B & K-PRECISION MODEL 530 PARTS LIST

488-195-9-003

SCHEMATIC SYMBOL	DESCRIPTION	B & K PART NO.
	RESISTORS & CONTROLS	
R85	9.1KΩ, ±2%, ¼W, Deposited Carbon	002-039-9-001
R79	13KΩ, ±2%, ¼W, Deposited Carbon	002-040-9-001
R83, 81	18KΩ, ±2%, ¼W, Deposited Carbon	002-041-9-001
R121	100KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-216-9-001
R101, 55	50KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-224-9-001
R22, 87	10KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-241-9-001
R72	30KΩ, ±10%, ½W, Linear Carbon Pot	008-301-9-001
R92, 106	500KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-286-9-001
R56, 59	2KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-287-9-001
R103, 58	1KΩ, ±20%, ¼W, Horizontal Mount Linear Trimpot	008-289-9-001
	CAPACITORS	
C44	10μf @ 250VDC Electrolytic	021-040-9-001
C42	100μf @ 10VDC Electrolytic	022-050-9-001
C38, 39, 40, 41	1000μf @ 25VDC Electrolytic	022-084-9-001
C20, 25	47μf @ 6.3VDC Tantalum	027-013-9-001
C56, 57, 47, 50, 49	.01μf @ 250VDC Polyester	025-027-9-001
C56, 46	.047μf @ 250V Polyester	025-096-9-001
C43	.1μf @ 100V Polyester	025-120-9-001
	COILS	
L1	Oscillator, 1 MHz	044-035-9-001
L2	Oscillator, 10 MHz	044-036-9-001
L3	Oscillator, 30 MHz	044-038-9-001

SCHEMATIC SYMBOL	DESCRIPTION	B & K PART NO.
	DIODES AND TRANSISTORS	
D14, 15, 16, 17, 24, 25	IN695, Germanium Diode	150-007-9-001
D19, 20, 21, 22, 23, 31, 33, 34, 35, 1, 2, 3, 13, 18, 32	IN4148, Silicon Diode	151-038-9-001
D4, 5, 6, 7, 10, 11, 27, 28, 30	Rectifier Diode	151-050-9-001
D9, 10	5.1V, ±5%, 1W Zener Diode	152-030-9-001
D12, 26	12V, ±5%, 1W Zener Diode	152-039-9-001
Q9, 10, 11, 12	2N5550 NPN Transistor	176-033-9-001
Q4, 5	MPS 2369 NPN Transistor	176-049-9-001
Q1, 2, 3, 14, 17, 18, 19, 22, 24, 29	MPS 6515 NPN Transistor	176-050-9-001
Q13, 20, 21, 23, 25, 26, 27, 28, 16	MPS 6519 PNP Transistor	177-015-9-001
Q15	SPS-2306 NPN Transistor	176-023-9-001
	INTEGRATED CIRCUITS	
IC1, IC6, IC9, IC10	LM324, Quad OP-Amp	307-060-9-001
IC3	4013, Dual D Flip-Flop	307-062-9-001
IC2, IC4, IC7, IC8	4011, Quad 2 Input Nand Gate	307-063-9-001
IC5	4023, Triple 3 Input Nand Gate	307-070-9-001
	SWITCHES	
S9	Lead Identification, Lever	080-002-9-001
S4	Spring Return, Rotary	083-195-9-001
S1	f_T Range, MHz	083-205-9-001
S3	SPDT, Slide (Speaker ON/OFF)	084-001-9-001
S8	DPDT, Slide (Power ON/OFF)	084-001-9-003
S2	DPDT, PC Slide, (Drive LO/HI)	084-043-9-001
S6	4PDT, PC Slide (NPN/PNP)	084-045-9-001
S7	4PDT, PC Slide Lo Pwr/Hi Pwr	
S5	Momentary 4-Pole, Push-Button	088-029-9-001

