

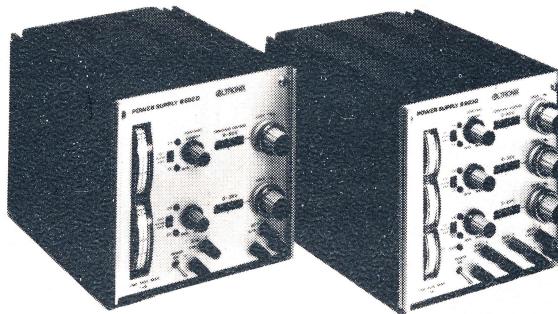


**OWNER'S  
MANUAL**

**REGULATED POWER SUPPLY**

**LABPAC B602D  
B603D**

Serial No .....



RATING DATA <sup>1)</sup>

		B602D	B603D
Source voltage	$U_S$	$220V \pm 10\%$ , $240V \pm 10\%$ <sup>2)</sup> , 48-63Hz	
Output voltage/current			
output 1	$U_{ex}/I_{ex}$	0-60V/0,7A	0-60V/0,65A
"- 2		0-30V/1,4A	0-30V/1A
"- 3		—	0-6V/3A
Ambient temperature, operating	$t_{amb}$	0-40°C	

PERFORMANCE RATINGS <sup>1)</sup> (Data subject to Change)

Source current, max	$I_{Sm}$	0,85A <sub>rms</sub>
Load effect, all outputs (load regulation)		
$I_{ex}=0-100\%$	$U_{erL}$	<15mV
Source effect, all outputs (line regulation)		
$U_{Snom}=U_S \pm 10\%$	$U_{ers}$	<1mV or 0,01%
Temperature coefficient $t_{amb}=0-40^{\circ}C$	$\alpha$	$<0,01\%{^{\circ}C}^{-1}$
PARD (ripple and noise) $f_B=20Hz-20MHz$	$U_{PARD}$	<1,5mV <sub>p-p</sub>

LABPAC B602D UIL-2(4)  
B603D

	<u>B602D</u>	<u>B603D</u>
Drift (stability) $\tau=8h$ , $f_B=0-20Hz$	$U_{erD}$	$<0,05\%$
Load transient recovery time $I_{ex}=0-100\%$	$\tau_R$	$<50\mu s$
Trans. rec.band= $\pm 50mV$		
Setting range, output 1 - - - - 2 - - - - 3	U/I	0-70V/0,04-0,74A 0-36V/0,07-1,47A —
Control ranges	-	See Output Chart
Control deviation, max of rated voltage	$\Delta_m$	$\pm 0,3\%$
Crossover area, max	$(U/I)_{const}$	100mV/50mA
Reverse current protection, max	$I_{Rm}$	1A <u>3A on output 3</u>
Reverse voltage protection, max	$U_{Rm}$	1V (One diode voltage forward drop)
Isolation voltage, max on output terminals relative to the chassis	$U_{isol}$	$\pm 500V$
Insulating resistance, min $U_{test}=500V$	$R_{insul}$	$>100Mohm$
Transformer OTP, automatic	$t_{OTP}$	$110^0C$
Storage temperature	$t_{stor}$	$-40^0C$ to $85^0C$
Overall dimensions	height width depth	176mm 176mm 255mm
Mass	m	5,0kg 5,3kg
Mains fuse	$F_{10}$	1,6A slowblow at the rear
Mains cable (see Mains, page 3)	-	Fixed, 1,8m with 10-16A/250V, earthed EUR-connector.

<sup>1)</sup> Rating Data and Performance Ratings are expressed in accordance with international recommendations, notably IEC-478.

<sup>2)</sup> Connected for  $U_{Snom}=240V$  on order or changed at Service Center.

LABPAC B602D  
B603D  
UIL-3(4)

To make the best use of your new LABPAC, follow these instructions!  
(Applicable to both models, unless otherwise indicated).

#### MAINS

The unit has a fixed mains cable with earthed 10-16A/250V EUR-connector, fitted at the rear. Adjacent is the mains fuse. The unit is thermally protected by an automatic cut-out in the mains transformer.

