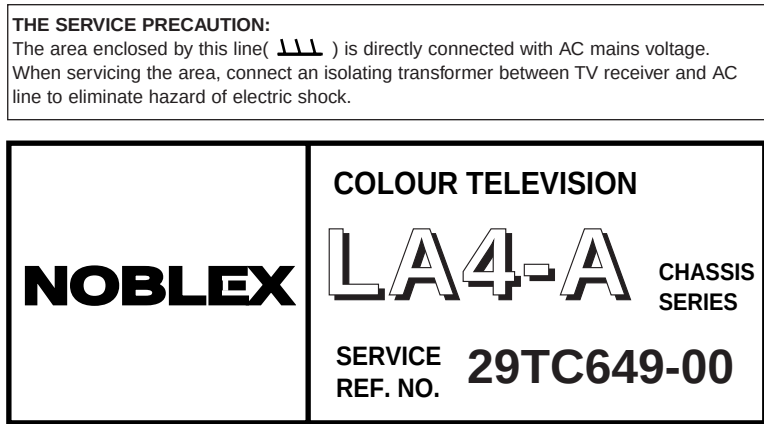




CIRCUIT DIAGRAM NOTICE:

1. All resistance value are in ohms, K=1,000, M=1,000,000.
2. All resistance rated wattages are 1/6W unless otherwise noted.
3. Excepting electrolytic capacitors, all capacitance values of less than 1 μ F are expressed in pF and more than 1 μ F are expressed in μ F.
4. All capacitance rated voltages are 50V unless otherwise noted.
5. All inductance values are in μ H.
6. Voltage readings take with a "VTVM" are from point indicated chassis ground. Voltage readings taken by using PAL colour bar signal are with a controls at normal position. Some voltage may vary with signal strength.
7. Waveform were taken with PAL colour bar and controls adjusted for normal picture. Waveforms were taken by using a wide band oscilloscope and a low capacity probe.
8. This circuit diagram covers a basic or representative chassis only. There may be some components or partial circuit differences between the actual chassis and the circuit diagram.
9. Parts specified with "X" are not installed in this model.
10. Parts specified with "J" are just jumper wires.

Capacitance (Example)

1000 C M 2000 D

- Characteristic
- Capacitance value (220pF)
- Allowable error ($\pm 20\%$)
- Kind (Ceramic)
- Rated voltage (1,000V)

J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$

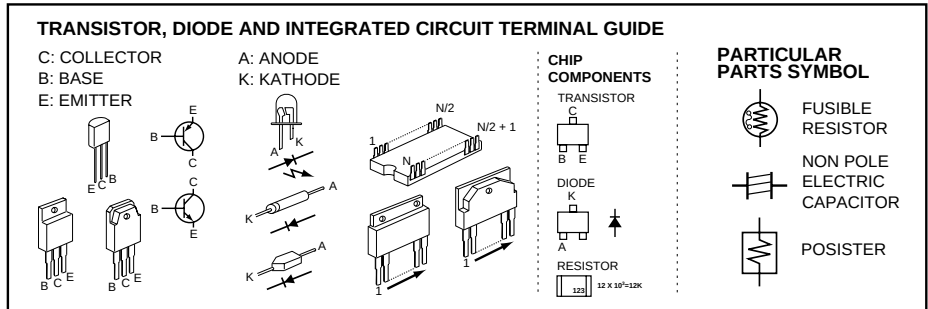
T, A, U, D: Electrolytic
C, K, B: Ceramic
F: Mylar film
M, N: Polypropylene
Z: Metalized paper

Resistance (Example)

1/2 N J 1,2

- Resistance value (1.2 Ω)
- Allowable error ($\pm 5\%$)
- Kind (M. carbon)
- Rated wattage (1/2W)

D: Carbon
N: Metalized carbon
S: Oxid metalized
W: Wire wound
C: Solid



	2SA608	2SA564A	2SA1015	2SA933	2SA933S	KSAT733C
Z	E,F	Q,R	O,Y,G	Q,R	Q,R	
Y	E,F	Q,R	O,Y,G	Q,R		
W	F	R	Y,G	R		
V	E,F	Q,R	O,Y,G	Q,R		Y,G
U	F	R	Y,G	R		G

