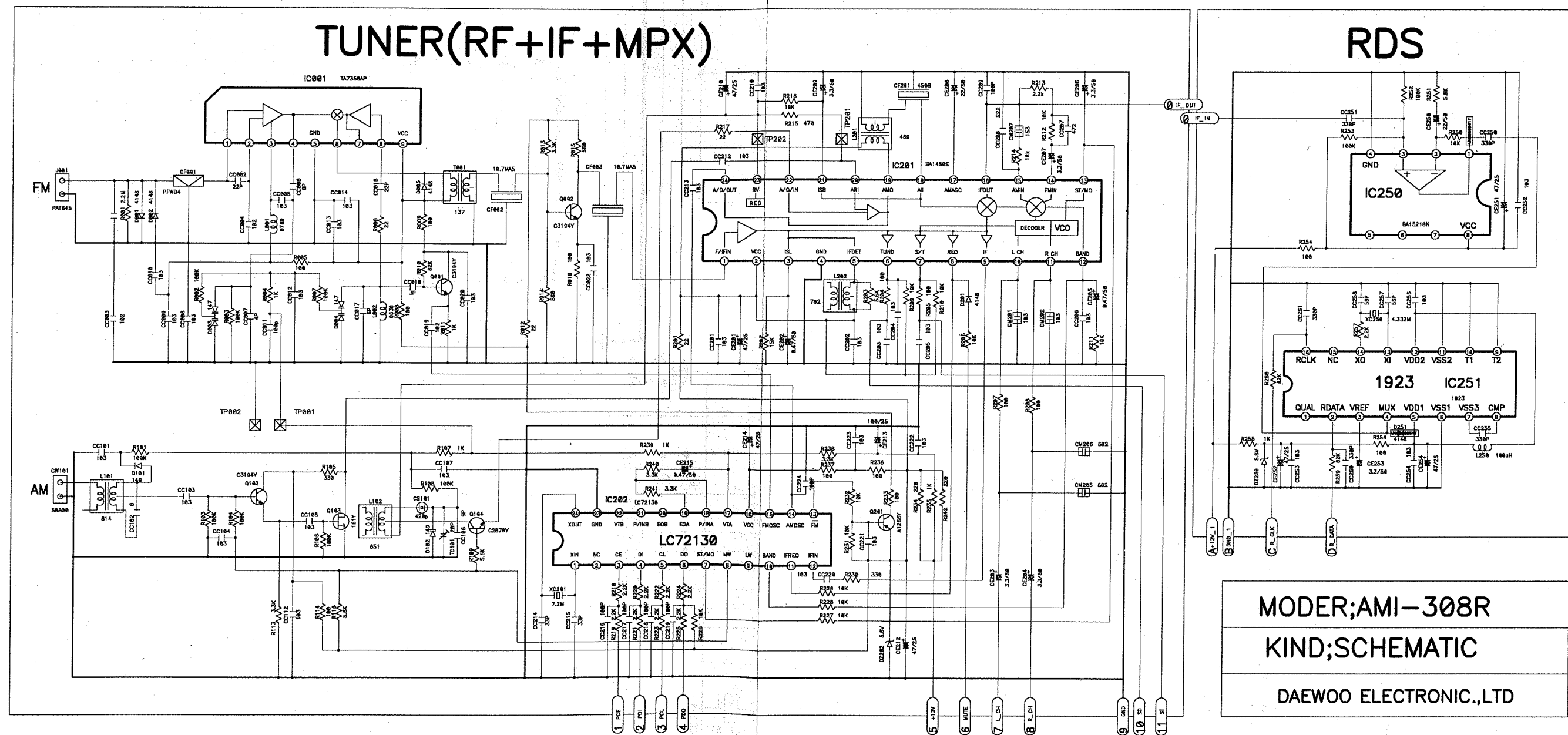
* All schematic diagrams may be modified at any time with the development of new technology.