As an option, mains filter may be provided with a single detachable mains cable using CEE22/4 (6A)-connector.

For 220/240V mains tap-changing, see Service Instruction LPB602/3D-1.

#### VOLTAGE ADJUSTMENT (Figure 1)

The output level is set by means of the "CONSTANT VOLTAGE" potentiometer. The set value is displayed in the adjacent window to within  $\pm 0.3\%$  of the rated output voltage.

A mechanical brake "LOCK" provides for a secure setting against unintentional turning.

#### CURRENT ADJUSTMENT (Figure 1)

The max output current is controlled by the "CONSTANT CURRENT" potentiometer. It can be set to any current between the max rated and down to 5% thereof.

#### CONSTANT VOLTAGE / CONSTANT CURRENT (Figure 2)

The cross-over area of the CV/CC is determined by the setting of the two parameters and is less than 100mV for a 50 mA change.

#### MONITORING (Figure 1)

The operating mode for each output is indicated by two light emitting diodes "CV" and "CC". The output voltage or current are indicated on the meter as selected by the "VOLT-AMP" switch.

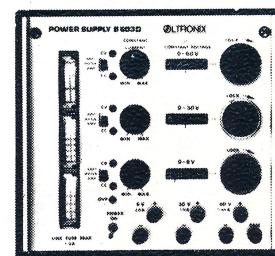
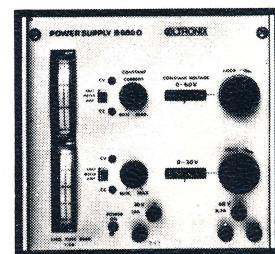


