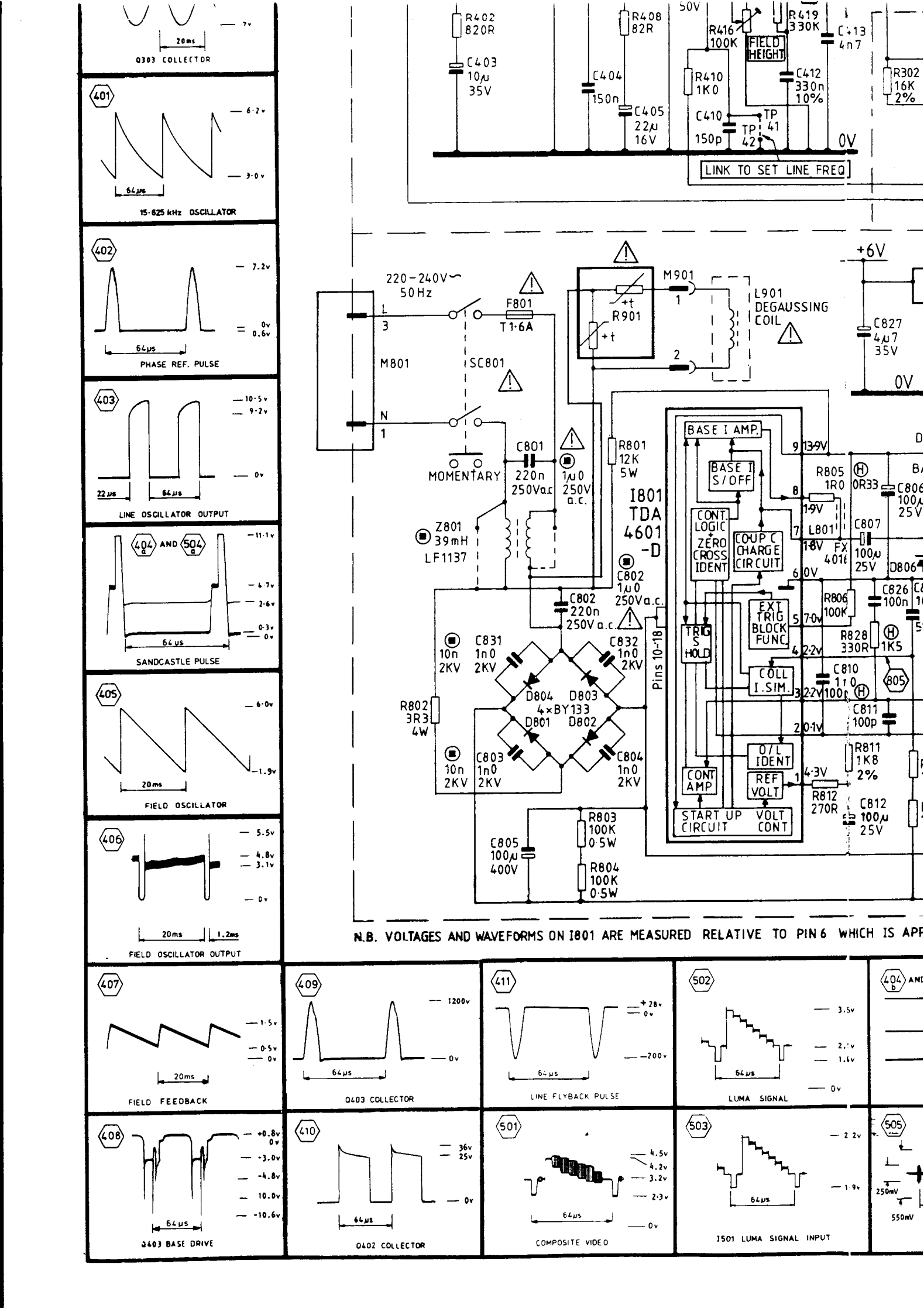
