



- NOTES:**
- IC VOLTAGES AND WAVEFORMS WERE OBSERVED WITH THE MODEL 3000 CONTROL UNIT AS FOLLOWS:  
 FREQUENCY DIAL: 500  
 FUNCTION: SINE  
 RANGE: 10V P-P  
 D.C. OFFSET: 0  
 GAIN: 10
  - 18.8V AC WAS USED FOR UNTERMINATED.
  - A B&K MODEL 474 OSCILLOSCOPE WITH A 10-1 PROBE WAS USED FOR THE VOLTAGE SENSITIVITIES ADJACENT TO EACH WAVEFORM. THE ACTUAL VOLTAGES WERE 10% HIGHER.
  - ALL AC AND DC VOLTAGES ON SCHEMATIC ARE ±10%.
  - ALL RESISTORS ARE 1/4W, 5%.
6. ARROWS ON POTENTIOMETERS INDICATE CLOCKWISE ROTATION.
7. POTENTIOMETERS IN DOTTED RECTANGLES WITH TITLES ARE NOT USED.
8. ALL CAPACITORS ARE SHOWN IN MICROFARADS.
9. THIS SCHEMATIC SUBJECT TO CHANGE WITHOUT NOTICE.
10. LAST NUMBER USED: NOT USED
- |                |          |
|----------------|----------|
| R77 (0102,103) | NOT USED |
| C51            | CE0, Z1  |
| ZC7            |          |
| D18            |          |
| D16            |          |

SCHEMATIC SYMBOL

DESCRIPTION

B & K-PRECISION PART NO.

**DIODES & TRANSISTORS**

D1-4	1AMP, 600 PIV, Silicon Diode	151-050-9-001
D5-12	1N4148 Silicon Diode	151-038-9-001
Q1, 2	PNP Transistor	177-017-9-001
Q3, 5	2N5087 PNP Silicon Transistor	177-034-9-001
Q4, 6	2N5210 NPN Silicon Transistor	176-083-9-001
Q7	Dual N-Channel FET	182-024-9-001
Q8, 9, 10, 12	2N3904 NPN Silicon Transistor	176-084-9-001
Q11, 13	2N3906 PNP Silicon Transistor	177-035-9-001

**INTEGRATED CIRCUITS**

IC1	78L15AC, +15 Regulator	307-130-9-001
IC2	78L05AC, +5 Regulator	307-129-9-001
IC3, IC4	324, Quad OP AMP	307-060-9-001
IC5	75107, Dual Line Receiver	307-127-9-001
IC6	7400, Quad NAND Gate	307-015-9-001
IC7	3086, Transistor Array	307-087-9-001

**MISCELLANEOUS**

TI	Power Transformer, 120V, 60 Hz	065-137-9-001
TI	Power Transformer, 120/240V, 50/60 Hz	065-137-9-002
F1	Switch, 10-Position, Push-Button	088-036-9-001
F1	Fuse, 1/8A, 3AG, Slo-Blo	190-251-3-108
F1	Fuse, 1/16A, 3AG, Slo-Blo (240V MODEL ONLY)	190-002-9-001
	Bracket, Control Mounting	251-327-9-902
	Bracket, Transformer Mounting	251-328-9-902
	Inlay, Front Panel	255-159-9-001
	Case, Rear	271-057-9-001
	Case, Front	271-061-9-001
	Handle	380-279-9-001
	Pad, Anti-Skid	381-080-9-001
	Switch Button, White	384-019-9-009
	Switch Button, Tan	384-019-9-017
	Switch Button, Bright Ochre	384-019-9-020
	AC Power Cord	420-022-9-001
	Screw, Decorative Handle	634-085-9-001
	Knob	751-158-9-001
	Frequency Dial Knob	751-159-9-001
	Handle Spring	767-049-9-001
	Recessed Receptacle (AC Power cord)	770-018-9-001
	Phono Jack	773-085-9-001
	Instruction Manual	480-225-9-001

NOTE: Standard value resistors and capacitors are not listed. Values may be obtained from schematic diagram. Minimum charge \$5.00 per invoice. Orders will be shipped C.O.D. unless advance 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.