Figure 1

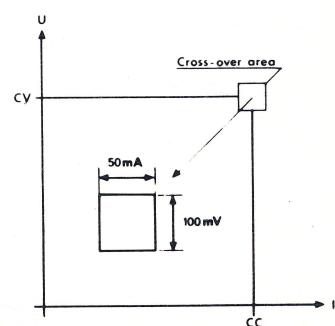
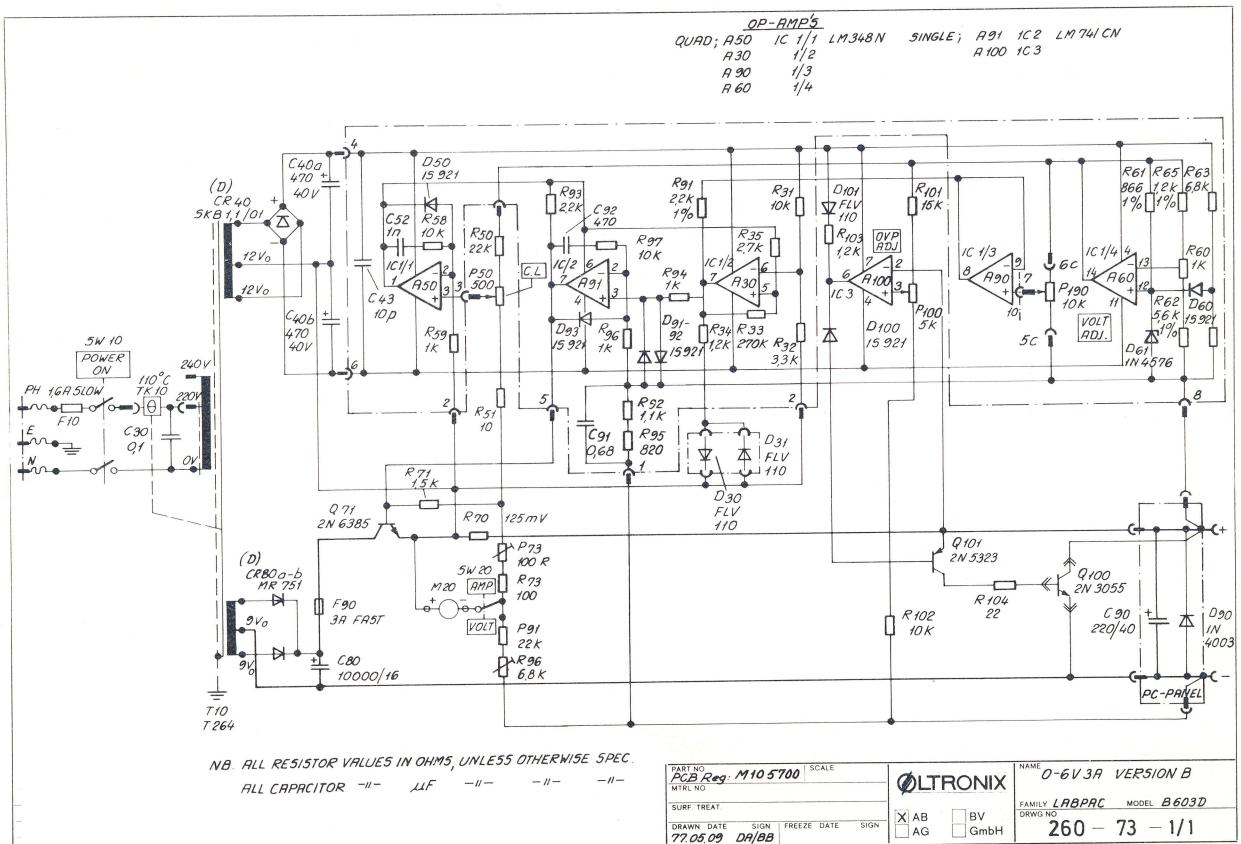
