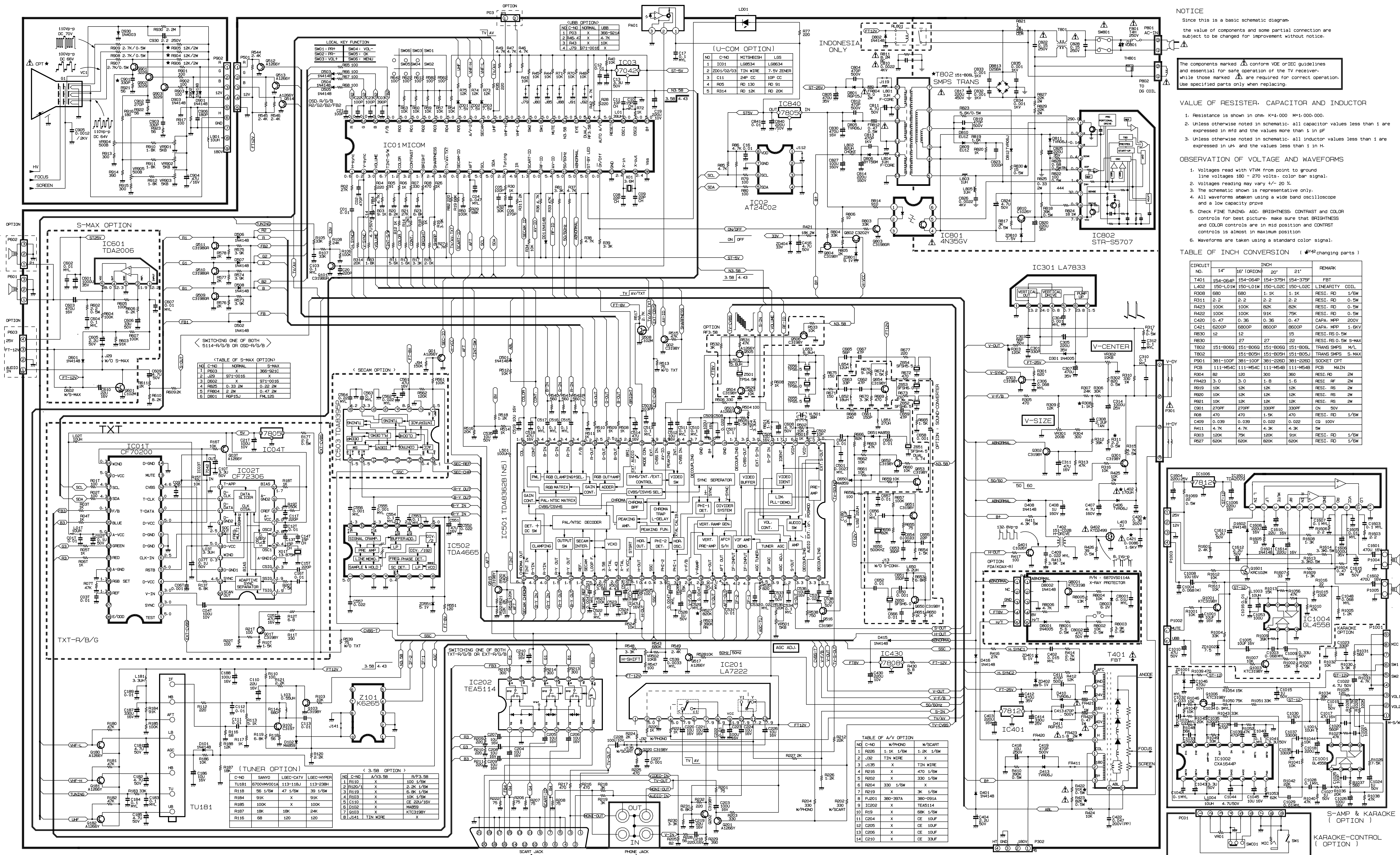


SCHEMATIC DIAGRAM OF MC-64A



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 \triangle are required for correct operation. Use specified parts only when replacing.

VALUE OF RESISTER, CAPACITOR AND INDUCTOR

- Resistance is shown in Ohm, K=1,000, M=1,000,000.
- Unless otherwise noted in schematic, all capacitor values less than 1 are expressed in nfd and the values more than 1 are in pF.
- Unless otherwise noted in schematic, all inductor values less than 1 are expressed in uH, and the values less than 1 in H.

OBSERVATION OF VOLTAGE AND WAVEFORMS

- Voltages read with VTVM from point to ground line voltages 180 - 270 volts, color bar signal.
- Voltages reading may vary +/- 20 %.
- The schematic shown is representative only.
- All waveforms taken using a wide band oscilloscope and a low capacity probe.
- 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.
- Waveforms are taken using a standard color signal.

TABLE OF INCH CONVERSION (* for changing parts)

CIRCUIT NO.	14"	16" (ONCH)	20"	21"	REMARK
L401	154-064P	154-064P	154-375H	154-375H	FBT
L402	150-L01W	150-L02	150-LOGC	150-LOGC	LINEARITY COIL
R208	880	880	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	75K	RESI. RD 0.5W
C420	0.47	0.36	0.36	0.47	CAPA. MPP 200V
C421	6200P	6800P	6800P	6800P	CAPA. MPP 1.6KV
R830	12	12	15	15	RESI. RS 0.5W
R830	151-B06G	151-B06G	151-B06G	151-B06G	TRANS SMP5
T802	151-B06G	151-B06G	151-B05H	151-B05H	TRANS SMP5 S-MAX
P901	381-100F	381-100F	381-026D	381-026D	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	820K	820K	820K	820K	RESI. RD 1/8W

1. RF/AV/TXT SWITCHING

MODE	SUB MODE	LA7222-2	LA7222-1	U-COM-4	U-COM-3	VIDEO	ALD10
RF	RF(TV)	H	H	H	H	H	H
RF	TXT	H	H	H	H	H	H
AV	AV-VIDEO	L	L	L	L	L	L
AV	AV-TXT	L	L	L	L	L	L

2. SAW FILTER SWITCHING

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

3. SOUND TRAP SWITCHING

SYSTEM	U-COM(31)	D506	D504	D505	Z501
PAL	ON	OFF	ON	OFF	OFF
NTSC	L	OFF	ON	OFF	ON

4. SOUND FILTER SWITCHING

SYSTEM	U-COM(31)	D602	D603	D601	D605	SDA-D-1P
PAL	H	ON	OFF	ON	OFF	3.5/0.9/0.5
NTSC	L	OFF	ON	OFF	OFF	4.5

5. H-SHIFT

V-FREQ.	U-COM(19)	D517	PHI-2(V)	H-SHIFT SYSTEM
50Hz	L	ON	DOWN	RIGHT
50Hz	H	OFF	UP	LEFT

6. V-CENTER SHIFT

V-FREQ.	U-COM(19)	D501	IV	V-CENTER
50Hz	L	OFF	ON	DOWN
50Hz	H	ON	UP	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	H	H	H	X
L	60Hz	NT4.43	L	L	M	0
L	60Hz	NT3.58	L	L	M	0

8. SYSTEM CONTROL (FORCED)

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

9. SYSTEM CONTROL (A/V)

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

10. AV-ID/SHARPNESS

NO	SIGNAL	L	OFF	H	AV DISPLAY ON SCREEN	REMARKS
10	1.5 - 41V	ON	L	L	VOLT. IS CHANGED BY SHARPNESS	