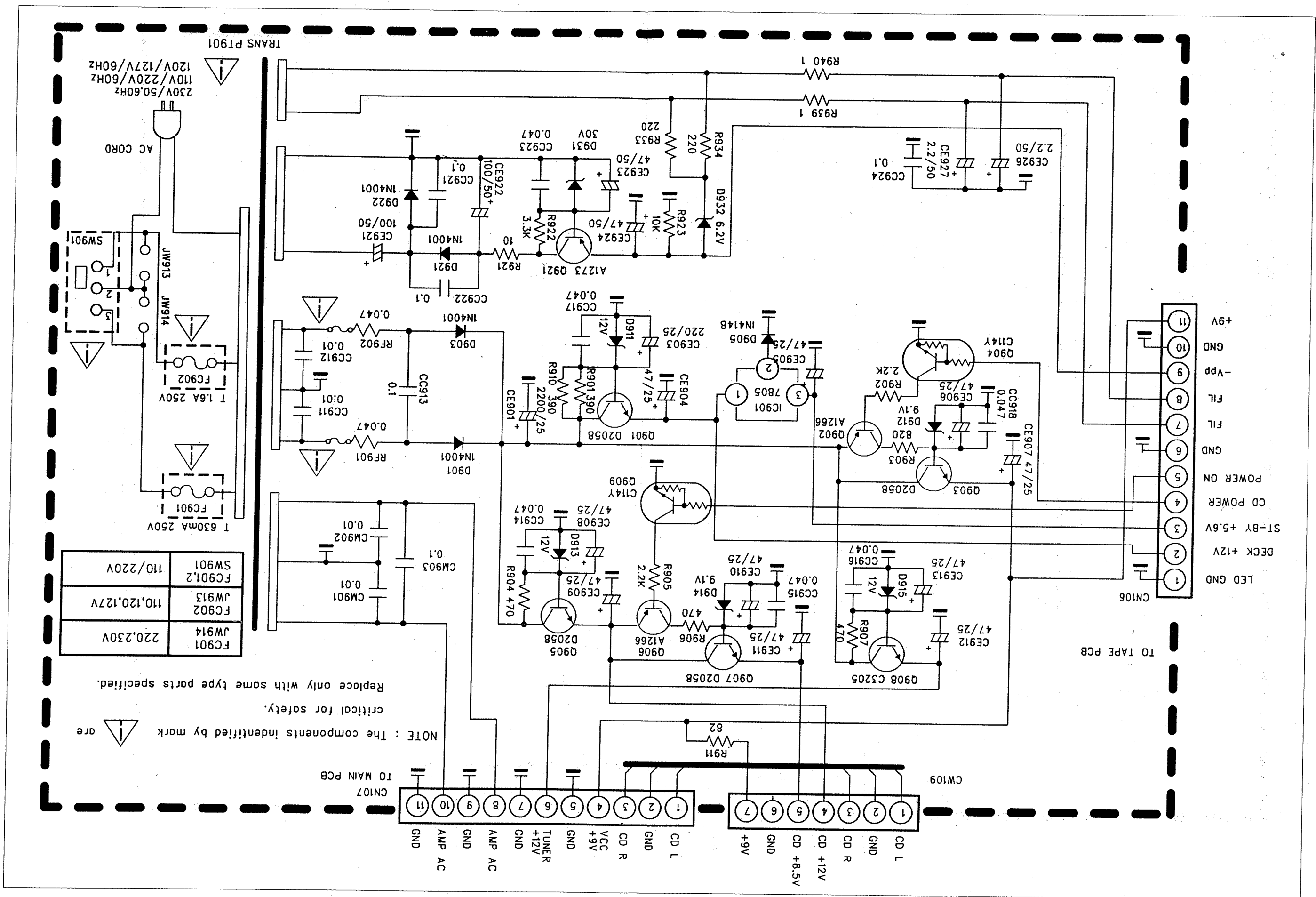
AMI-810L ADDITION

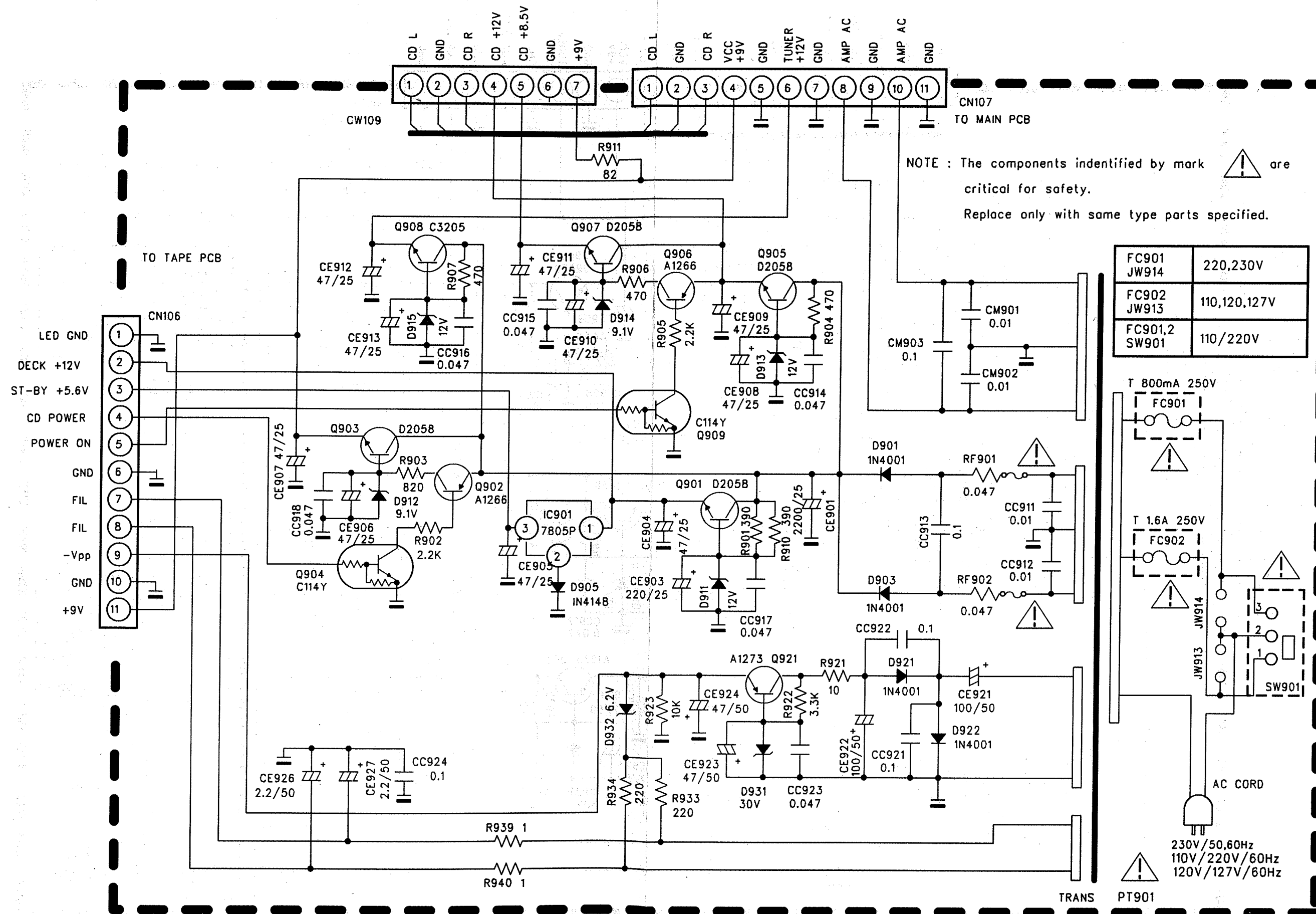


