

电视机维修手册

THE BLACK AND WHITE TELEVISION

WITH AM/FM RADIO

REPAIR MUNUAL

TVR-550

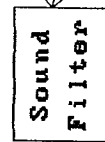
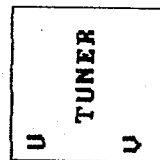
T V 486

深圳万佳电器有限公司

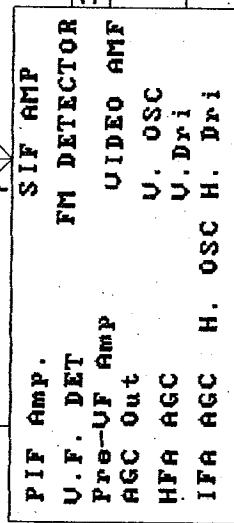
Electrical CO., LTD.

THE FRAME DIAGRAM OF BLACK AND WHITE TV CIRCUIT

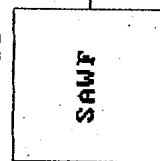
TV PCB



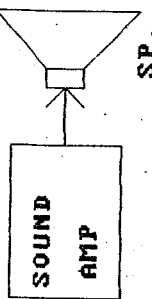
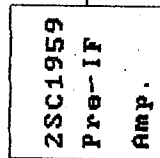
IC-202
AN5151



SF-201

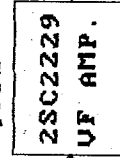


Q201

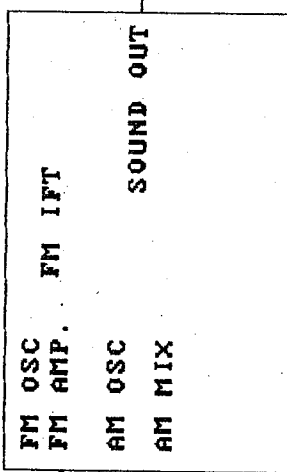
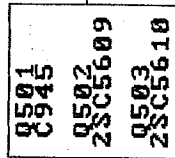


SP.

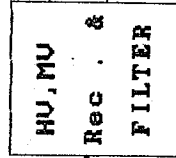
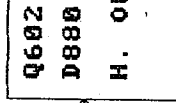
Q801



