

General Information

Also Covers
2025 RS, 2045 TS, 2145 TS.
Daewoo CP-375

X-Ray Precautions

Safety Instruction

- 1.Excessive high voltage can produce potentially hazardous X-RAY RADIATION.To avoid such hazards, the high voltage must not exceed the specified limit. The nominal value of the high voltage of this receiver is 22-23KV (14"),25-26Kv (20", 21") at max beam current. The high voltage must not, under any circumstances, exceed 27.5 NV (14", 20"), 29.0Kv (21"). Each time a receiver requires servicing, the high voltage should be checked. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY Radiation in this TV receiver is the picture tube.For continued X-RAY RADIATION protection,the replacement tube must be exactly the same type tube as specified in the parts list.

Adjustments

1. AFT

1.1 Standard B/G,D/K,I and L

- 1) Set a Signal Generator with
 - RF FREQUENCY = 38.9 MHz,
 - RF OUTPUT LEVEL = 800 ±5 dBuV
 - System = PAL / SECAM - B/G, D/K, I

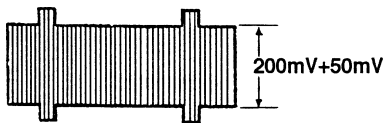
- 2) Connect the Signal Generator RF Output to P101 (Tuner IF Output). There must be no signal input to the tuner.
- 3) Press the 'AFT' KEY and wait until the TV screen display "AFT OK".

1.2 Standard SECAM-L' (France VHF-Low)

- * Above mentioned "1.1," adjustment has to be done in advance.
- 1) Set a Signal Generator with
 - RF FREQUENCY = 34.2 MHz,
 - RF OUTPUT LEVEL =800 ±5 dBuV
 - System = SECAM -
- 2) Connect the Signal Generator RE Output to P101 (Tuner IF Output). There must be no signal input to the tuner.
- 3) Press the "L' AFT" KEY and wait until the TV screen display "L AFT OK".

2. AGC

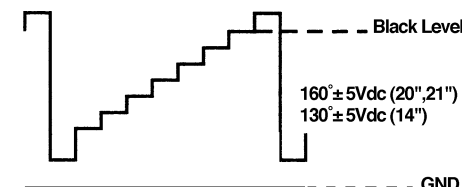
- 1) Set a Pattern Generator with RF LEVEL 630±2 dBuV.
- 2) Connect a OSCILLOSCOPE PROBE to P101 (TUNER AGC INPUT).
- 3) Adjust AGC UP/DOWN KEY the voltage drop 1V dc over below its maximum voltage.



- * Alternative Method
- 1) Set a Pattern Generator with
 - RF LEVEL 800±5 dBuV
 - PAL CROSSHATCH (without SOUND CARRIER)
- 2) Connect a OSCILLOSCOPE (Bandwidth ≥ 100MHz) PROBE to P101 (TUNER IFOUTPUT).
- 3) Use AGC UP/DOWN KEY to obtain an envelop amplitude 200 + 50 mVp-p.

3. SCREEN

- 1) Apply a COLOR BAR pattern signal.
- 2) Set the CONTRAST, BRIGHTNESS to MAX, COLOR to MIN.
- 3) Set the R,G,B LEVEL to CENTRE (31/63) with R,G,B UP/DOWN KEY.
- 4) Connect a OSCILLOSCOPE PROBE to P906 (CRT CATHOD R, G, B).
- 5) Adjust the SCREEN VOLUME on FBT such that the highest black level voltage 1600 ±5Vdc (20", 21"), 130°±5Vdc (14").



4. WHITE BALANCE

- 1) Set the TV to NOR I mode.
- 2) Set the R,G,B LEVEL to CENTRE with R,G,B UP/DOWN KEY.
- 3) Adjust the R,G,B UP/DOWN KEY of the other color which did not appear on the screen to obtain WHITE.