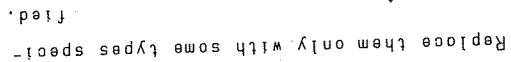


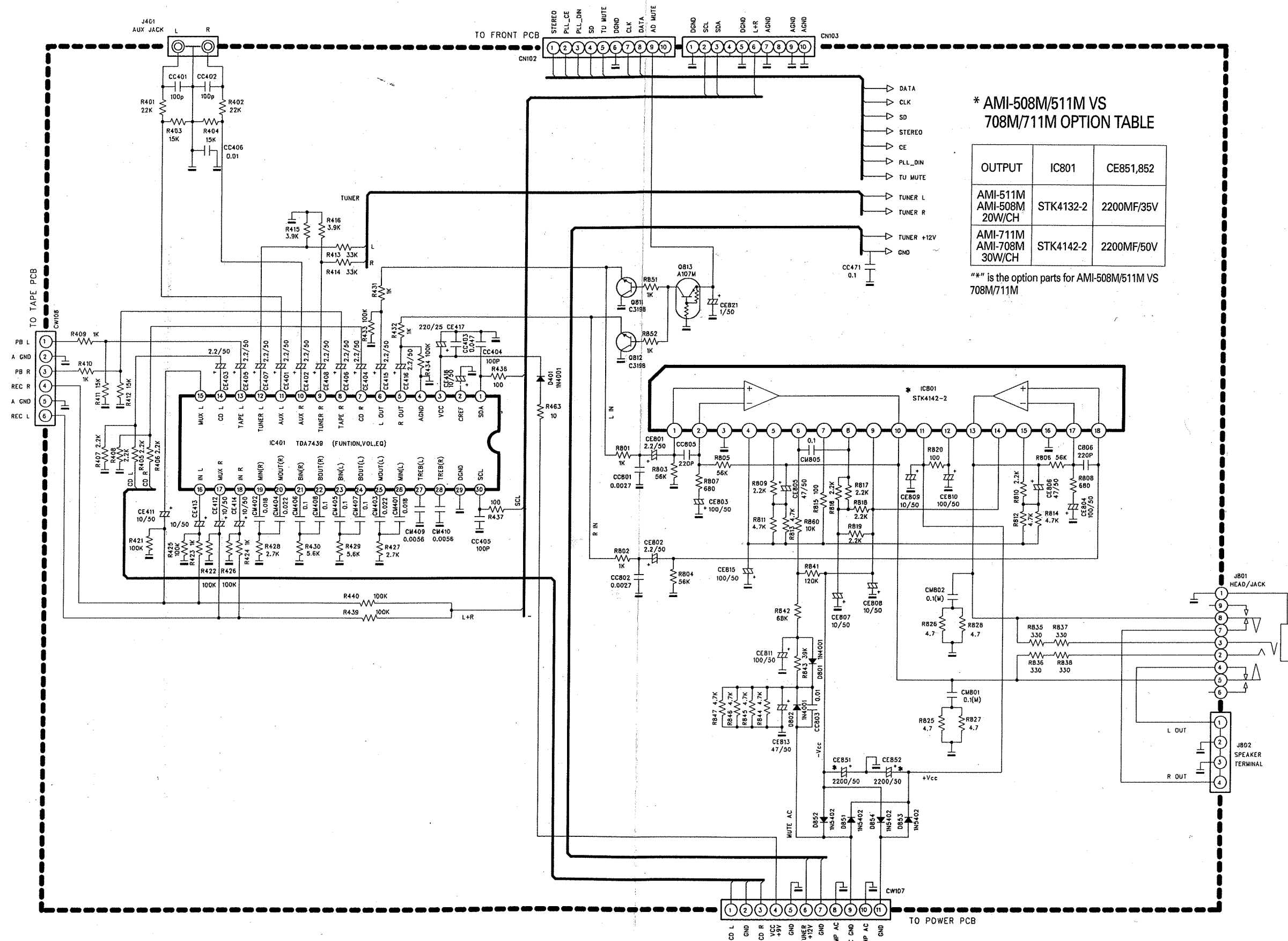