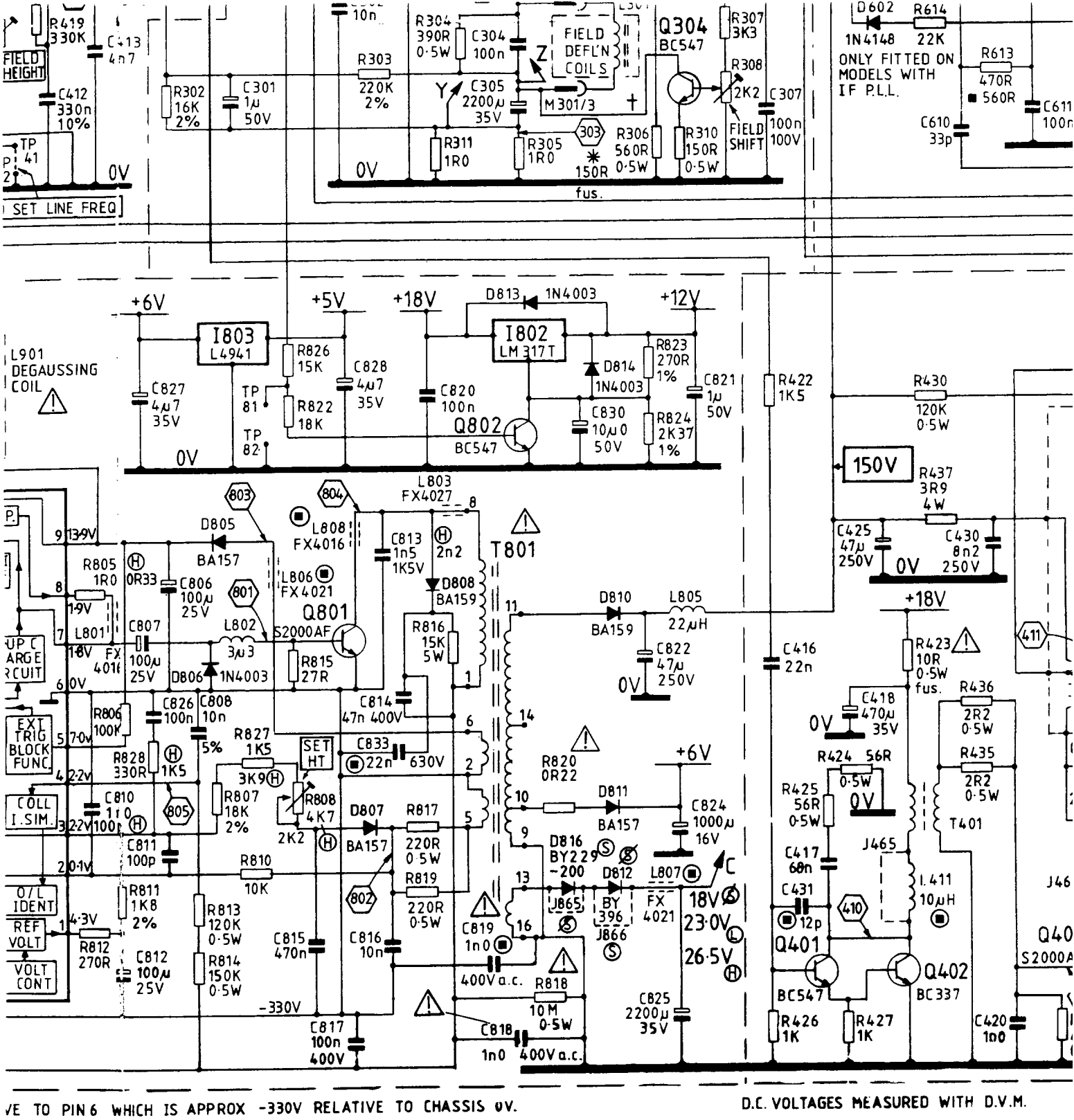
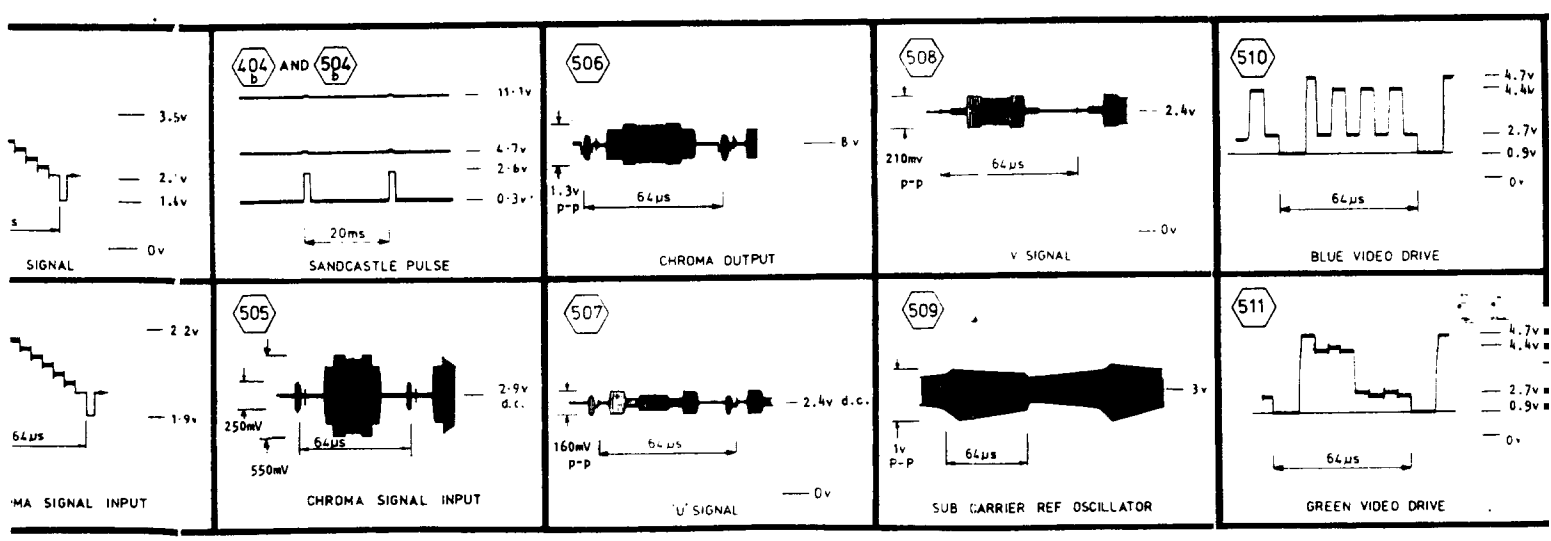
