

VIDEO DRIVER  $\pm 15V$  POWER SUPPLY

Q-9 40409

Q-10 40410

IC-11 SG4501

C-30 .01 CER.

C-31 .01 CER

C-32 6.8 $\mu$  35V TANT

C-33 6.8 $\mu$  35V TANT

R-62 DALE

R-63 DALE

R-64 75 $\mu$

R-65 75 $\mu$

CR-

C-34 6.8 $\mu$  35VOL TANT

C-35 ? $\mu$  OVER 300V CER.

C-29 .01 $\mu$  50V CER

R-66 20K TRIM

(GRID-01)

R-67 4.7K

C-36 .01 $\mu$  (1KV) DISC.

C-37 " "

C-38 " "

C-39 " "

CONNECTIONS

CRT	O	O	O	O	O	O	O	O	O	O	O	CATHODE
	GND	GRID 1	GRID 2									
	FIL (GND)	FIL (HOR)										

VIDEO IN	O GND
	O VIDEO IN

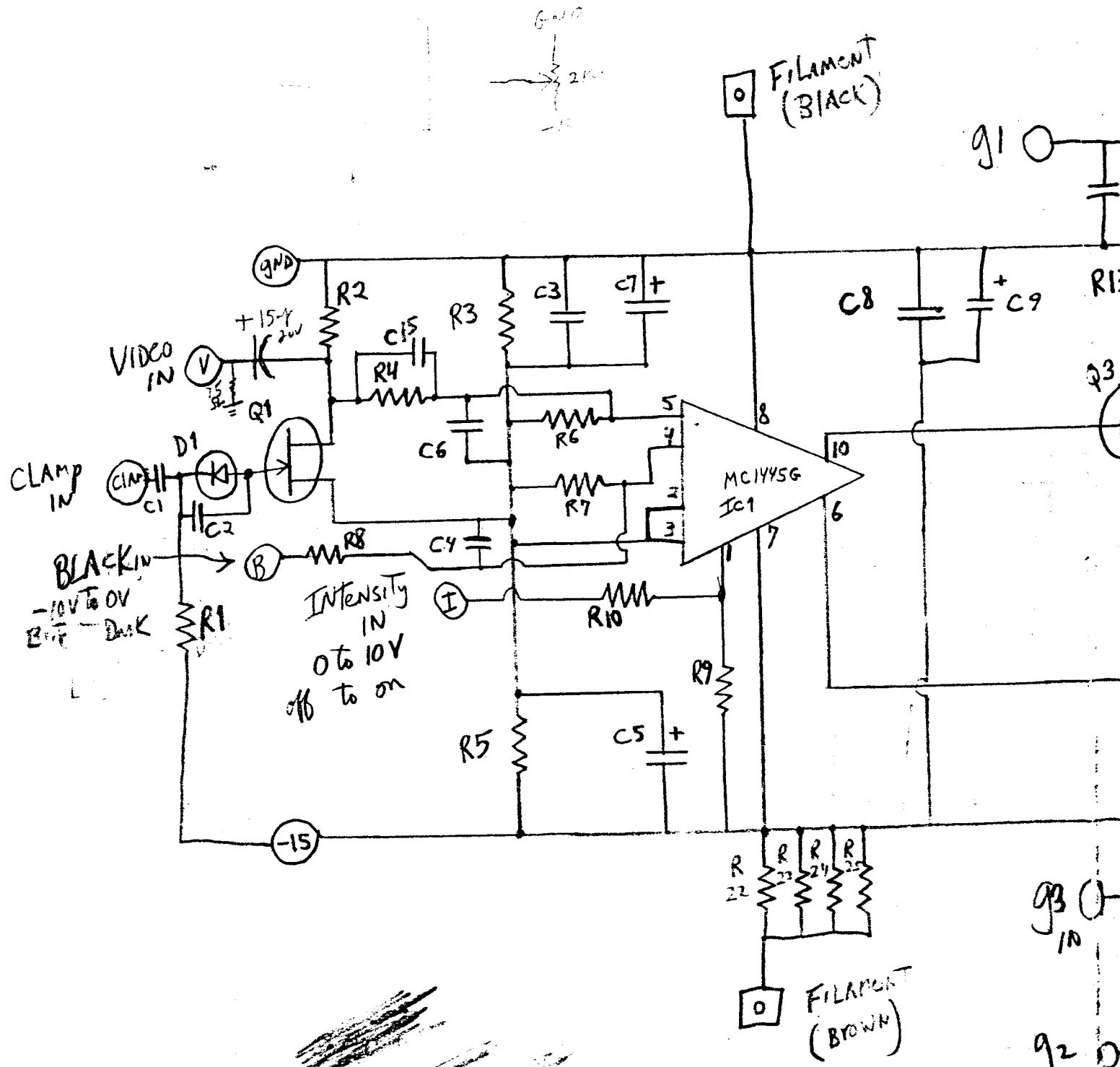
DCU	O	O	O	H	W	I
	GND	BLANK				

EDGE

BLANK

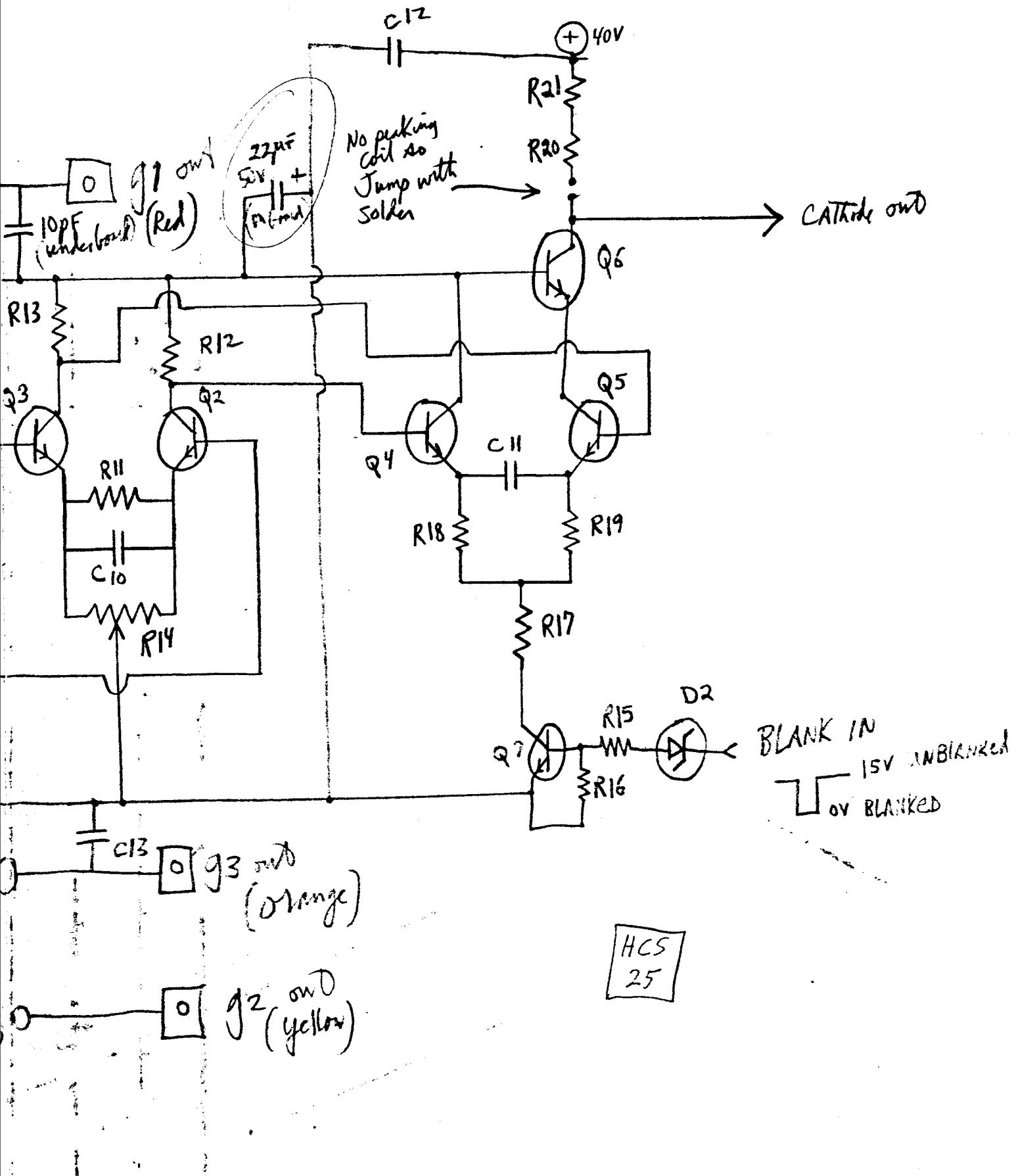
POWER SUPPLY	O	O	O	O	O	O
	-28	-28	-28	-28	-28	+300
	+28	+28	+28	+28	+28	6.3V
	+45	+45	+45	+45	+45	OVER BRIGHTNESS BLANKING

