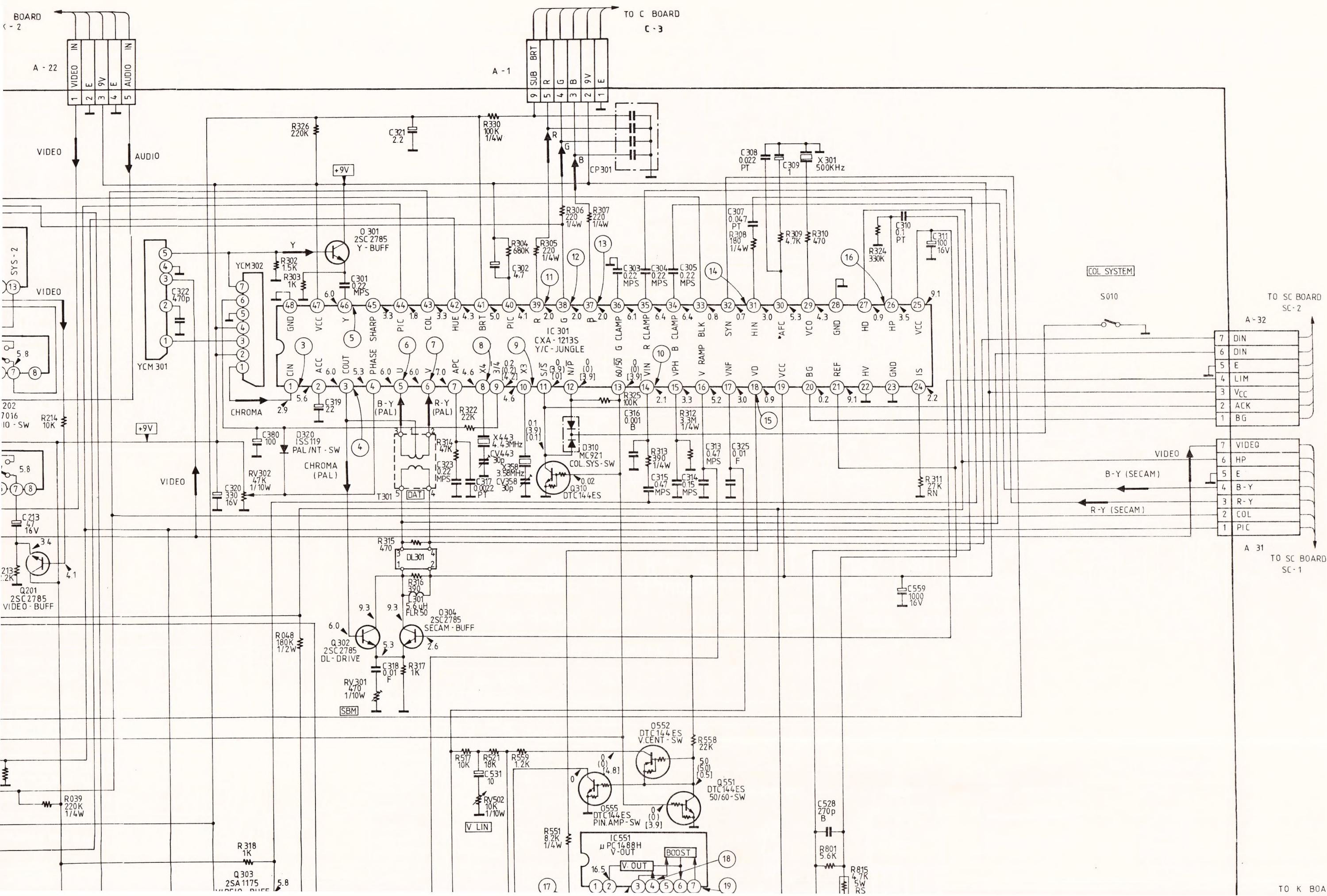