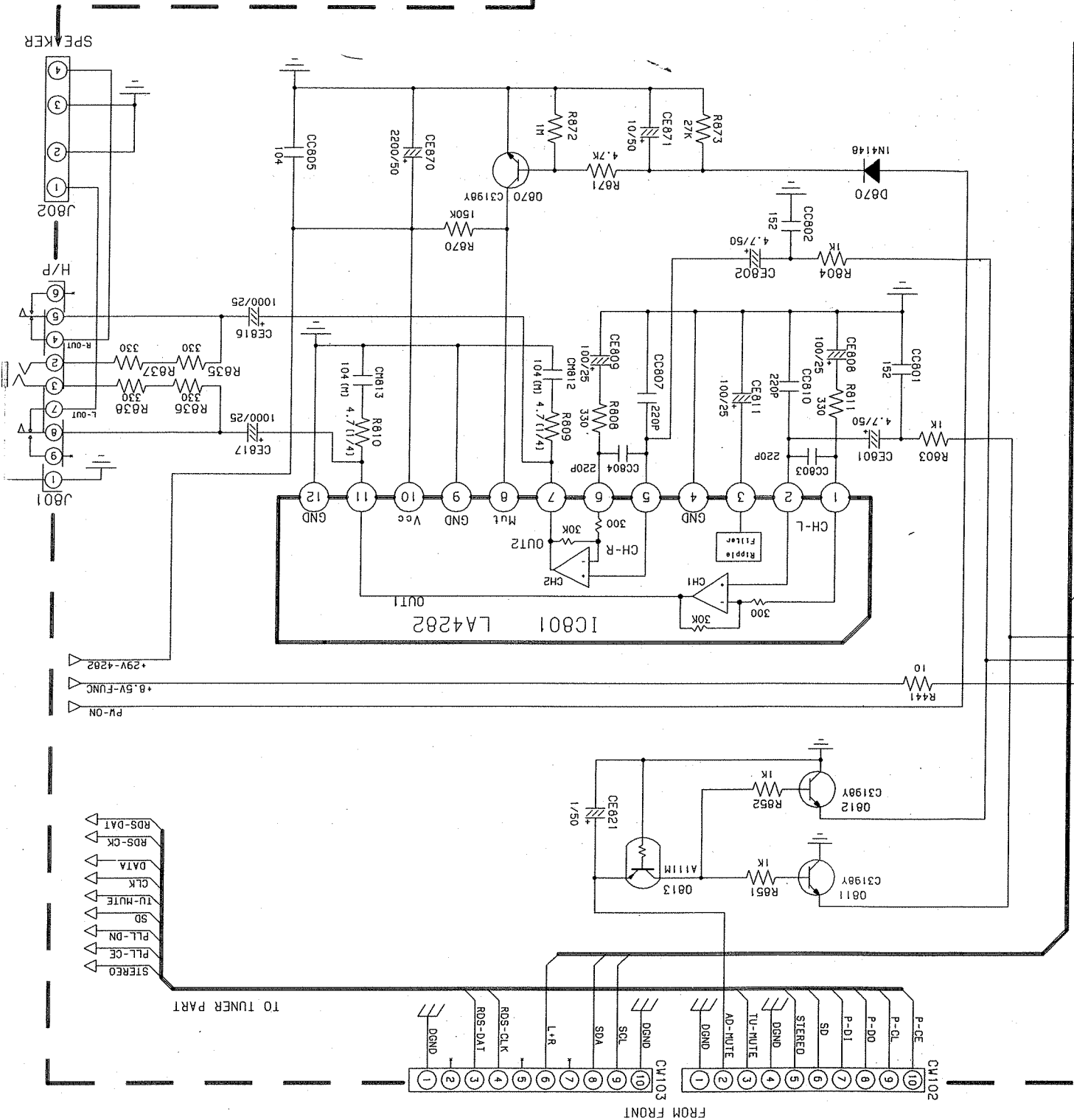
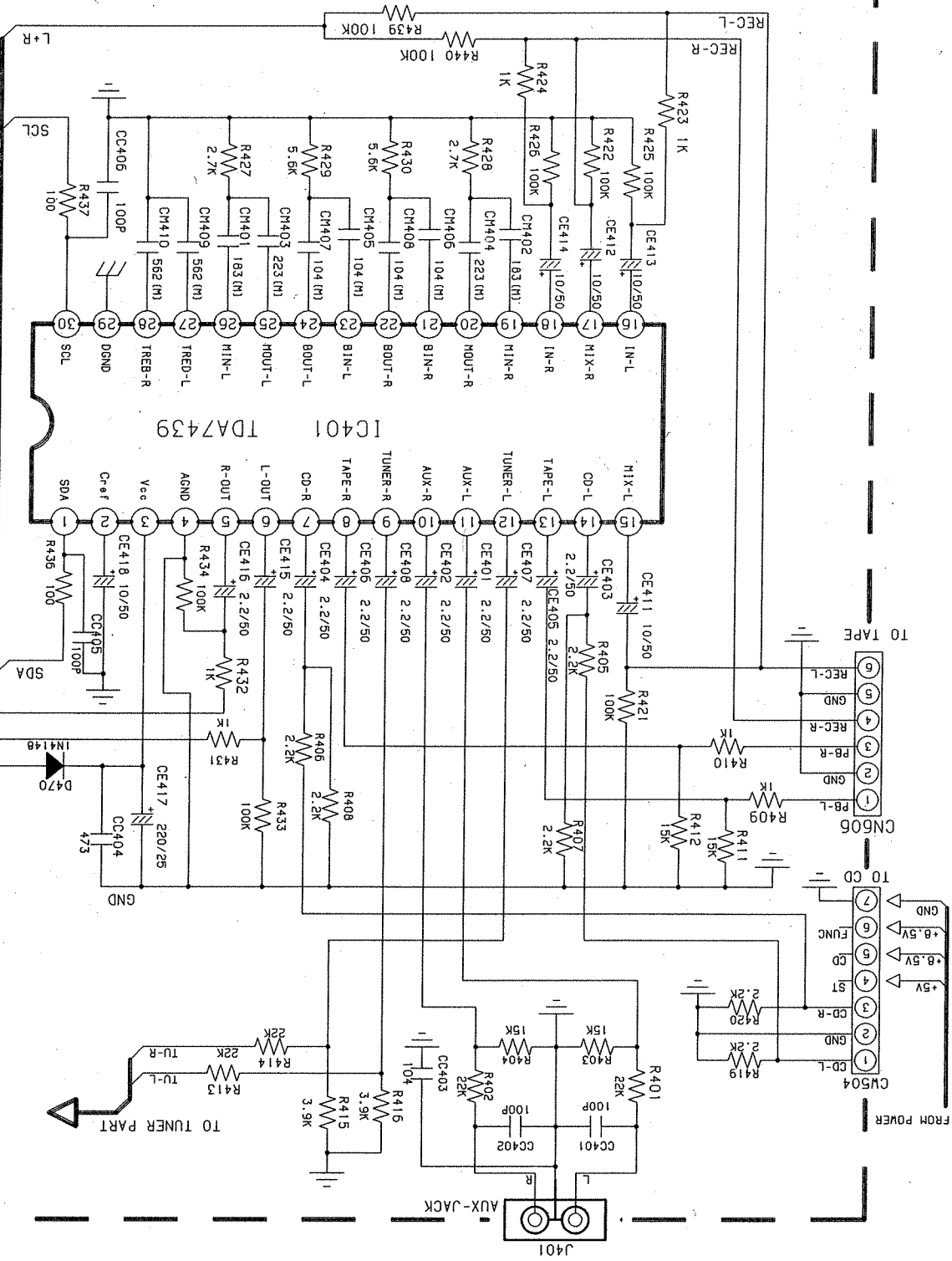