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SCHEMATIC SYMBOL	DESCRIPTION	B & K PART NO.
	INDICATOR LAMPS	
LED-1, LED-2	Red LED, NPN/N-CH, PNP/P-CH	158-012-9-001
PL-1	Neon Lamp W/100KΩ Resistor	401-061-9-002
	MISCELLANEOUS	
F1	Fuse, 1/8 Amp, 250V, Slo-Blow Pigtail	193-011-9-001
T1	Power Transformer, 120V, 60Hz	065-118-9-001
T1	Power Transformer, 120/240V, 50/60 Hz	065-129-9-001
M1	f_T Meter	320-076-9-001
M2	Beta, Leakage, g_m Meter	320-077-9-001
SPKR-1	2″ Speaker, 8Ω	580-005-9-001
	Lever Switch Knob	751-118-9-001
	Skirted Knob with Pointer	751-133-9-001
	Skirted Bar Knob with Pointer	751-139-9-001
	Switch Button, Black	384-013-9-001
	Glamor Caps	384-015-9-001
	Test Lead Cable Assembly	523-135-9-001
	Transistor Socket	762-015-9-001
	Blue Banana Jack	774-001-9-003
	Green Banana Jack	774-001-9-004
	Yellow Banana Jack	774-001-9-006
	Line Cord	420-010-9-001
	Ferrite Core	870-002-9-001
	Terminal Strip	345-026-9-001
	Transistor Plug Assembly	523-178-9-001

MODEL 530 PARTS LIST

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 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.

B & K-PRECISION • DYNASCAN CORP. • 6460 W. Cortland St. • Chicago, Illinois 60635

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CIRCUIT SYMBOLS

LAST NO. USED	NOT USED
R176	R60 THRU R65
C63	C51, C62, C60
D35	D29
IC10	
Q28	Q6, Q7, Q8
LED-2	

I.C. NO.	POWER SUPPLY CONNECTIONS	
	+5V.	-5V.
2, 3, 4, 5, 7, 8,	PIN 14	PIN 7
1, 6, 9, 10,	PIN 4	PIN 11

TEST SWITCH

POSITION ① ② ③ ④ ⑤ ⑥

GREEN S9A

BLUE S9B

YELLOW S9C

S9D

S9E

S9F

FERRITE BEAD

TEST SOCKET

TEST - GAIN - LEAKAGE

2 GREEN

3 YELLOW

1 BLUE

PUSH TO TEST

S5

DRIVE LO HI

S2A

S2B

BASE DRIVE

COLLECTOR DRIVE

EMITTER DRIVE

S4D

S4E

gm BETA

S4A

S4B

S4C

S4F

LO PWR

HI PWR

S6A

S6B

S6C

S6D

CAL. TERM.*

*NOTE: SCREWED DOWN FOR NORM. OPR.

NPN PNP

S7A

S7B

S7C

S7D

+12V.

-12V

+5V.

-5V.

T.P.2 (Malco)

T.P.3 (Malco)

LO PWR. CAL.

HI PWR. CAL.

MID SCALE BETA CAL.

LEAKAGE CAL

ZERO CAL LEAKAGE

ZERO CAL BETA-gm

METER

1mA. 110Ω

SPEAKER OFF ON S3

SPEAKER 8Ω

POWER OFF ON S8

PL-1

F1 1/8 AMP. SLO-BLO

117 VAC. 60Hz.

PRIMARY WIRING

240V, 50/60Hz.

120V, 50/60Hz.

EXPORT MODEL WIRING (065-129-9-001)

VOLTS R72 30K

LED-1

LED-2

Q21 Q18 Q19 Q20

Q22 Q23 Q24 Q25

Q26 Q27 Q28 Q29

Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17

IC1A IC1B IC2C IC2D IC3A IC3B IC4A IC4B IC4C IC4D IC5A IC5B IC5C IC6A IC6B IC6C IC6D IC7A IC7B IC7C IC7D IC8A IC8B IC8C IC8D IC9A IC9B IC9C IC9D IC10A IC10B IC10C IC10D

D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20 D21 D22 D23 D24 D25 D26 D27 D28 D30 D31 D32 D33

R66 82 1W

R67 100 1W

R68 100K

R69 6.2K

R70 750

R71 6.2K

R73 51K

R74 33K

R75 10K

R76 200K

R77 5.6K

R78 1K

R79 13K 2%

R80 5.6K

R81 18K 2%

R82 51K

R83 18K 2%

R84 910K

R85 9.1K 2%

R86 100K

R87 10K ZERO CAL LEAKAGE

R89 10K

R90 10K

R96 470

R97 47K

R98 100K

R99 1K

R100 82K

R101 50K MID SCALE BETA CAL.

R102 100K

R103 1K LEAKAGE CAL

R104 10K

R105 510

R106 500K ZERO CAL BETA-gm

R107 10K

R108 100K

R109 10K

R110 100K

R111 10K

R112 10K

R113 100K

R114 100K

R115 10K

R116 100 CAL. TERM.*

R117 1.5

R118 100K

R119 100K

R120 47K

R121 100K LO PWR. CAL.