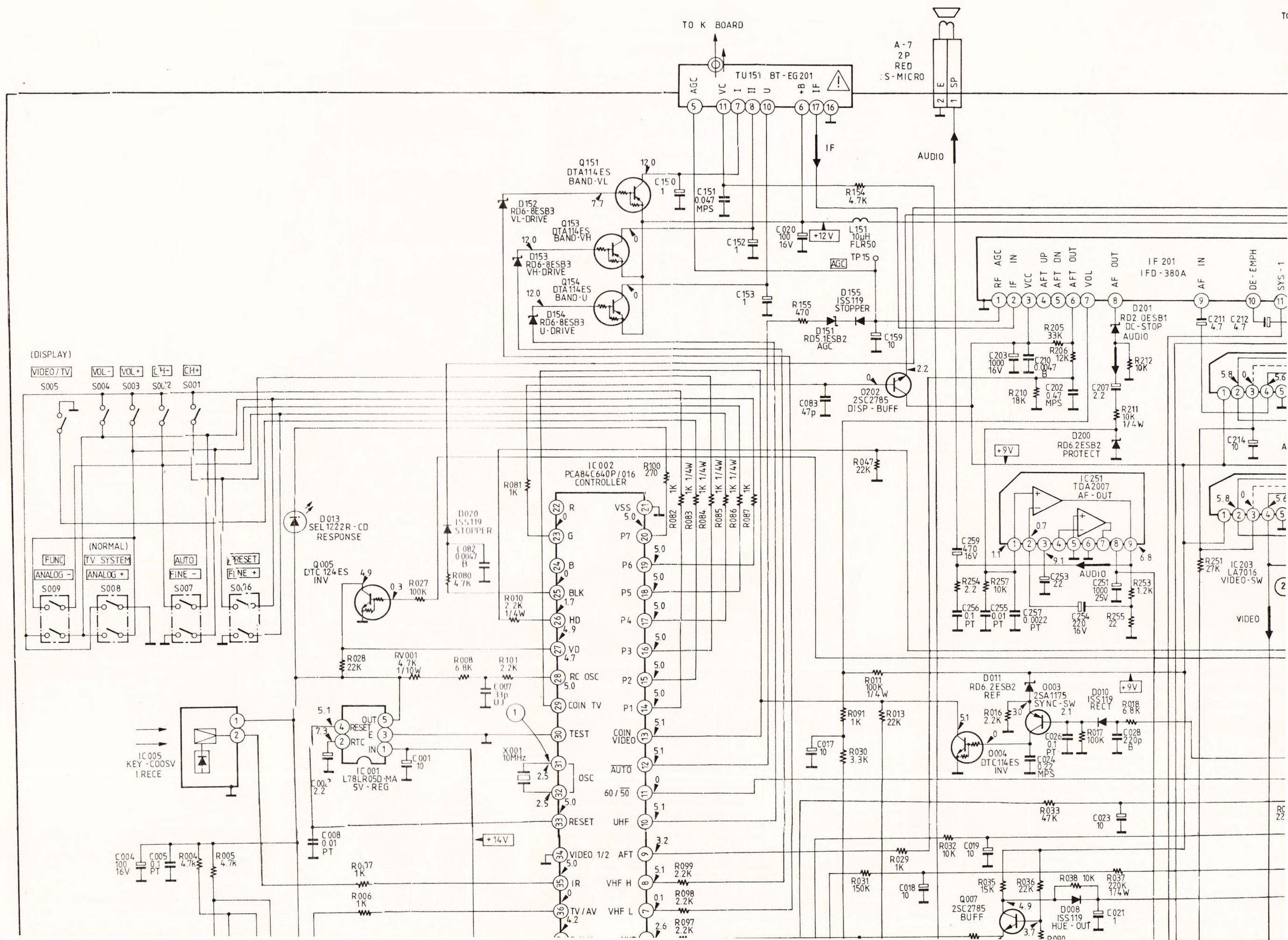


