

**SCHEMATIC DIAGRAM  
AND  
PARTS LIST**



**1650**

**POWER SUPPLY**

**PARTS LIST**

488-234-9-002

**SCHEMATIC  
SYMBOL**

**DESCRIPTION**

**B & K-PRECISION  
PART NO.**

**RESISTORS & POTENTIOMETERS**

R4,72,85	Trimpot, 5K $\Omega$ .....	010-007-9-006
R8	Trimpot, 500 $\Omega$ .....	010-007-9-003
R17,68	Potentiometer, 20K $\Omega$ .....	008-348-9-001
R18	39.2K $\Omega$ , 1/4W, 1%, Metal Film .....	015-141-3-922
R21	4.75K $\Omega$ , 1/4W, 1%, Metal Film .....	015-141-4-751
R22,24	20K $\Omega$ , 1/4W, 1%, Metal Film .....	015-141-2-002
R34,78	2.49K $\Omega$ , 1/4W, 1%, Metal Film .....	011-149-9-001
R35,81, 92,93	0.9 $\Omega$ , 1W, 1/4%, Metal Film .....	004-160-9-001
R65	Trimpot, 1K $\Omega$ .....	010-007-9-004
R66	Trimpot, 2.5K $\Omega$ .....	010-007-9-005
R79,95	49.9 $\Omega$ , 1/4W, 1%, Metal Film .....	015-141-4-998
R82	19.1K $\Omega$ , 1/4W, 1%, Metal Film .....	015-141-1-912
R83,88	1.33K $\Omega$ , 1/4W, 1%, Metal Film .....	015-141-1-331
R84	4.64K $\Omega$ , 1/4W, 1%, Metal Film .....	015-141-4-641
R86,87	100K $\Omega$ , 1/4W, 1%, Metal Film .....	015-141-1-003
R90	0.25 $\Omega$ , 10W, 1%, Wirewound .....	004-180-9-001

**CAPACITORS**

C1	26,000 $\mu$ F, 15V Electrolytic .....	022-176-9-001
C2,15 17,18	100 $\mu$ F, 25V Electrolytic .....	022-081-9-001
C3,6,9,12, 21,24	47 $\mu$ F, 35V Electrolytic .....	022-170-9-001
C4,10 20	150pF, 500V, 10% Disc Ceramic .....	020-031-9-001
C5,26	10 $\mu$ F, 25V Electrolytic .....	022-121-9-001
C7,13, 25	.05 $\mu$ F, 100V, +80/-20% Disc Ceramic .....	020-216-9-001
C8	50 $\mu$ F, 25V Electrolytic .....	022-052-9-001
C11	.033 $\mu$ F, 250V, 5% Polyester .....	025-042-9-001
C14,16	1500 $\mu$ F, 40V Electrolytic .....	022-169-9-001



**DYNASCAN  
CORPORATION**

6460 West Cortland Street • Chicago, Illinois 60635

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C19,23	10 $\mu$ F, 25V, Tantalum	027-014-9-001
C22	33 $\mu$ F, 25V, Electrolytic	022-178-9-001
C27,30	150 $\mu$ F, 35V, Electrolytic	022-054-9-001
C28	0.1 $\mu$ F, 16V, 10% Disc Ceramic	020-052-9-001
C29	.01 $\mu$ F, 25V, Disc Ceramic	020-104-9-001

**TRANSISTORS & DIODES**

D1,2	3.5A, 50V Silicon Diode	151-078-9-001
D3,4,10,11,12,13,14,15,16,17,18,23	1A, 600V Silicon Diode	151-050-9-001
D5,6,21	IN4148 Silicon Diode	151-038-9-001
D7	IN4734A (5.6V, 1W, 5%) Zener Diode	152-036-9-001
D8	IN4747A (20V, 1W, 5%) Zener Diode	152-015-9-001
D9	IN755A (7.5V, .4W, 5%) Zener Diode	152-063-9-001
D19	IN749A (4.3V, .4W, 5%) Zener Diode	152-062-9-001
D24-25	IN4735A (6.2V, 1W, 5%) Zener Diode	152-037-9-001
Q1	Darlington NPN Power Transistor	172-049-9-001
Q2,5,6	2N3904 NPN Transistor	176-084-9-001
Q3,4	MJ2955 PNP Power Transistor	172-048-9-001

**INTEGRATED CIRCUITS**

IC1,2,3	723C Voltage Regulator	307-009-9-001
IC4,5	324 Quad Op-Amp	307-060-9-001
IC6	Opto-Isolator	178-003-9-001

**TRANSFORMERS & SWITCHES**

T1	Power Transformer (Standard Unit)	065-145-9-001
S1	Power Transformer (120/240V, 50/60Hz Export Unit)	065-145-9-002
S2	Slide Switch (Power)	084-067-9-001
S3	Slide Switch (Tracking/Independent)	084-043-9-001
	Rotary Switch (Metering)	083-244-9-001

**MISCELLANEOUS**

L1	560 $\mu$ H Inductor	041-067-9-001
TH1	Triac, 200V	181-004-9-001
F1	1 $\frac{1}{2}$ A, 250V, 3AG Pigtail Slo-Bio Fuse (120V Unit)	193-019-9-001
F2	$\frac{3}{4}$ A, 250V, 3AG Pigtail Slo-Bio Fuse (240V Unit)	193-017-9-001
	6A, 250V, 3AG Pigtail Fuse	193-251-3-006

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M1	Top Cover	253-025-9-903
	Shield, Transistor (for Q1)	256-077-9-001
	Meter Inlay, Black	260-169-9-001
	Left End Panel (Case)	271-020-9-001
	Right End Panel (Case)	271-021-9-001
	Meter	320-101-9-001
	Insulator (for Q1,3,4)	342-048-9-001
	Insulator (for C14,16)	342-059-9-001
	Foam Pad (for Top Cover/PCB Support)	344-023-9-001
	Mica Insulator (for Q1,3,4)	347-002-9-001
	Strain Relief, Line Cord	380-001-9-001
	PC Board Support, Plastic	380-202-9-001
	Foot	381-060-9-001
	Glamour Cap (for Slide Switches)	348-008-9-001
	Power Cord	420-013-9-001
	Clip Nuis (for end panels)	652-032-9-001
	6x3/8 Black Sheet Metal Screws	706-812-1-901
	Solder Lug (Q1,3,4)	744-001-9-001
	Heat Sink (Q3,4)	747-043-9-001
	Heat Sink (Q1)	747-066-9-001
	Skirted Knob	751-133-9-001
	Binding Post, Red	773-093-9-001
	Binding Post, Green	773-093-9-001
	Binding Post, Black	773-093-9-001

**NOTE:** Standard value resistors are not listed. Values may be obtained from schematic diagram. Minimum charge \$5.00 per invoice. Orders will be shipped C.O.D. unless previous open account arrangements have been made or remittance accompanies order. Advance remittance must cover postage or express charges. Specify serial number when ordering replacement parts.