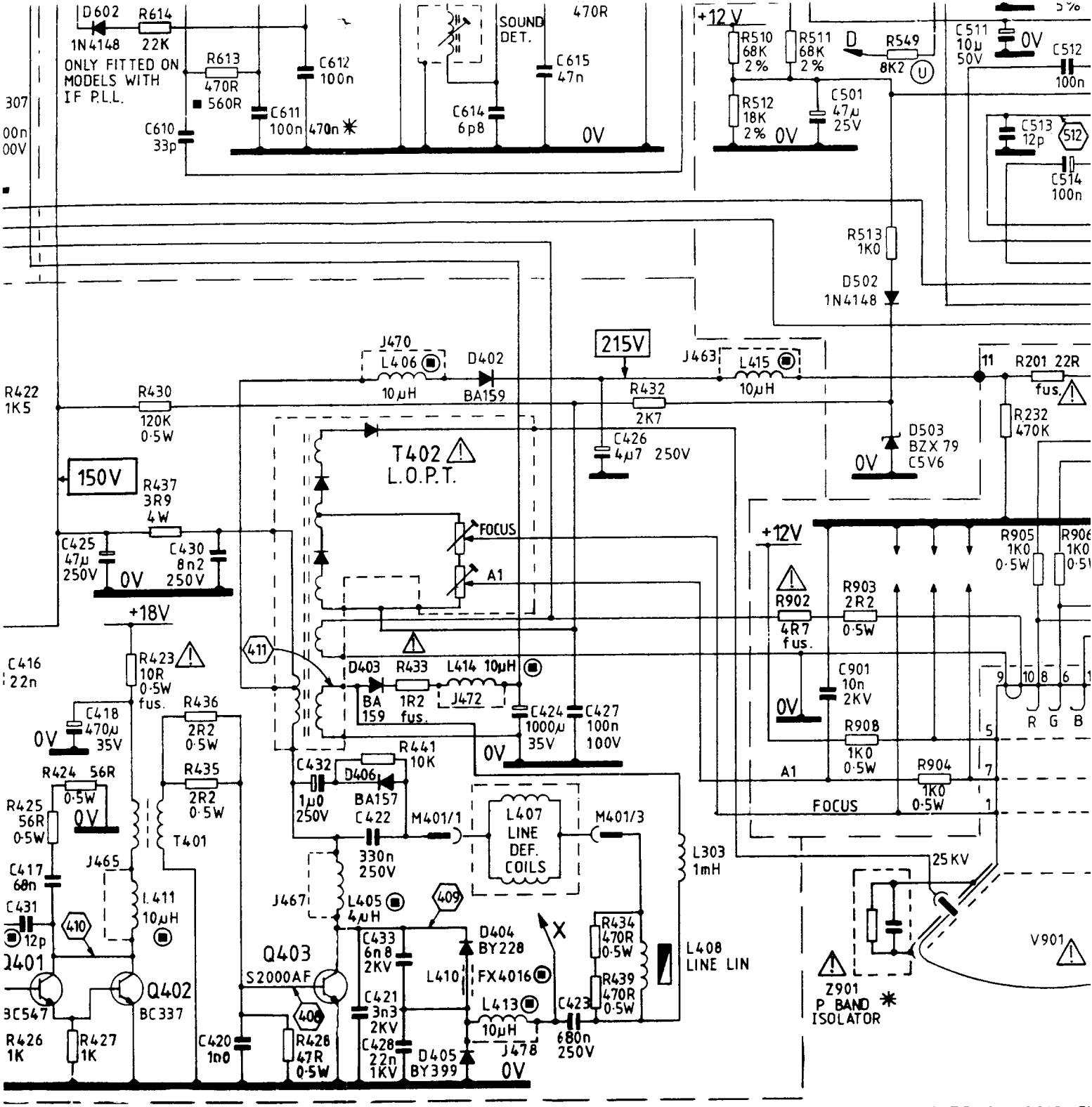