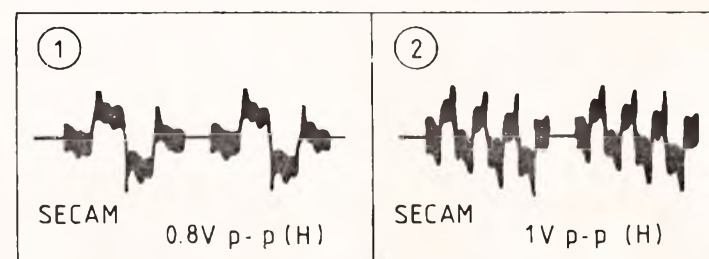
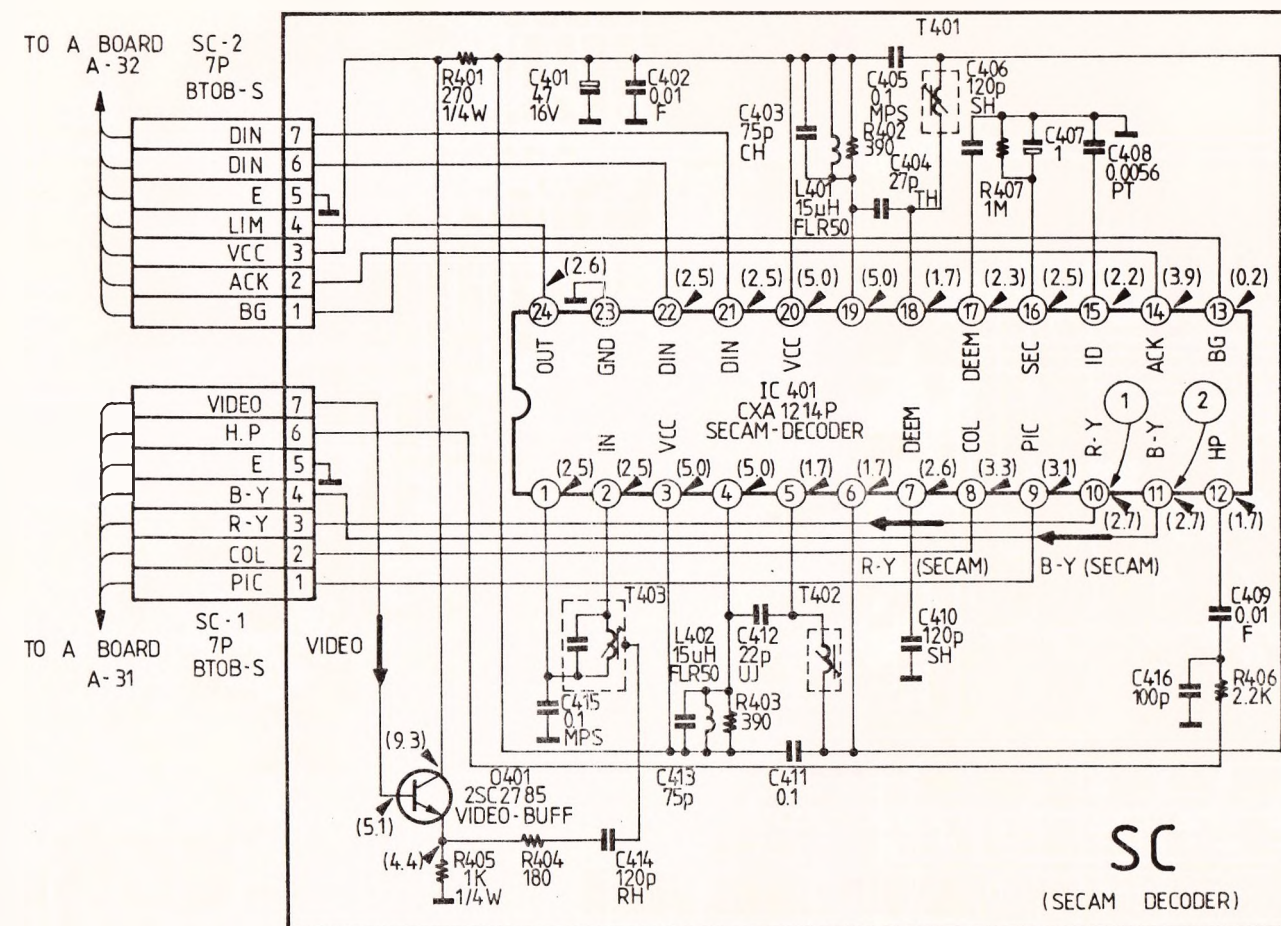
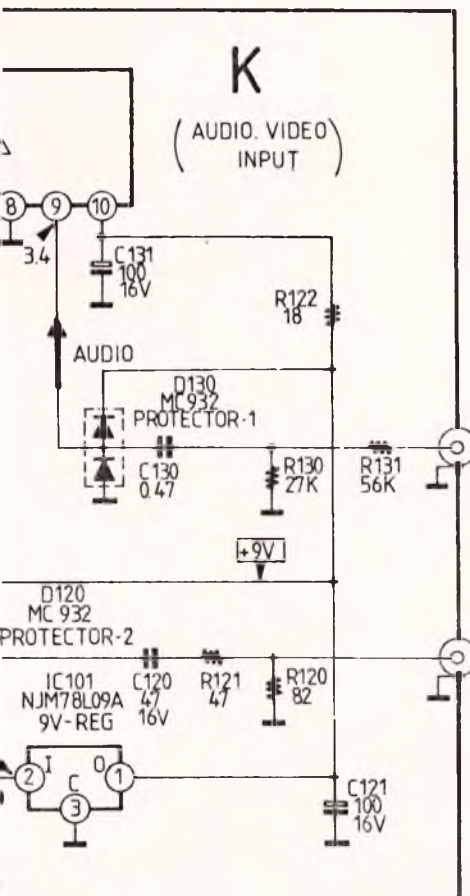