R122 750

R123 100K

R124 100

R125 33K

R126 10K

R127 100K

R128 180

R129 22K

R130 330

R131 4.7K

R132 470K

R133 1K

R134 1MEG.

R135 2.7K

R136 10K

R137 100K

R138 15K

R139 620

R140 10K

R141 100K

R142 100K

R143 15K

R144 15K

R145 820

R146 820

R147 220K

R148 22K

R149 470K

R150 220K

R151 3.3 MEG.

R152 100K

R153 120K

R154 1.8K

R155 470

R156 47K

R157 47K

R158 22

R159 5.6K

R160 1K

R161 3.6K

R162 47K

R163 43

R164 47K

R165 4.7K

R166 200K

R167 10K

R168 10K

R169 220K

R170 6.2K

R171 6.2K

R172 110K

R173 100K

R174 10K

R176 10K

R91 2K

R92 500K

R93 220K

R94 47K

R95 47K

C38 1000

C39 1000

C40 1000

C41 1000

C42 10 250V.

C43 .1 MYLAR

C44 100

C45 .1

C46 .047 MYLAR

C47 .01 MYLAR

C48 .1

C49 .01 MYLAR

C50 .01

C52 .001

C53 .001

C54 .001

C55 .001

C56 .047 MYLAR

C57 .01 MYLAR

C58 .005

C59 .005

C61 .01

T1

TP1 (MALCO)

