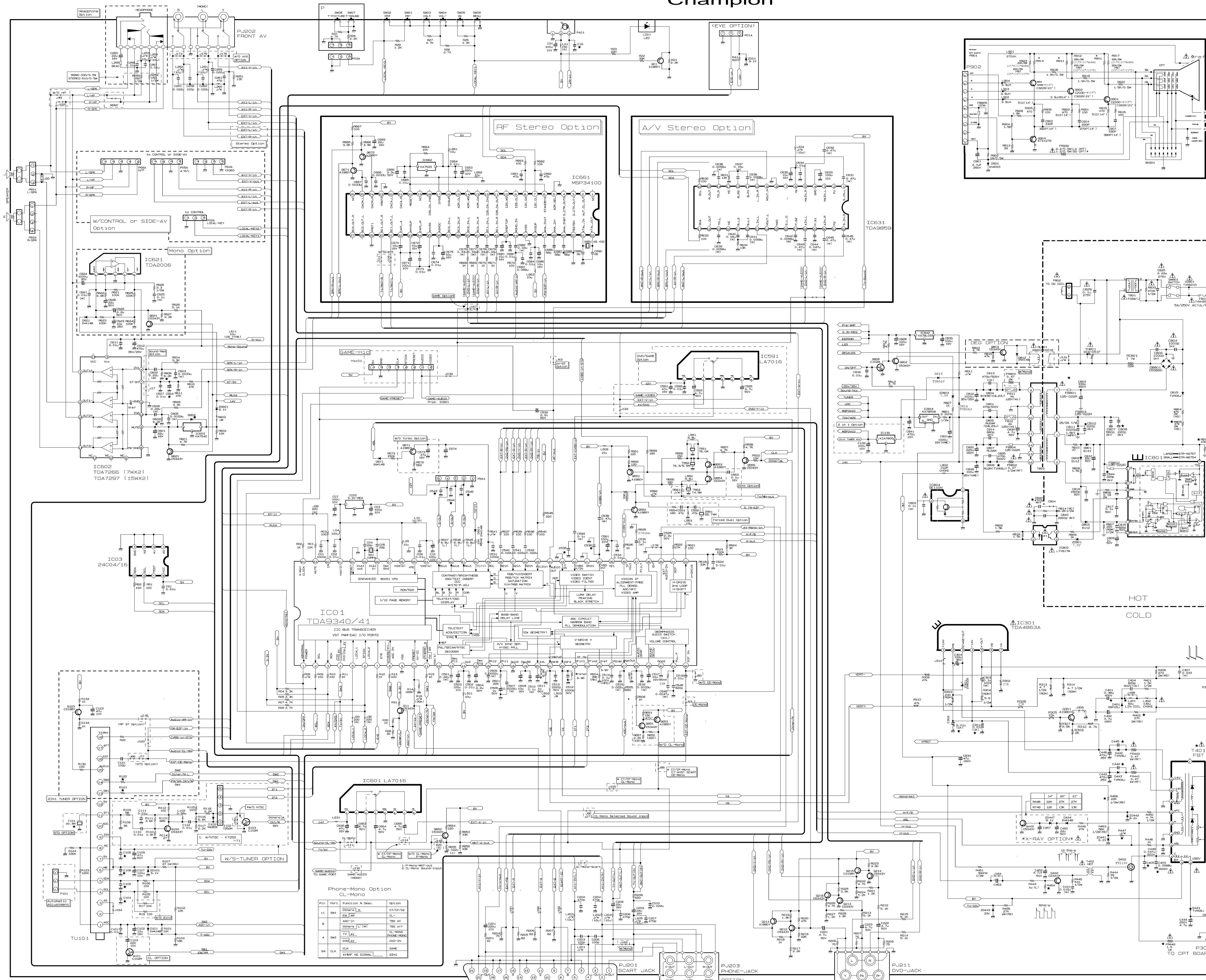


Circuit Diagram of MC 019D (UOC FIGHTER)

Champion



NOTICE

Since this is basic circuit diagram, the value of components and some partial connection are subject to be changed for improvement without notice.