(DIODE)						
DIODE						
M	15S176, 15S133, GMA01					
P	15S1553, 152076A, 152471, 1N4148					
N	15S1555, 152473, 152076, DS442, 1N4148					
(NPN, TR)						
	25C536	25C945A	25C1815	25C1740	25C1740S	K5C945C
A	E.F.G	P.Q.R	O.Y.G	Q.R.S	Q.R.S	
B	E.F.G	P.Q.R	O.Y.G	Q.R.S		
D	F.G	P.Q	Y.G	Q.R.S		
F	F.G	P	G	R.S		
H	F.G	P.Q	Y.G	Q.R.S		Y.G
I	E.F.G	P.Q.R	O.Y.G	Q.R.S		Y.G
G	F.G	P	G	R.S		G

Waveforms & Voltages

(On the Main Board)

IC201																	
Pin-1	0V	2	4.6V	3	0.8V	4	4.7V	5	2.7V	6	1.5V	7	1.5V	8	4.9V	9	2.4V
10	4.6V	11	0.8V	12	2.7V	13	0V	14	4.7V	15	6.2V	16	6.1V	17	4.8V	18	2.6V
19	2.4V	20	2.7V	21	4.7V	22	9.5V	23	2.6V	24	2.9V	25	5.8V	26	4.8V	27	1.0V
28	2.6V	29	2.1V	30	2.6V	31	2.5V	32	3.2V	33	3.8V	34	1.6V	35	3.0V	36	2.1V
37	0V	38	1.9V	39	3.1V	40	3.2V	41	1.4V	42	9.2V	43	2.2V	44	2.2V	45	3.4V
46	2.8V	47	2.4V	48	2.4V	49	4.0V	50	4.0V	51	3.1V	52	5.8V				

IC191				IC611			
Pin-1	9.2V	2	0V	3	5.0V	Pin-1	2.3V
						2	0V
						3	322V
						4	18.5V
						5	0V

IC501							
Pin-1	0V	2	15.5V	3	26.5V	4	4.6V
						5	4.6V
						6	25.6V
						7	3.0V

IC001																	
Pin-1	7.6V	2	0V	3	7.5V	4	16.0V	5	7.9V	6	10.9V	7	1.5V	8	1.4V	9	0V
10	1.4V																

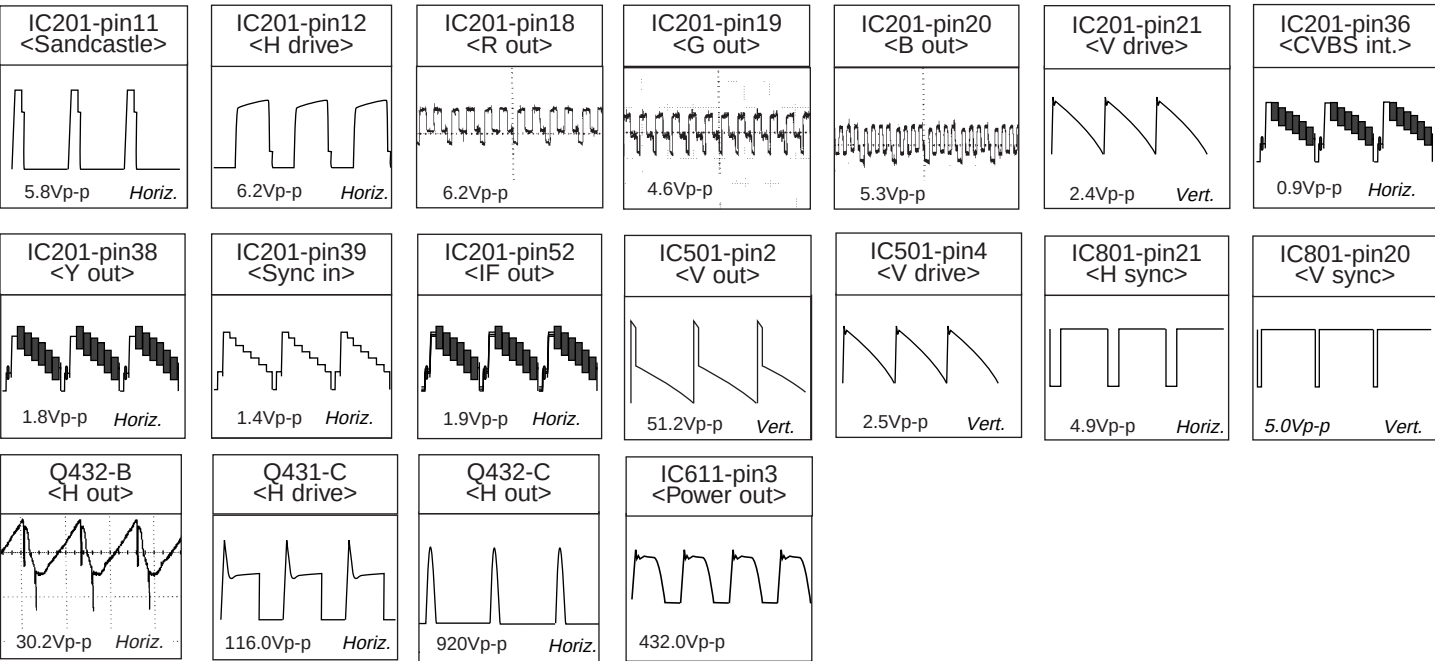
IC802									
Pin-1	0V	2	0V	3	0V	4	0V	5	5.0V
								6	5.0V
								7	0V
								8	5.0V