BLK RED RED/YEL RED BLU BLK BLU BLK WHT BLK/WHT BLK/RED

BK PRECISION
MODEL 530
SEMICONDUCTOR TESTER
488-195-9-001

COMPOSITE
499-114-9-001

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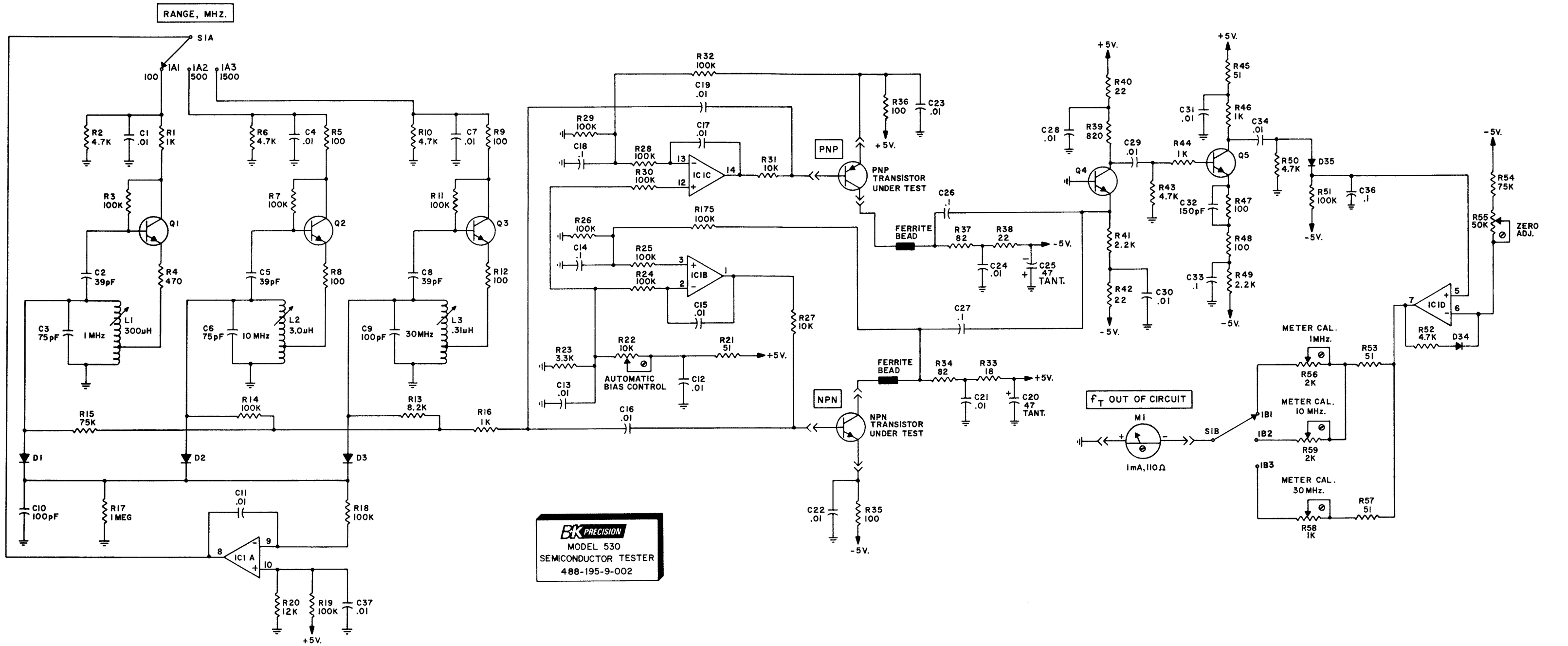
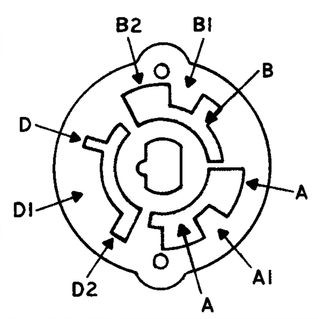
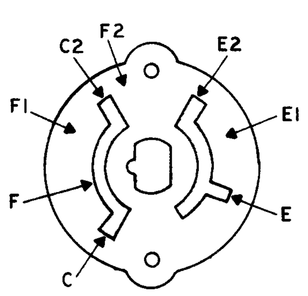
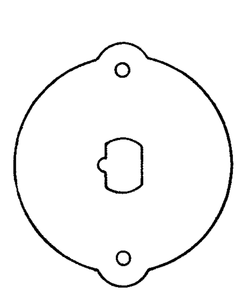
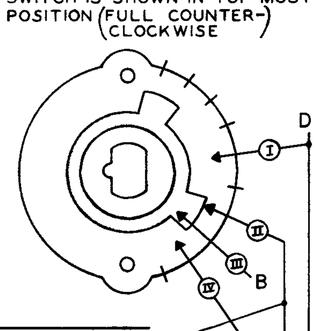
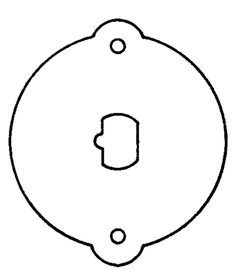
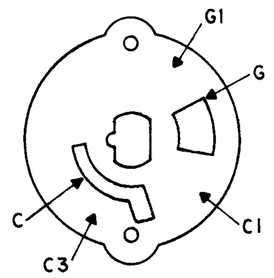
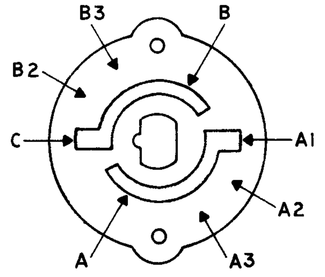
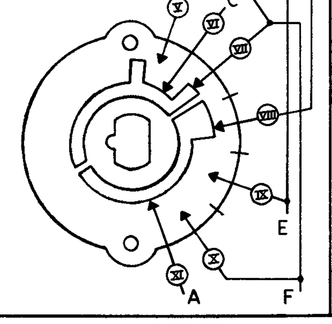


BK PRECISION
MODEL 530
SEMICONDUCTOR TESTER
488-195-9-002

	SWITCH 4 SECTION 1	SWITCH 4 SECTION 2	SWITCH 1 SECTION 1	SWITCH 9 SECTION 1
FRONT				SWITCH IS SHOWN IN TOP MOST POSITION (FULL COUNTER-CLOCKWISE) 
REAR				

SWITCH IS SHOWN IN CENTER POSITION

SWITCH IS SHOWN IN FULL COUNTER-CLOCKWISE POSITION

NOTES: (UNLESS OTHERWISE SPECIFIED)

ALL RESISTORS ARE 1/4 W, 5%, DEPOSITED CARBON.
ALL CAPACITORS SHOWN IN MICROFARADS.
TITLES IN RECTANGLES DENOTE FRONT PANEL CONTROLS.
SCHEMATIC SUBJECT TO CHANGE WITHOUT NOTICE.

⏚ = COMMON GROUND.

⏚ = CHASSIS GROUND.

SWITCH POST	PATTERN IN IDENTIFICATION WINDOW
1	B G Y
2	Y G B
3	Y B G
4	G B Y
5	G Y B
6	B Y G

COMPOSITE
499-114-9-001