Ford Battery Voltages

10 v	= 21
9.75	= 21.1
9.5	= 21.2
9.25	= 21.2
9.00	= 21.5
8.75	= 21.7
8.6	= 21.8
8.5	= 21.9
8.4	= 21.9
8.3	= 21.9
8.2	= 22.0
8.1	= 22.0
8.0	= 22.1
7.9	22.2
7.8	22.2
7.7	22.2
7.6	22.3
7.5	22.3
7.4	22.4
7.3	22.4
7.2	22.6
7.1	22.6
7.0	22.6
6.9	22.6

6.75	24.7
6.50	38.0
6.4	456

10 v 7.5

2.5 v 1 v $\frac{25}{1} \frac{10^3}{\times}$

± 20% adjustment range on scale

$$G = \frac{R_1 + R_2 + VR_1}{VR_1 + R_2}$$

Required gain = X2 nominal

Let $VR1 = 10K$. Pot.

∴

for -20% = $G = 1.6$, $VR1 = 10K$

$$1.6 = \frac{R_1 + R_2 + 10K}{10K + R2}$$

$$\therefore \quad 16K + 1.6R_2 = R_1 + R_2 + 10K.$$

$$\therefore \quad 6K + 0.6R_2 = R_1 \qquad \text{(1)}$$

For $+20\%$ $G = 2.4$ $VR_1 = 0$

$$2.4 = \frac{R_1 + R_2}{R_2} \qquad \therefore \quad 2.4R_2 = R_1 + R_2$$

$$\therefore \quad \underline{1.4R_2 = R_1} \qquad \text{(2)}$$

∴ Sub (2) in (1).

$$1.4R2 = 0.6R2 + 6K.$$

$$R_2 = \frac{6K}{0.6} \quad \underline{7K5.} \qquad \therefore \quad R_1 = 1.4 \times 7K5 = \underline{10.5K.}$$

$\simeq$ 10K.

15/11/94 03

VN202 TESTS

Microcal 1030 S/N 2845B-2

S/N	50mV	40mV	30mV	20mV	10·5
VN0007	100·0	80·0	60·0	40·0	21·0
VN0004	100·0	80·0	60·1	40·1	21·0
VN00[redacted]	100·0	80·0	60·0	40·0	21·0
VN003	100·0	80·1	60·0	40·0	20·9