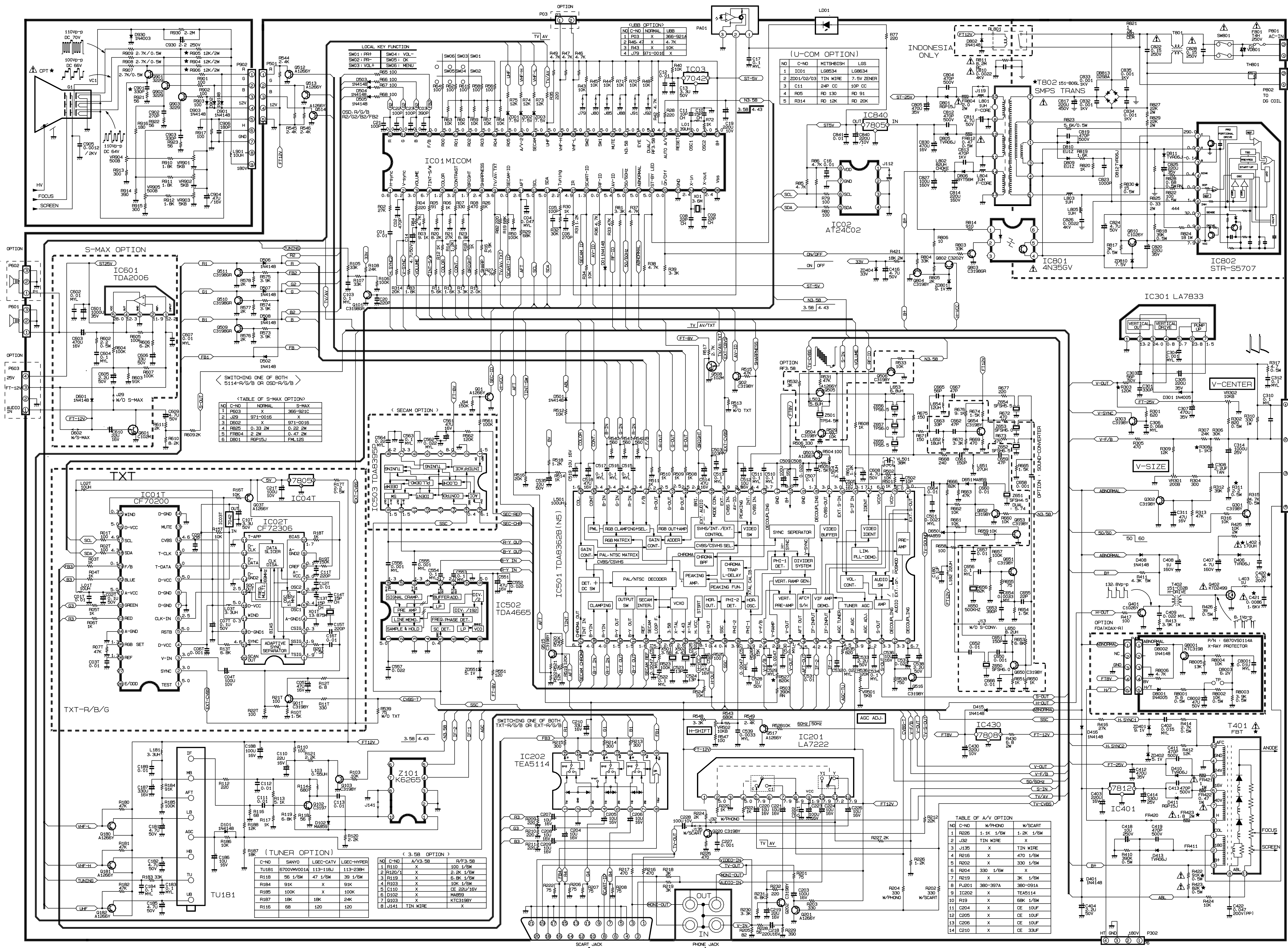


SCHEMATIC DIAGRAM OF MC-64A



NOTICE
Since this is a basic schematic diagram, the value of components and some partial connection are subject to be changed for improvement without notice.

The components marked Δ conform VDE or IEC guidelines and essential for safe operation of the TV receiver, while those marked Δ are required for correct operation. Use specified parts only when replacing.

- VALUE OF RESISTOR, CAPACITOR AND INDUCTOR**
1. Resistance is shown in Ohm, K=1,000, M=1,000,000.
 2. Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in nF and the values more than 1 in μ F.
 3. Unless otherwise noted in schematic, all inductor values less than 1 are expressed in μ H and the values less than 1 in H.
- OBSERVATION OF VOLTAGE AND WAVEFORMS**
1. Voltages read with VTVM from point to ground. Line voltages 180 - 270 volts, color bar signal.
 2. Voltages reading may vary +/- 20%.
 3. The schematic shown is representative only.
 4. All waveforms taken using a wide band oscilloscope and a low capacity probe.
 5. Check FINE TUNING, AGC, BRIGHTNESS, CONTRAST and COLOR controls for best picture, make sure that BRIGHTNESS and COLOR controls are in mid position and CONTRAST controls is almost in maximum position.
 6. Waveforms are taken using a standard color signal.