Q303 COLLECTOR
20ms
7v
401
6·2v
3·0v
64µs
15·625 kHz OSCILLATOR
402
7.2v
0v
0.6v
64µs
PHASE REF. PULSE
403
10·5v
9·2v
0v
22µs
64µs
LINE OSCILLATOR OUTPUT
404 a AND 504 a
11·1v
4·7v
2·6v
0·3v
0v
64µs
SANDCASTLE PULSE
405
6·0v
1·9v
20ms
FIELD OSCILLATOR
406
5.5v
4.8v
3.1v
0v
20ms
1.2ms
FIELD OSCILLATOR OUTPUT
R402 820R
C403 10µ 35V
R408 82R
C404 150n
C405 22µ 16V
R416 100K
FIELD HEIGHT
R419 330K
C413 4n7
R410 1K0
C412 330n 10%
C410 150p
TP 41
TP 42
0V
LINK TO SET LINE FREQ
R302 16K 2%
220-240V~ 50Hz
L
N
3
1
F801 T1·6A
M801
SC801
MOMENTARY
M901
+t R901 +t
L901 DEGAUSSING COIL
C801 220n 250Va.c
1µ0 250V a.c.
R801 12K 5W
Z801 39mH LF1137
C802 1µ0 250Va.c.
C802 220n 250V a.c.
I801 TDA 4601 -D
BASE I AMP.
BASE I S/OFF
CONT. LOGIC + ZERO CROSS IDENT
COUP C CHARGE CIRCUIT
EXT TRIG BLOCK FUNC
TRIG S HOLD
COLL I.SIM.
O/L IDENT
CONT AMP
REF VOLT
START UP CIRCUIT
VOLT CONT
Pins 10-18
9 13·9V
8 1·9V
7 1·8V
6 0V
5 7·0v
4 2·2v
3 2·2V
2 0·1V
1 4·3V
R805 1R0
0R33
C806 100µ 25V
C807 100µ 25V
L801
FX 401
D806
R806 100K
C826 100n
R828 330R
1K5
805
C810 1µ0
C811 100p
R811 1K8 2%
R812 270R
C812 100µ 25V
C831 10n 2KV
C831 1n0 2KV
C832 1n0 2KV
D804 D803
4×BY133
D801 D802
R802 3R3 4W
C803 10n 2KV
C803 1n0 2KV
C804 1n0 2KV
C805 100µ 400V
R803 100K 0·5W
R804 100K 0·5W
+6V
C827 4µ7 35V
0V
N.B. VOLTAGES AND WAVEFORMS ON I801 ARE MEASURED RELATIVE TO PIN 6 WHICH IS APP
407
1·5v
0·5v
0v
20ms
FIELD FEEDBACK
409
1200v
0v
64µs
Q403 COLLECTOR
411
+28v
0v
−200v
64µs
LINE FLYBACK PULSE
502
3.5v
2.1v
1.6v
0v
64µs
LUMA SIGNAL
404 b AND
408
+0.8v
0v
-3.0v
-4.8v
10.8v
-10.6v
64µs
Q403 BASE DRIVE
410
36v
25v
0v
64µs
Q402 COLLECTOR
501
4.5v
4.2v
3.2v
2·3v
0v
64µs
COMPOSITE VIDEO
503
2·2v
1·9v
64µs
I501 LUMA SIGNAL INPUT
505
250mV
550mV