**B & K-PRECISION MODEL 3010 PARTS LIST**

488-214-9-002C

SCHEMATIC SYMBOL	DESCRIPTION	B & K-PRECISION PART NO.
<b>RESISTORS &amp; POTENTIOMETERS</b>		
R1, 2, 7, 8, 32, 34	11.0K $\Omega$ , 1%, 1/4W, P.F. Metal Film	015-141-1-102
R5	120 $\Omega$ , 10%, 1W, P.F. Carbon	001-001-9-121
R6	390 $\Omega$ , 10%, 1W, P.F. Carbon	001-001-9-391
R11, 12	10K $\Omega$ , 20%, 1/4W, Vertical Trimpot	010-007-9-007
R13	5K $\Omega$ , 20%, 1/4W, Vertical Trimpot	010-007-9-006
R17, 45	2.00K $\Omega$ , 1%, 1/4W, P.F. Metal Film	015-141-2-001
R19, 20, 21, 33, 35	1.00K $\Omega$ , 1%, 1/4W, P.F. Metal Film	015-141-1-001
R23	33.2K $\Omega$ , 1/4%, 1/4W, P.F. Metal Film	011-144-9-001
R24	3.7K $\Omega$ , 1/4%, 1/4W, P.F. Metal Film	011-143-9-001
R25	15.4K $\Omega$ , 1%, 1/4W, P.F. Metal Film	015-141-1-542
R26	2.5K $\Omega$ , 20%, 1/4W, Vertical Trimpot	010-007-9-005
R27	1.74K $\Omega$ , 1%, 1/4W, P.F. Metal Film	015-141-1-741
R28	250 $\Omega$ , 20%, 1/4W, Vertical Trimpot	010-007-9-002
R39, 40	221 $\Omega$ , 1%, 1/4W, P.F. Metal Film	015-141-2-210
R41	1.91K $\Omega$ , 1%, 1/4W, P.F. Metal Film	015-141-1-911
R42, 52, 59	1K $\Omega$ , 20%, 1/4W, Vertical Trimpot	010-107-9-004
R46	332 $\Omega$ , 1%, 1/4W, P.F. Metal Film	105-141-3-320
R50	100 $\Omega$ , 20%, 1/4W, Vertical Trimpot	010-007-9-010
R55	100K $\Omega$ , 20%, 1/4W, Vertical Trimpot	010-007-9-010
R101	10K $\Omega$ , 10%, 2W, POT	008-368-9-001
R102	2K $\Omega$ , 10%, 1/4W, POT	008-328-9-001
R103	10K $\Omega$ , 10%, 1/4W, POT	008-327-9-001
<b>CAPACITORS</b>		
C1	1000 $\mu$ F, 25V, P.C. Aluminum Electrolytic	022-101-9-001
C2, 4, 5, 7, 10, 12, 14, 19, 20, 21, 24, 26, 28, 30	.01 $\mu$ F, 100V, 10%, P.F. Ceramic Disc	020-101-9-001
C3	470 $\mu$ F, 25V, P.C. Aluminum Electrolytic	022-095-9-001
C6, 8, 9, 29, 31	10 $\mu$ F, 25V, P.F. Tantalum	027-014-9-001
C11, 13, 23, 25, 27	47 $\mu$ F, 6.3V, P.F. Tantalum	027-013-9-001
C15	3.3 $\mu$ F, 10%, Metalized Polycarbonate	033-036-9-001
C16	.033 $\mu$ F, 10%, Polypropylene	033-034-9-001
C17	25pF, 10%, 500V, P.F. Ceramic Disc	031-029-9-001
C18	300pF, 10%, Polypropylene	033-035-9-001
C22	20pF, 10%, 500V, P.F. Ceramic Disc	031-010-9-001

COMPOSITE  
499-129-9-001D