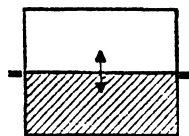
5. FOCUS

- 1) Apply a RETMA PATTERN signal.
- 2) Adjust the FOCUS VOLUME on FBT to obtain optimal resolution.

6. GEOMETRY

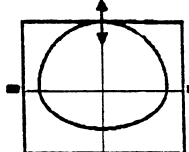
6.1 VERTICAL CENTRE

- 1) Set the TV to NOR I mode.
- 2) Pressing the V-SIZE UP/DOWN KEY, the lower half of the screen is blanked.
- 3) Adjust the border line of blanked picture coincident with the mechanical center marks of the CRT using the V-SIZE UP/DOWN KEY.



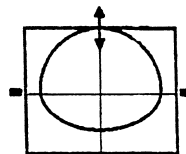
6.2 VERTICAL SIZE

- * The VERTICAL CENTRE adjustment has to be done in advance.
- 1) Apply a RETMA PATTERN signal.
- 2) Set the TV to NOR I mode.
- 3) Adjust the upper part of the picture with the V-SIZE UP/DOWN keys.



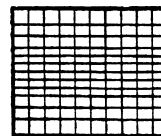
6.3 VERTICAL SLOPE

- * The VERTICAL SIZE adjustment has to be done in advance.
- 1) Apply a RETMA PATTERN signal.
- 2) Adjust the lower part of the picture with the V-SLOPE UP/DOWN keys.



6.4 VERTICAL S-CORRECTION

- 1) Apply a CROSSHATCH PATTERN signal.
- 2) Adjust the 5-COR UP/DOWN KEY to obtain the same distance between horizontal lines.

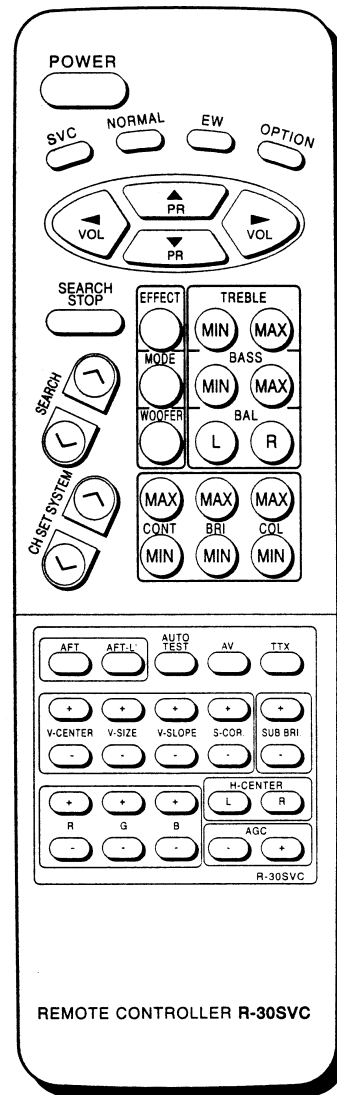


6.5 HORIZONTAL CENTRE

- 1) Apply a RETMA PATTERN signal.
- 2) Adjust picture centering with CENTRE LEFT/ RIGHT keys.

- If EEPROM (I703) has been changed;
 - Option data has to be changed and
 - all alignment function has to be readjusted.