VE TO PIN 6 WHICH IS APPROX -330V RELATIVE TO CHASSIS 0V.

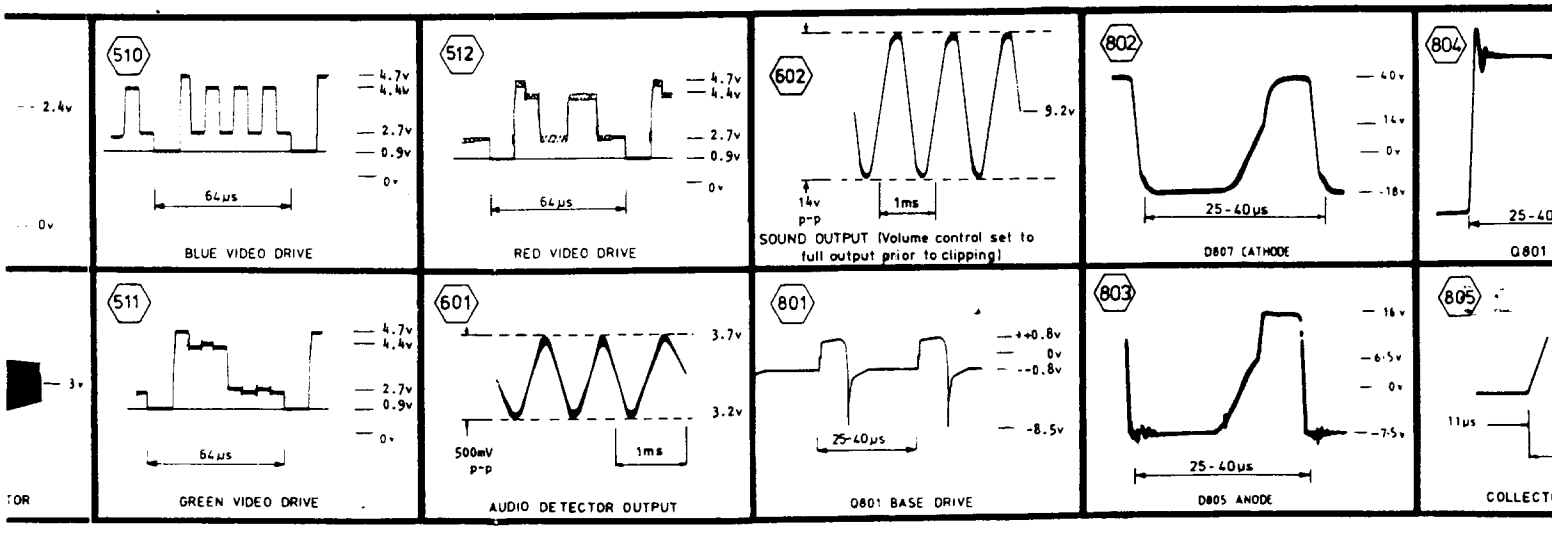
D.C. VOLTAGES MEASURED WITH D.V.M.