U. OUT



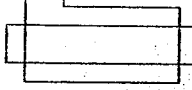
TA8164



HU

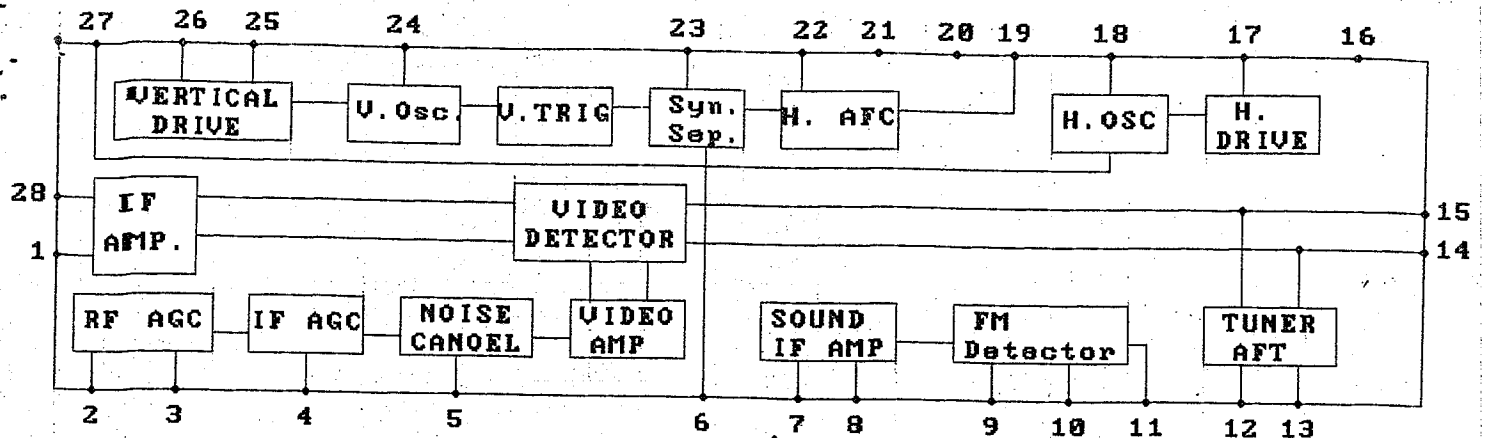
POWER
SUPPLY

RADIO PCB



CD5151 FRAME DIAGRAM AND PIN FUNCTION

A. THE FRAME DIAGRAM

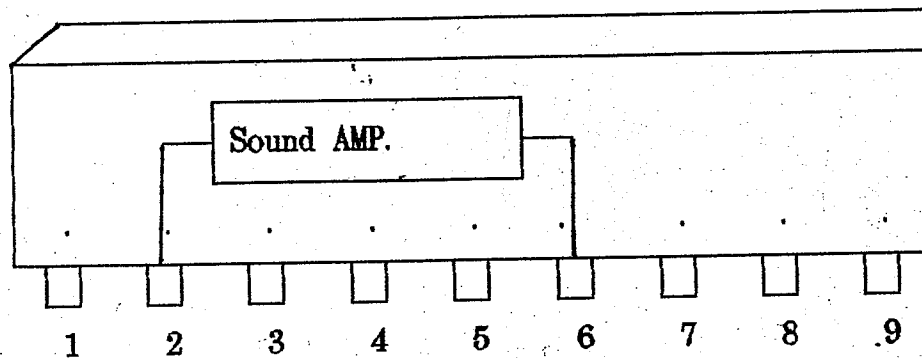


B. THE PINFUNCTION

1. IF input
2. Delaying adjust RF AGC
3. RF AGC output
4. IF AGC
5. Video frequency detector output
6. Synchronizing separate input
7. Sund IF input
8. Sund input bias
9. Sund IF output
10. Sund IF detector input
11. Sund output
12. Tuner AFT output
13. Tuner AFT coil
14. Video detector coil 1
15. Video detector coil 2
16. Volt source 2
17. Horizontal output
18. Horizontal oscillation
19. Horizontal AFC output
20. Volt source 1
21. Ground
22. Flyback transformer pulse input
23. Synchronizing separate output
24. Vertical oscillation
25. Vertical sawtooth
26. Vertical output
27. Overvoltage protection
28. IF input

CD7313 FRAME DIAGRAM AND PIN FUNCTION

A. THE FRAME DIAGRAM

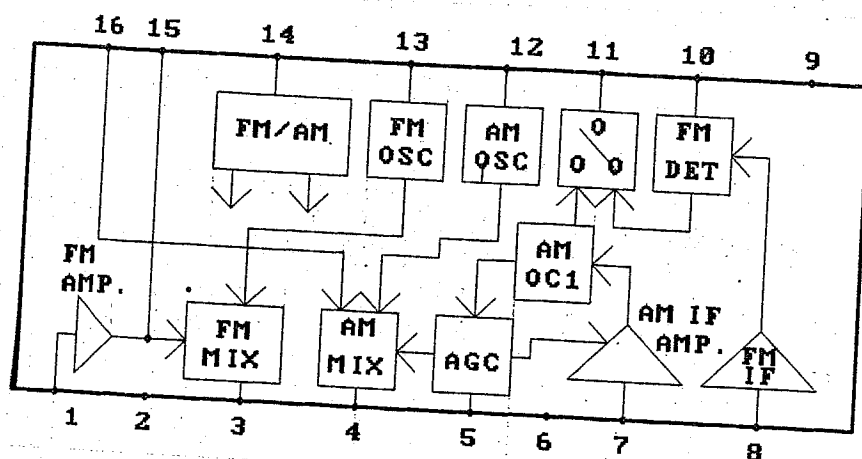


B. THE PINFUNCTION

1. Compensation 1
2. Sound signal input
3. Negative feedback
4. Compensation 2
5. Ground
6. Sound signal output
7. Volt source
8. Bootstrapping
9. Filter