* Service Remocon



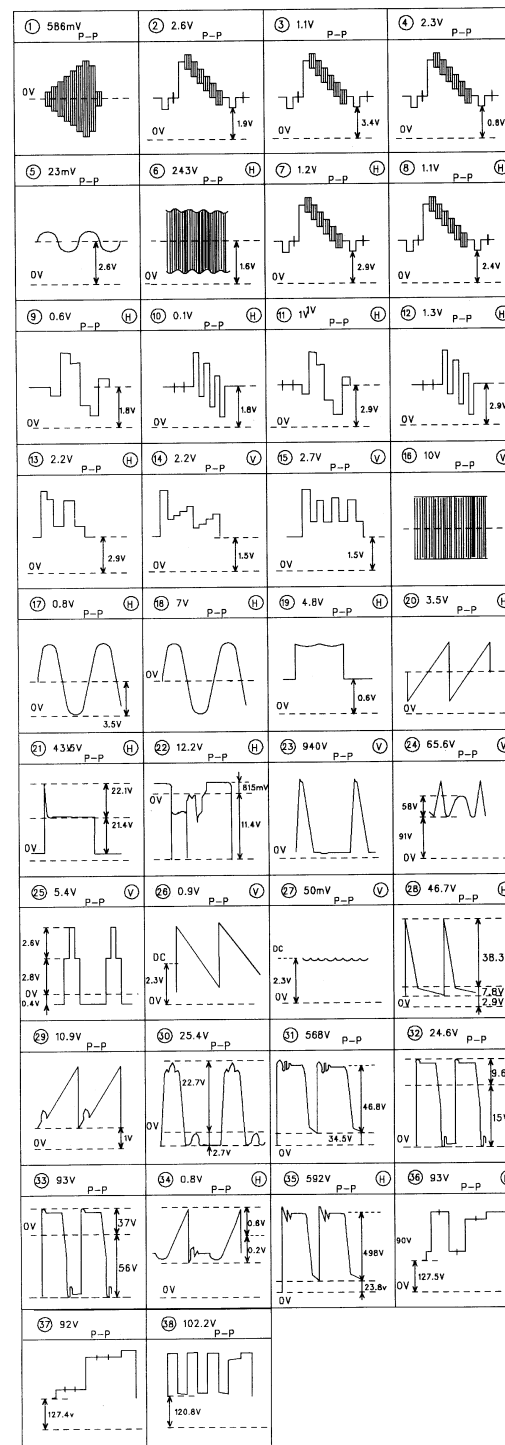
* Option

	Initial state (Blank EEPROM)	TA (FRANCE)	TU (UK)	TF,TK (OTHERS)	Remark (u-COM Version)
AV BAND	AV2 3 BAND	AV2 3 BAND	AV2 1 BAND	AV2 3 BAND	
FRANCE	OFF	ON	OFF	OFF	
N3.58	OFF	OFF	OFF	OFF	DW5255M2-3 DW5255RM1 -2
ATS	ON	ON	ON	ON	DW5255M4 DW5255RM3

- * The initial state of adjustment are as follows;
V-Center, V-Slope V-Size, H-Center, R, G, B,
AFT = Center (30/64 - 33/64)
S-Correction = 00/64
AGC = 10/64

Waveforms

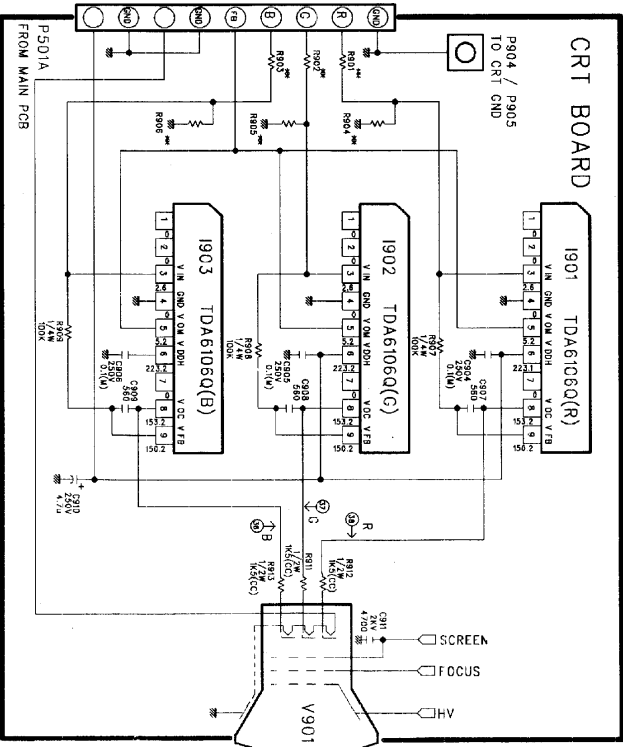
VIDEO : 8 STEP PAL COLOR BAR 87.5% AM
AUDIO : 1KHz SINE WAVE 60% FM