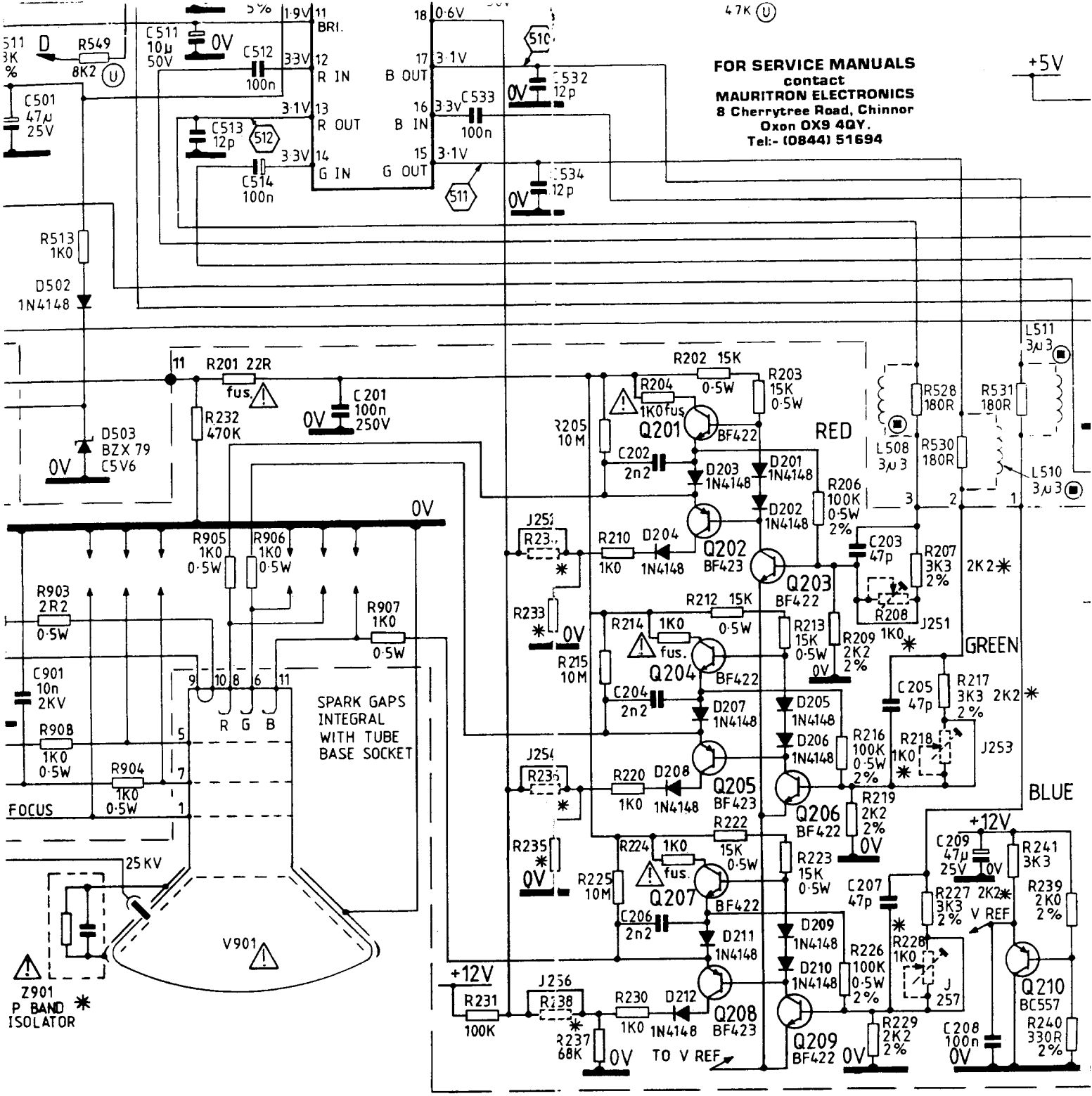




VOLTAGES MEASURED WITH D.V.M.