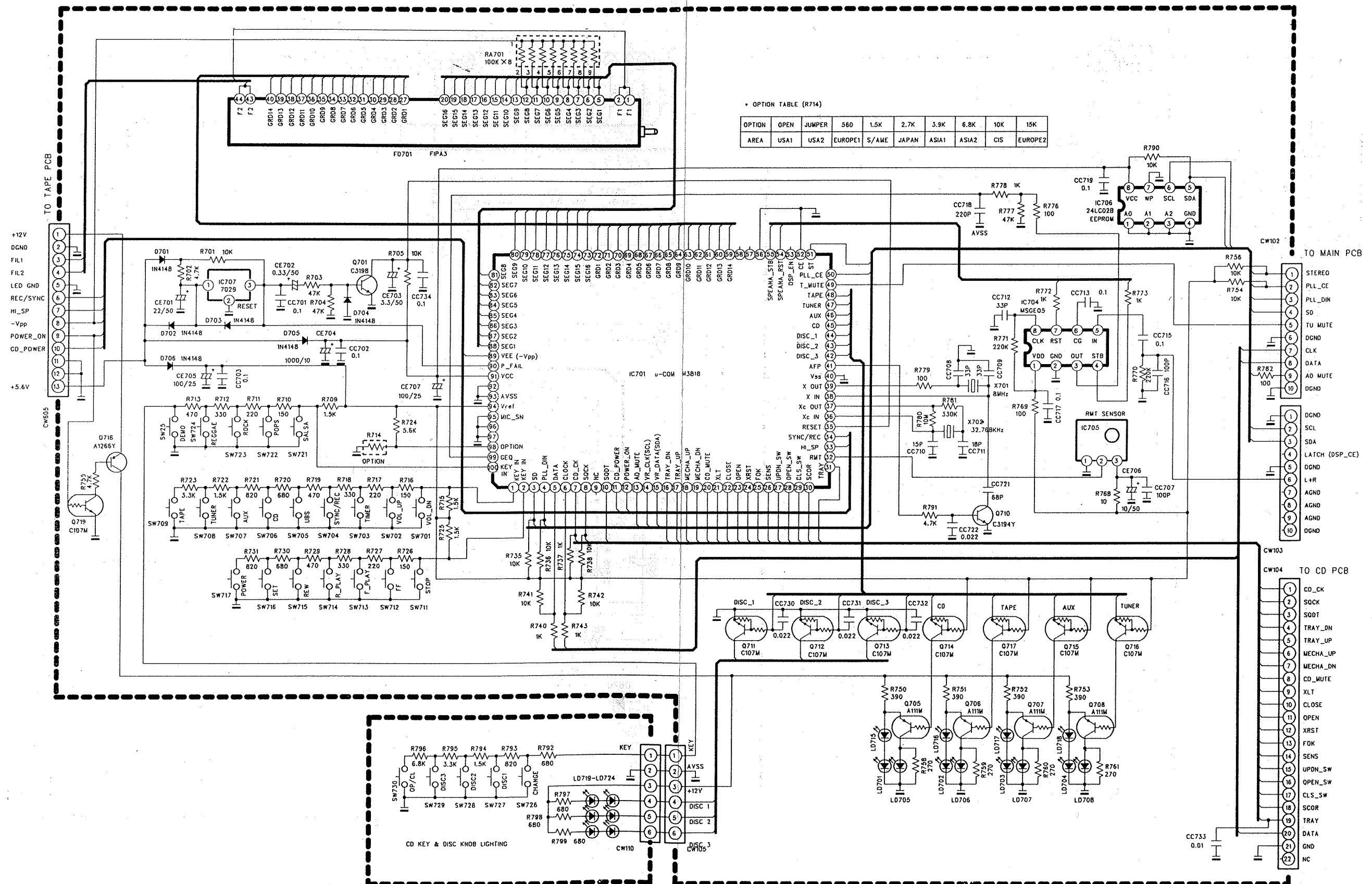
* AMI-508M/511M VS 708M/711M OPTION TABLE

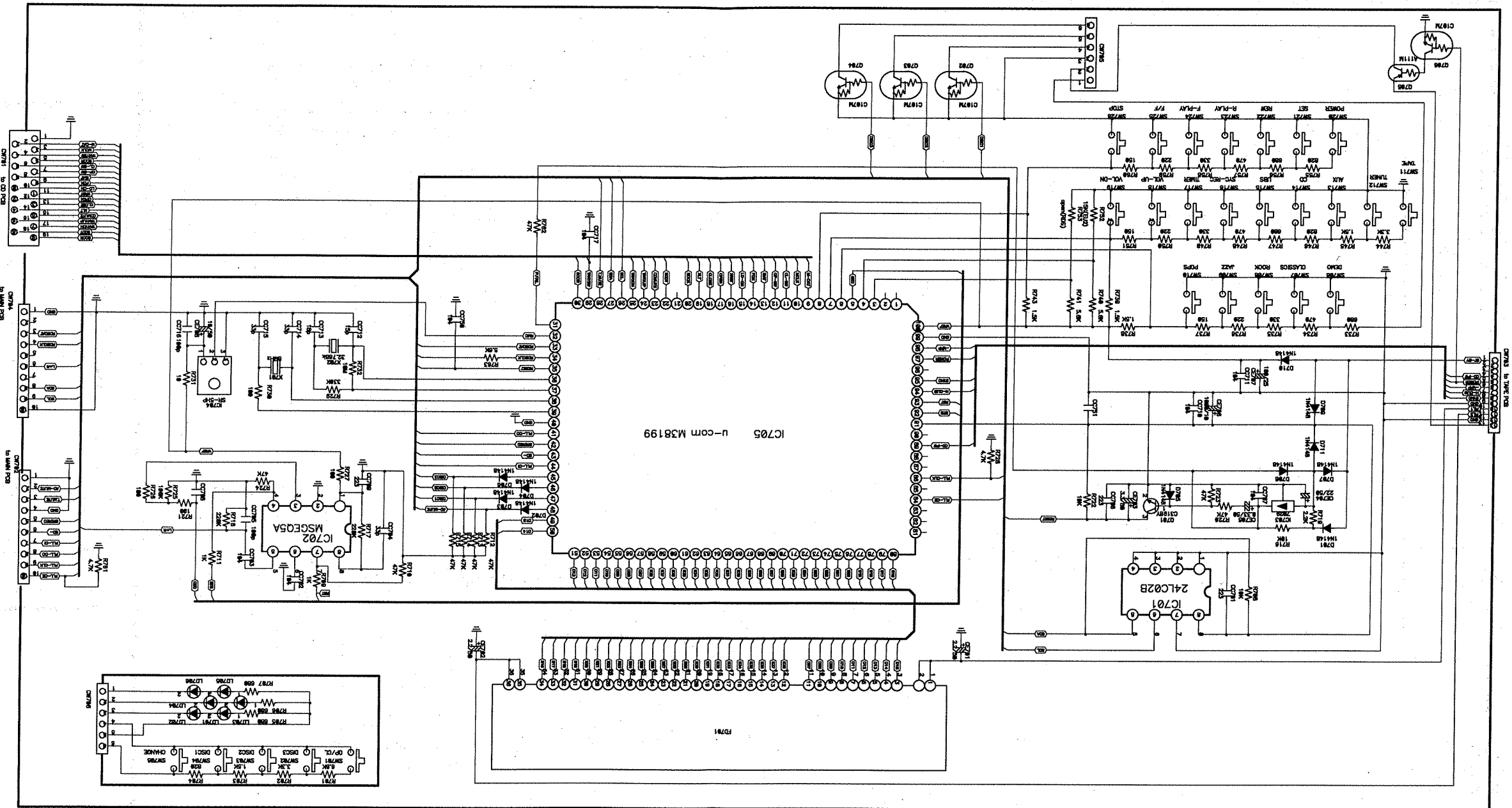
OUTPUT	IC801	CE851,852
AMI-511M AMI-508M 20W/CH	STK4132-2	2200MF/35V
AMI-711M AMI-708M 30W/CH	STK4142-2	2200MF/50V