TA8164 FRAME DIAGRAM AND PIN FUNCTION

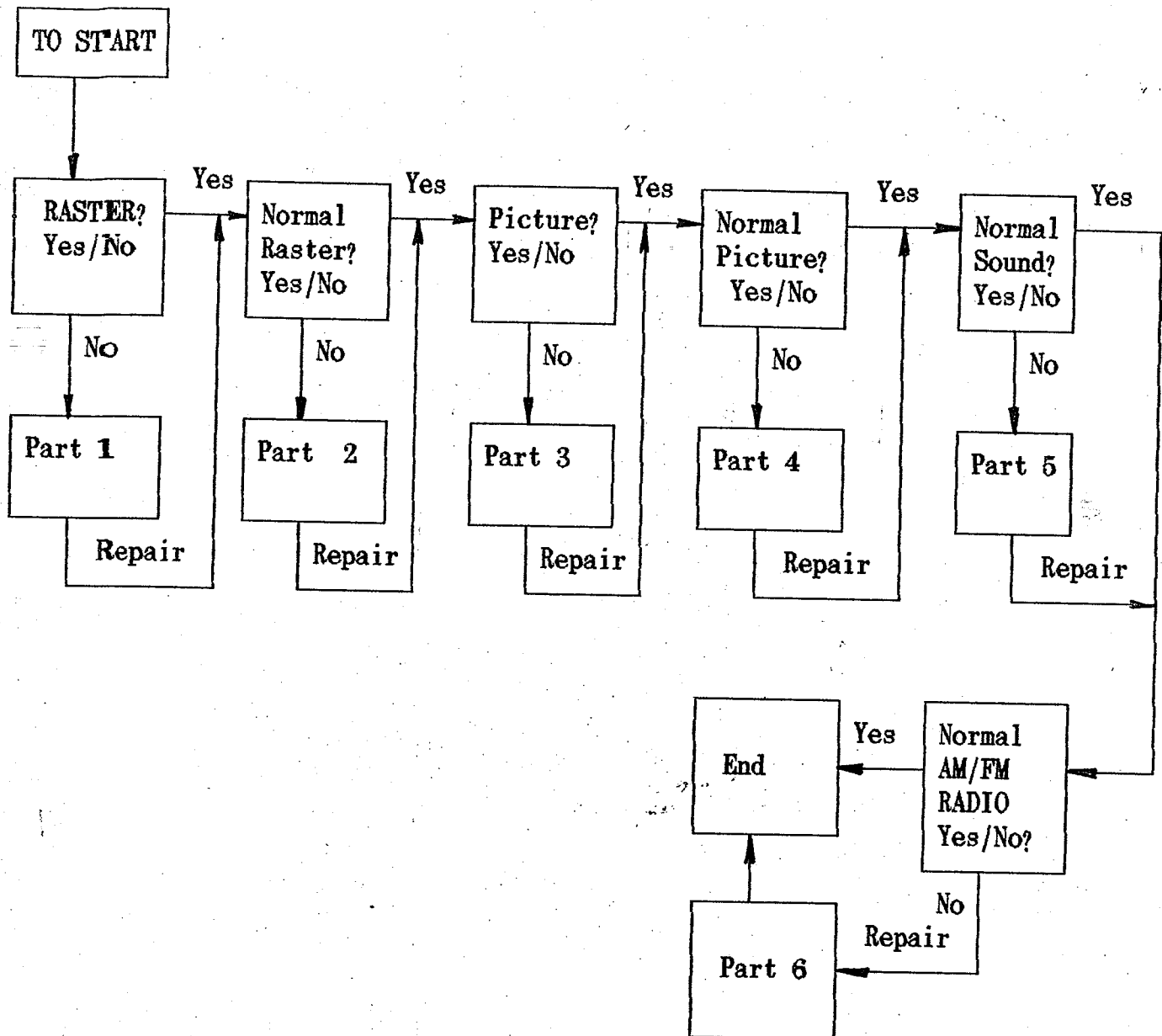
A. THE FRAME DIAGRAM



B. THE PINFUNCTION

1. FM input
2. Ground
3. FM IF out
4. AM IF out
5. AM AGC
6. Volt source
7. AM IF input
8. FM IF input
9. Ground
10. FM tuner
11. Sound out
12. AM Osc
13. FM Osc
14. AM/FM commutation switch
15. AM tuner
16. AM in

THE PROGRAM DIAGRAM REPAIRING BLACK AND WHITE TV WITH AM/FM RADIO



PART 1 RASTER Yes/NO?

	Trouble Phenomenon	Solving action
1	No raster and no sound signal	. Check AC adaptor connection. . Replace fresh batteries.
2	No raster and have sound	. Horizontal scanning or CRT circuit.
3	One bright vertical line	. Horizontal scanning or deflection circuit.
4	One bright horizontal line	. Vertical scanning or deflection circuit.

PART 2 NORMAL RASTER Yes/NO?

	Trouble Phenmenon .	Solving Action
1	Raster too light	. CRT is bad. . Volt source too high.
2	Raster too dark	. CRT is bad. . Volt source too low.
3	Off focus	. CRT is bad. . Flyback transformer is bad. . CRT PCB is bad.