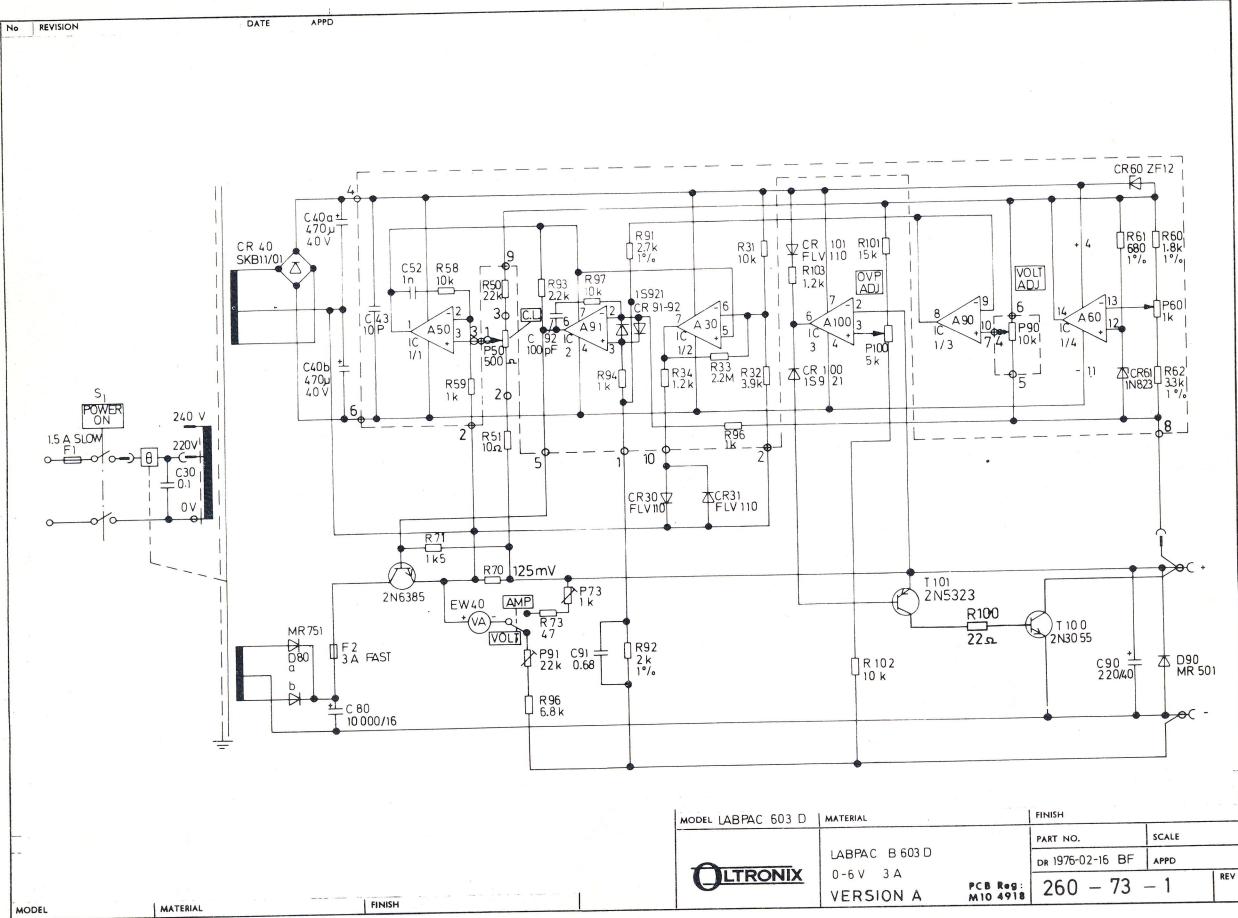