TRINITRON® COLOR TV
KV-2184MT / RM-687C





NOTES



DIODES

	EQUIVALENTS
W; DRIVER A; $P_{tot} = 0,3 \text{ W}$	
SW; DRIVER ; $P_{tot} = 0,3 \text{ W}$	
; DRIVER $P_{tot} = 0,3 \text{ W}$ 114 ES	
SW; DRIVER $P_{tot} = 0,3 \text{ W}$	
A; $P_{tot} = 0,3 \text{ W}$	BC556; BC446; BC256

DIODES

TYPE	SHORT DESCRIPTION ; DATA	EQUIVALENTS
1SS119	FAST SW DIODE ; Si ; $U_{RV} = 100 \text{ V}$; $I_o = 0,2 \text{ A}$; $I_{FRM} = 0,45 \text{ A}$; $t_{rr} = 4 \text{ ns}$	1N4148 ; BAY61
RD6.8ESB3	ZENER DIODE 6V8	
RD5.1ESB2	ZENER DIODE 5V1	
RD2.0ESB1	ZENER DIODE 2V	
RD6.2ESB2	ZENER DIODE 6V2	
RGP10G	GEN. PURP. RECT ; FAST REC ; Si ; $U_{RV} = 600 \text{ V}$; $I_o = 1 \text{ A}$ $t_{rr} = 200 \text{ ns}$	
RGP157- 6040G23	GEN. PURP. RECT ; FAST REC. Si ; $U_{RV} = 600 \text{ V}$; $I_o = 3 \text{ A}$ $t_{rr} = 250 \text{ ns}$	
GP08D	GEN. PURP. RECT ; Si ; $U_{RV} = 1000 \text{ V}$; $I_o = 3 \text{ A}$	

$P_{tot}=0,3\text{ W}$	BC546; BC182; BC174
$=800\text{ V}; I_c=2\text{ A}$ $00-200) h_{FE}$	BF459; BF471 BF417
$=5\text{ V}; I_c=0,1\text{ A};$	BF459
35 W	BD243C
60 W	S2055AF; 8U508D (PHILIPS)

RZM-V1		
FRC06-155	GEN. PURP. RECT; Si; $U_{RV}=1000\text{ V}$ $I_o=2,5\text{ A}$ (25°C Lead Temp.)	
ERD28-08S	Sw; FAST REC. B_{st} DAMPER; BWANKING; Si; $U_{RV}=1400\text{ V}$ $I_o=2\text{ A}$; $t_{rr}=500\text{ ns}$	
RD13-ESB1	ZENER DIODE 13V	
ES1F-V1	GEN. PURP. RECT. EAST RECOVERY HV; Si; $U_{RV}=1500\text{ V}$ $I_o=1\text{ A}$; $t_{rr}=250\text{ ns}$	
MC932		
MC921	COMMON CATHODE; DUAW DIODE; H_i ; SPEED; SW; Si $U_{RV}=75\text{ V}$; $I_o=0,2\text{ A}$ $I_{FRM}=0,3\text{ A}$	

ABBREVIATIONS : Si-silicon; Sw-switch; P_{tot} - total power
dissipation; Uni-general purpose;
Vid-video output stage; L-power; NF-E-audio freq.
output; D_i -damper diode; TV-HA-horizontal deflection