PART 3 Picture Yes/NO?

	Trouble Phenmenon	Solving Action
1	No Picture	. Make sure the antenna is not broken. . Adjust the brightness and contrast controls.
2	Noise and wave (video)	. Antenna or high frequency amplifier or tuner.
3	No noise and wave (video)	. Tuner or IF amplifier or AGC.
4	Scanning retrace line	. Video frequency Amplifier circuit

PART 4 NORMAL RASTER Yes/NO?

	Trouble Phenmenon	Solving Action
1	The vertical and horizontal frequency are not synchronize.	. Public channel or AGC or synchronizing separation circuit.
2	The vertical frequency is not synchronizing.	. Vertical oscillator or Integrated circuit.
3	The horizontal frequency is not synchronizing.	. Flyback transformer is bad. . CRT PCB is bad.
4	Interfered	. AFC circuit or horizontal oscillator or power supply or interfered by power supply and outside or horizontal output or sound signal absorbing etc.
5	Soft picture or no clear	. Tuner or picture channel or AGC. or video frequency amplifier.

PART 5 NORMAL SOUND SIGNAL Yes/NO?

	Trouble Phenmenon	Solving Action
1	No sound signal or light sound voice or sound signal distortion.	. Sound signal channel.

PART 6 NORMAL AM/FM RADIO Yes/NO?

	Trouble Phenmenon	Solving Action
1	No sound	. Check Plug-101 and IC (TA8164).
2	Noise or Sound Distored on AM or FM broadcasts	. Station not tuned properly. . Turn the unit for best reception. . FM antenna needs adjusting.

[illegible]

37	1	SCREW	STEEL	Pt2.5*8	
36	1	TURN RESISTANCE		100 Ω	
35	1	PVC			
34	1	WASHER	STEEL	φ 5	
33	2	SCREW	STEEL	PT3*8	
32	1	SCREW	STEEL	PM1.8*4	
31	1*	SCREW	STEEL	PM2.5*6	
30	3	SCREW	STEEL	PT3*8	
29	2	SCREW	STEEL	PWT3*10	
28	1	SCREW	STEEL	PWT3*10	
27	2	SCREW	STEEL	PT3*8	
26	2	SCREW	STEEL	PT3*10	
25	4	SCREW	STEEL	PWT3*10	
24	1	SCREW	STEEL	PM2.5*6	
23	1	HEAT SINK	AL		
22	1	FBT.			
21	1	VOLUIM KNOB	ABS		
20	2	SLIDE KNOB	ABS		
19	1	SHAFT	H59-1		
18	1	RADIO GEAR	ABS		
17	1	TURN GEAR	ABS		
16	1	RADIO HOLD	ABS		
15	1	PCB-RADIO			
14	4	LITTLE WHEEL	ABS		
13	1	DIAL POINT	ABS		
12	1	DIAL HOLD	ABS		
11	6	BATTER SPRING	STEEL		
10	1	BATTERY COVER	ABS		
9	1	ANT	H		
8	1	REAR CABINET SPEAKER	ABS		
7	1	SPEAKER			
6	1	PCB-CRT			
5	1	CRT HOLD	STEEL		
4	1	CRT			
3	1	TURN KNOB	ABS		
2	1	FRONT CABINET	ABS		
1	1	TRANSPARENT FACE	ABS		
No.	QT Y	DESCRIPTION	MATERIAL	SPECIFICATION	CODE NO.

antenna

tuner

pre-I. F. amplifier

surface acoustic wave filter

picture I. F. amplifier

video frequency detector

pre-video frequency amplifier

automatic noise amplifier

horizontal linearity control

vertical linearity control

intermediate frequency amplifier

video frequency amplifier

sound signal filter

FM detector

electronics volume control

audio amplifier

vertical oscillator

sawtooth wave generation

vertical output

synchronizing separation

horizontal AFC

horizontal oscillation

horizontal driving

horizontal output

high voltage

medial voltage

rectifier and filter

cathode ray tube

speaker

ANT.

Pre-I. f. Amp

SAWF.

P-IF. AMP

V. F. D.

P-Vf. Amp

ANC

HLC

VLC

IF. Amp.

VF. Amp

SSF

FM Det.

EVC

AA

V. Osc

SAW. G.

V. Out.

Syn. Sep.

H. AFC

H. Osc

H. Driv

H. Out

H. V.

M. V.

R. & F.

CRT

SP.

RADIO CIRCUIT