The components marked Δ reference to IEC code lines and are essential for safe operation of the TV receiver. While those marked Δ are required for correct operation, use specified parts only when replacing.

Value of resistor, capacitor and inductor

Resistances are shown in Ohm, $\times 10^3$: 1K, 10K, 100K, 1M.

Unless otherwise noted in schematic, all inductor values less than 1 are expressed in mH and the values more than 1 in μ H.

Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μ H and the values less than 1 in millihenry.

Observation of voltages and waveforms

- Voltages read with VTVM from point to chassis ground.
- Wave voltage is 200V/20K with signal pattern in colour.
- The schematic shown is representative only.
- All waveforms are taken using a wide band oscilloscope and a 10 μ capacitor probe.
- Check FINE TUNING, AGC, CONTRAST, BRIGHTNESS and COLOUR controls for best picture. Make sure that COLOUR and BRIGHTNESS are in auto-point and CONTRAST is in 75%.
- Waveforms are taken using a standard colour signal.

(SYSTEM OPTION)

1 RF STEREO

1	3.2V	1	4V	1	0V	1	14V
2	2.7V	2	0V	2	0V	2	19.5V
3	4.2V	3	4V	3	17.5V	3	14.3V
4	0V	4	0V	4	1.4V	4	1.4V
5	3.2V	5	4V	5	NC	5	0.4V
6	3.2V	6	4V	6	NC	6	0.9V
7	Very low	7	4V	7	2.45V	7	1V
8	0V	8	0V	8	0V	8	0V
9	0V	9	4V	9	0V	9	NC
10	0V	10	4V	10	NC	10	NC
11	3.2V	11	4V	11	NC	11	NC
12	0V	12	4V	12	1.4V	12	1.4V
13	2.8V	13	0V	13	17.5V	13	17.5V
14	0V	14	4V	14	9.2V	14	9.2V
15	0V	15	4V	15	9.2V	15	9.2V
16	2.8V	16	2.8V				
17	2.8V	17	4V				
18	0V	18	4V				
19	4V	19	4V				
20	2.8V	20	0V				
21	2.4V	21	4V				
22	1.85V	22	4V				
23	1.85V	23	4V				
24	1.85V	24	4V				
25	3.86V	25	0V				
26	3.2V	26	4V				
27	2.25V	27	4V				
28	3.2V	28	4V				
29	2.25V	29	4V				
30	0V	30	4V				
31	2.25V	31	0V				
32	0V	32	4V				
33	0.4V						
34	0V						
35	2.52V						
36	2.47V						
37	3.16V						
38	0V						
39	3.87V						
40	0V						
41	0V						
42	3.3V						
43	0V						
44	0V						
45	0V						
46	2.54V						
47	2.54V						
48	2.54V						
49	2.28V						
50	0.94V						
51	2.28V						
52	2.85V						
53	2.28V						
54	2.88V						
55	0V						
56	1.47V						
57	0V						
58	1.47V						
59	1.55V						
60	0V						
61	3.28V						
62	0V						
63	0V						
64	3.24V						

Note: All readings on colour bar pattern.

DEFLECTION CHANGES

LOCATION	21" Normal	21" Flat	20" Normal	15" Flat	14" Normal
R302	20K Ω H	27K Ω H	20K Ω H	22K Ω H	15K Ω H
F308	20K Ω H	27K Ω H	20K Ω H	22K Ω H	15K Ω H
C401	334K Ω 0V	304K Ω 0V	394K Ω 0V	224K Ω 0V	624K Ω 0V
C405	680PF/2KV	68PF/2KV	220PF/2KV	680PF/2KV	470PF/2KV
C408	680K Ω 0V	620K Ω 0V	720K Ω 0V	480K Ω 0V	620K Ω 0V
T401	6174V-6002K	6174K-6000E	6174K-6002K	6174V-6000E	6174V-6002K
L401	Jumper	6140VX0001V	Jumper	Jumper	Jumper
L402	150L Ω 0C	6140VX001P	6170VX0003C	150L Ω 0C	150L Ω 1V