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

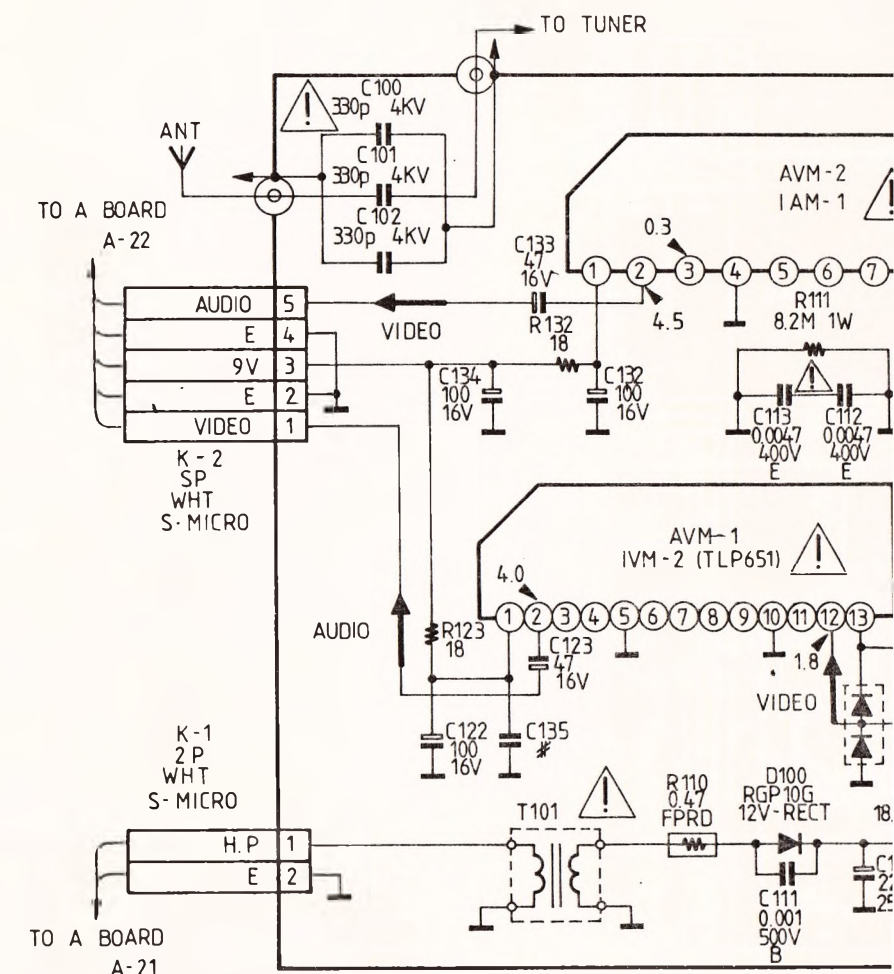