CRT Type Table
(Difference of Parts
for CRT)

No.	Loc.	Name	14" OEC	14" Polkolor	14" PHILIPS	20" OEC	20" Polkolor	21" OEC	21" Polkolor	21" PHILIPS
1	V901	CRT BARE	A34JLL90X 48A96414P1	A34EFU13X01 4859606640	A34EAC01X	A48JLL90X01	A48EEV33X01	A51JSW90X02	A51EBV13X09	A51EAL55X01
2	SCT1	SOCKET CRT	ISMM03S 4859303030	—	ISMM03S 4859303030	ISMM03S 4859303030	—	ISMM03S 4859303030	—	—
3	SCT2	SOCKET CRT	—	ISHS09S 4859302930	—	—	ISHS09S 4859302930	—	ISHS09S 4859302930	ISHS09S 4859302930
4	LP03	COIL BEAD	MD-5 5MC0000100	—	—	MD-5 5MC0000100	—	—	MD-5 5MC0000100	MD-5 5MC0000100
5	LP04	COIL BEAD	—	MD-5 5MC0000100	MD-5 5MC0000100	—	MD-5 5MC0000100	MD-5 5MC0000100	—	—
6	L405	COIL H-LIN.	L-125 58H0000018	L-102 58H0000016	L-102 58H0000016	L-102 58H0000016	L-76 58H0000020	L-102 58H0000016	L-125 58H0000018	L-102 58H0000016
7	C410	C MYLAR	1.6KV 7500 CMYH3C752J	1.6KV 6200 CMYH3C622J	1.6KV 6200 CMYH3C622J	1.6KV 7500 CMYH3C752J	1.6KV 7200 CMYH3C722J	1.6KV 6000 CMYH3C602J	1.6KV 6900 CMYH3C692J	1.6KV 7500 CMYH3C752J
8	C409	C CERA	2KV 470 CCXB3D471K	2KV 470 CCXB3D471K	2KV 470 CCXB3D471K	2KV 470 CCXB3D471K	2KV 220 CCXB3D221K	2KV 470 CCXB3D471K	2KV 470 CCXB3D471K	2KV 470 CCXB3D471K
9	C411	C MYLAR	200V 0.51 CMYE2D514J	250V 0.68 J CMYT2E684J	200V 0.51 CMYE2D514J	200V 0.47 CMYE2D474J	200V 0.39 CMYE2D394J	200V 0.3 CMYE2D304J	200V 0.51 CMYE2D514J	200V 0.51 CMYE2D514J
10	R413	R C-FILM	1/4W 120K RD-4Z124J-	1/4W 68K RD-4Z683J	1/4W 82K RD-4Z823J	1/4W 68K RD-4Z683J	1/4W 82K RD-4Z823J	1/4W 68K RD-4Z683J	1/4W 68K RD-4Z683J	1/4W 68K RD-4Z683J
11	R415	R FUSIBLE	1W 1.2A(F) RF01Z129JA	1W 0.18(F) RF01Z188J-	1W 0.47(F) RF01Z478J-	1W 2.4A (F) RF01Z249JA	1W 0.47(F) RF01Z478J-	1W 1 (F) RF01Z109J-	1W 1.2A(F) RF01Z129JA	1W 2.7A(F) RF01Z279JA