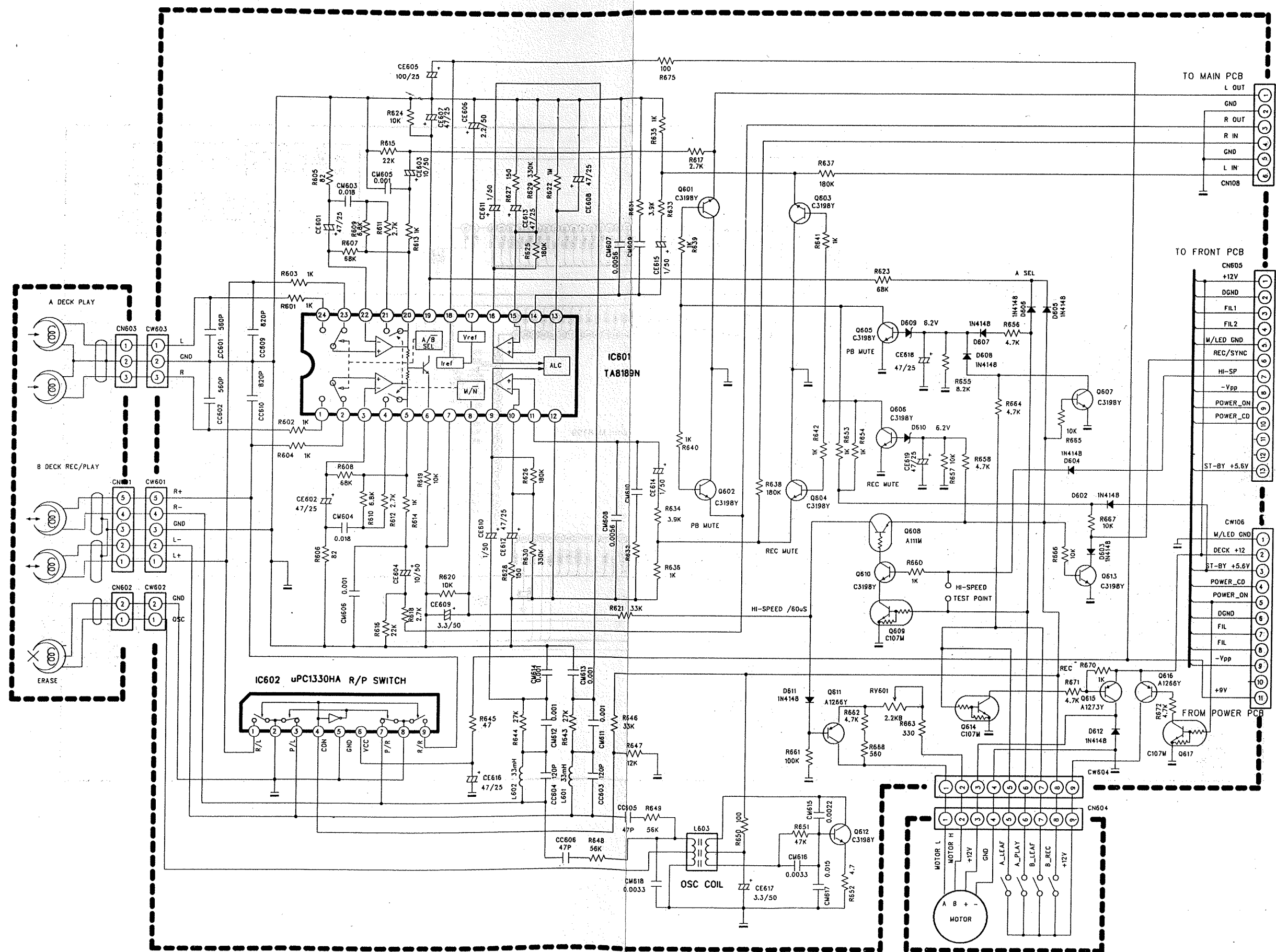
*** is the option parts for AMI-508M/511M VS 708M/711M