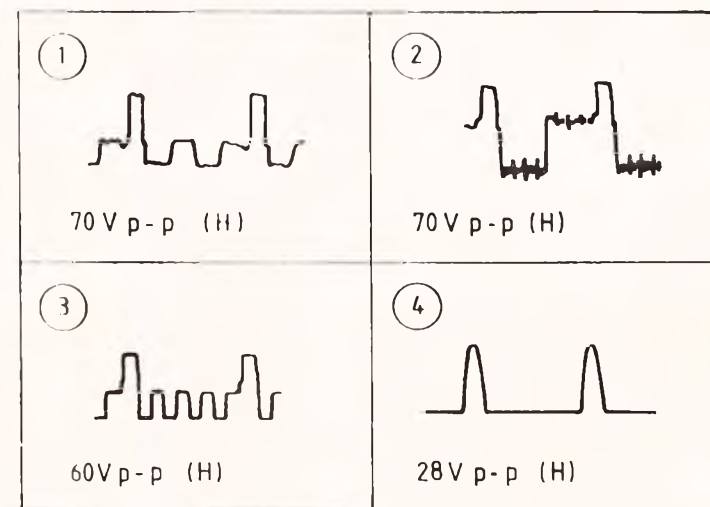
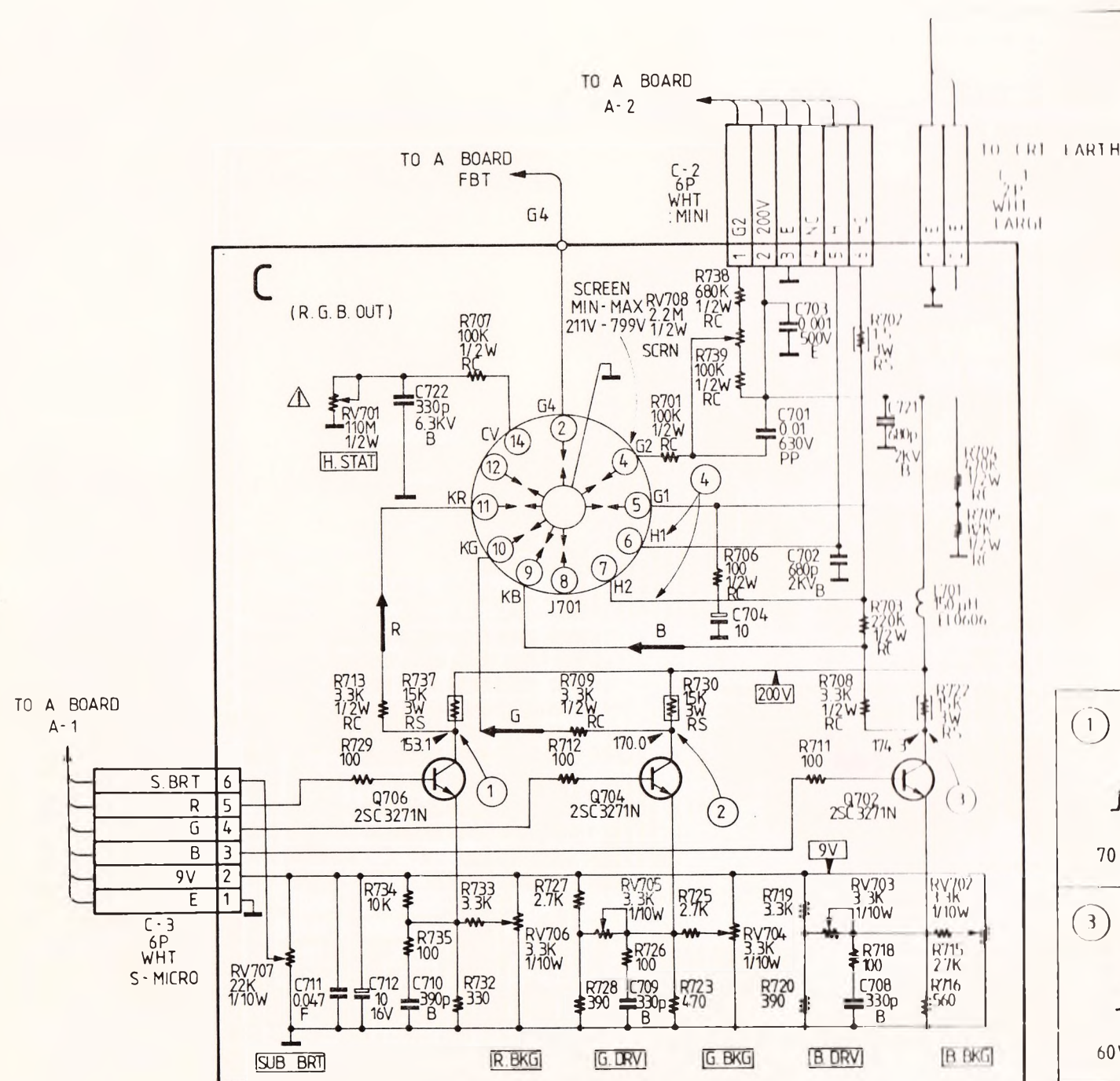
Reference information