12	R302	R C-FILM	1/6W 1.8K RD-AZ182J-	1/6W 2.2K RD-AZ222J	1/6W 1.8K RD-A7182J-	1/6W 2.2K RD-AZ222J	1/6W 2.2K RD-AZ222J	1/6W 2.7K RD-AZ272J	1/6W 2.2K RD-AZ272J	1/6W 2.7K RD-AZ272J
13	R901-3	R C-FILM	1/6W 3K RD-AZ302J-	1/6W 3K RD-AZ302J-	1/6W 3K RD-AZ302J-	1/6W 2K RD-AZ202J-	1/6W 2K RD-AZ202J-	1/6W 2K RD-AZ202J-	1/6W 2K RD-AZ202J-	1/6W 2K RD-AZ202J-
14	R904-6	R C-FILM	1/6W 2K RD-AZ202J-	1/6W 2K RD-AZ202J-	1/6W 2K RD-AZ202J-	1/6W 1.6K RD-AZ162J-	1/6W 1.6K RD-AZ162J-	1/6W 1.6K RD-AZ162J-	1/6W 1.6K RD-AZ162J-	1/6W 1.6K RD-AZ162J-
15	R807	R C-FILM	1/4W 2.4K RD-4Z242J-	1/4W 2.4K RD-4Z242J-	1/4W 2.4K RD-4Z242J-	1/4W 2.7K RD-4Z272J-	1/4W 2.7K RD-4Z272J-	1/4W 2.7K RD-4Z272J-	1/4W 2.7K RD-4Z272J-	1/4W 2.7K RD-4Z272J-
16	P401	CONN WAFER	YFW500-05 4859240020	YFW500-06 4859240120	YFW500-06 4859240120	YFW500-05 4859240020	YFW500-06 4859240120	YFW500-06 4859240120	YFW500-06 4859240120	YFW500-06 4859240120
17	P401A	CONN AS	—	35135/0620 +35179 +ULW = 350 4850706S20	35135/0620 +35179 +ULW = 350 4850706S20	—	ODY-2109 4850706057	—	ODY-2109 4850706057	ODY-2109 4850706057
18	ZZ131	COIL DEGAUSS	DC1450 58G0000084	DC1450 58G0000084	DC1450 58G0000084	DC2050 58G0000086	DC2050 58G0000086	DC2070 58G0000074	DC2070 58G0000074	DC2070 58G0000074
19	P801	POSISTOR	ECPCC 180M290 DEC180M290	ECPCC 180M290 DEC180M290	ECPCC 180M290 DEC180M290	ECPCC 180M290 DEC180M290	ECPCC 180M290 DEC180M290	ECPCC 140M290 DEC140M290	ECPCC 140M290 DEC140M290	ECPCC 140M290 DEC140M290
20	ZZ132	CRT GND AS	1401H-1015-1P 48519A4610	1401H-1015-1P 48519A4610	1401H-1015-1P 48519A4610	2001H-1015-1P 48519A5010	2001H-1015-1P 48519A5010	2101H-1015-1P 48519A5210	2101H-1015-1P 48519A5210	2101H-1015- 48519A5210
21	C910	C ELECTRO	—	—	—	—	—	250V RSS 33MF CEXF2E330V	—	—