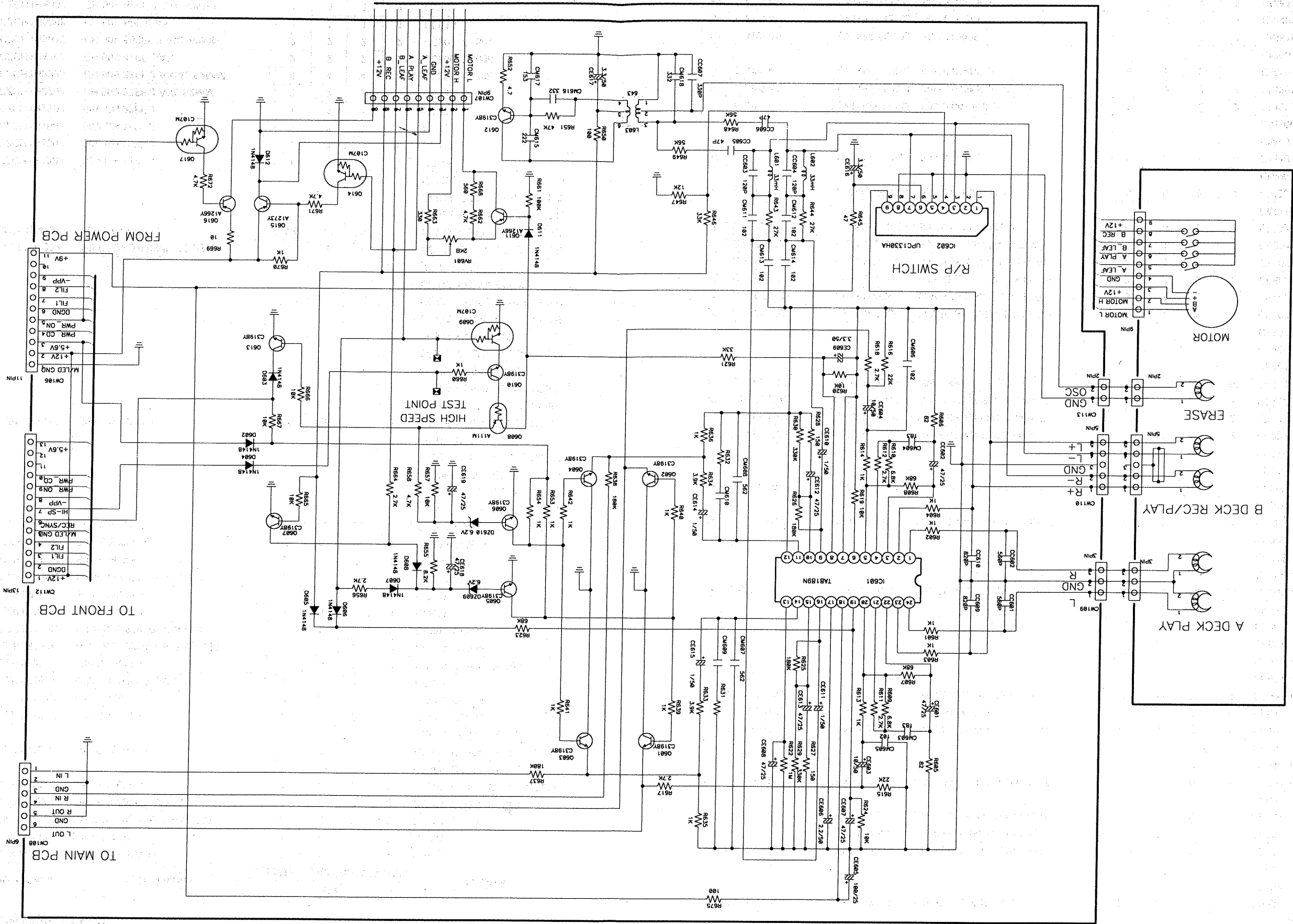


■ CONTROL [AMI-508M/708M/511M/711M]

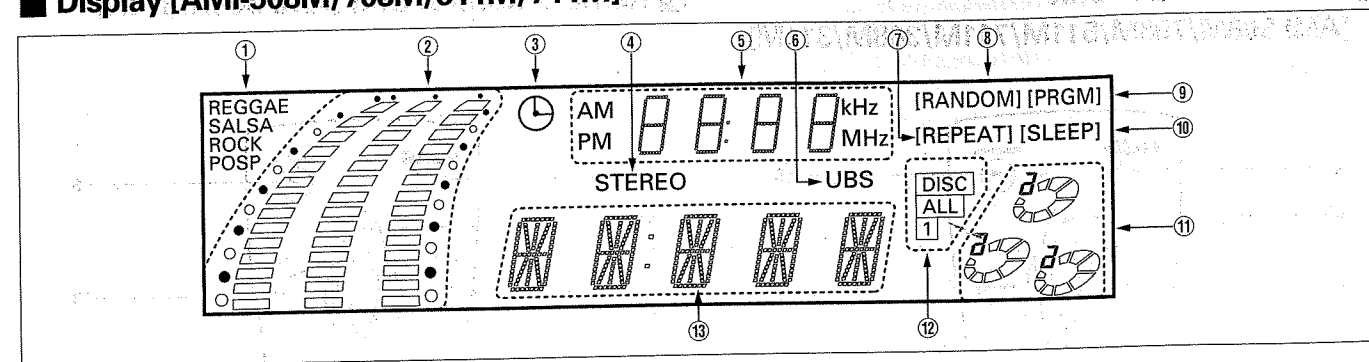




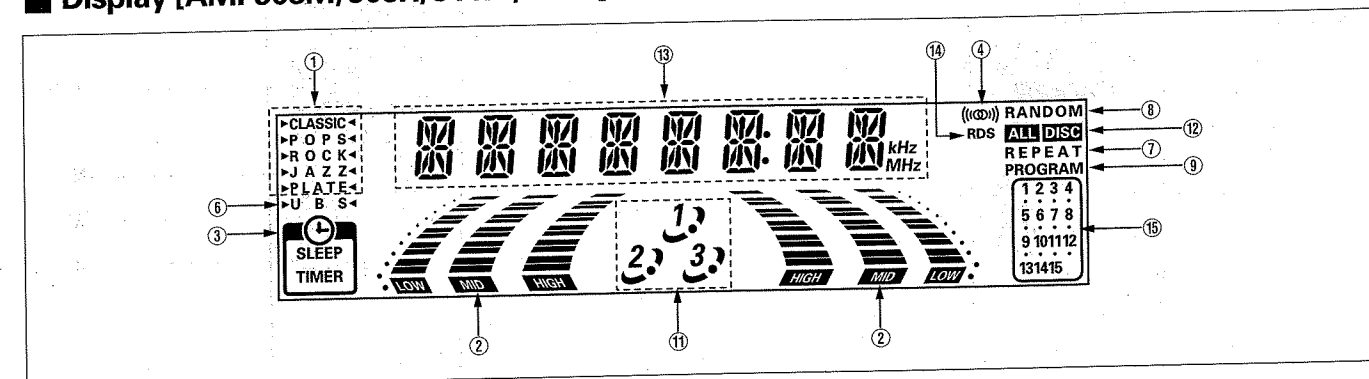




■ Display [AMI-508M/708M/511M/711M]



■ Display [AMI-308M/308R/311M/311R]