RESISTOR : RN METAL FILM
: RC SOLID
: FPRD NONFLAMMABLE CARBON
: FUSE NONFLAMMABLE FUSIBLE
: RS NONFLAMMABLE WIREWOUND
: RB NONFLAMMABLE CEMENT
COIL : LF-8L MICRO INDUCTOR
CAPACITOR : TA TANTALUM
: PS STYROL
: PP POLYPROPYLENE
: PT MYLAR
: MPS METALIZED POLYESTER
: MPP METALIZED POLYPROPYLENE
: ALB BIPOLAR
: ALT HIGH TEMPERATURE
: ALR HIGH RIPPLE

WARNING !!

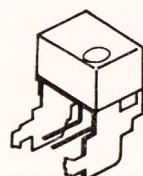
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!
COMPONENTS IDENTIFIED BY SHADING AND  MARK ON THE SCHEMATIC DIAGRAMS ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THE SERVICE MANUAL.

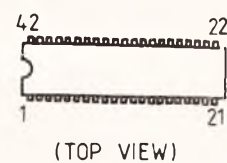


SEMICONDUCTORS

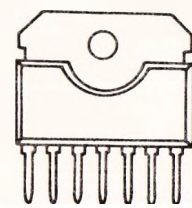
BX-1398



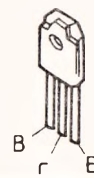
PCA84C640P / 016



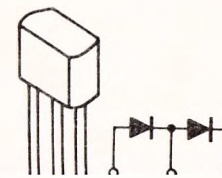
μPC1488 H



2SD1878-CA

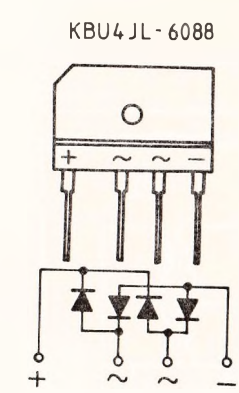
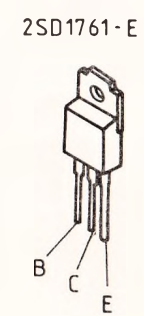
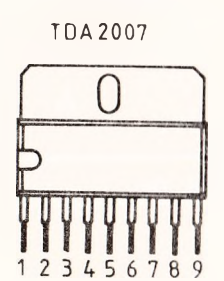
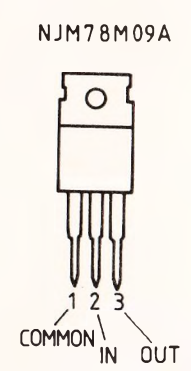
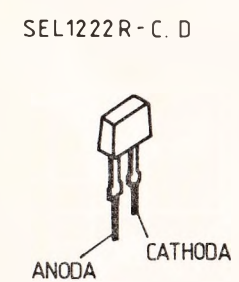
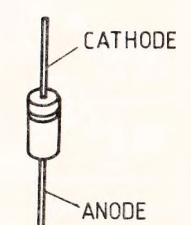
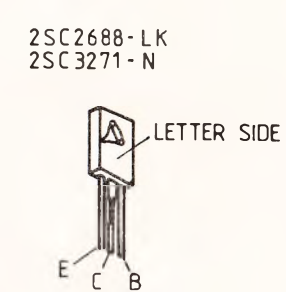
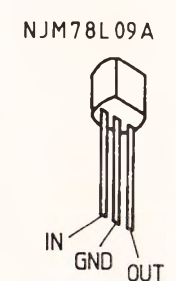
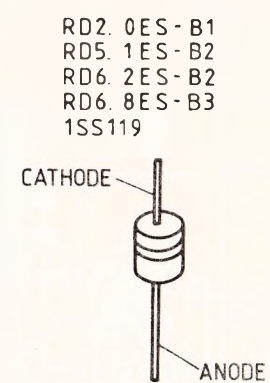
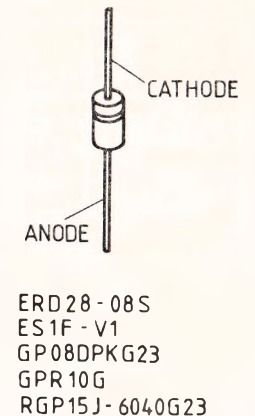
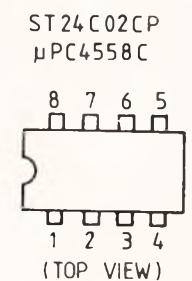
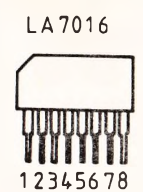
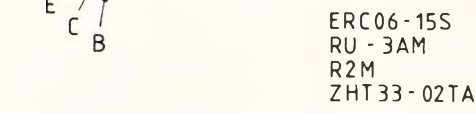
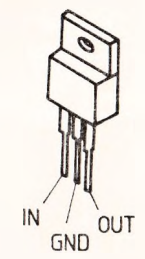
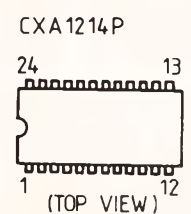
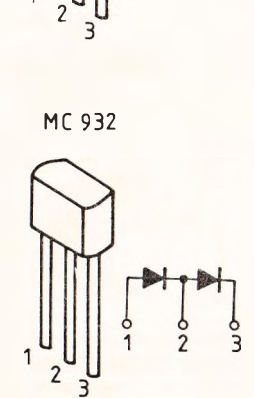
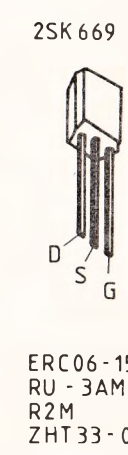
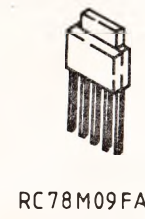
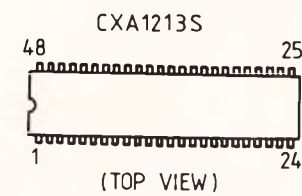