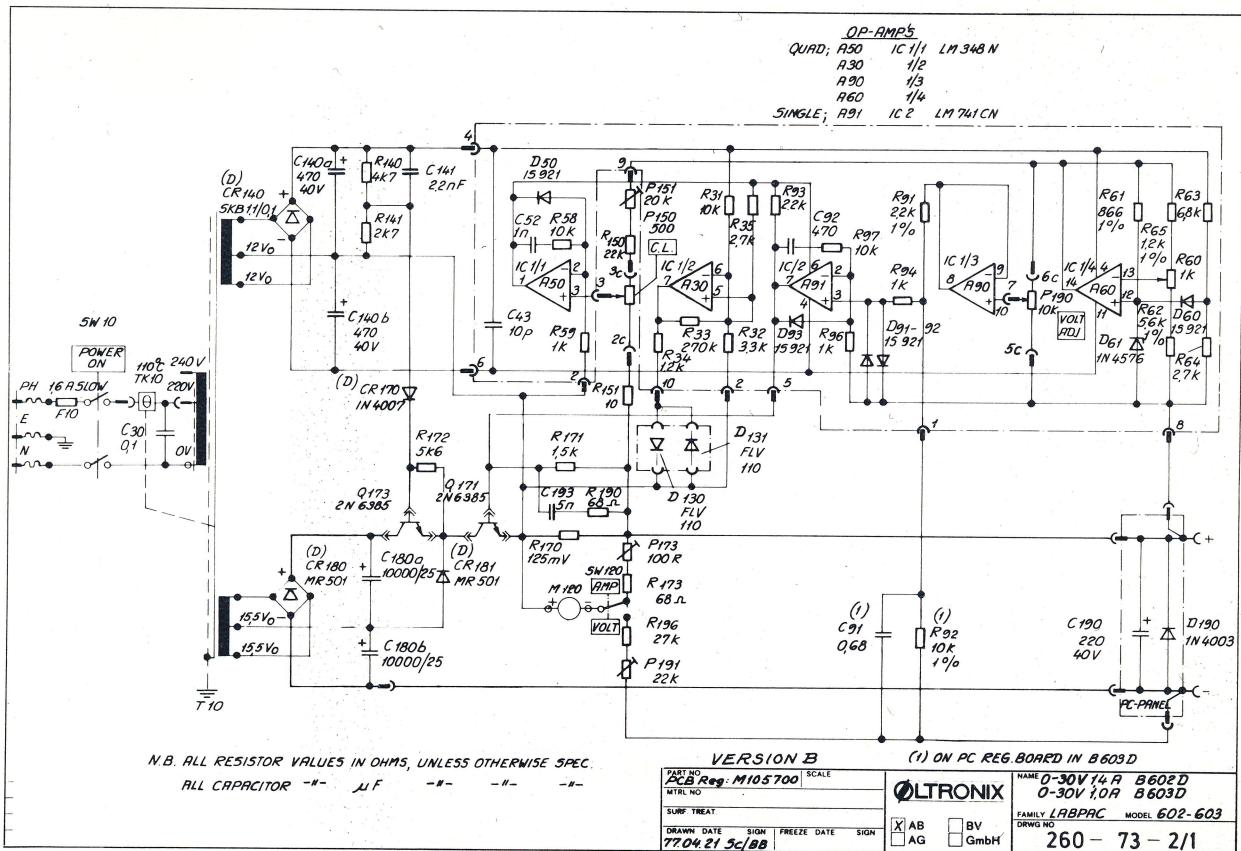
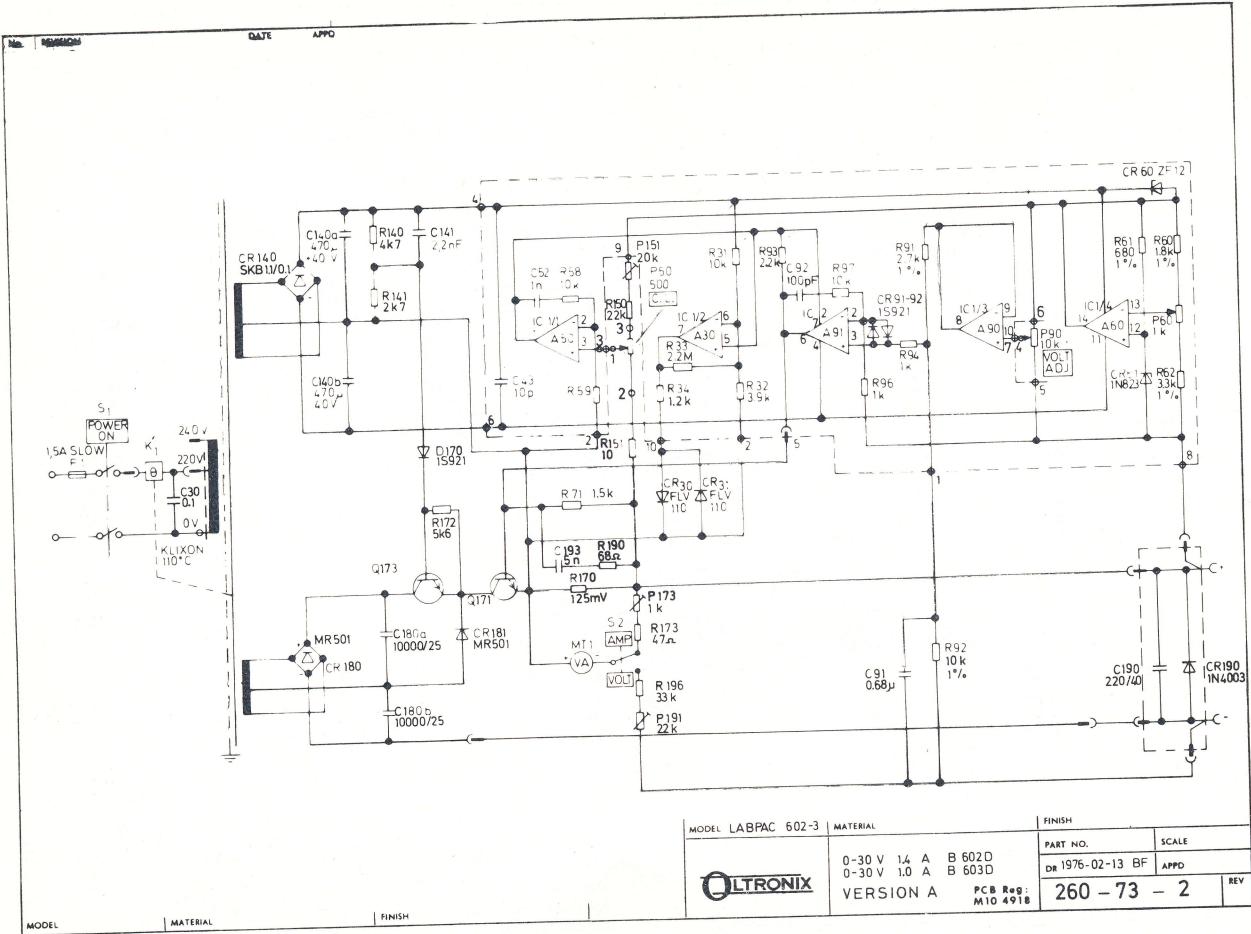