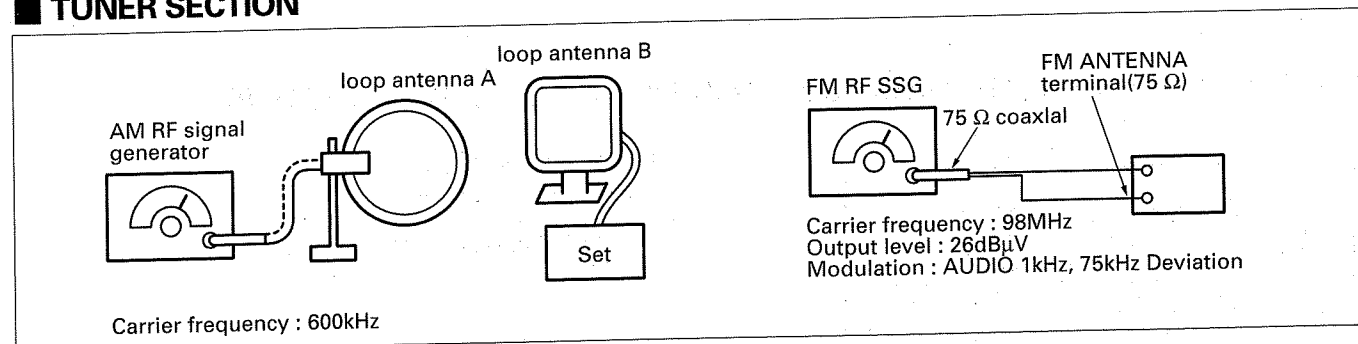


1. EQ PRESET
2. GRAPHIC EQUALIZER
3. TIMER
4. FM STEREO
5. CLOCK/PLAYING TIME/TUNER FREQUENCY
6. UBS
7. REPEAT
8. RANDOM

9. PROGRAM
10. SLEEP
11. DISC 1/2/3
12. DISC/ALL/1
13. FUNCTION
14. RDS
15. MUSIC CALENDER

4. ADJUSTMENTS

■ TUNER SECTION



TEST EQUIPMENT

1. Signal generator with a frequency range of AM broadcast
2. Oscilloscope with a side amplifier of approximately 100 kHz
3. Test loop-a coil of any size wire, one tune or more (MW)
4. FM 75/50 ohm dummy antenna
5. VTVM

AM/FM ALIGNMENT

1. Turn on the AM signal generator and the VTVM allowing a fifteen-minute warm-up period
2. Using the test loop antenna "A" across the output of the signal generator, inductively connect the signal generator to the radio
3. Connect the VTVM across test point on the PC board
4. Set signal generator frequency as listed in alignment chart and maintain a sufficient output level to provide an indication on VTVM

NOTE:

1. Use a screwdriver with plastic or ceramic grip for all adjustments
2. Standard test frequency 400 Hz and modulation 30% for AM
3. Standard test frequency 1 kHz and deviation 22.5 kHz for FM

■ FM AND AM RF, IF ALIGNMENT CHART

STEP	ITEM	INPUT CIRCUIT SETUP	OUTPUT CIRCUIT SETUP	TUNER SETTING	ADJ-POINT	ADJUSTMENT
FM [AMI-508M/708M/511M/711M]						
UNLESS OTHERWISE SPECIFIED SET SWITCHES AS FOLLOWS: FUNCTION: FM/MODE: STEREO. ADJUST GENERATOR FREQUENCY TO A CENTER OF THE FM BAND WHERE NO FM BROADCAST EXISTS.						
1	IF ADJUSTMENT	CONNECT STEREO SIGNAL GENERATOR TO FM ANT TERMINAL (J001)	CONNECT DC VOLTMETER TO TP13 AND TP12	FM 98MHz 75KHz Dev. 26dBu	L203	ADJUST FOR DC 0V±0.1V
2	AUTO STOP SENSITIVITY	CONNECT STEREO SIGNAL GENERATOR TO FM ANT TERMINAL (J001)	CONNECT DC VOLTMETER TO TP11 AND TP10	FM 98MHz 75KHz Dev. 26dBu	RV201	ADJUST FOR DC 1.17V±0.02V CONFIRM STEREO INDICATOR IS LIGHTED AND L/R CHANNEL IS SEPARATED
FM [AMI-308M/308R/311M/311R]						
1	IF TRACKING ADJUSTMENT	CONNECT FM IF SWEEP OUTPUT TERMINAL TO IC001	CONNECT JW203, GND PIN IF OUT TERMINAL TO IF SWEEP INPUT TERMINAL	FM IN BAND END	T001	ADJUST FOR STRAIGHT AND SYMMETRICAL S-CURVE WITH MAX. AMPLITUDE.
2	IF DET ADJUSTMENT	CONNECT STEREO SIGNAL GENERATOR TO FM ANT	CONNECT TP201, TP202 PIN IF OUT TERMINAL TO IF SWEEP INPUT TERMINAL	FM 98MHz 75KHz DEV 60dB	L202	ADJUST FO 0V±0.1V
3	FM VT ADJUSTMENT		DV VOLTAGE METER TP001, TP002	87.5MHz	L002	ADJUST FO DC 2.0V
4	TRACKING	FM SG ANT TERMINAL 90MHZ, 1KHZ ±22.5KHz DEV.	JW203, GND	900MHz MONO	L001	ADJUST FOR MAX. OUTPUT ADN BEST WAVEFORM.
AM [AMI-508M/708M/511M/711M]						
1	IF ADJUSTMENT	CONNECT STANDARD LOOP ANTENNA TO OUTPUT TERMINAL OF GENESCOPE	CONNECT INPUT TERMINAL OF GENESCOPE AND VTVM TO TP14 AND TP15	AM 600KHz, 30% Mod. 76dBu	L202	ADJUST FOR MAX AMPLITUDE WITH SYMMETRICAL 450 kHz
AM [AMI-308M/308R/311M/311R]						
1	IF ADJUSTMENT	CONNECT STANDARD LOOP ANTENNA TO OUTPUT TERMINAL OF GENESCOPE	CONNECT INPUT TERMINAL OF GENESCOPE TO DETECTOR OUTPUT (JW203, GND)	MW IN BAND END	T101	ADJUST FOR MAX AMPLITUDE WITH SYMMETRICAL 450KHz
2	MW BAND		DC VOLTAGE METER TP001, TP002	522KHz	L004	ADJUST FOR DC 1.2
3	TRACKING (1)	603KHz 400Hz 30% MOD	JW203, GND	603KHz	L101	ADJUST FOR MAX. OUTPUT AND BEST WAVEFORM.
4	TRACKING (2)	1404KHz 400Hz, 30% MOD	JW203, GND	1404KHz	TC101	SAME AS ABOVE

OTHERWISE ADJUSTMENT OF FM USABLE SENSITIVITY, FREQUENCY RANGE FOR FM, AM BAND ARE NOT NEEDED, BUT CONFIRM THESE DATA ARE SATISFIED WITH SPECIFICATION.

CAUTION: When realigning the FM receiving frequency the highest end of the frequency range should not be more than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulations in west Germany.