VIDEO



# CRT DRIVER

PC 119



PC 119 Parts List - Video CRT Driver

Transistors

Q1 - 2N4091  
Q2 - 2N5770, or MPS 6543, Hep56  
Q3 - or Hep 720  
Q4 - strap pairs together  
Q5 - for thermal contact  
Q6 - 2N2219A  
Q7 - MPS 5172

Integrated Circuits

IC1 - MC 1445 G (or MC1545G is OK but  
expensive...) Use Heat SINK

## Parts List

PC 119

Video CRT Driver \*

D <sub>1</sub>	IN 914
D <sub>2</sub>	IN 5248 (18V Zener)
→ Q <sub>1</sub>	2N4091
Q <sub>2</sub>	2N5770
→ Q <sub>3</sub>	MPS 6543, HEP 56,
Q <sub>4</sub>	Strap these together
Q <sub>5</sub>	HEP 720 Transistor
→ Q <sub>6</sub>	2N2219A
→ Q <sub>7</sub>	MPS 5172 transistors
- R <sub>1</sub>	47K — all 1/4 watt
- R <sub>2</sub>	75Ω S/P
- R <sub>3</sub>	270Ω
- R <sub>4</sub>	27K
- R <sub>5</sub>	180Ω
- R <sub>6</sub>	1K
- R <sub>7</sub>	1K
- R <sub>8</sub>	470K — use 2-1 meg in parallel if you don't have 470K
- R <sub>9</sub>	3.3K (3.6K is not as good)
- R <sub>10</sub>	4.7K (use 6.8K if R <sub>9</sub> =3.6K)
- R <sub>11</sub>	51Ω
- R <sub>12</sub>	470Ω
- R <sub>13</sub>	470Ω
R <sub>14</sub>	2K pot
- R <sub>15</sub>	1K
- R <sub>16</sub>	1K
→ R <sub>17</sub>	180Ω
- R <sub>18</sub>	51Ω
- R <sub>19</sub>	51Ω
- R <sub>20</sub>	510Ω
- R <sub>21</sub>	510Ω
R <sub>22</sub> 23	Use 3-120Ω (R <sub>22,23,24</sub> )
24	or 4-150Ω (R <sub>22,23,24,25</sub> )
25	(to equal 40Ω)

IC <sub>1</sub>	MC1445G (1445G is OK also) but expensive
Heatsink IC <sub>1</sub>	
- C <sub>1</sub>	.001
- C <sub>2</sub>	10 pF
- C <sub>3</sub>	.1 ceramic
- C <sub>4</sub>	33 pF
- C <sub>5</sub>	15μF/20V
- C <sub>6</sub>	33 pF
- C <sub>7</sub>	15μF/20V
- C <sub>8</sub>	.1 ceramic
- C <sub>9</sub>	15μF/20V
- C <sub>10</sub>	100 pF*
- C <sub>11</sub>	100 pF*
- C <sub>12</sub>	.1 μF ceramic
- C <sub>13</sub>	.1 μF ceramic
C <sub>14</sub>	15μF/20V
- C <sub>15</sub>	gimmick * 0.1 pF

\* These parts are fine for NON-30 MHz use  
for broadcast use; C<sub>10</sub>, C<sub>11</sub>  
and C<sub>15</sub> are critical and need adjustment  
for each board