MC921



LIST OF TRANSISTORS AND

TYPE	SHORT DESCRIPTION; DA
DTA114ES	PNP-Si; DIGITAL W/BASE; RESISTOR (10 k); $U_{CB0} = 50V$; $U_{CE0} = 50V$; $U_{EB0} = 10V$; $I_C = 0$ $h_{FE} = 30$; $f_T = 250MHz$
DTC124ES	NPN-Si; DIGITAL W/BASE RESISTOR (22 k) $U_{CB0} = 50V$; $U_{CE0} = 50V$; $U_{EB0} = 10V$; $I_C = 0.1$ $f_T = 250$; $h_{FE} = 50(min)$
DTC114ES	NPN-Si; DIGITAL W/BASE, RESISTOR (10 k) $U_{CB0} = 50V$; $U_{CE0} = 50V$; $U_{EB0} = 10V$; $I_C = 0.1$ $h_{FE} = 30(min.)$; $f_T = 250MHz$ compl. to DT
DTC144ES	NPN-Si; DIGITAL w BASE; RESISTOR (47 k) $U_{CB0} = 50V$; $U_{CE0} = 50V$; $U_{EB0} = 10V$; $I_C = 0.1$ $f_T = 250$; $h_{FE} = 65(min.)$
2SA1175	PNP-Si; Uni; $U_{CB0} = 60V$; $U_{EB0} = 5V$; $I_C =$



2SC2785	NPN-Si ; Uni ; $U_{CB0} = 60V$; $U_{CB0} = 5V$; $I_C = 0$; $h_{FE} = 200$; $f_T = 250MHz$
2SC2688	NPN-Si ; Vid-L ; $U_{CB0} = 300V$; $U_{EB0} = 5V$; $U_{CB0} = 300V$; $P_{tot} = 10W$; $f_T = 80MHz$; K-(160-250) h_{FE} ; L-
2SC3271N	NPN-Si ; Vid ; $U_{CB0} = 300V$; $U_{CE0} = 300V$; $U_{CB0} = 300V$; $P_{tot} = 5W$; $h_{FE} = 56 \div 120$; $f_T = 80MHz$
2SD1761E	NPN-Si ; NF-E ; $U_{CB0} = 80V$; $I_C = 3A$; P_{to}
2SD1878	NPN-S ; D_i ; TV-HA ; 1500V/800V ; 5A
2SK669	

Note:

- All capacitors are in μF unless otherwise noted. 50WV or less are not indicated except for electrolytics.
 - p: μF
 - Indication of resistance, which does not have one for rating electrical power is as follows.
- Pitch: 5mm, Rating electrical power: 1/4W
- $k\Omega$: 1000 Ω , $M\Omega$: 100 $k\Omega$
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - : nonflammable resistor.
 - : nonflammable resistor.
 - : panel designation
 - : adjustment for repair.
 - : B+ bus.
 - : signal path
 - Voltages are dc with respect to ground unless otherwise noted.
 - Readings are taken with a 10M Ω digital multimeter.
 - no mark: with PAL color-bar signal received.
 - () : with SECAM color-bar signal received.
 - < > : with NTSC (4.43) color-bar signal received.