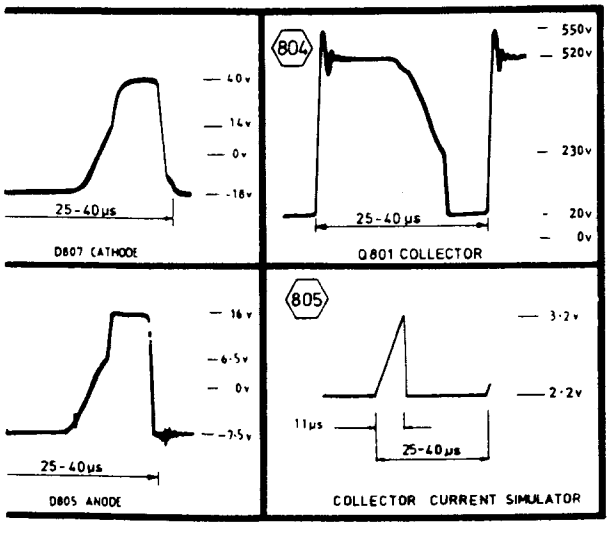
180 SERIES CHASSIS C





180 SERIES CHASSIS CIRCUIT DIAGRAM for systems I & B/G

DRAWING NO. 83-2683-5



SAFETY AND ISOLATION

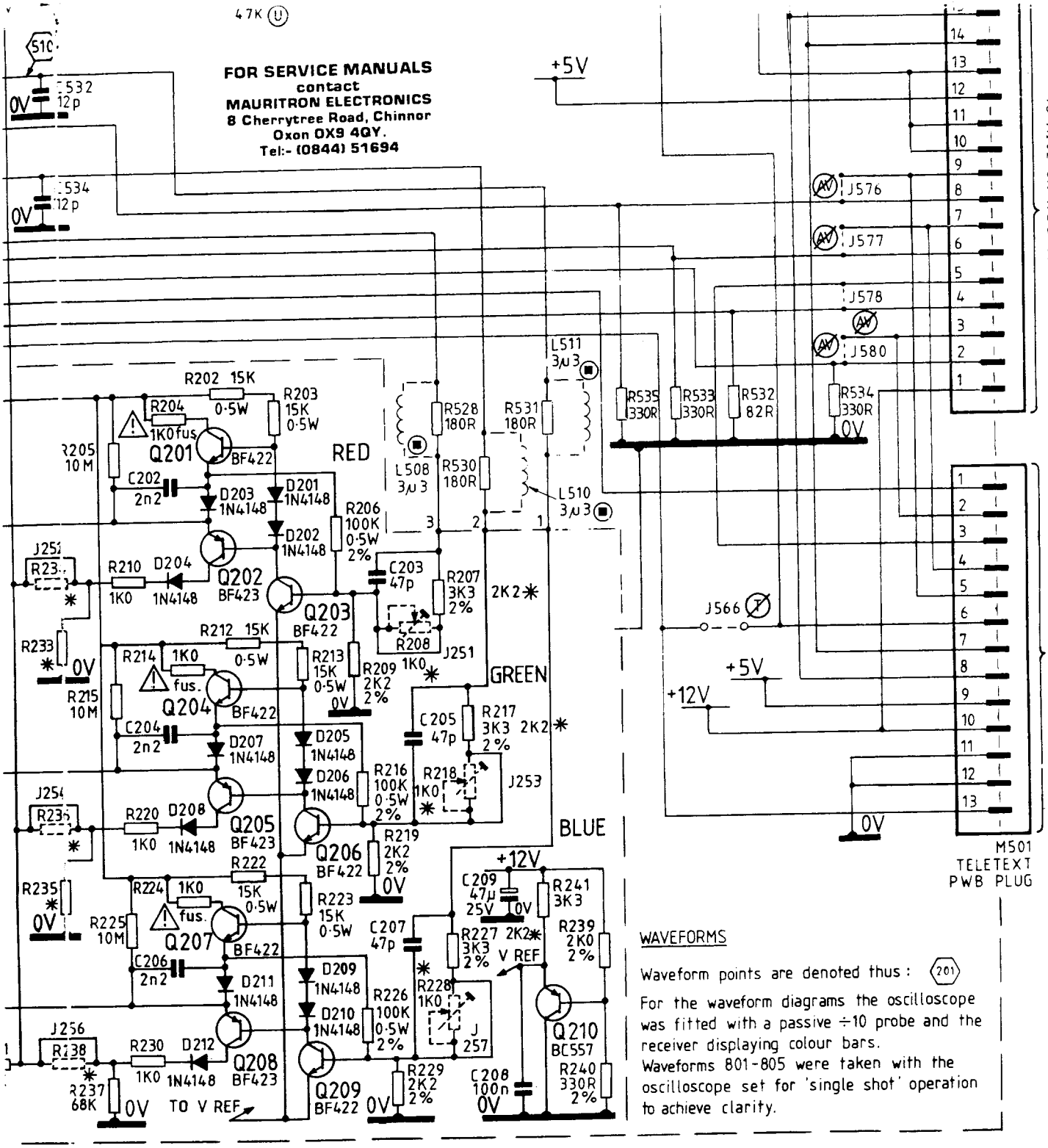
The power supply is always live regardless of the m
servicing, the receiver should be supplied through

The power supply remains charged for about 30
touching this area during this time.

Most of the receiver, other than the power suppl
R818, C818 (and C819 if fitted), and an air gap o
ensure that after repair the air gaps are not red

Components marked ⚠ on the parts list or circu
and should be replaced only with components su
Department. It is recommended that other replac
originally fitted, particularly resistors stood of

FAILURE TO OBSERVE THE ABOVE MAY RENDER THE CHA
OR CAUSE OTHER HAZARDS.



WAVEFORMS

Waveform points are denoted thus : (201)

For the waveform diagrams the oscilloscope was fitted with a passive ÷10 probe and the receiver displaying colour bars. Waveforms 801-805 were taken with the oscilloscope set for 'single shot' operation to achieve clarity.

systems I & B/G DRAWING NO. 83-2683-5 ISSUE 2 DATE. 4/88

SAFETY AND ISOLATION

The power supply is always live regardless of the mains supply polarity. Therefore, for servicing, the receiver should be supplied through a mains isolation transformer.

The power supply remains charged for about 30 seconds after switch off. Avoid touching this area during this time.

Most of the receiver, other than the power supply, is isolated from the mains by T801, R818, C818 (and C819 if fitted), and an air gap of 6mm or more. To maintain safety, ensure that after repair the air gaps are not reduced by protruding wires, etc.

Components marked ⚠ on the parts list or circuit diagram are safety approved types and should be replaced only with components supplied, or approved by, our Service Department. It is recommended that other replaced parts should be of the type originally fitted, particularly resistors stood off the printed board.

FAILURE TO OBSERVE THE ABOVE MAY RENDER THE CHASSIS AND EXTERNAL ACCESSIBLE PARTS LIVE, OR CAUSE OTHER HAZARDS.