TABLE OF INCH CONVERSION (* Δ 4P changing parts)

PRODUCT NO.	14"	16"	18"	20"	21"	REMARK
T401	154-064P	154-064P	154-375P	154-375P	F.B.T	
L402	150-L01W	150-L01W	150-L02C	150-L02C	LINEARITY COIL	
R208	680	680	1.1K	1.1K	RESI. RD 1/8W	
R311	2.2	2.2	2.2	2.2	RESI. RD 0.5W	
R423	100K	100K	82K	82K	RESI. RD 0.5W	
R422	100K	100K	91K	78K	RESI. RD 0.5W	
C420	0.47	0.36	0.36	0.47	CAPA. MFP 200V	
C421	6200P	6800P	6800P	6800P	CAPA. MFP 1.6KV	
R830	12	12	15	15	RESI. RS 0.5W	
R830	151-B06G	151-B06G	151-B06G	151-B06G	TRANS SPS 5/8W	
T802	151-B06G	151-B06G	151-B05H	151-B05H	TRANS SPS S-MAX	
P901	381-100F	381-100F	381-226D	381-226D	SOCKET CPT	
PCB	111-M54C	111-M54C	111-M54B	111-M54B	PCB MAIN	
R304	82	120	300	380	RESI. RD 2W	
FR423	3.0	3.0	1.8	1.6	RESI. RF 2W	
R919	10K	12K	12K	12K	RESI. RS 2W	
R920	10K	12K	12K	12K	RESI. RS 2W	
R921	10K	12K	12K	12K	RESI. RS 2W	
R901	2700P	2700P	3300P	3300P	CN 50V	
C908	470	470	1.0K	470	RESI. RD 1/8W	
C409	0.039	0.039	0.022	0.022	CD 100V	
R411	4.7K	4.7K	4.3K	4.3K	5W	
R303	120K	75K	120K	91K	RESI. RD 1/8W	
R27	620K	620K	620K	620K	RESI. RD 1/8W	

1. RF/AV/TXT SWITCHING

MODE	SLB	MODE	LA222-2.4	8365-16	U-COM+H	VIDEO	ALD10
RF	RF(TV)	H	L	H	H	H	H
RF	TXT	H	L	H	L	H	H
AV	AV-VIDEO	L	L	L	L	L	L
AV	AV-TXT	L	L	L	L	L	L

NTSC ON CONNECT OFF

2. SAW FILTER SWITCHING

MODE	D102	SAW FILTER 1 AND 3	Q103
PAL	OFF	NOT CONNECT	ON
NTSC	ON	CONNECT	OFF

3.58 4.43

3. SOUND TRAP SWITCHING

SYSTEM	U-COM	311	2502	2504	2505	Z501
PAL	L	ON	OFF	ON	OFF	OFF
NTSC	L	OFF	ON	OFF	ON	OFF

4. SOUND FILTER SWITCHING

SYSTEM	U-COM	311	2502	2503	D501	D502	SDA4D-1P
PAL	L	ON	OFF	ON	ON	OFF	3.5/5.0/9.5
NTSC	L	OFF	ON	OFF	ON	OFF	4.5

5. H-SHIFT

V-FREQ.	U-COM	191	2517	PHI-2(V)	H-SHIFT SYSTEM
50Hz	L	ON	DOWN	RIGHT	NTSC
50Hz	H	OFF	UP	LEFT	P/S

6. V-CENTER SHIFT

V-FREQ.	U-COM	191	2517	IV
50Hz	L	OFF	ON	DOWN
50Hz	H	OFF	ON	UP

7. SYSTEM CONTROL (AUTO)

S-ID(16)	V-FREQ.	SYSTEM	3.58-SW(31)	50/60(19)	TINT-SW(4)	TINT-CONTROL
H	50Hz	SECAM	H	H	H	X
L	50Hz	PAL	L	L	L	X
L	50Hz	N3.58	L	L	L	X
L	50Hz	N3.58	L	L	L	X

B. SYSTEM CONTROL (FORCED)

SYSTEM	3.58-SW(31)	50/60(19)	TINT-SW(4)	TINT-CONTROL
PAL	H	H	H	X
L	H	L	L	X
N4.43	H	L	L	X
N3.58	H	L	L	X

9. SYSTEM CONTROL (A/V)

S-ID(16)	V-FREQ.	SYSTEM	3.58-SW(31)	50/60(19)	TINT-SW(4)	TINT-CONTROL
L	50	SECAM	H	H	H	X
L	50	PAL	H	H	H	X
L	50	N3.58	L	L	L	1-3.5
L	50	N4.43	L	L	L	1-3.5

10. AV-ID/SHARPNESS

PICTURE	IDAB362(14)	002	U-COM(17)	REMARKS
NO SIGNAL	L	OFF	H	AV DISPLAY ON SCREEN
SIGNAL	1.5 - 41V	ON	L	VOLT. IS CHANGED BY SHARPNESS