IC801																	
Pin-1	4.9V	2	4.9V	3	4.9V	4	0V	5	0 V	6	0V	7	5.0V	8	4.6V	9	0V
10	1.3V	11	2.3V	12	5V	13	0V	14	2.5V	15	1.4V	16	0.1V	17	4.9V	18	2.9V
19	2.7V	20	4.8V	21	4.0V	22	0V	23	0V	24	0V	25	0V	26	0V	27	4.9V
28	4.9V	29	4.6V	30	4.5V	31	4.8V	32	5.0V	33	5.0V	34	4.4V	35	0V	36	0V
37	4.9V	38	0V	39	0V	40	0V	41	0V	42	0V						

IC3401																	
Pin-1	9.4V	2	4.7V	3	4.7V	4	4.7V	5	4.7 V	6	4.7V	7	4.6V	8	4.7V	9	0V
10	4.2V	11	4.6V	12	4.5V	13	5.2V	14	4.9V	15	1.3V	16	5.2V	17	4.5V	18	4.4V
19	2.7V	20	4.7V	21	0V	22	4.1V	23	4.9V	24	0V	25	4.8V	26	4.8V	27	4.7V
28	4.7V	29	4.7V	30	4.7V	31	4.7V	32	4.7V	33	4.8V	34	4.8V	35	4.7V	36	4.6V
37	4.7V	38	4.8V	39	4.8V	40	0V	41	4.7V	42	4.5V						

IC631				IC651			
Pin-1	130.1V	2	10.1V	3	0V	Pin-1	11.7V
						2	0V
						3	5.0V

Q001 B 0V C 8.1V E 0V	Q1021 B 4.7V C 9.2V E 4.0V	Q111 B 1.1V C 0.4V E 6.2V	Q140 B 5.8V C 0V E 6.4V	Q141 B 6.0V C 0V E 6.6V	Q171 B 3.7V C 9.2V E 2.8V	Q212 B 0.6V C 0V E 0V	Q213 B 0V C 4.7V E 0V	Q261 B 1.8V C 0V E 2.5V	Q431 B 0.4V C 12.5V E 0V	Q432 B 3.4V C132.2V E 3.5V	Q576 B 0V C 5V E 0V	Q611 B 10.9V C 11.5V E 11.5V
Q661 B 9.9V C 10V E 9.3V	Q681 B 0V C 9.9V E 0V	Q682 B 0V C 5.3V E 0V	Q684 B 0.7V C 0V E 0V	Q861 B 4.4V C 4.9V E 5.0V	Q871 B -0.1V C 4.7V E 0V	Q881 B -6V C 4.0V E 0V	Q886 B 0.7V C 0V E 0V	Q887 B 4.9V C -1V E 5V				



(On the CRT Board)

Q701 B 2.2V C 113.3V E 2.0V	Q711 B 2.5V C 112.2V E 2.0V	Q721 B 2.3V C 117.3 E 1.9V	Q741 B 1.4V C 0V E 0V	Q751 B 9.2V C 0V E 9.0V
Q701-C <B-out>	Q701-B <B drive>	Q721-C <G-out>	Q721-B <G drive>	Q711-C <R-out>
113.6Vp-p	5.2Vp-p	118.0Vp-p	4.4Vp-p	142.0Vp-p
				5.5Vp-p

CRT BOARD (Component Location)