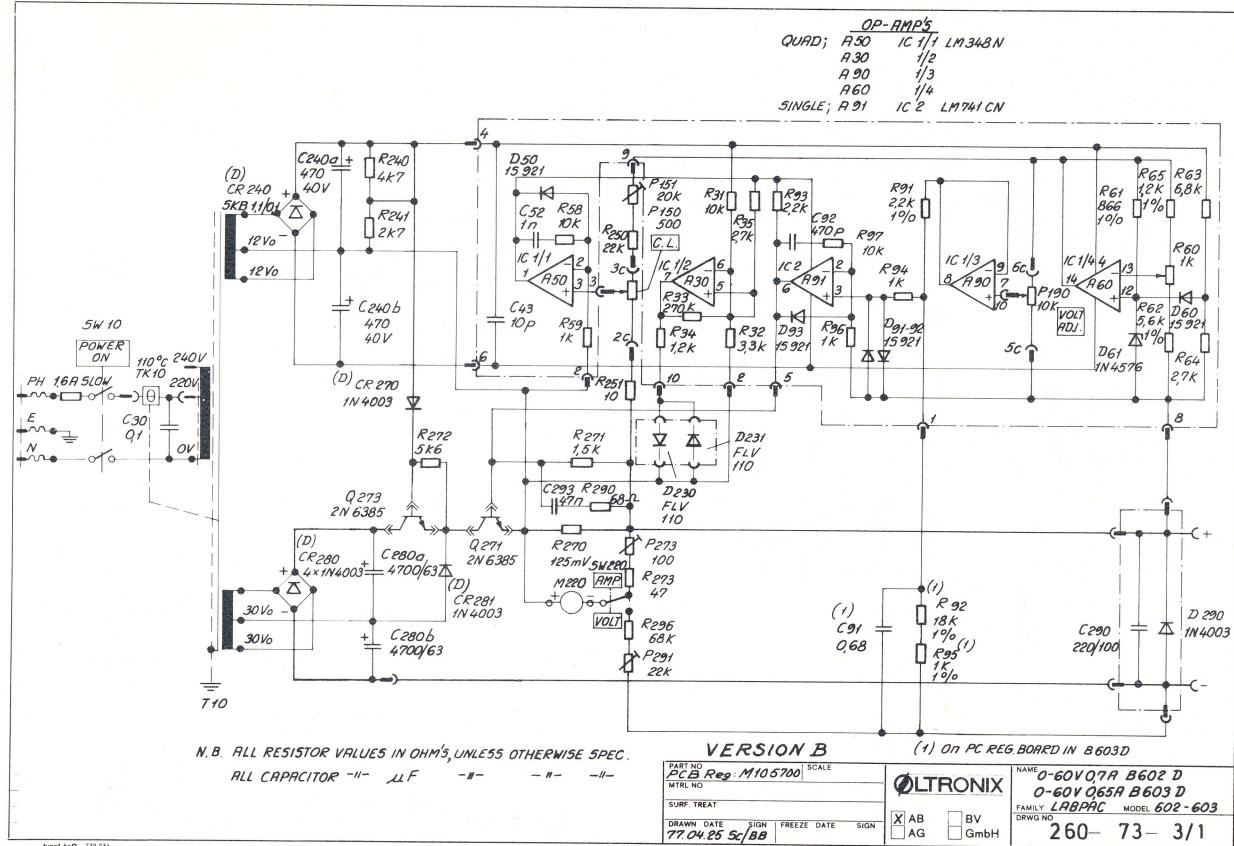
Figure 2

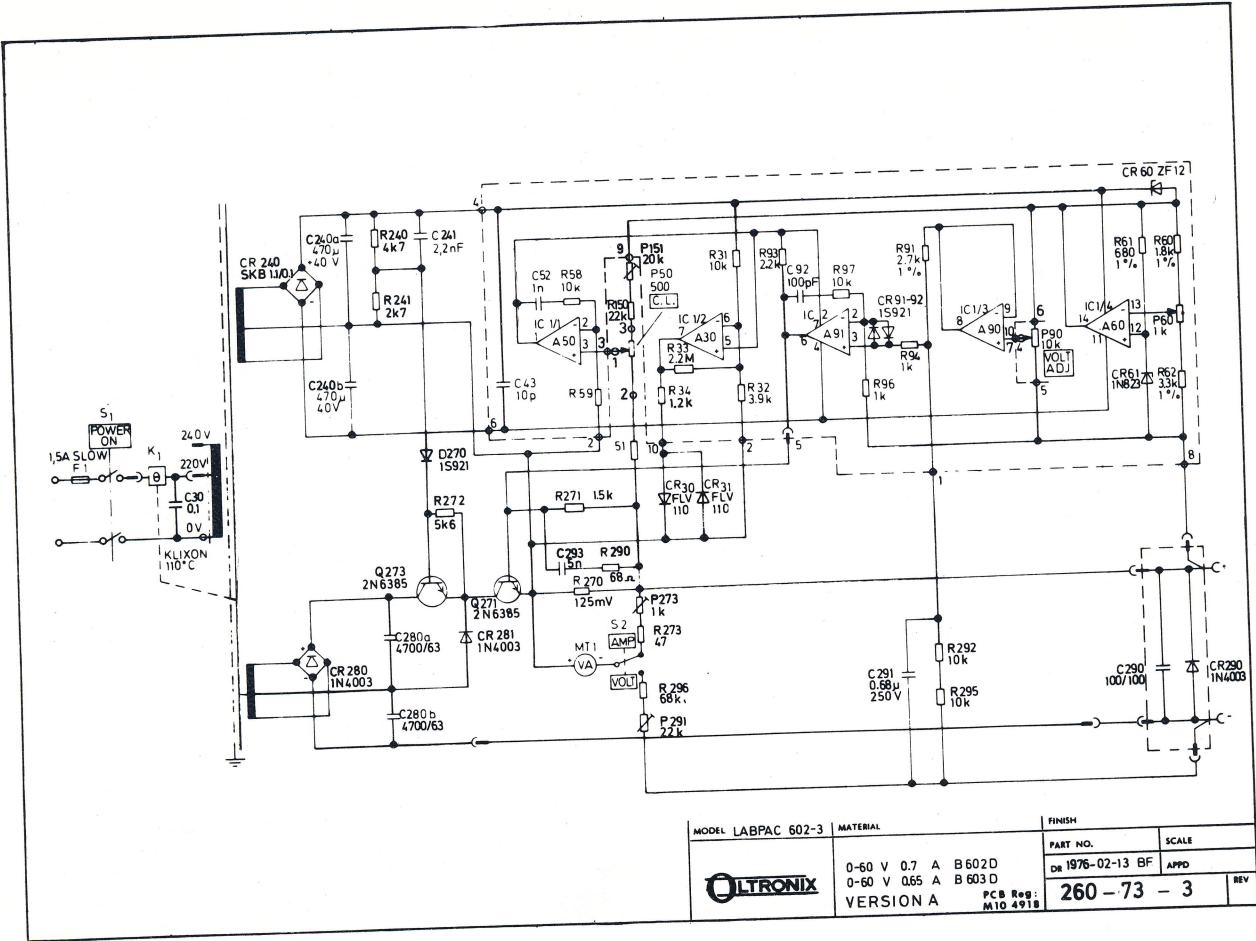












MODEL	LABPAC 602-3	MATERIAL	FINISH	
			PART NO.	SCALE
<b>OLTRONIX</b>	0-60 V 0.7 A B602D 0-60 V 0.65 A B603D VERSION A	PCB Reg: M10 491B	DE 1976-02-13 BF APPD 260-73-3	REV



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