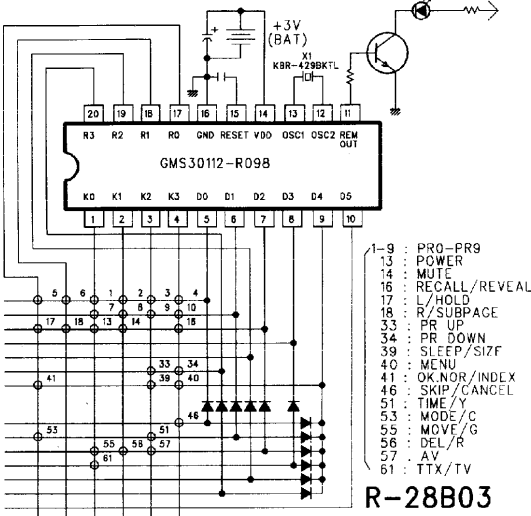
CRT Diagram



Tube Size Table

NO.	LOC.		14"			20"			21"	
1	CRT	ORION	PHILIPS	POLKOLOR	ORION	SAMSUNG	POLKOLOR	ORION	PHILIPS	POLKOLOR
		A34JLL90X	A34EAC01X	A34EFU13X	A48JLL90X	A48ECR11X	A48EEV33X	A51JSW90X	A51EAL55X	A51EER11X
2	SCT1	ISMM03S	ISMM03S	-	ISMM03S	-	-	ISMM03S	-	-
3	SCT2	-	-	ISHS09S	-	ISHS09S	ISHS09S	-	ISHS09S	ISHS09S
4	D/COIL	DC-1450	DC-1450	DC-1450	DC-2050	DC-2050	DC-2050	DC—2070	DC—2070	DC—2070
5	R801	ECPCC180M290	ECPCC180M29	ECPCC1BOM29O	ECPCC180M290	ECPCC180M290	ECPCC180M290	ECPCC140M290	ECPCC140M290	ECPCC140M290
6	LP04	-	MD-5	MD-5	-	-	MD-5	MD-5	-	-
7	LP03	MD-5	-	-	MD-5	-	-	-	MD-5	MD-5
8	L405	L-125	L-125	L-102	L-102	L-102	L-76	L-102	L-102	L-125
9	C409	2KV 470	2KV 470	2KV 470	2KV 470	2KV 1000	2KV 220	2KV 220	2KV 470	2KV 470
10	C410	1.6KV 7500	1.6KV 6200	1.6KV 6200	1.6KV 7500	1.6KV 8200	1.6KV 7200	1.6KV 6000	1.6KV 7500	1.6KV 6000
11	C411	200V 0.51	200V 0.51	250V 0.68	200V 0.47u	200V 0.51	200V 0.39u	200V 0.3u	200V 0.51	200V 0.47
12	R302	1/6w 1.8K	1/6w 1.6K	1/6w 2.2K	1/6w 2.2K	1/6w 2.2K	1/6w 2.2K	1/6w 2.7K	1/6w 2.7K	1/6w 2.2K
13	R413	1/4w 120K	1/4w 120K	1/4w 68K	1/4w 68K	1/4w 68K	1/4w 82K	1/4w 68K	1/4w 82K	1/4w 68K
14	R415	1W 1.2(F) A	1W 0.47(F)	1W 0.18(F)	1W 2.4(F) A	1W 1(F)	1W 0.47(F)	1W 1.2(F) A	2W 2.7(F) A	1W 1.2(F)
15	R807	1/4W 2.4K	1/4W 2.4K	1/4W 2.4K	1/4W 2.7K	1/4W 2.7K	1/4W 2.7K	1/4W 2.7K	1/4W 2.7K	1/4w 2.7K
16	R901-3	1/6W 3K	1/6W 3K	1/6W 3K	1/6W 2K	1/6W 2K	1/6W 2K	1/6W 2K	1/6W 2K	1/6W 2K
17	R904-6	1/6W 2K	1/6W 2K	1/6w 2K	1/6W 1.6K	1/6W 1.6K	1/6W 1.6K	1/6W 1.6K	1/6W 1.6K	1/6W 1.6K
18	P401	YFWS00-05	YFWS00-06	YFWS00-06	YFWS00-05	YFWS00-06	YFW500-06	YFWS00-06	YFW500-06	YFW500-06
		-	35135/0620+	35135/0620+						
19	P401A	-	35179+ULW =350	35179+ULW =350	-	ODY—2190	ODY—2190	-	ODY-2190	ODY-2190
20	ZZ132	1401H-101S-1P	1401H-1015-1P	1401H-1015-1P	2001H-1015—1P	2001H-1015-1P	2001H-1015-1P	2101H-1015-1P	2101H-1015-1P	2101H-1015-1P

Remote Control Diagram



Main Diagram

